

CATALOGUE

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2011 | 2012



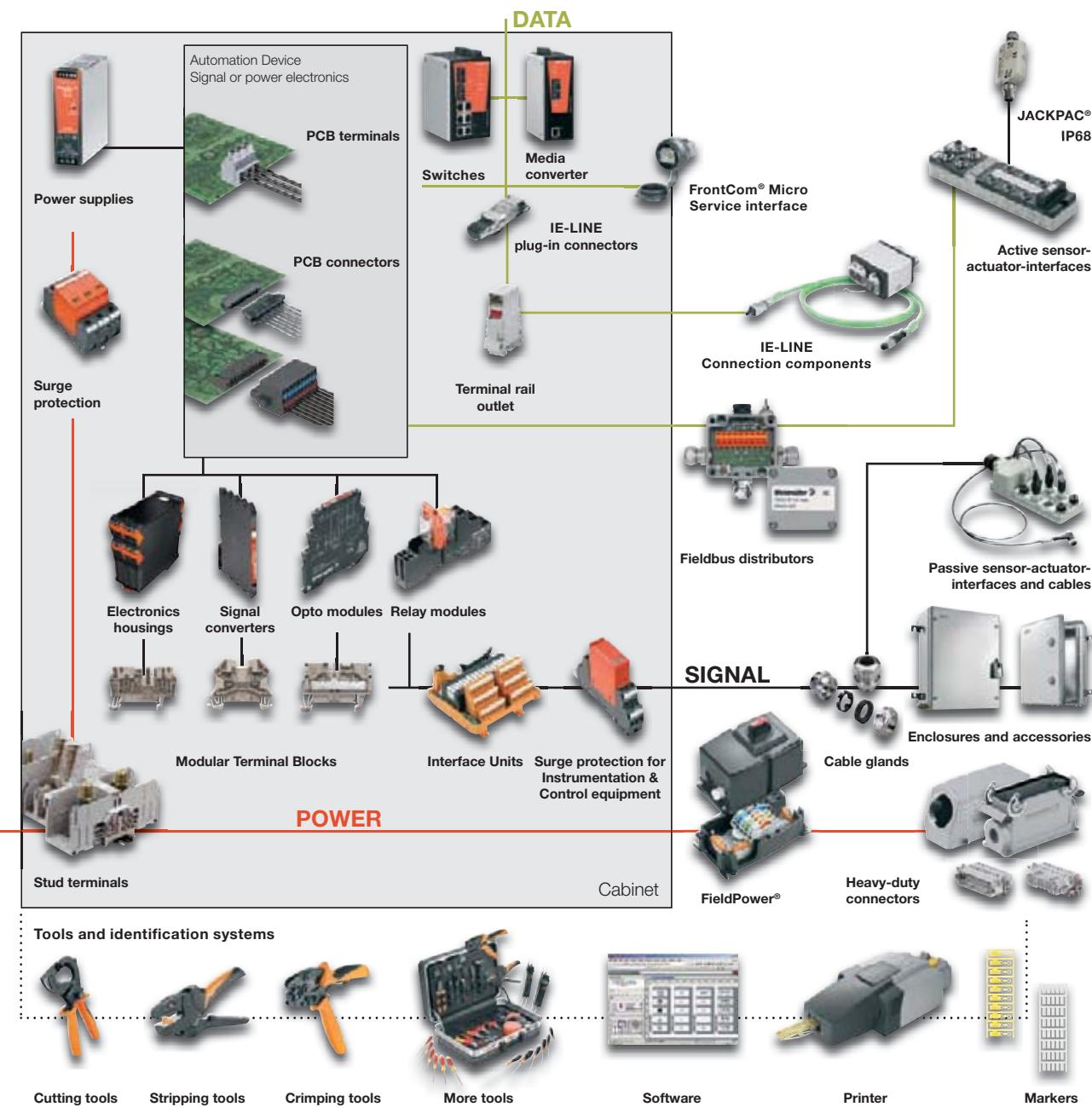
## Enclosures and Cable Glands

Catalogue

# Product Portfolio

Weidmüller is a leading international provider of solutions for electrical connectivity, transmission and conditioning of power, signal and data in industrial environments. The company with headquarters in Detmold/Germany develops, produces and sells products in the field of electrical connectivity and electronics all over the world.

[www.power-signal-data.com](http://www.power-signal-data.com)



## All the catalogues at a glance

		Order No.
Catalog 1	Modular Terminal Blocks	<b>5661400000</b>
Catalog 2	PCB Terminals, PCB Connectors and Housings for Electronics	<b>1250030000</b>
Catalog 3	RockStar® – Heavy Duty Connectors	<b>5664240000</b>
Catalog 4.1	Electronics – Analogue Signal Conditioning	<b>1203510000</b>
Catalog 4.2	Electronics – Relays and Optos	<b>1282330000</b>
Catalog 4.3	Electronics – Power Supplies	<b>1282390000</b>
Catalog 4.4	Electronics – Surge protection	<b>1271290000</b>
		<b>Order No.</b>
Catalog 4.5	Electronics – Interface units and PLC solutions	<b>1252080000</b>
Catalog 5	Enclosures and Cable Glands	<b>1274520000</b>
Catalog 6	Tools	<b>1161520000</b>
Catalog 7	Identification systems	<b>1125590000</b>
Catalog 8	Sensor Actuator Interface	<b>1235620000</b>
Catalog 9	Industrial Ethernet	<b>1274570000</b>
Product information	FieldPower® – decentralised power distribution	<b>1229860000</b>

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**Enclosures and Cable Glands**

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Introduction

---

Enclosures

---

Cable entries

---

Cable entry system

---

Distribution boxes

---

FieldPower®

---

Tools

---

**Appendix**

---

Weidmüller Solutions & Service

---

Technical appendix

---

Index

Search according to type or order number, Addresses worldwide

# Enclosures and Cable Glands

## Enclosure overview, introduction

Page B.2



## Klippon® TB MH

Page B.10



## Klippon® TB QL

Page B.36



## Klippon® STB

Page B.62



## Klippon® K

Page B.72



## Klippon® POK

Page B.94



## TBF Series

Page B.114



## MPC Series

Page B.122



## FPC Series

Page B.130



## Standard cable glands - plastic

Page C.6



## Standard cable glands - brass

Page C.9



## Cable glands for HDC RockStar®

Page C.14



**EMC – cable glands**

Page C.15



**Cable glands - stainless steel**

Page C.17



**Cable glands ⚡ plastic**

Page C.18



**Cable glands ⚡ brass**

Page C.20



**Klippon® cable glands ⚡**

Page C.21



**Accessories - lock nuts**

Page C.37



**Accessories - IP washer**

Page C.42



**Accessories - shrouds**

Page C.48



**Sealing plugs**

Page C.51



**Adaptors**

Page C.58



**Compensating elements**

Page C.60



**Cable entry system - Cabtite**

Page D.2



# Enclosures and Cable Glands

## Distribution boxes

Page E.2



## FieldPower®

Page F.2



## Tools

Page G.2



# Enclosures and Cable Glands

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**Enclosures and Cable Glands**

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Introduction

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A.2**A**

## Klippon® – Proven over the years

The Klippon® brand has long stood for competence and quality in enclosures – in particular for industrial standard applications and for applications in explosive and harsh environments. Klippon® is a trademark of the Weidmüller Group, which operates worldwide in 70 countries through its sales offices, production facilities and sales agencies.

Weidmüller had already started producing enclosures in the 1960s. Weidmüller has demonstrated its reputation as a competent and reliable partner innumerable times. Weidmüller's name has stood for innovative products that can cope with even the most demanding market needs since then.

Weidmüller meets these requirements with its range of steel sheet enclosures of the new Klippon® TB Series available in

Multi-Hinge (MH) or Quarter-Lock (QL) versions, the Klippon® STB series and the aluminium enclosures of the Klippon® K series. The portfolio is supplemented by the polyester enclosures of the Klippon® POK Series and polycarbonate enclosures. In addition, a wide range of different accessories are available including cable glands, sealing plugs, adaptors, pressure compensation elements, etc. Regardless of the application being designed, Weidmüller offers many customised enclosure and individually tailored services to its customers. These include turnkey enclosure solutions with customer-specific configurations (such as mounting rails, drilled holes, cable glands, cut-outs, special coatings, etc.).

*Additional information can be found in chapter V – Weidmüller Solutions & Service and in chapter W – Technical Appendix.*



# Harmonisation – the key to market success!

Weidmüller's products and services meet not only its own internal high standards, but also international quality and safety standards. The Klippon® TB enclosure series is one of the first whose components are approved and certified as being compliant with the newly issued Standard Series IEC / EN 60079. This series of standards provides a harmonised approach to the development and manufacture of equipment for use in explosive hazard areas.

Weidmüller enclosures are specially tailored to meet the ever changing and extremely harsh environments of these industries. Certified in accordance with international standards, they also meet the new ATEX and IECEx regulations for explosive hazard areas and have further certifications for use in standard industrial applications. They are, of course, also safe and maintenance free! You can find innovative solutions from Weidmüller everywhere; from power distribution or control and monitoring systems in boiler and turbine control systems, in fuel management and combustion control systems, or in transmission and distribution applications.



## Experts in ATEX for application-specific solutions

Weidmüller's Customer-specific Solutions division offers ATEX certified components and application-specific ATEX solutions for use in explosive hazard zones. Our competent team is here to take care of each individual customer requirement.

Special measures must be taken to guarantee employee health and safety in explosive hazard areas. The European Community's ATEX directives (1999/92/EC and 94/9/EC) regulate this. They divide the individual hazard areas, and thereby the associated choice of explosion-proof devices, up into zones.

Weidmüller's customer-specific production is monitored by a notified body in accordance with European regulations. It meets all the requirements of the IECEx scheme for equipment based on the standards of the International Electrotechnical Commission.

*More on this can be found in chapter W - Technical Appendix.*

**Introduction**

# When quality is the key

**A**

Weidmüller's enclosures are often used in harsh environments. They remain reliable for many years thanks to the high quality levels, even when exposed to external influences like water, dust, hard impacts, shock, vibration, corrosion, and extreme temperature fluctuations.

All components used in explosive hazard areas are subject to strict safety regulations and are checked to the finest detail in terms of their functionality as well as their resistance and resilience against the prevailing environmental conditions.

As each enclosure is only as strong as its weakest point, Weidmüller consistently ensures that each individual component is of the highest quality and that it will not therefore cause a weak point in the enclosure. Evidence of this high quality and the functionality of the enclosure is provided by our own laboratory following intensive and careful testing to the international standards.



## IP protection class testing

The most important function of an enclosure is to protect the internal components from external influences like moisture or dust.

Enclosures are therefore classified in terms of IP (Ingress Protection) protection classes. To certify this, the enclosures are tested in line with DIN EN 60529 in an accredited Weidmüller laboratory.

Further tests are carried out in our accredited laboratory:

- Impact resistance testing (IK number)
- Shock and vibration test
- Salt spray test (proof of corrosion resistance)
- Long-term testing in accordance with IECEx
  - Heat resistance
  - Cold resistance
- Computer tomography (CT)

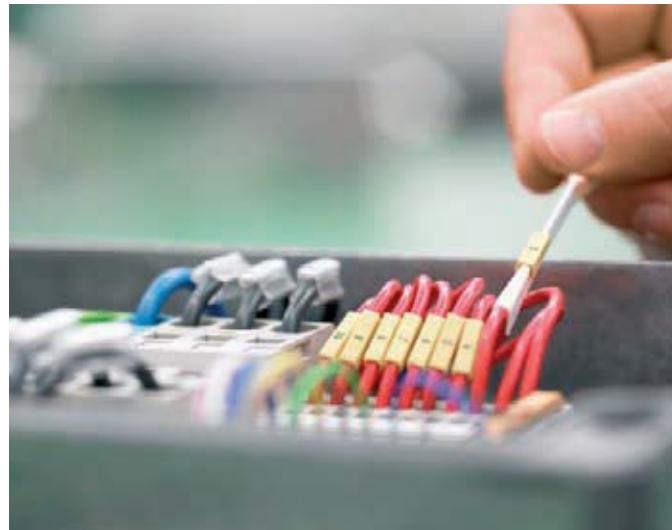
# Application specific solutions – your requirements are our motivation

Each branch has its own specific requirements and increasingly need individual solutions in addition to our standard product range. Many applications are subject to high levels of mechanical stress, for example due to vibrations or direct forces. Extreme temperature conditions or use in explosive hazard areas are additional factors which the enclosure must be designed to cope with. Weidmüller provides competent and goal-oriented support to assist in the choice of the optimum product for every application.

Be it individual product development, customer specific assembly or ready-made application-specific products, Weidmüller helps to optimise work sequences with the perfect product solution. This ensures cost effectiveness for our customers not just today, but also enduring into the future.



## Customer-specific assembly



### Product consulting, development and manufacture – all from a single source

Weidmüller is a reliable partner; we tailor-make individual enclosure solutions intelligently which meet the needs of our customers. Customer costs are reduced, efficiency increased and the customer can concentrate fully on their core business. Weidmüller has the application knowledge and the capacity to provide these tailor-made solutions quickly, flexibly and economically. Weidmüller forms a partnership with its customers, providing advice and always being on-hand to deal with any questions. When it comes to designing the task, we do so together. In the larger process, Weidmüller can choose from its wide product range to provide the ideal components to allow the appropriate solution to be set up.

*You can find more information in chapter V – Weidmüller Solutions & Service.*

# Highest level manufacturing expertise

Weidmüller is globally known for its high quality enclosures. To guarantee these high quality standards only the highest quality materials were used for the production of the new Klippon® TB series. Their production was done using state of the art techniques.

High quality Klippon® TB enclosures are manufactured in nine steps:

- Fully automated laser cutting
- Computer-aided bending
- Process-safe welding
- Innovative welding of the female threaded sockets
- Surface treatment (electropolishing)
- Sealing gasket cutting
- Final assembly
- In-process quality controls
- Innovative packaging

More information online at:

[www.klippontb.com](http://www.klippontb.com)



# Enclosures

**Enclosures**

Introduction	B.2
Klippon® TB MH - Multi Hinge	B.10
Klippon® TB QL - Quarter Lock	B.36
Klippon® TB - System accessories	B.61
Klippon® STB - Sheet steel enclosures	B.62
Klippon® K - Aluminium enclosures	B.72
Klippon® POK - Polyester enclosures	B.94
TBF - Polyester enclosures	B.114
MPC - Polycarbonate enclosures	B.122
FPC - Polycarbonate enclosures	B.130

# Metal enclosures

**B**

	Klippon® TB MH	Klippon® TB QL	Klippon® STB	Klippon® K	
<b>Material</b>					
Material Specification	Stainless steel Stainless steel 1.4404 (316L) 1.50 mm	Stainless steel Stainless steel 1.4404 (316L), enclosure 1.50 mm	Stainless steel Stainless steel 1.4404 (316L) 1.50 mm 1.0330	Sheet steel Powder-coated steel sheet 1.0330	
Sea water resistance	very good	very good	very good	good	
UV resistance	very good	very good	very good	very good	
Free from halogens	x	x	x	x	
Cadmium free	x	x	x	x	
Surface finish	electropolished	electropolished	electropolished, Mirror-polish	powder-coated	
Intended use	Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry	Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry	Ex areas, packing industry, railways, shipping, process industry	Ex-areas, process industry, transport, railways, shipping, port facilities, packaging, mechanical engineering	
<b>Dimensions</b>					
L x W x H (min.) in mm	229x152x133	229x152x133	120x120x80	50x45x30	
L x W x H (max) in mm	987x740x200	987x740x200	250x400x130	230x280x111	
Geometry	3 standard depths	3 standard depths	5 standard depths	11 standard depths	
<b>Specific characteristics</b>			<b>Ex-version</b> <b>Industrial version</b>	<b>Ex-version</b> <b>Industrial version</b>	
Gland plates	0,1,2,3,4	0,1,2,3,4	none	none	
Type of gasket	Flat gasket	Flat gasket	Flat gasket	Shaped gasket	
Seal material	Silicone	Silicone	Silicone	Silicone, Chloroprene, Silicone	
Enclosure attachment	4 mounting feet with 11 mm hole size	4 mounting feet with 11 mm hole size	External holders with 8 mm holes	External holders with 8 mm holes	
Installation mounting	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	20 mm C-rail welded to the enclosure	20 mm C-rail welded to the enclosure	
Temperature range	-60 °C...+135 °C	-60 °C...135 °C	-60 °C...100 °C	-60 °C...120 °C	-50 °C...135 °C -40 °C...+80 °C (CR); -50 °C...+135 °C (MQ)
Impact resistance	10 J Industrial applications 7 J ATEX applications	10 J Industrial applications 7 J ATEX applications	7 J	10 J	7 J 10 J
IP - protection class	IP 66, IP 67	IP 66	IP 66	IP 66	IP 66, IP 67 and Nema 4X
Flammability rating					
Surface resistance (in ohms)					
<b>Approvals</b>					
ATEX	x	x	x	x	
- EN60079-7 Increased safety	x	x	x	x	
- EN60079-11 Intrinsic safety	x	x	x	x	
IECEx	x	x			
- IEC60079-7 Increased safety	x	x			
- IEC60079-11 Intrinsic safety	x	x			
GOST Ex	x	x			x x
GOST	*	*			x x
cULus	x	x	x	*	x
UL					x
German Lloyd	x	x	x		x
Lloyds Register			x	*	
Russian Maritime Register	x	x			x x
CCOE	*				
<b>Configuration</b>	Lid hinges Removable lid Gland plates Welded mounting feet Fitting for a padlock	Lid hinges Gland plates Welded mounting feet Quarter lock	TAS 20 C-profile rail Welded mounting feet Earth studs in enclosure lid and base	Internal earthing screw in the enclosure base an external earth stud	internal earthing screw in the enclosure base

\* Approvals are pending

# Plastic enclosures



	Klippon® POK	TBF	MPC	FPC
Material	Polyester 	Polyester	Polycarbonate	Polycarbonate
Material Specification	Glass-fibre reinforced polyester in accordance with DIN 16913	Glass-fibre reinforced polyester, polycarbonate transparent cover		
Sea water resistance	very good	very good	very good	very good
UV resistance	good	good	good	good
Free from halogens	x	x	x	x
Cadmium free	x	x	x	x
Surface finish	Grey (industrial version), Black (Ex version)	grey	grey	grey
Intended use	Ex-areas, energy production, transportation, process industries, port facilities	Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry	Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry	Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry
<b>Dimensions</b>				
L x W x H (min.) in mm	75x80x55	186x151x139	125x75x75	200x200x130
L x W x H (max) in mm	250x400x160	603x603x175/210	250x175x150	600x400x130
Geometry	6 standard depths	3 standard depths	4 standard depths	1 standard depth
<b>Specific characteristics</b>				
Gland plates		none	none	none
Type of gasket	O-ring	O-ring	Foam seal	Foam seal
Seal material	Silicone	Chloroprene	Polyurethane	Polyurethane
Enclosure attachment	4 holes for M4 to M6 screws	4 holes for M4 to M6 screws	4 holes or external mounting brackets (accessory)	4 holes or external mounting brackets (accessory)
Installation mounting	M4 to M6 threaded holes	M4 to M6 threaded holes	Self-tapping screws	Self-tapping screws
Temperature range	-55 °C...+100 °C	-40 °C...+90 °C	-50 °C...+130 °C	-50 °C...+130 °C
Impact resistance	7 J	7 J	7J	7J
IP - protection class	IP 66	IP 66	IP 66, IP 67	IP 66, IP 67
Flammability rating	UL94 V0	UL94 V0	V2	V2
Surface resistance (in ohms)	<10^9	10^12	10^12	10^16
<b>Approvals</b>				
ATEX	x			
- EN60079-7 Increased safety	x			
- EN60079-11 Intrinsic safety				
IECEx				
- IEC60079-7 Increased safety				
- IEC60079-11 Intrinsic safety				
GOST Ex	x			
GOST	x	x		
cULus		x		
UL				
German Lloyd				
Lloyds Register		x		
Russian Maritime Register	x	x		
<b>Configuration</b>				
Fastening screws for the mounting plate		grey or transparent lid	grey or transparent lid	grey or transparent lid

\* Approvals are pending

# Overview of dimensions

**B**

## Klippon® TB MH – Multi Hinge / Klippon® TB QL – Quarter Lock

Page B.10

	Dimensions [mm] Height x width x depth	Weight [g]			
		1 gland plate	2 gland plates	3 gland plates	4 gland plates
	<b>229 x 152 x 133</b>	3060	3360	3740	4060
	<b>260 x 260 x 150</b>	4840	5510	5780	6680
	<b>260 x 260 x 200</b>	5620	6400	6840	8200
	<b>306 x 306 x 150</b>	5960	6580	7060	7660
	<b>306 x 306 x 200</b>	6800	7720	8320	9180
	<b>350 x 260 x 150</b>	5780	6700	7600	9700
	<b>350 x 260 x 200</b>	6700	7700	8380	10100
	<b>400 x 300 x 150</b>	7200	8300	8380	11100
	<b>400 x 300 x 200</b>	7900	9200	10400	11300
	<b>458 x 382 x 150</b>	9000	9900	10700	12700
	<b>458 x 382 x 200</b>	10240	10830	12500	14110
	<b>480 x 480 x 150</b>	11900	13800	15200	17600
	<b>480 x 480 x 200</b>	12420	15900	17700	16080
	<b>550 x 350 x 150</b>	8500	9500	10800	12100
	<b>550 x 350 x 200</b>	11060	11500	13800	14720
	<b>620 x 450 x 150</b>	12800	14100	15600	17100
	<b>620 x 450 x 200</b>	14240	15830	17360	20350
	<b>762 x 508 x 150</b>	17100	18600	19700	20800
	<b>762 x 508 x 200</b>	18120	19800	21200	22700
	<b>914 x 610 x 150</b>	20700	22200	24100	26000
	<b>914 x 610 x 200</b>	23840	24600	26400	28200
	<b>980 x 740 x 200</b>	34800	36300	36100	39900

**Note:**

Additional enclosure sizes available on request. The weights given are net weights. Enclosures without gland plates are available on request.

**Klippon® STB****Page B.62**

	<b>Dimensions [mm] Height x width x depth</b>	<b>Weight [g]</b>
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>120 x 120 x 80</b> 1250 1220 1277
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>150 x 120 x 80</b> 1451 1380 1380
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>150 x 150 x 90</b> 1708 1734 1765
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>190 x 150 x 90</b> 2006 2080 2081
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>190 x 190 x 100</b> 2433 2407 2468
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>250 x 250 x 120</b> 3912 3850 4013
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>160 x 380 x 120</b> 3961 3960 3974
	1.4404 (316L), mirror polished 1.4404 (316L), electropolished MS RAL 7032	<b>250 x 400 x 130</b> 5714 5700 5859

The weights given are net weights. MS: Mild steel, Stainless steel 1.4404 (316L).

**Klippon® K****Page B.72**

	<b>Dimensions [mm] Height x width x depth</b>	<b>Weight [g]</b>
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>45 x 50 x 30</b> 89 78.4 79.2 83.6
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>64 x 58 x 34</b> 184 148.1 153.6 149.4
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>64 x 98 x 34</b> 254 207 211.17 217
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>70 x 70 x 45</b> 272 247.5 251.5 255.9
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>80 x 75 x 57</b> 328 318 322 319.6
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>70 x 100 x 45</b> 319 314.4 309.9 316

The weights given are net weights.

**Klippon® K****Page B.72**

	<b>Dimensions [mm] Height x width x depth</b>	<b>Weight [g]</b>
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>45 x 50 x 30</b> 89 78.4 79.2 83.6
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>64 x 58 x 34</b> 184 148.1 153.6 149.4
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>64 x 98 x 34</b> 254 207 211.17 217
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>70 x 70 x 45</b> 272 247.5 251.5 255.9
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>80 x 75 x 57</b> 328 318 322 319.6
	Unpainted Ex (S) Unpainted (CR) RAL 7001 (CR) RAL 7001 (S)	<b>70 x 100 x 45</b> 319 314.4 309.9 316

The weights given are net weights.

# Overview of dimensions

**B****Klippon® POK****Page B.94**

		Dimensions [mm] Height x width x depth	Weight [g]
	RAL 7001 RAL 9011	<b>75 x 80 x 56</b>	273 289
	RAL 7001 RAL 9011	<b>75 x 110 x 56</b>	345 350
	RAL 7001 RAL 9011	<b>75 x 160 x 56</b>	450 461
	RAL 7001 RAL 9011	<b>75 x 190 x 56</b>	499 530
	RAL 7001 RAL 9011	<b>75 x 230 x 56</b>	612 628
	RAL 7001 RAL 9011	<b>120 x 122 x 91</b>	768 769
	RAL 7001 RAL 9011	<b>120 x 220 x 90</b>	1094 1110
	RAL 7001 RAL 9011	<b>160 x 260 x 90</b>	1302 1326
	RAL 7001 RAL 9011	<b>160 x 260 x 90</b>	1771 1767
	RAL 7001 RAL 9011	<b>160 x 360 x 90</b>	2210 2291
	RAL 7001 RAL 9011	<b>160 x 560 x 90</b>	3327 3320
	RAL 7001 RAL 9011	<b>250 x 255 x 120</b>	2817 2841
	RAL 7001 RAL 9011	<b>250 x 400 x 120</b>	3693 3771
	RAL 7001 RAL 9011	<b>250 x 600 x 120</b>	5420 5580
	RAL 7001 RAL 9011	<b>405 x 400 x 120</b>	5740 5580
	RAL 7001 RAL 9011	<b>250 x 255 x 160</b>	3458 3600
	RAL 7001 RAL 9011	<b>250 x 400 x 160</b>	4390 4408

The weights given are net weights.

**TBF****Page B.114**

		Dimensions [mm] Height x width x depth	Weight [g]
	Grey lid (RAL 7035) Transparent lid	<b>186 x 151 x 140</b>	1061 810
	Grey lid (RAL 7035) Transparent lid	<b>302 x 186 x 175</b>	1857 1520
	Grey lid (RAL 7035) Transparent lid	<b>302 x 302 x 175</b>	2420 2000
	Grey lid (RAL 7035) Transparent lid	<b>372 x 302 x 175</b>	2829 2465
	Grey lid (RAL 7035) Transparent lid	<b>488 x 302 x 175</b> <b>488 x 302 x 210</b>	3688 3220
	Grey lid (RAL 7035) Transparent lid	<b>558 x 302 x 175</b> <b>558 x 302 x 210</b>	4420 3660
	Grey lid (RAL 7035) Transparent lid	<b>603 x 302 x 175</b> <b>603 x 302 x 210</b>	4900 3900
	Grey lid (RAL 7035) Transparent lid	<b>603 x 372 x 175</b> <b>603 x 372 x 210</b>	5000 5000

The weights given are net weights.

## TBF

## Page B.114

	Dimensions [mm] Height x width x depth	Weight [g]
Grey lid (RAL 7035) Transparent lid	<b>603 x 605 x 175</b> <b>603 x 605 x 210</b>	7220 7480

## MPC

## Page B.122

	Dimensions [mm] Height x width x depth	Weight [g]
	Grey lid (RAL 7035) Transparent lid	<b>125 x 75 x 75</b> 214
	Grey lid (RAL 7035) Transparent lid	<b>125 x 75 x 125</b> 306 304
	Grey lid (RAL 7035) Transparent lid	<b>125 x 125 x 75</b> 295 294
	Grey lid (RAL 7035) Transparent lid	<b>175 x 125 x 75</b> 373 368
	Grey lid (RAL 7035) Transparent lid	<b>175 x 125 x 100</b> 464 448
	Grey lid (RAL 7035) Transparent lid	<b>175 x 125 x 125</b> 523 525
	Grey lid (RAL 7035) Transparent lid	<b>175 x 175 x 75</b> 489 491
	Grey lid (RAL 7035) Transparent lid	<b>175 x 175 x 150</b> 184 731
	Grey lid (RAL 7035) Transparent lid	<b>250 x 175 x 100</b> 760 753

## FPC

## Page B.130

	Dimensions [mm] Height x width x depth	Weight [g]
	Grey lid (RAL 7035) Transparent lid	<b>200 x 200 x 132</b> 1230 1260
	Grey lid (RAL 7035) Transparent lid	<b>200 x 300 x 132</b> 1616 1589
	Grey lid (RAL 7035) Transparent lid	<b>200 x 400 x 132</b> 2000 1984
	Grey lid (RAL 7035) Transparent lid	<b>300 x 300 x 132</b> 2097 2103
	Grey lid (RAL 7035) Transparent lid	<b>300 x 400 x 132</b> 2624 2620
	Grey lid (RAL 7035) Transparent lid	<b>400 x 600 x 132</b> 3964 4500

The weights given are net weights.

The weights given are net weights.

## Drawing design – For chapter B

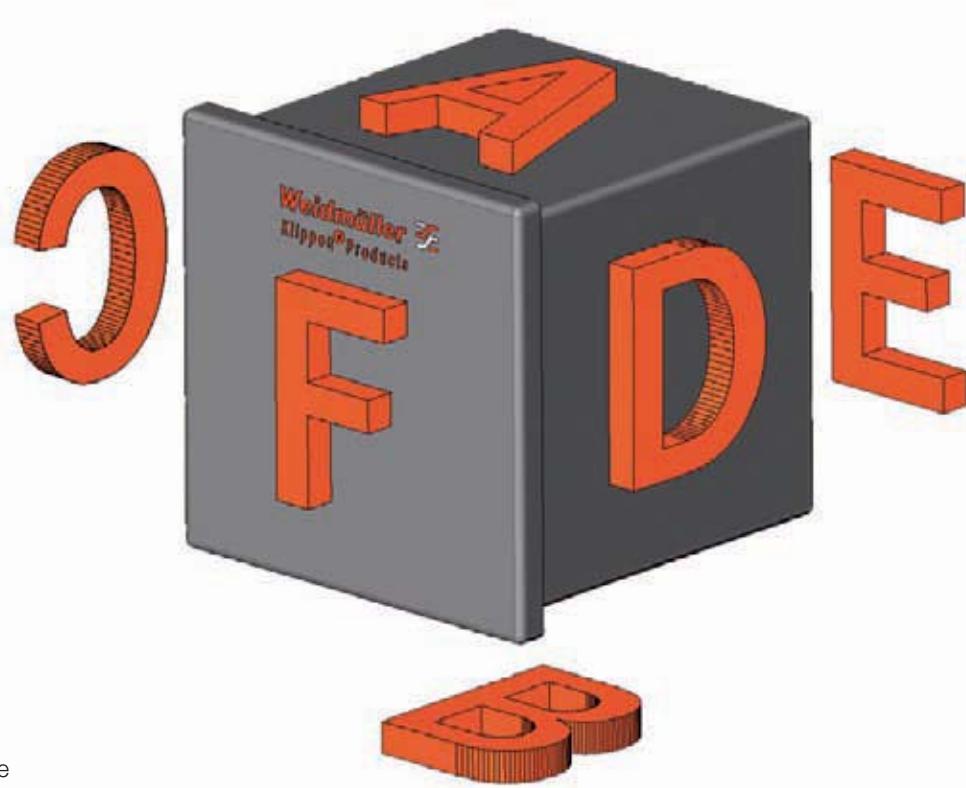
The drawings contained in chapter B are constructed in the following way.

**B**

To identify the enclosure side views, these are marked with the letters A, B, C, D, E, and F. The schematic 3D representations shown underneath are of an enclosure that has been wall-mounted.

- F** shows the view of the enclosure lid (front aspect),
- E** marks the inner surface of the enclosure (view into the enclosure when the lid has been opened).
- A** shows the view of the enclosure from above and
- B** the view of the enclosure from underneath.
- C** shows the left and
- D** the right side of the enclosure.
- E** is the view from the front into the enclosure's interior, without a lid.

You can find the dimensions of the enclosure sides for all enclosure sizes in each drawing.



**A** = top

**B** = bottom

**C** = left

**D** = right

**E** = enclosure base

**F** = enclosure lid



# Klippon® TB MH - Multi Hinge

## **Stainless steel enclosures**

for use in industrial and in explosive hazard areas

**B**

The Klippon® TB enclosure series features excellent performance characteristics, even under the most difficult environmental conditions, and also comply with the stricter requirements of explosive hazard areas found in the process or power generation industries. The new Klippon® TB MH enclosure series offers further improvements to a product line that is already successfully leading the market.

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Length x width x depth in mm	1 Gland Plate (below)	2 Gland Plates (above + below)	3 Gland Plates (below + sides)	4 Gland Plates (all sides)	Reference product
KTB MH 221513 S4E_*	229 x 152 x 133	1194560000	1194570000	1194580000	1194590000	Klippon® TB10
KTB MH 262615 S4E_*	260 x 260 x 150	1194610000	1194620000	1194630000	1194640000	Klippon® TB10A
KTB MH 262620 S4E_*	260 x 260 x 200	1194660000	1194670000	1194680000	1194690000	Klippon® TB10A
KTB MH 303015 S4E_*	306 x 306 x 150	1194710000	1194720000	1194730000	1194740000	Klippon® TB11
KTB MH 303020 S4E_*	306 x 306 x 200	1194760000	1194770000	1194780000	1194790000	Klippon® TB11
KTB MH 352615 S4E_*	350 x 260 x 150	1194810000	1194820000	1194830000	1194840000	Klippon® TB11A
KTB MH 352620 S4E_*	350 x 260 x 200	1194860000	1194870000	1194880000	1194890000	Klippon® TB11A
KTB MH 403015 S4E_*	400 x 300 x 150	1194910000	1194920000	1194930000	1194940000	-
KTB MH 403020 S4E_*	400 x 300 x 200	1194960000	1194970000	1194980000	1194990000	-
KTB MH 453815 S4E_*	458 x 382 x 150	1195010000	1195020000	1195030000	1195040000	Klippon® TB12
KTB MH 453820 S4E_*	458 x 382 x 200	1195060000	1195070000	1195080000	1195090000	Klippon® TB12
KTB MH 484815 S4E_*	480 x 480 x 150	1195110000	1195120000	1195130000	1195140000	Klippon® TB12A
KTB MH 484820 S4E_*	480 x 480 x 200	1195160000	1195170000	1195180000	1195190000	Klippon® TB12A
KTB MH 553515 S4E_*	550 x 350 x 150	1195210000	1195220000	1195230000	1195240000	Klippon® TB12B
KTB MH 553520 S4E_*	550 x 350 x 200	1195260000	1195270000	1195280000	1195290000	Klippon® TB12B
KTB MH 624515 S4E_*	620 x 450 x 150	1195310000	1195320000	1195330000	1195340000	Klippon® TB12D
KTB MH 624520 S4E_*	620 x 450 x 200	1195360000	1195370000	1195380000	1195390000	Klippon® TB12D
KTB MH 765015 S4E_*	762 x 508 x 150	1195410000	1195420000	1195430000	1195440000	Klippon® TB13
KTB MH 765020 S4E_*	762 x 508 x 200	1195460000	1195470000	1195480000	1195490000	Klippon® TB13
KTB MH 916115 S4E_*	914 x 610 x 150	1195510000	1195520000	1195530000	1195540000	Klippon® TB14
KTB MH 916120 S4E_*	914 x 610 x 200	1195560000	1195570000	1195580000	1195590000	Klippon® TB14
KTB MH 987420 S4E_*	980 x 740 x 200	1195610000	1195620000	1195630000	1195640000	-

**Note**

\* Placeholder for the number of gland plates (1, 2, 3, 4). Klippon® TB MH enclosures are available without gland plates on request.

## Technical Overview

### Features

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Completely removable padlock tab
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Lid can be removed without a tool
- Earth studs in enclosure cover and bottom section
- Welded mounting feet
- International approvals

### Note

### Technical data

Enclosure material***	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	electropolished
IP protection class	IP66 / IP67
NEMA protection classes	3, 4x, 12
Gland plates	1 - 4 (fixed with M6 hexagon head screws with 10 mm heads), optionally without a gland plate
Gland plate thickness	3 mm (other thicknesses of up to 20 mm are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 6 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail
Enclosure attachment	4 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	Lid can be fully removed without the use of tools, can be fitted on both sides, lid opening angle: 130°
Cover attachment	4 hinges and M6 hex-head screws (AF 10) with slot
Equipped for a padlock	Removable padlock fitting, for additional product security with an optional padlock (article number: 0905680000)
Impact resistance	7 J ATEX applications, 10 J industrial applications
Gasket material	Silicone
Operating temperature range*	-60 °C...+135 °C
Torque - lid and gland plate screws**	2.5 Nm

### Note

\*Limited to IP66 protection when used in temperatures greater than 105°C. \*\* To secure the lid, please use our hexagonal socket wrench with a 10 mm socket (9009070000). \*\*\* Painted steel enclosures are available on request.

### Approvals for empty enclosures

ATEX certificate	KEMA 10ATEX0046 U
ATEX marking	II 2 G Ex e IIC Gb II 2 D Ex tb IIIC Db IP66/67
IECEx certificate	IECEx KEM 10.0015U
IECEx marking	Ex e IIC Gb Ex tb IIIC Db IP66/67
GOST Ex	POCC DE.ME92.B02036
GOST R	In preparation
cULus	E243298
Germanischer Lloyd	11533 - 10 HH
Russian Maritime Register	10.04093.250
CCOE	P267536/2

### Note

The Klippon® TB MH enclosure series can be pre-fitted in our customer specific production department according to your wishes; as an example, terminals, or other approved components, can be installed as required.

### Approvals for control and distribution box

ATEX certificate	KEMA 10ATEX0050
ATEX marking	II 2 G Ex eb IIC T6...T4 II 1 G Ex ia IIC T6...T4 II 2(1) G Ex eb ia IIC T6...T4 II 2 D Ex tb IIIC T85 °C...T135 °C IP66/67
IECEx certificate	IECEx KEM 10.0019
IECEx marking	Ex eb IIC T... Ex ia IIC T... Ex eb ia IIC T... Ex tb IIIC T85 °C...T135 °C IP66/67

### Note

Labelling depends on the application layout. Limited to IP66 protection when used in temperatures greater than 105 °C.



## Klippon® TB MH 221513

Depth 133 mm



Height/Width/Depth

229 / 152 / 133 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1194560000
2 gland plates - positioned up and down (A & B)		1194570000
3 gland plates - positioned down, left and right (B, C & D)		1194580000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1194590000

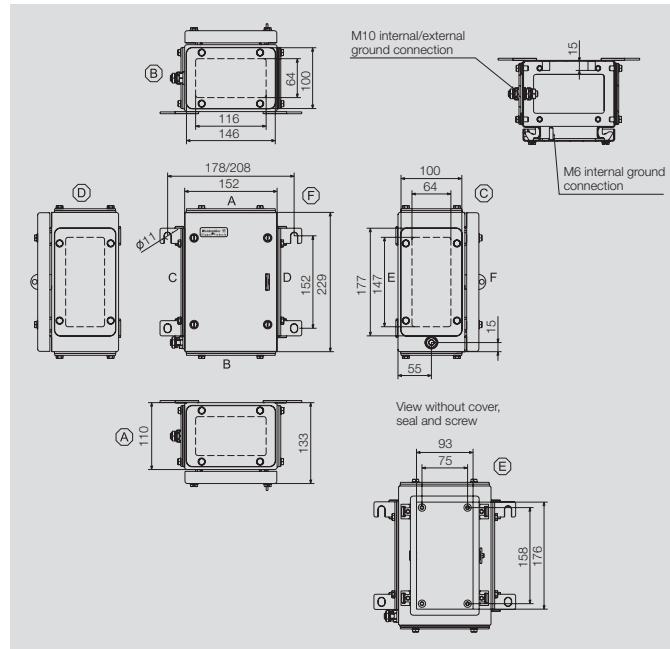
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193930000
Stainless steel, 1.4301	1193810000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	1x29	1x15
4 mm <sup>2</sup>		1x13
6 mm <sup>2</sup>		1x9
10 mm <sup>2</sup>		1x7
16 mm <sup>2</sup>		1x6
35 mm <sup>2</sup>		

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

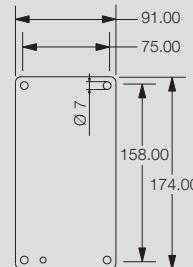
## Number of cable entries

Number of cable entries	A / B	C / D
M12	6	8
M16	5	6
M20	2	3
M25	2	2
M32	1	2
M40	1	2
M50	0	0
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 262615

Depth 150 mm



Height/Width/Depth 260 / 260 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1194610000
2 gland plates - positioned up and down (A & B)	1194620000
3 gland plates - positioned down, left and right (B, C & D)	1194630000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1194640000

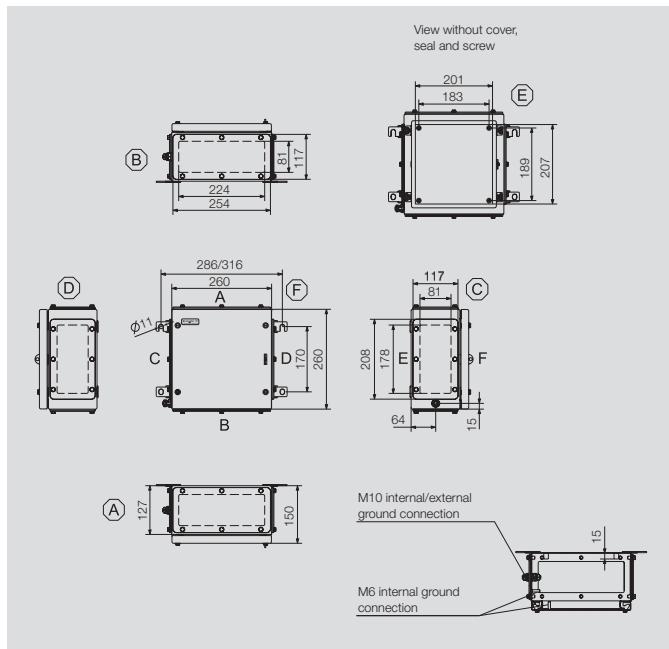
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193950000
Stainless steel, 1.4301	1193820000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x35	2x34
4 mm <sup>2</sup>	1x30	1x29
6 mm <sup>2</sup>	1x22	1x22
10 mm <sup>2</sup>	1x18	1x17
16 mm <sup>2</sup>	1x15	1x14
35 mm <sup>2</sup>		

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

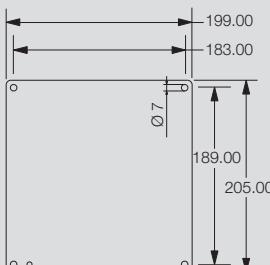
## Number of cable entries

Number of cable entries	A / B	C / D
M12	20	15
M16	11	8
M20	9	7
M25	4	3
M32	3	2
M40	3	2
M50	2	2
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH 262620

Depth 200 mm



Height/Width/Depth

260 / 260 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1194660000
2 gland plates - positioned up and down (A & B)		1194670000
3 gland plates - positioned down, left and right (B, C & D)		1194680000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1194690000

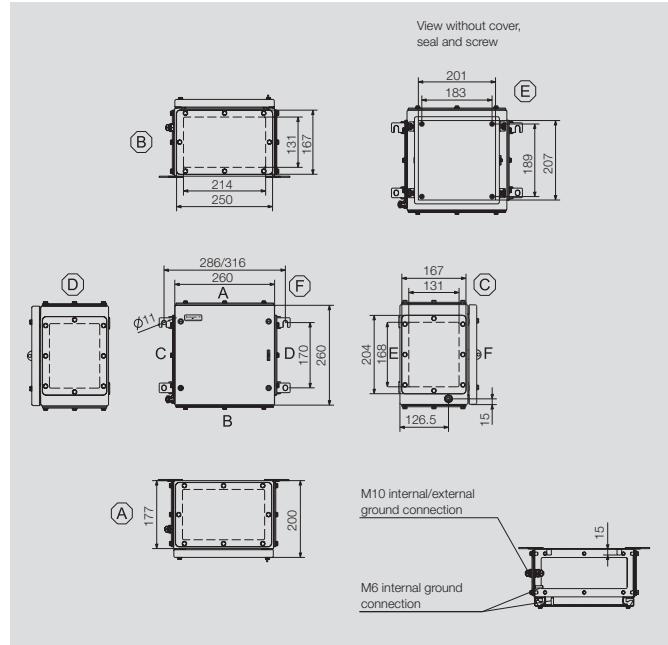
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193950000
Stainless steel, 1.4301	1193820000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	2x35	2x34
4 mm²	1x30	1x29
6 mm²	1x22	1x22
10 mm²	1x18	1x17
16 mm²	1x15	1x14
35 mm²		

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

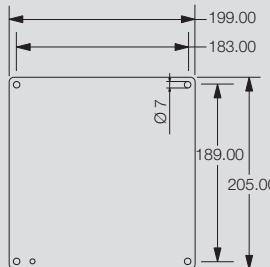
## Number of cable entries

Number of cable entries	A / B	C / D
M12	33	25
M16	22	16
M20	14	11
M25	12	9
M32	6	4
M40	5	4
M50	2	2
M63	2	1
M75	1	1

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 303015

Depth 150 mm



Height/Width/Depth 306 / 306 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1194710000
2 gland plates - positioned up and down (A & B)	1194720000
3 gland plates - positioned down, left and right (B, C & D)	1194730000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1194740000

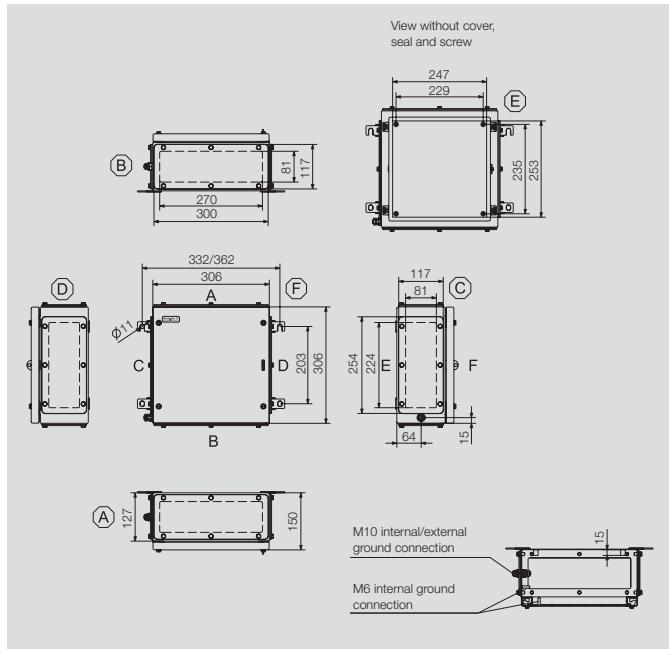
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193960000
Stainless steel, 1.4301	1193830000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x44	2x43
4 mm <sup>2</sup>	2x37	2x36
6 mm <sup>2</sup>	2x28	2x27
10 mm <sup>2</sup>	1x22	1x22
16 mm <sup>2</sup>	1x19	1x18
35 mm <sup>2</sup>	1x14	1x13

## Note

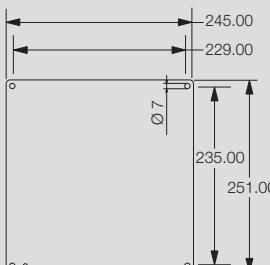
\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	24	20
M16	13	11
M20	11	9
M25	5	4
M32	4	3
M40	3	3
M50	3	2
M63	0	0
M75	0	0

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH 303020

Depth 200 mm



Height/Width/Depth

306 / 306 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1194760000
2 gland plates - positioned up and down (A & B)		1194770000
3 gland plates - positioned down, left and right (B, C & D)		1194780000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1194790000

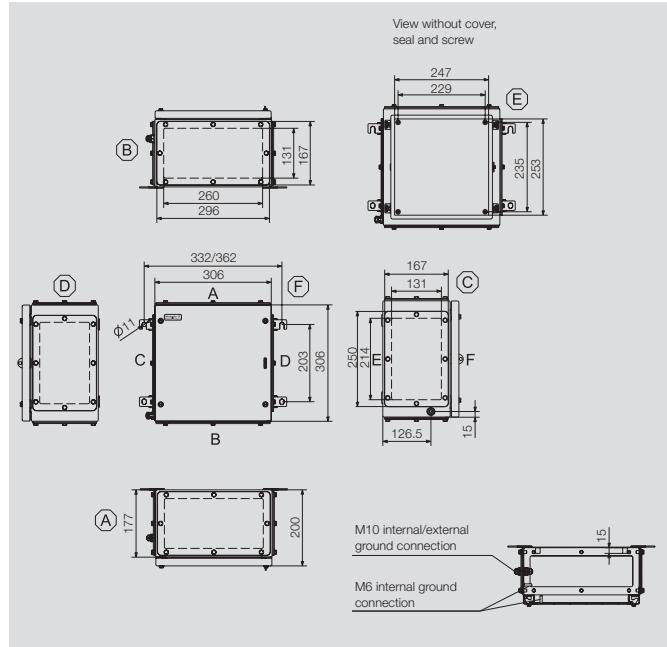
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193960000
Stainless steel, 1.4301	1193830000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x44	2x43
4 mm <sup>2</sup>	2x37	2x36
6 mm <sup>2</sup>	2x28	2x27
10 mm <sup>2</sup>	1x22	1x22
16 mm <sup>2</sup>	1x19	1x18
35 mm <sup>2</sup>	1x14	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

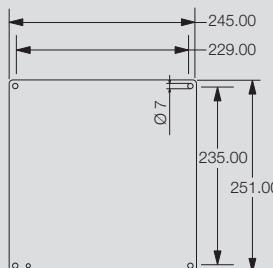
## Number of cable entries

Number of cable entries	A / B	C / D
M12	40	33
M16	26	22
M20	17	14
M25	14	12
M32	8	6
M40	6	5
M50	3	2
M63	2	2
M75	2	1

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 352615

Depth 150 mm



Height/Width/Depth 350 / 260 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1194810000
2 gland plates - positioned up and down (A & B)	1194820000
3 gland plates - positioned down, left and right (B, C & D)	1194830000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1194840000

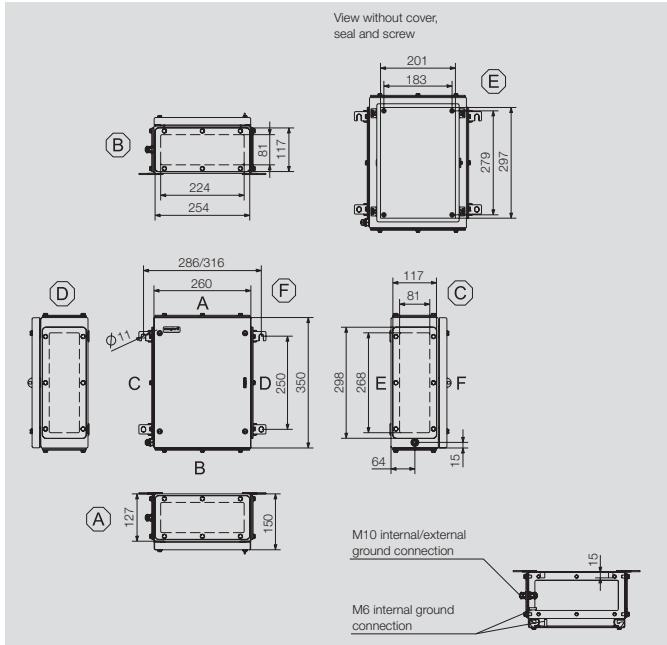
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193970000
Stainless steel, 1.4301	1193840000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x53	2x34
4 mm <sup>2</sup>	1x44	2x29
6 mm <sup>2</sup>	1x33	2x22
10 mm <sup>2</sup>	1x27	2x17
16 mm <sup>2</sup>	1x22	1x14
35 mm <sup>2</sup>		1x11

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

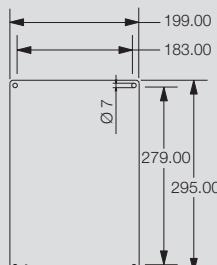
## Number of cable entries

Number of cable entries	A / B	C / D
M12	20	23
M16	11	13
M20	9	11
M25	4	5
M32	3	4
M40	3	3
M50	2	3
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH 352620

Depth 200 mm



Height/Width/Depth

350 / 260 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1194860000
2 gland plates - positioned up and down (A & B)		1194870000
3 gland plates - positioned down, left and right (B, C & D)		1194880000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1194890000

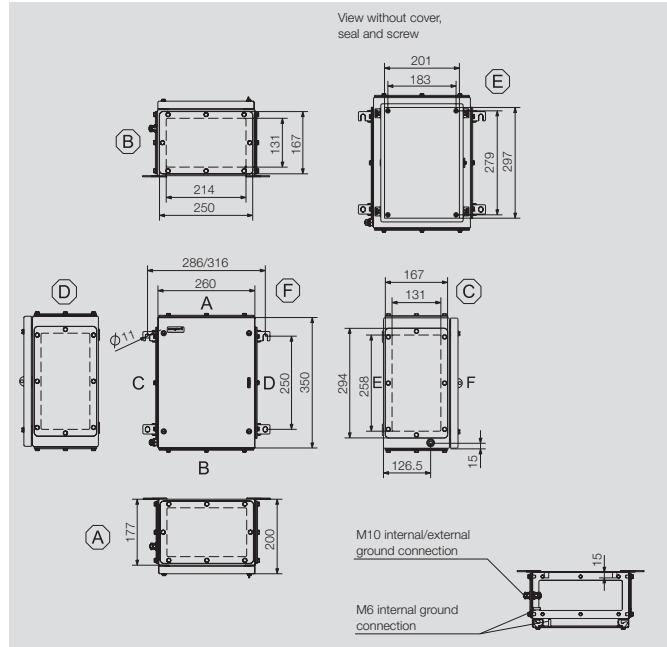
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193970000
Stainless steel, 1.4301	1193840000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x53	2x34
4 mm <sup>2</sup>	1x44	2x29
6 mm <sup>2</sup>	1x33	2x22
10 mm <sup>2</sup>	1x27	2x17
16 mm <sup>2</sup>	1x22	1x14
35 mm <sup>2</sup>		1x11



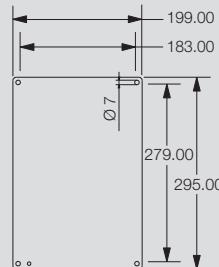
**Note** \*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	33	38
M16	22	26
M20	14	17
M25	12	14
M32	6	7
M40	5	6
M50	2	3
M63	2	2
M75	1	2

**Note** Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 403015

Depth 150 mm



Height/Width/Depth 400 / 300 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1194910000
2 gland plates - positioned up and down (A & B)	1194920000
3 gland plates - positioned down, left and right (B, C & D)	1194930000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1194940000

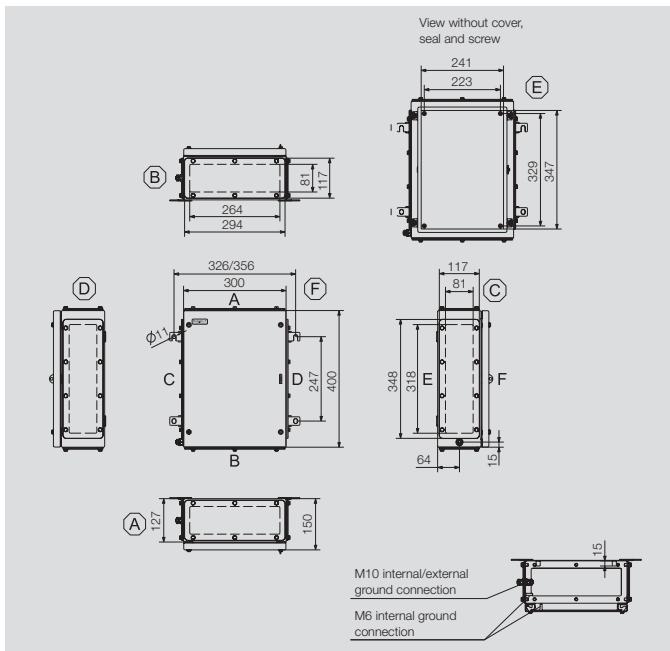
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193980000
Stainless steel, 1.4301	1193850000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x62	3x42
4 mm <sup>2</sup>	2x52	3x35
6 mm <sup>2</sup>	1x39	2x26
10 mm <sup>2</sup>	1x32	2x21
16 mm <sup>2</sup>	1x26	2x18
35 mm <sup>2</sup>	1x20	1x13



## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

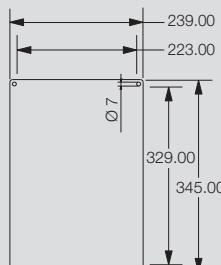
## Number of cable entries

Number of cable entries	A / B	C / D
M12	23	29
M16	13	16
M20	11	13
M25	5	6
M32	4	5
M40	3	4
M50	3	3
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH 403020

Depth 200 mm



Height/Width/Depth

400 / 300 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1194960000
2 gland plates - positioned up and down (A & B)		1194970000
3 gland plates - positioned down, left and right (B, C & D)		1194980000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1194990000

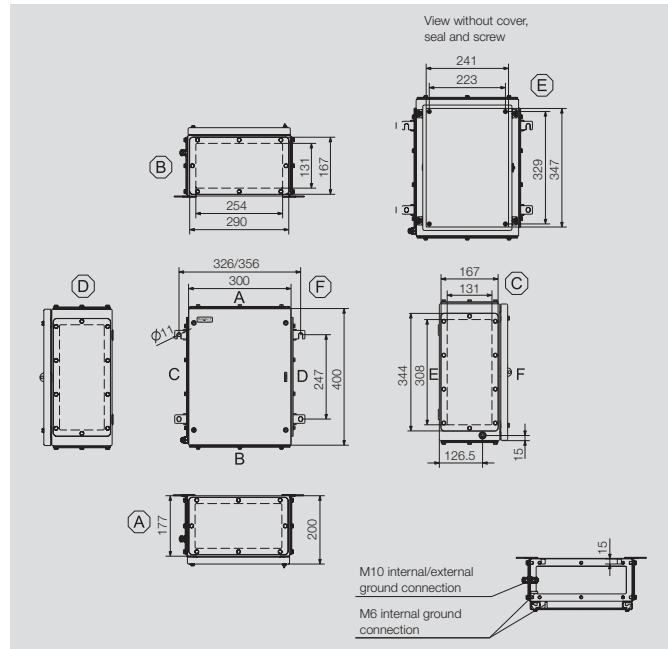
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193980000
Stainless steel, 1.4301	1193850000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x62	3x42
4 mm <sup>2</sup>	2x52	3x35
6 mm <sup>2</sup>	1x39	2x26
10 mm <sup>2</sup>	1x32	2x21
16 mm <sup>2</sup>	1x26	2x18
35 mm <sup>2</sup>	1x20	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

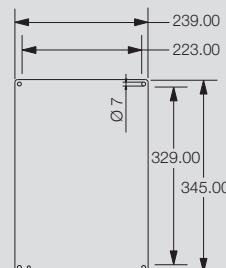
## Number of cable entries

Number of cable entries	A / B	C / D
M12	38	48
M16	26	32
M20	17	20
M25	14	17
M32	7	9
M40	6	7
M50	3	3
M63	2	3
M75	2	2

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 453815

Depth 150 mm



Height/Width/Depth 458 / 382 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1195010000
2 gland plates - positioned up and down (A & B)	1195020000
3 gland plates - positioned down, left and right (B, C & D)	1195030000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1195040000

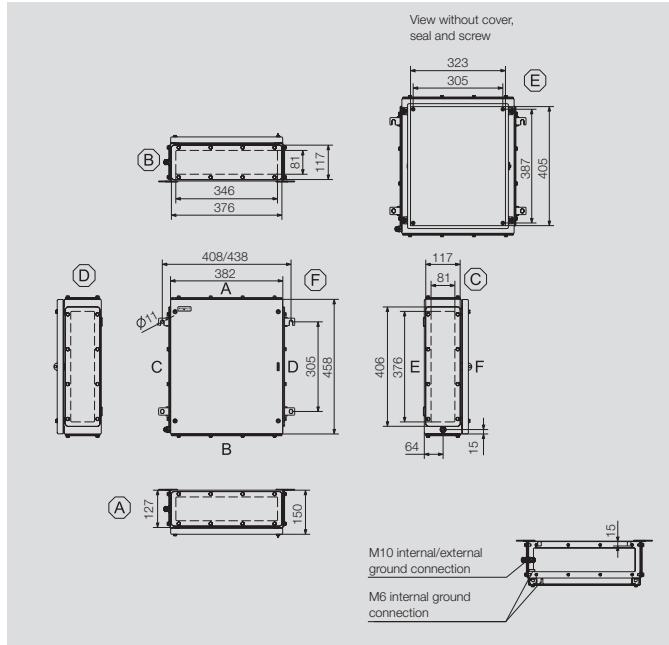
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193990000
Stainless steel, 1.4301	1193860000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x73	4x58
4 mm <sup>2</sup>	2x62	3x48
6 mm <sup>2</sup>	2x46	3x36
10 mm <sup>2</sup>	2x37	2x29
16 mm <sup>2</sup>	2x31	2x24
35 mm <sup>2</sup>	1x23	1x18

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

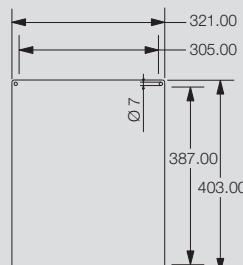
## Number of cable entries

Number of cable entries	A / B	C / D
M12	30	33
M16	17	19
M20	15	16
M25	6	7
M32	5	6
M40	4	5
M50	4	4
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH 453820

Depth 200 mm



Height/Width/Depth

458 / 382 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195060000
2 gland plates - positioned up and down (A & B)		1195070000
3 gland plates - positioned down, left and right (B, C & D)		1195080000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195090000

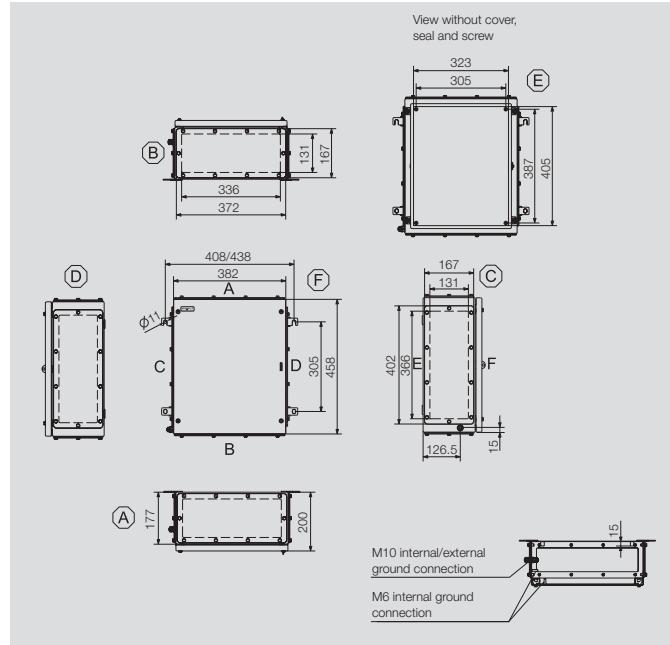
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193990000
Stainless steel, 1.4301	1193860000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x73	4x58
4 mm <sup>2</sup>	2x62	3x48
6 mm <sup>2</sup>	2x46	3x36
10 mm <sup>2</sup>	2x37	2x29
16 mm <sup>2</sup>	2x31	2x24
35 mm <sup>2</sup>	1x23	1x18

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

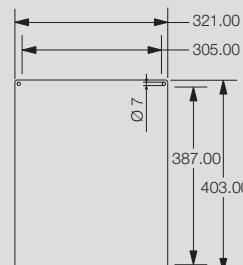
## Number of cable entries

Number of cable entries	A / B	C / D
M12	50	55
M16	34	38
M20	23	24
M25	18	21
M32	10	11
M40	8	9
M50	4	4
M63	3	3
M75	2	3

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 484815

Depth 150 mm



Height/Width/Depth 480 / 480 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195110000
2 gland plates - positioned up and down (A & B)		1195120000
3 gland plates - positioned down, left and right (B, C & D)		1195130000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195140000

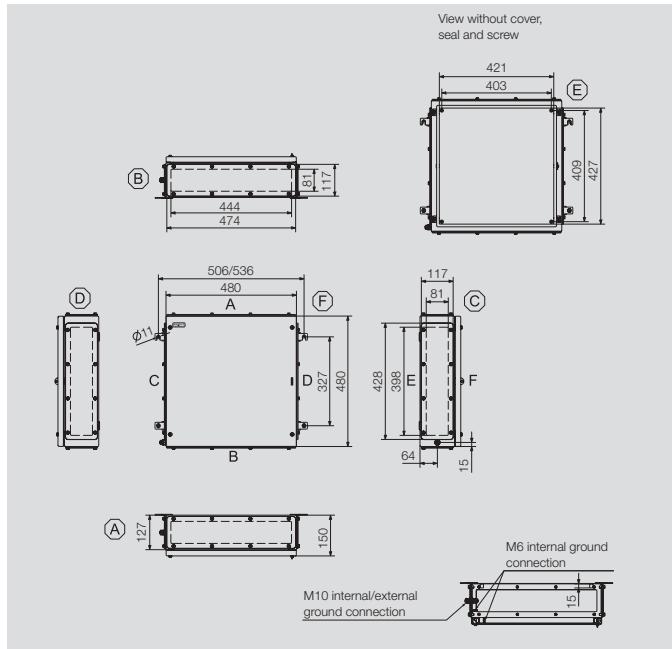
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194000000
Stainless steel, 1.4301	1193870000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x78	4x77
4 mm <sup>2</sup>	3x65	3x64
6 mm <sup>2</sup>	3x49	3x48
10 mm <sup>2</sup>	2x39	3x39
16 mm <sup>2</sup>	2x33	2x32
35 mm <sup>2</sup>	1x25	2x24

## Note

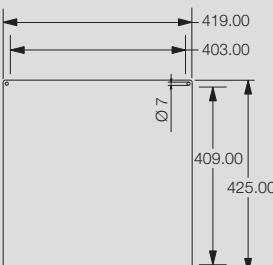
\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	39	36
M16	22	20
M20	19	17
M25	8	7
M32	7	6
M40	6	5
M50	5	4
M63	0	0
M75	0	0

**Note** Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH 484820

Depth 200 mm



Height/Width/Depth

480 / 480 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195160000
2 gland plates - positioned up and down (A & B)		1195170000
3 gland plates - positioned down, left and right (B, C & D)		1195180000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195190000

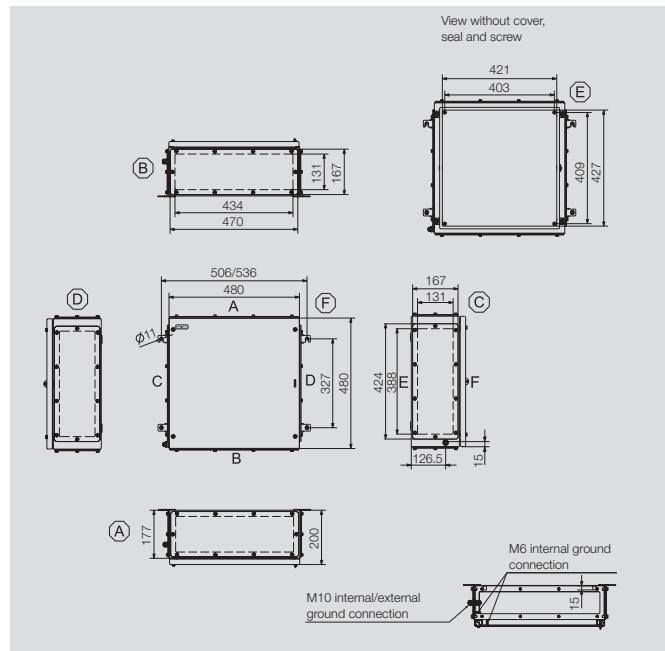
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194000000
Stainless steel, 1.4301	1193870000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x78	4x77
4 mm <sup>2</sup>	3x65	3x64
6 mm <sup>2</sup>	3x49	3x48
10 mm <sup>2</sup>	2x39	3x39
16 mm <sup>2</sup>	2x33	2x32
35 mm <sup>2</sup>	1x25	2x24

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

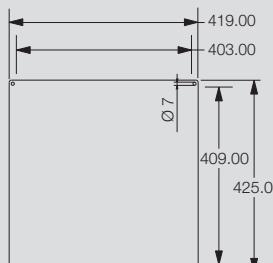
## Number of cable entries

Number of cable entries	A / B	C / D
M12	65	60
M16	44	40
M20	29	26
M25	24	21
M32	13	12
M40	11	10
M50	5	4
M63	4	4
M75	3	3

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 553515

Depth 150 mm



Height/Width/Depth 550 / 350 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1195210000
2 gland plates - positioned up and down (A & B)	1195220000
3 gland plates - positioned down, left and right (B, C & D)	1195230000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1195240000

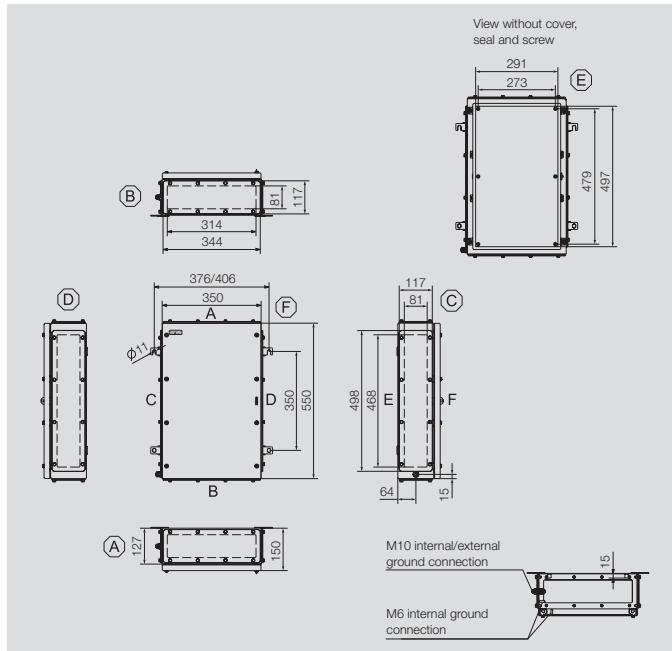
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194010000
Stainless steel, 1.4301	1193880000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x91	4x52
4 mm <sup>2</sup>	2x76	4x43
6 mm <sup>2</sup>	2x58	4x32
10 mm <sup>2</sup>	2x46	3x26
16 mm <sup>2</sup>	1x39	3x22
35 mm <sup>2</sup>	1x29	2x16

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

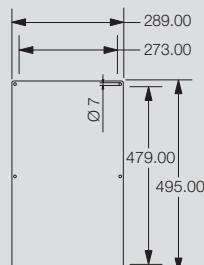
## Number of cable entries

Number of cable entries	A / B	C / D
M12	27	42
M16	15	24
M20	13	20
M25	6	9
M32	5	7
M40	4	6
M50	3	5
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH 553520

Depth 200 mm



Height/Width/Depth

550 / 350 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195260000
2 gland plates - positioned up and down (A & B)		1195270000
3 gland plates - positioned down, left and right (B, C & D)		1195280000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195290000

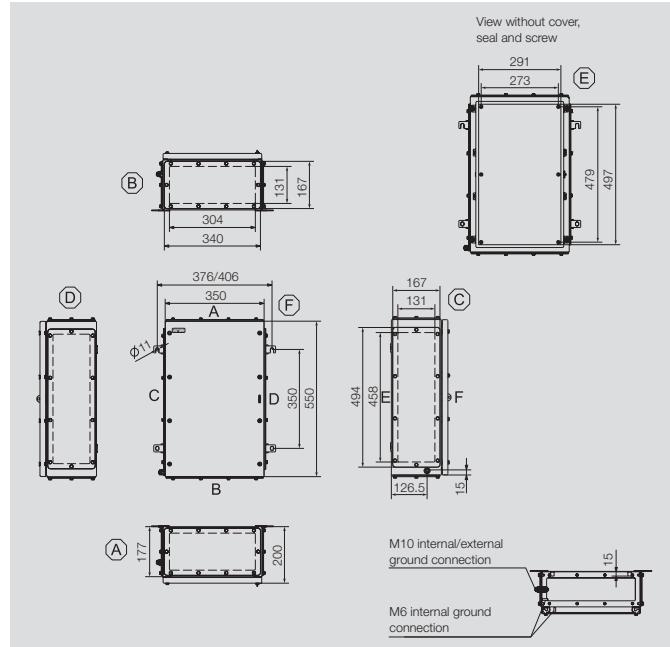
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194010000
Stainless steel, 1.4301	1193880000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	2x91	4x52
4 mm²	2x76	4x43
6 mm²	2x58	4x32
10 mm²	2x46	3x26
16 mm²	1x39	3x22
35 mm²	1x29	2x16

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

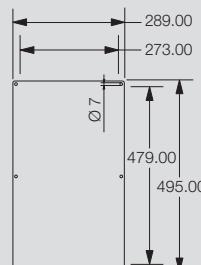
## Number of cable entries

Number of cable entries	A / B	C / D
M12	45	70
M16	30	48
M20	20	30
M25	17	26
M32	9	14
M40	7	12
M50	3	5
M63	3	4
M75	2	3

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 624515

Depth 150 mm



Height/Width/Depth 620 / 450 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1195310000
2 gland plates - positioned up and down (A & B)	1195320000
3 gland plates - positioned down, left and right (B, C & D)	1195330000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1195340000

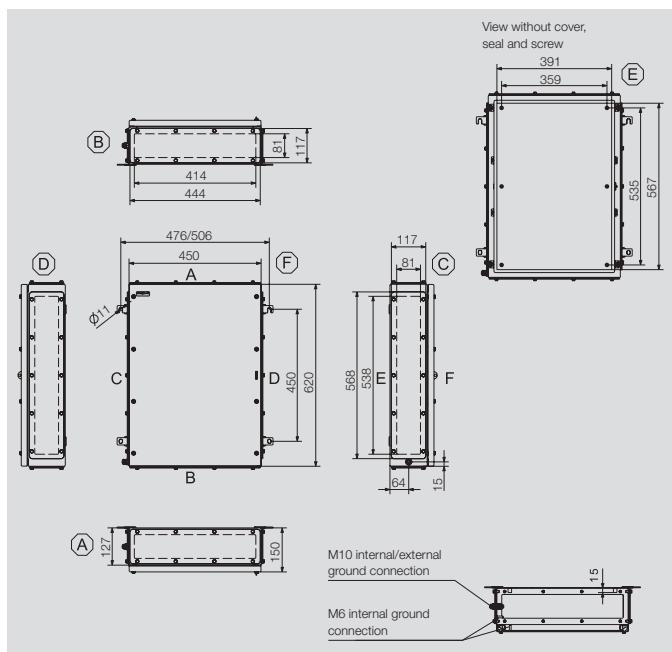
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194020000
Stainless steel, 1.4301	1193890000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x105	5x71
4 mm <sup>2</sup>	3x88	5x59
6 mm <sup>2</sup>	3x66	4x45
10 mm <sup>2</sup>	2x53	4x36
16 mm <sup>2</sup>	2x44	3x30
35 mm <sup>2</sup>	1x33	2x22

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

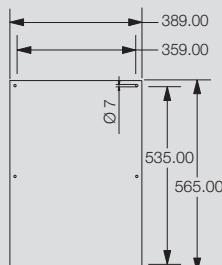
## Number of cable entries

Number of cable entries	A / B	C / D
M12	38	48
M16	21	27
M20	18	24
M25	8	10
M32	6	9
M40	5	7
M50	4	6
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH 624520

Depth 200 mm



Height/Width/Depth

620 / 450 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195360000
2 gland plates - positioned up and down (A & B)		1195370000
3 gland plates - positioned down, left and right (B, C & D)		1195380000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195390000

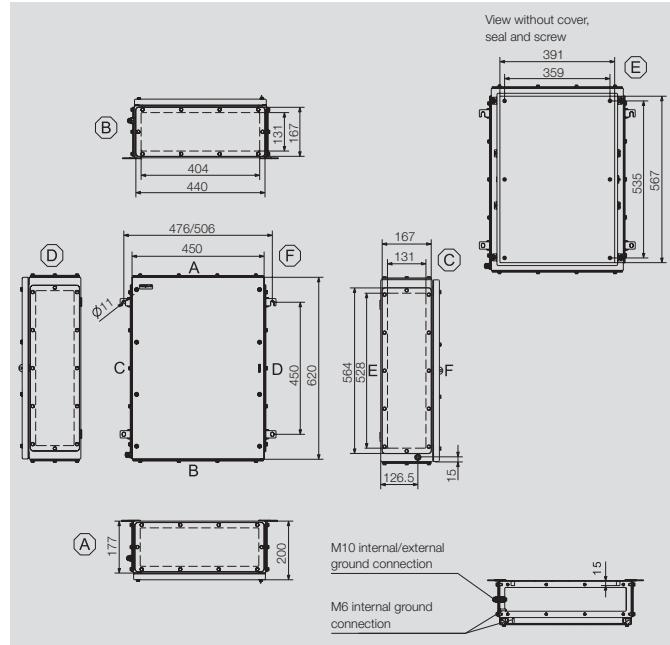
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194020000
Stainless steel, 1.4301	1193890000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	3x105	5x71
4 mm²	3x88	5x59
6 mm²	3x66	4x45
10 mm²	2x53	4x36
16 mm²	2x44	3x30
35 mm²	1x33	2x22

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

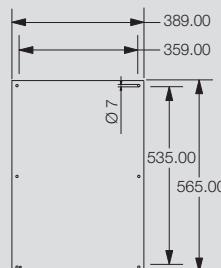
## Number of cable entries

Number of cable entries	A / B	C / D
M12	63	80
M16	42	54
M20	27	36
M25	23	30
M32	12	17
M40	10	14
M50	4	6
M63	4	5
M75	3	4

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

## Klippon® TB MH 765015

Depth 150 mm



Height/Width/Depth 762 / 508 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1195410000
2 gland plates - positioned up and down (A & B)	1195420000
3 gland plates - positioned down, left and right (B, C & D)	1195430000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1195440000

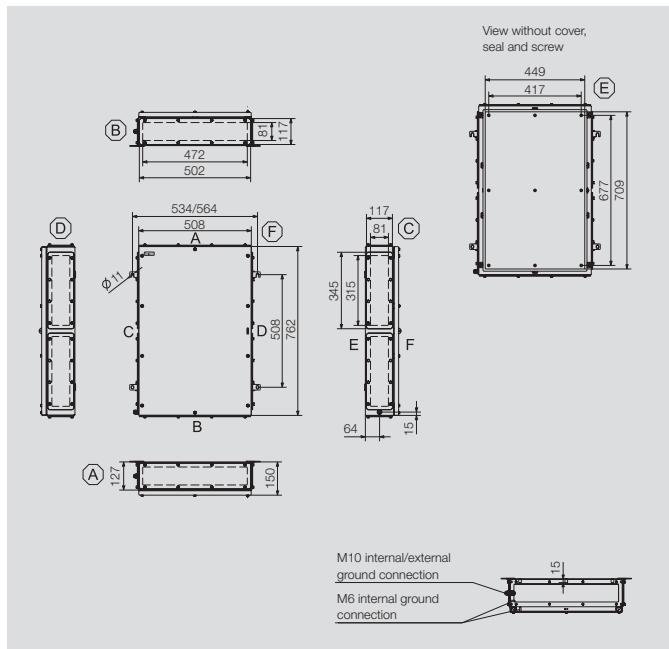
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194030000
Stainless steel, 1.4301	1193900000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x132	7x82
4 mm <sup>2</sup>	4x111	6x69
6 mm <sup>2</sup>	3x83	5x52
10 mm <sup>2</sup>	3x67	5x42
16 mm <sup>2</sup>	2x56	4x35
35 mm <sup>2</sup>	2x42	3x26

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

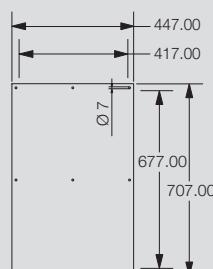
## Number of cable entries

Number of cable entries	A / B	C / D
M12	42	58
M16	24	32
M20	21	26
M25	9	12
M32	7	10
M40	6	8
M50	5	6
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH 765020

Depth 200 mm



Height/Width/Depth

762 / 508 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195460000
2 gland plates - positioned up and down (A & B)		1195470000
3 gland plates - positioned down, left and right (B, C & D)		1195480000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195490000

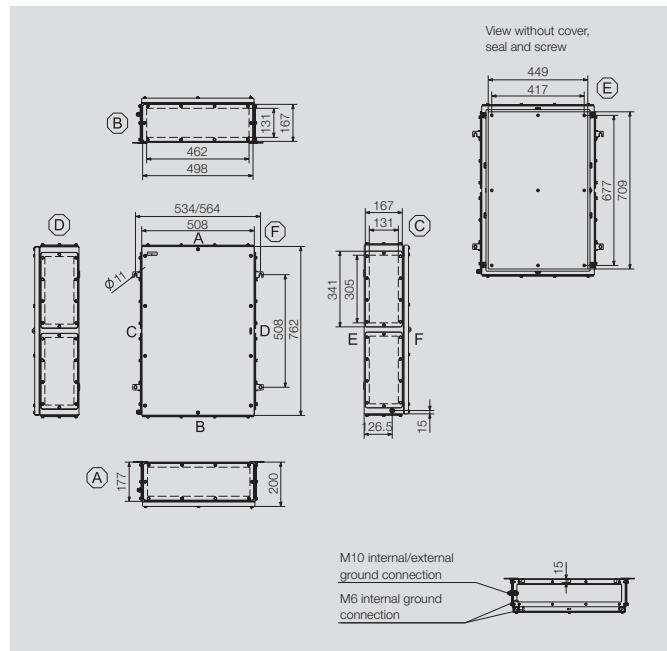
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194030000
Stainless steel, 1.4301	1193900000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	4x132	7x82
4 mm²	4x111	6x69
6 mm²	3x83	5x52
10 mm²	3x67	5x42
16 mm²	2x56	4x35
35 mm²	2x42	3x26

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

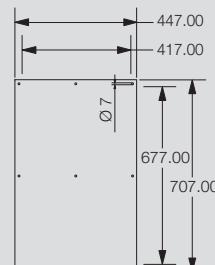
## Number of cable entries

Number of cable entries	A / B	C / D
M12	70	96
M16	48	64
M20	32	40
M25	26	34
M32	14	18
M40	12	14
M50	5	6
M63	4	6
M75	3	4

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

Klippon® TB MH 916115

Depth 150 mm



Height/Width/Depth 914 / 610 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195510000
2 gland plates - positioned up and down (A & B)		1195520000
3 gland plates - positioned down, left and right (B, C & D)		1195530000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195540000

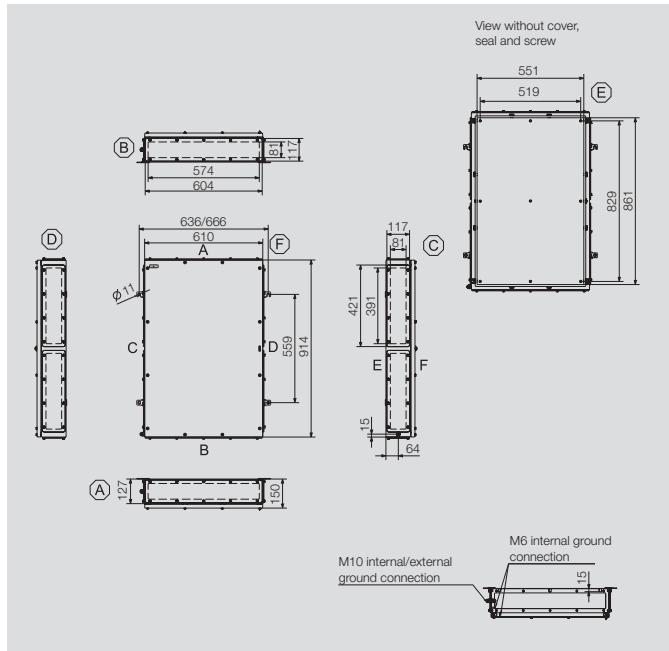
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194040000
Stainless steel, 1.4301	1193910000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	5x161	8x102
4 mm <sup>2</sup>	4x135	7x85
6 mm <sup>2</sup>	4x102	7x64
10 mm <sup>2</sup>	3x82	6x52
16 mm <sup>2</sup>	3x68	5x43
35 mm <sup>2</sup>	2x51	4x32



## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

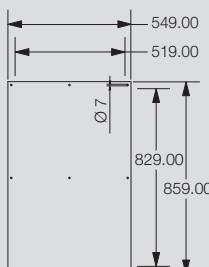
## Number of cable entries

Number of cable entries	A / B	C / D
M12	53	70
M16	29	40
M20	25	34
M25	11	14
M32	9	12
M40	8	10
M50	6	8
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB MH 916120

Depth 200 mm



Height/Width/Depth

914 / 610 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - positioned down (B)		1195560000
2 gland plates - positioned up and down (A & B)		1195570000
3 gland plates - positioned down, left and right (B, C & D)		1195580000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1195590000

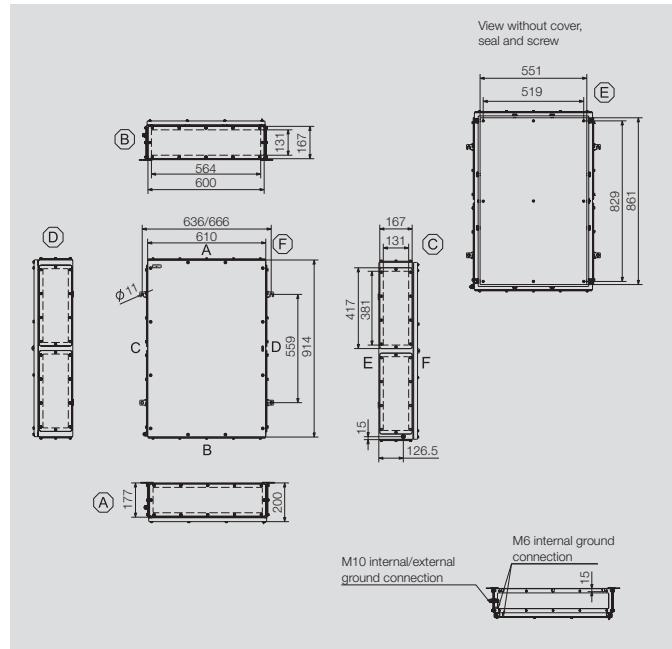
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194040000
Stainless steel, 1.4301	1193910000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
<b>Padlock with two keys</b>	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	5x161	8x102
4 mm <sup>2</sup>	4x135	7x85
6 mm <sup>2</sup>	4x102	7x64
10 mm <sup>2</sup>	3x82	6x52
16 mm <sup>2</sup>	3x68	5x43
35 mm <sup>2</sup>	2x51	4x32

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

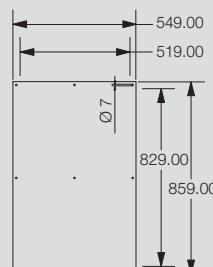
## Number of cable entries

Number of cable entries	A / B	C / D
M12	88	116
M16	58	80
M20	38	52
M25	33	42
M32	18	24
M40	15	20
M50	6	8
M63	5	6
M75	4	6

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB MH - Multi Hinge

Klippon® TB MH 987420

Depth 200 mm



Height/Width/Depth 980 / 740 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - positioned down (B)	1195610000
2 gland plates - positioned up and down (A & B)	1195620000
3 gland plates - positioned down, left and right (B, C & D)	1195630000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1195640000

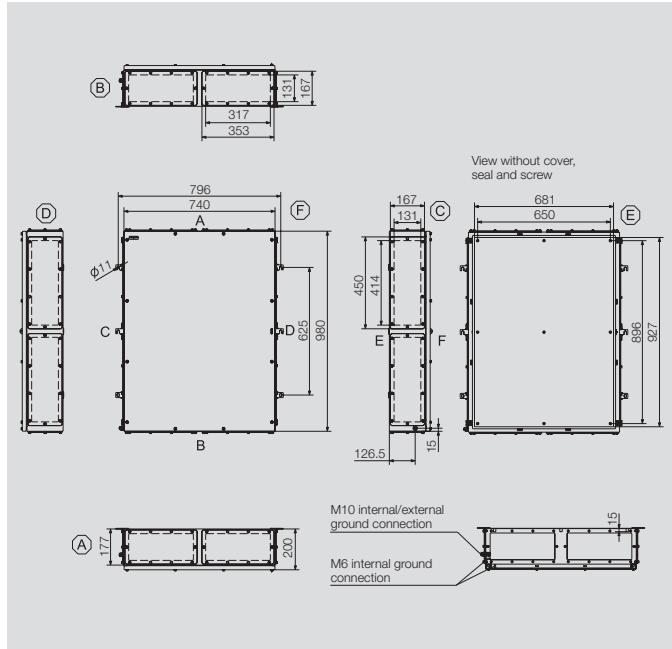
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194050000
Stainless steel, 1.4301	1193920000
Stainless steel-Spacer M6 x 8, set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Padlock with two keys	
Stainless steel, 1.4301	0905680000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	6x174	9x127
4 mm <sup>2</sup>	6x146	8x106
6 mm <sup>2</sup>	5x110	7x80
10 mm <sup>2</sup>	4x88	6x64
16 mm <sup>2</sup>	4x74	5x54
35 mm <sup>2</sup>	3x55	4x40

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

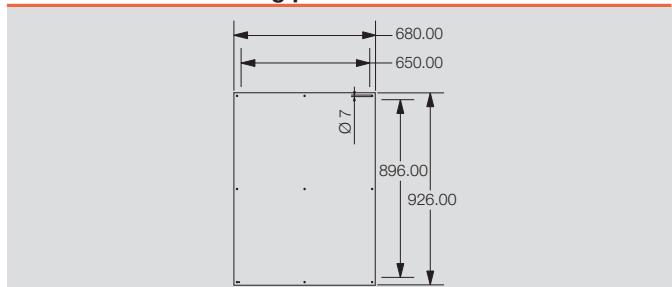
## Number of cable entries

Number of cable entries	A / B	C / D
M12	96	126
M16	64	84
M20	42	54
M25	36	48
M32	20	26
M40	16	22
M50	6	10
M63	6	8
M75	4	6

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate





# Klippon® TB QL - Quarter Lock

## **Stainless steel enclosures**

for use in industrial and in explosive hazard areas

**B**

The Klippon® TB enclosure series features excellent performance characteristics, even under the most difficult environmental conditions, and comply with the stricter requirements of explosive hazard areas found in the process or power generation industries. The new Klippon® TB QL enclosure series offers further improvements to a product line that is already successfully leading the market.

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Length x width x depth in mm	1 Gland Plate (below)	2 Gland Plates (above + below)	3 Gland Plates (below + sides)	4 Gland Plates (all sides)
KTB QL 221513 S4E_*	229 x 152 x 133	1199860000	1199870000	1199880000	1199890000
KTB QL 262615 S4E_*	260 x 260 x 150	1199910000	1199920000	1199930000	1199940000
KTB QL 262620 S4E_*	260 x 260 x 200	1199960000	1199970000	1199980000	1199990000
KTB QL 303015 S4E_*	306 x 306 x 150	1200020000	1200030000	1200040000	1200050000
KTB QL 303020 S4E_*	306 x 306 x 200	1200070000	1200080000	1200090000	1200100000
KTB QL 352615 S4E_*	350 x 260 x 150	1200120000	1200130000	1200140000	1200150000
KTB QL 352620 S4E_*	350 x 260 x 200	1200170000	1200180000	1200190000	1200210000
KTB QL 403015 S4E_*	400 x 300 x 150	1200230000	1200240000	1200250000	1200260000
KTB QL 403020 S4E_*	400 x 300 x 200	1200280000	1200290000	1200310000	1200320000
KTB QL 453815 S4E_*	458 x 382 x 150	1200340000	1200350000	1200360000	1200370000
KTB QL 453820 S4E_*	458 x 382 x 200	1200390000	1200410000	1200420000	1200430000
KTB QL 484815 S4E_*	480 x 480 x 150	1200450000	1200460000	1200470000	1200480000
KTB QL 484820 S4E_*	480 x 480 x 200	1200510000	1200520000	1200530000	1200540000
KTB QL 553515 S4E_*	550 x 350 x 150	1200560000	1200570000	1200580000	1200590000
KTB QL 553520 S4E_*	550 x 350 x 200	1200620000	1200630000	1200640000	1200650000
KTB QL 624515 S4E_*	620 x 450 x 150	1200670000	1200680000	1200690000	1200710000
KTB QL 624520 S4E_*	620 x 450 x 200	1200730000	1200740000	1200750000	1200760000
KTB QL 765015 S4E_*	762 x 508 x 150	1200780000	1200790000	1200810000	1200820000
KTB QL 765020 S4E_*	762 x 508 x 200	1200840000	1200850000	1200860000	1200870000
KTB QL 916115 S4E_*	914 x 610 x 150	1200890000	1200910000	1200920000	1200930000
KTB QL 916120 S4E_*	914 x 610 x 200	1200950000	1200960000	1200970000	1200980000
KTB QL 987420 S4E_*	980 x 740 x 200	1201010000	1201020000	1201030000	1201040000

Note

\* Placeholder for the number of gland plates (1, 2, 3, 4). Klippon® TB QL enclosures are available without gland plates on request.

## Technical Overview

### Features

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Quick-locking lid, comes with a slot as standard
- Improved temperature performance
- IP66 protection class
- Earth studs in enclosure cover and bottom section
- Welded mounting feet

### Note

## Technical data

Enclosure material**	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	electropolished
IP protection class	IP66
NEMA protection classes	3, 4x, 12
Gland plates	1 - 4 (fixed with M6 hexagon head screws with a slot and 10 mm heads), optionally without a gland plate.
Gland plate thickness	3 mm (other thickness of up to 20 mm are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 6 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rails
Enclosure attachment	4 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	can be removed completely, lid opening angle 130 °
Cover attachment	Quarter-turn lock with slotted insert (other inserts available on request)
Impact resistance	7 J ATEX applications, 10 J industrial applications
Gasket material	Silicone
Operating temperature range	-60 °C...+135 °C
Lid screws, torque*	2.5 Nm
<b>Note</b>	
* To secure the lid, please use our hexagonal socket wrench with a 10 mm socket (9009070000)	
** Painted steel enclosures are available on request.	

## Approvals for empty enclosures

ATEX certificate	KEMA 10ATEX0047 U
ATEX marking	II 2 G Ex e IIC Gb
	II 2 D Ex tb IIIC Db IP66
IECEx certificate	IECEx KEM 10.0016U
IECEx marking	Ex e IIC Gb
	Ex tb IIIC Db IP66
GOST Ex	POCC DE.ME92.B02036
GOST R	In preparation
cULus	E243298
Germanischer Lloyd	11534 - 10 HH
Russian Maritime Register	10.04095.250
<b>Note</b>	
The Klippon® TB QL enclosure series can be pre-fitted in our customer specific production department according to your wishes; as an example, terminals, or other approved components, can be installed as required.	

## Approvals for control and distribution box

ATEX certificate	KEMA 10ATEX0051
ATEX marking	II 2 G Ex eb IIC T6...T4
	II 1 G Ex ia IIC T6...T4
	II 2(1) G Ex eb ia IIC T6...T4
	II 2 D Ex tb IIIC T85 °C...T135 °C IP66
IECEx certificate	IECEx KEM 10.0020
IECEx marking	Ex eb IIC T...
	Ex ia IIC T...
	Ex eb ia IIC T...
	Ex tb IIIC T85 °C...T135 °C IP66
<b>Note</b>	
Labelling depends on the application layout.	



## Klippon® TB QL 221513

Depth 133 mm



Height/Width/Depth

229 / 152 / 133 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1199860000
2 gland plates - positioned up and down (A & B)		1199870000
3 gland plates - positioned down, left and right (B, C & D)		1199880000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1199890000

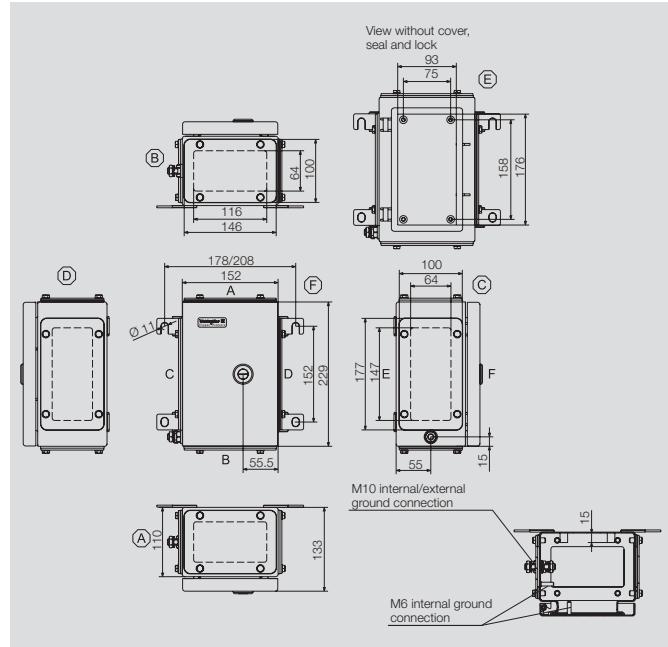
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193930000
Stainless steel, 1.4301	1193810000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	1x29	1x15
4 mm²		1x13
6 mm²		1x9
10 mm²		1x7
16 mm²		1x6
35 mm²		

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

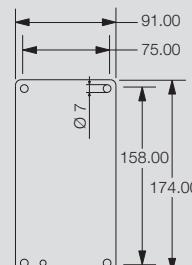
## Number of cable entries

Number of cable entries	A / B	C / D
M12	6	8
M16	5	6
M20	2	3
M25	2	2
M32	1	2
M40	1	2
M50	0	0
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

Klippon® TB QL 262615

Depth 150 mm



Height/Width/Depth 260 / 260 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1199910000
2 gland plates - positioned up and down (A & B)	1199920000
3 gland plates - positioned down, left and right (B, C & D)	1199930000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1199940000

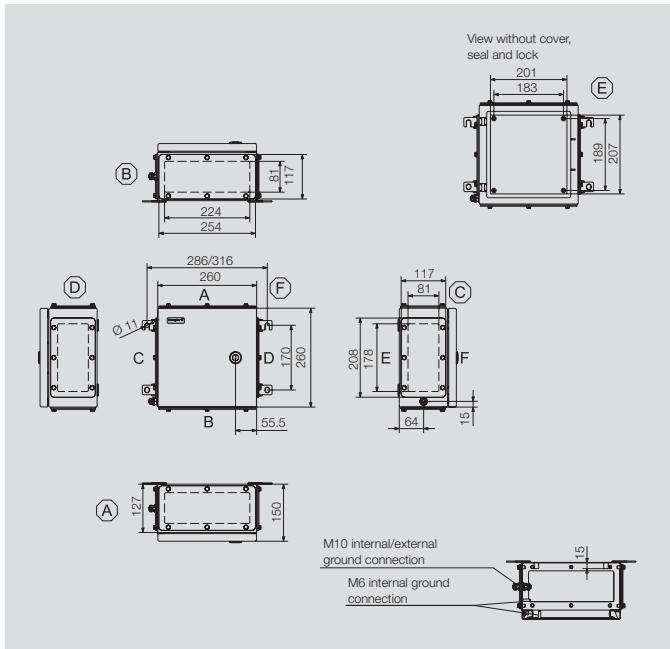
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193950000
Stainless steel, 1.4301	1193820000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x35	2x34
4 mm <sup>2</sup>	1x30	1x29
6 mm <sup>2</sup>	1x22	1x22
10 mm <sup>2</sup>	1x18	1x17
16 mm <sup>2</sup>	1x15	1x14
35 mm <sup>2</sup>		

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

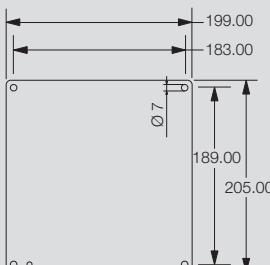
## Number of cable entries

Number of cable entries	A / B	C / D
M12	20	15
M16	11	8
M20	9	7
M25	4	3
M32	3	2
M40	3	2
M50	2	2
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 262620

Depth 200 mm



Height/Width/Depth 260 / 260 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1199960000
2 gland plates - positioned up and down (A & B)		1199970000
3 gland plates - positioned down, left and right (B, C & D)		1199980000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1199990000

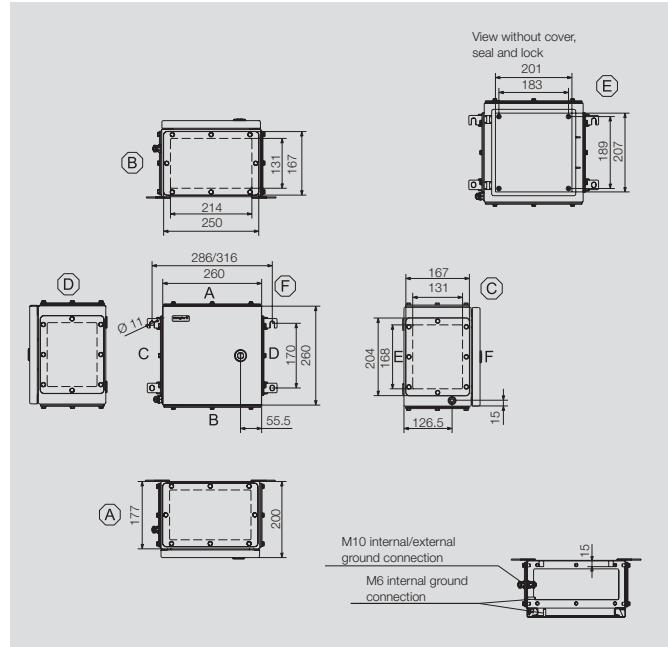
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193950000
Stainless steel, 1.4301	1193820000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x35	2x34
4 mm <sup>2</sup>	1x30	1x29
6 mm <sup>2</sup>	1x22	1x22
10 mm <sup>2</sup>	1x18	1x17
16 mm <sup>2</sup>	1x15	1x14
35 mm <sup>2</sup>		

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

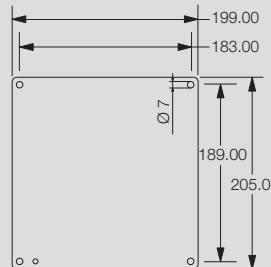
## Number of cable entries

Number of cable entries	A / B	C / D
M12	33	25
M16	22	16
M20	14	11
M25	12	9
M32	6	4
M40	5	4
M50	2	2
M63	2	1
M75	1	1

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 303015

Depth 150 mm



Height/Width/Depth 306 / 306 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200020000
2 gland plates - positioned up and down (A & B)	1200030000
3 gland plates - positioned down, left and right (B, C & D)	1200040000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200050000

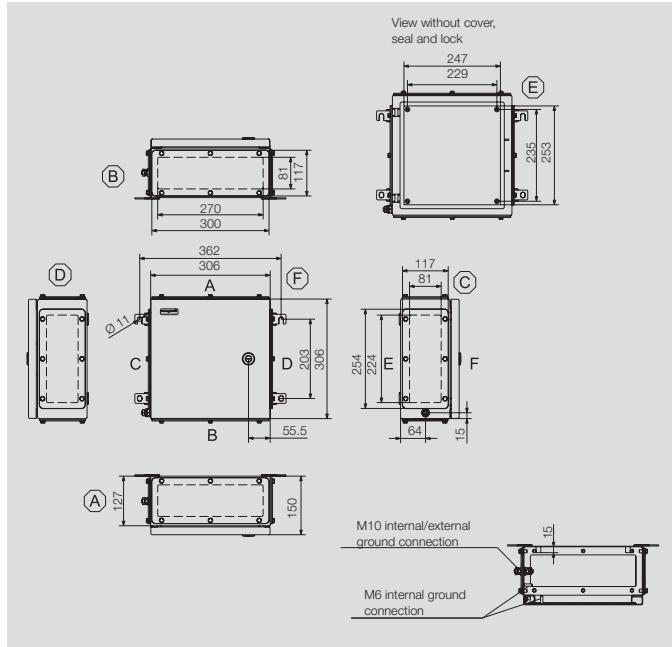
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193960000
Stainless steel, 1.4301	1193830000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x44	2x43
4 mm <sup>2</sup>	2x37	2x36
6 mm <sup>2</sup>	2x28	2x27
10 mm <sup>2</sup>	1x22	1x22
16 mm <sup>2</sup>	1x19	1x18
35 mm <sup>2</sup>	1x14	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

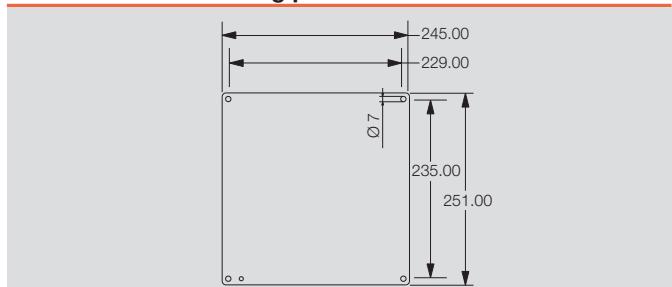
## Number of cable entries

Number of cable entries	A / B	C / D
M12	24	20
M16	13	11
M20	11	9
M25	5	4
M32	4	3
M40	3	3
M50	3	2
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 303020

Depth 200 mm



Height/Width/Depth 306 / 306 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1200070000
2 gland plates - positioned up and down (A & B)		1200080000
3 gland plates - positioned down, left and right (B, C & D)		1200090000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1200100000

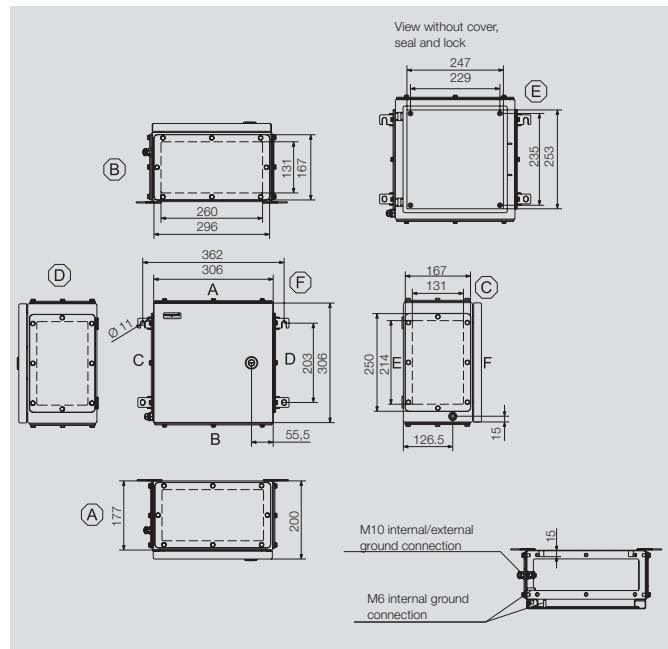
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193960000
Stainless steel, 1.4301	1193830000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	2x44	2x43
4 mm²	2x37	2x36
6 mm²	2x28	2x27
10 mm²	1x22	1x22
16 mm²	1x19	1x18
35 mm²	1x14	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

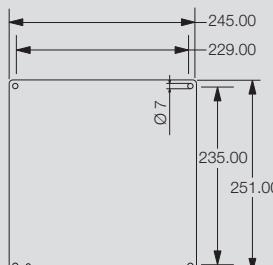
## Number of cable entries

Number of cable entries	A / B	C / D
M12	40	33
M16	26	22
M20	17	14
M25	14	12
M32	8	6
M40	6	5
M50	3	2
M63	2	2
M75	2	1

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 352615

Depth 150 mm



Height/Width/Depth 350 / 260 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200120000
2 gland plates - positioned up and down (A & B)	1200130000
3 gland plates - positioned down, left and right (B, C & D)	1200140000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200150000

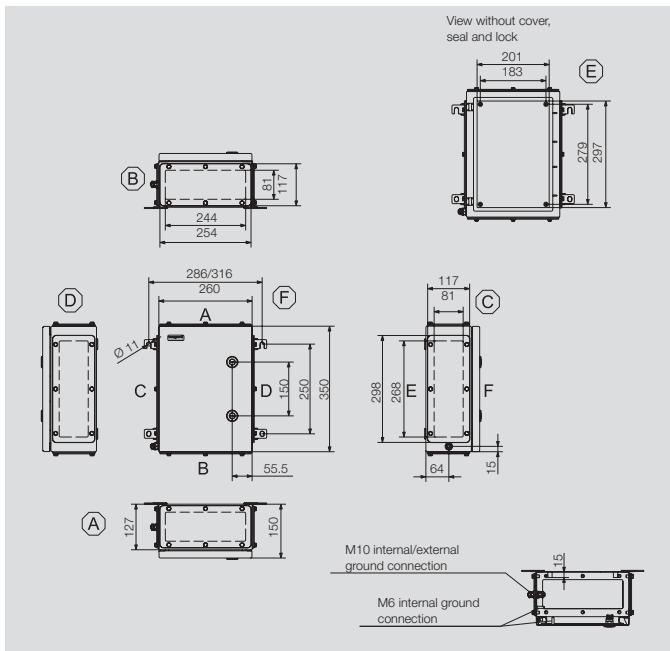
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193970000
Stainless steel, 1.4301	1193840000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x53	2x34
4 mm <sup>2</sup>	1x44	2x29
6 mm <sup>2</sup>	1x33	2x22
10 mm <sup>2</sup>	1x27	2x17
16 mm <sup>2</sup>	1x22	1x14
35 mm <sup>2</sup>		1x11

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

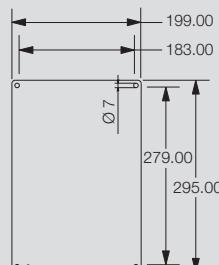
## Number of cable entries

Number of cable entries	A / B	C / D
M12	20	23
M16	11	13
M20	9	11
M25	4	5
M32	3	4
M40	3	3
M50	2	3
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate

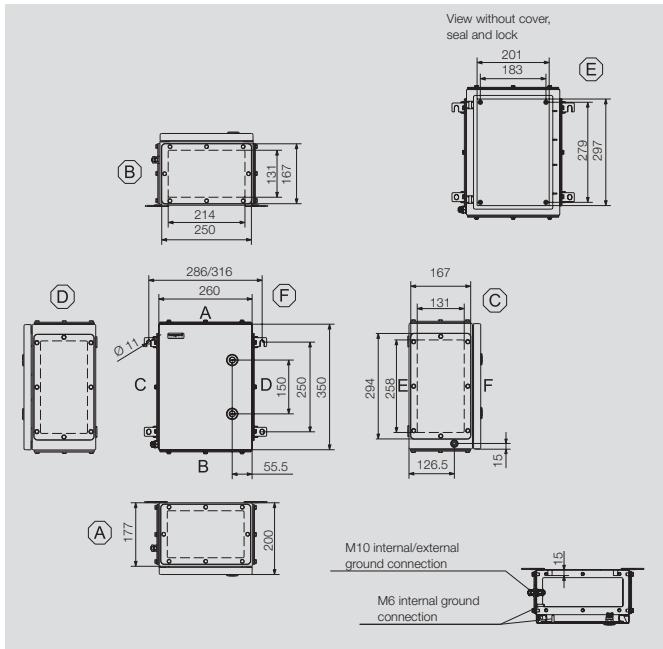




Height/Width/Depth 350 / 260 / 200 mm

## Ordering data

<b>Stainless steel 1.4404 316L, electropolished</b>	<b>Order No.</b>
1 gland plate - bottom	<b>1200170000</b>
2 gland plates - positioned up and down (A & B)	<b>1200180000</b>
3 gland plates - positioned down, left and right (B, C & D)	<b>1200190000</b>
4 gland plates - positioned up, down, left and right (A, B, C & D)	<b>1200210000</b>



### **Max. number of terminals (industry)**

<b>Max. number of terminals (industry)</b>	<b>vertical</b>	<b>horizontal</b>
2.5 mm <sup>2</sup>	2x53	2x34
4 mm <sup>2</sup>	1x44	2x29
6 mm <sup>2</sup>	1x33	2x22
10 mm <sup>2</sup>	1x27	2x17
16 mm <sup>2</sup>	1x22	1x14
35 mm <sup>2</sup>		1x11



## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between

the mounting fe

Assembly with terminal blocks provides for 10 mm clear-  
ing rail.

Recommended order:

TS35 mounting rail (screw terminal) WDU 2.5 1020000000  
ZDU 2.5 1608510000 / (tension clamp terminal) RDU 2.5

ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000

## Accessories

Mounting plate	Order No.
	Steel sheet, galvanised <b>1193970000</b>
	Stainless steel, 1.4301 <b>1193840000</b>
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
	10 mm length <b>0935110000</b>
	15 mm length <b>0935120000</b>
	20 mm length <b>0935130000</b>
	30 mm length <b>0935140000</b>
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length <b>3896100000</b>
	20 mm length <b>3896200000</b>
	30 mm length <b>3896300000</b>



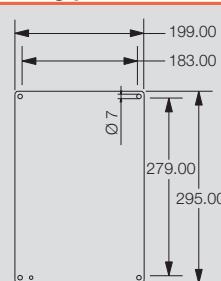
Number of cable entries	A / B	C / D
M12	33	38
M16	22	26
M20	14	17
M25	12	14
M32	6	7
M40	5	6
M50	2	3
M63	2	2
M75	1	2



Note

Our IP68 brass cable glands are used as the reference for these guideline values.

#### **Dimensions of mounting plate**



## Note

System accessories can be found after the Klippon® TB QL product pages.

## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 403015

Depth 150 mm



Height/Width/Depth 400 / 300 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200230000
2 gland plates - positioned up and down (A & B)	1200240000
3 gland plates - positioned down, left and right (B, C & D)	1200250000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200260000

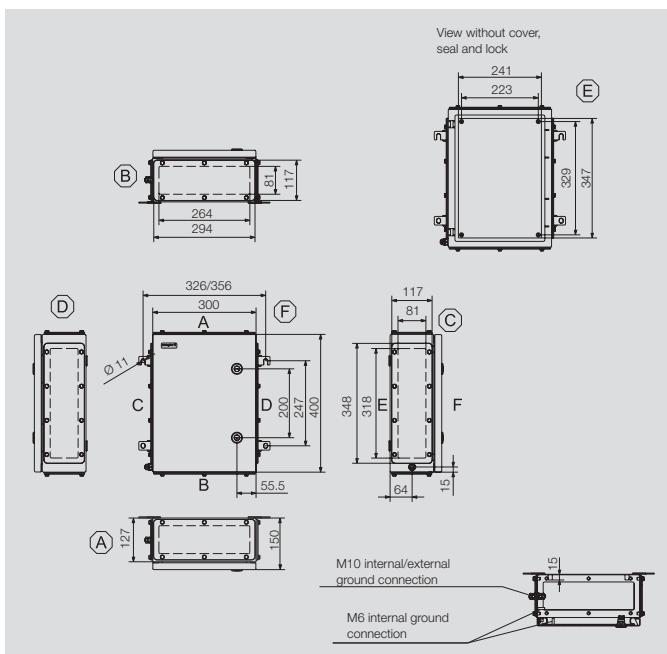
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193980000
Stainless steel, 1.4301	1193850000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x62	3x42
4 mm <sup>2</sup>	2x52	3x35
6 mm <sup>2</sup>	1x39	2x26
10 mm <sup>2</sup>	1x32	2x21
16 mm <sup>2</sup>	1x26	2x18
35 mm <sup>2</sup>	1x20	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

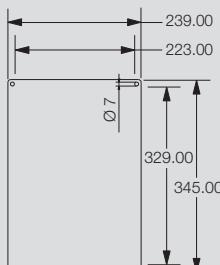
## Number of cable entries

Number of cable entries	A / B	C / D
M12	23	29
M16	13	16
M20	11	13
M25	5	6
M32	4	5
M40	3	4
M50	3	3
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL 403020

Depth 200 mm



Height/Width/Depth

400 / 300 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200280000
2 gland plates - positioned up and down (A & B)	1200290000
3 gland plates - positioned down, left and right (B, C & D)	1200310000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200320000

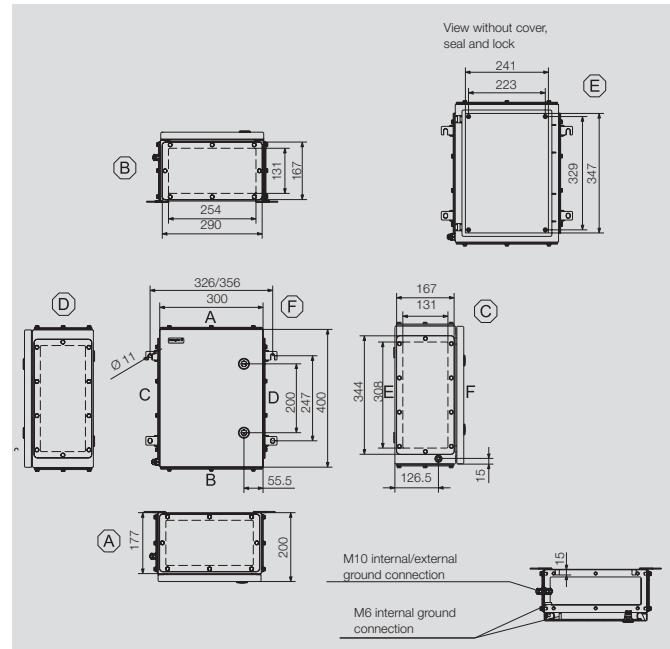
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193980000
Stainless steel, 1.4301	1193850000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x62	3x42
4 mm <sup>2</sup>	2x52	3x35
6 mm <sup>2</sup>	1x39	2x26
10 mm <sup>2</sup>	1x32	2x21
16 mm <sup>2</sup>	1x26	2x18
35 mm <sup>2</sup>	1x20	1x13

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

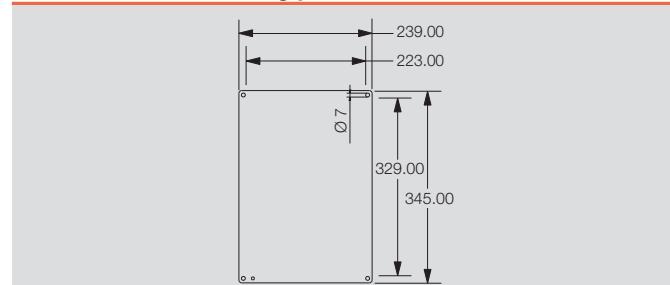
## Number of cable entries

Number of cable entries	A / B	C / D
M12	38	48
M16	26	32
M20	17	20
M25	14	17
M32	7	9
M40	6	7
M50	3	3
M63	2	3
M75	2	2

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 453815

Depth 150 mm



Height/Width/Depth 458 / 382 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200340000
2 gland plates - positioned up and down (A & B)	1200350000
3 gland plates - positioned down, left and right (B, C & D)	1200360000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200370000

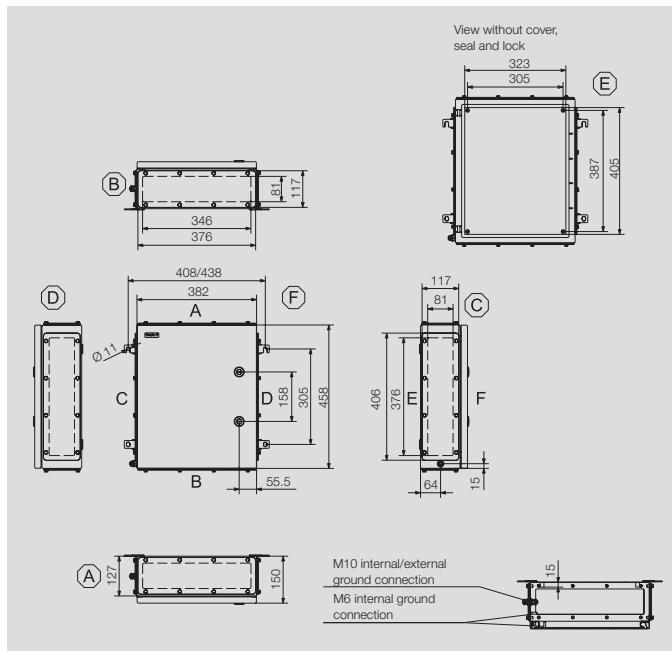
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1193990000
Stainless steel, 1.4301	1193860000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x73	4x58
4 mm <sup>2</sup>	2x62	3x48
6 mm <sup>2</sup>	2x46	3x36
10 mm <sup>2</sup>	2x37	2x29
16 mm <sup>2</sup>	2x31	2x24
35 mm <sup>2</sup>	1x23	1x18

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

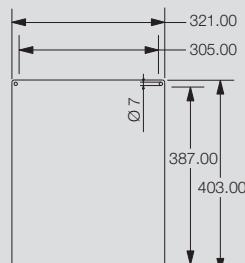
## Number of cable entries

Number of cable entries	A / B	C / D
M12	30	33
M16	17	19
M20	15	16
M25	6	7
M32	5	6
M40	4	5
M50	4	4
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



Klippon® TB QL 453820

**Depth** 200 mm

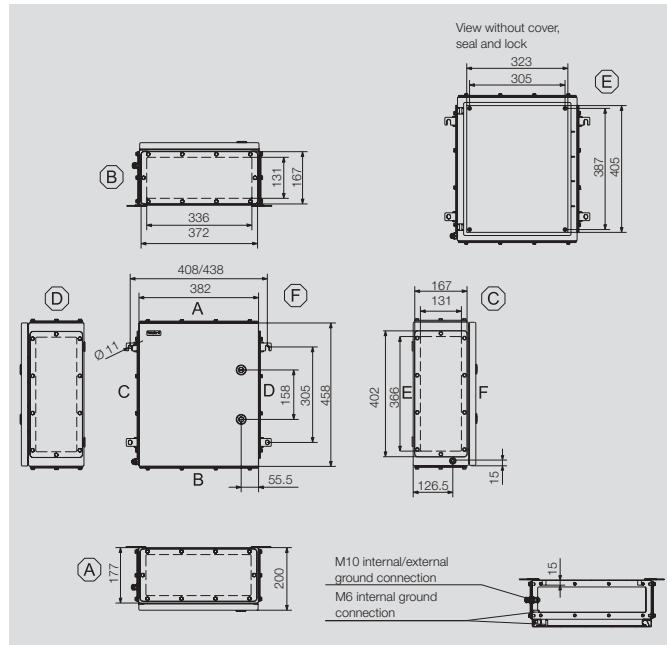


## Ordering data

<b>Stainless steel 1.4404 316L, electropolished</b>	<b>Order No.</b>
1 gland plate - bottom	<b>1200390000</b>
2 gland plates - positioned up and down (A & B)	<b>1200410000</b>
3 gland plates - positioned down, left and right (B, C & D)	<b>1200420000</b>
4 gland plates - positioned up, down, left and right (A, B, C & D)	<b>1200430000</b>

## Accessories

Mounting plate		Order No.
	Steel sheet, galvanised	1193990000
	Stainless steel, 1.4301	1193860000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>		
	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>		
	15 mm length	3896100000
	20 mm length	3896200000
	30 mm length	3896300000



### **Max. number of terminals (industry)**

<b>Max. number of terminals (industry)</b>	<b>vertical</b>	<b>horizontal</b>
2.5 mm <sup>2</sup>	3x73	4x58
4 mm <sup>2</sup>	2x62	3x48
6 mm <sup>2</sup>	2x46	3x36
10 mm <sup>2</sup>	2x37	2x29
16 mm <sup>2</sup>	2x31	2x24
35 mm <sup>2</sup>	1x23	1x18



Note

"For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000

### **Number of cable entries**

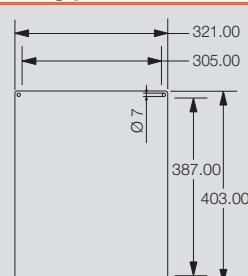
<b>Number of cable entries</b>	<b>A / B</b>	<b>C / D</b>
M12	50	55
M16	34	38
M20	23	24
M25	18	21
M32	10	11
M40	8	9
M50	4	4
M63	3	3
M75	2	2



Note

Our IP68 brass cable glands are used as the reference for these guideline values.

#### **Dimensions of mounting plate**



### Note

System accessories can be found after the Klippon® TB QL product pages.

## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 484815

Depth 150 mm



Height/Width/Depth 480 / 480 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200450000
2 gland plates - positioned up and down (A & B)	1200460000
3 gland plates - positioned down, left and right (B, C & D)	1200470000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200480000

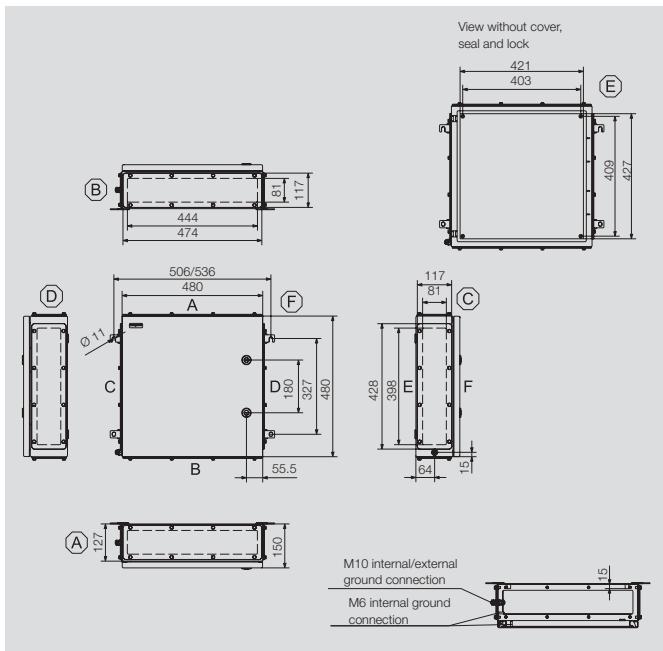
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194000000
Stainless steel, 1.4301	1193870000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x78	4x77
4 mm <sup>2</sup>	3x65	3x64
6 mm <sup>2</sup>	3x49	3x48
10 mm <sup>2</sup>	2x39	3x39
16 mm <sup>2</sup>	2x33	2x32
35 mm <sup>2</sup>	1x25	2x24

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

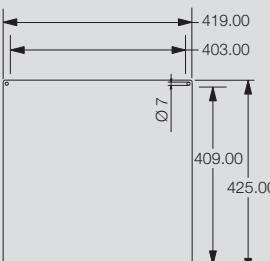
## Number of cable entries

Number of cable entries	A / B	C / D
M12	39	36
M16	22	20
M20	19	17
M25	8	7
M32	7	6
M40	6	5
M50	5	4
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 484820

Depth 200 mm



Height/Width/Depth

480 / 480 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1200510000
2 gland plates - positioned up and down (A & B)		1200520000
3 gland plates - positioned down, left and right (B, C & D)		1200530000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1200540000

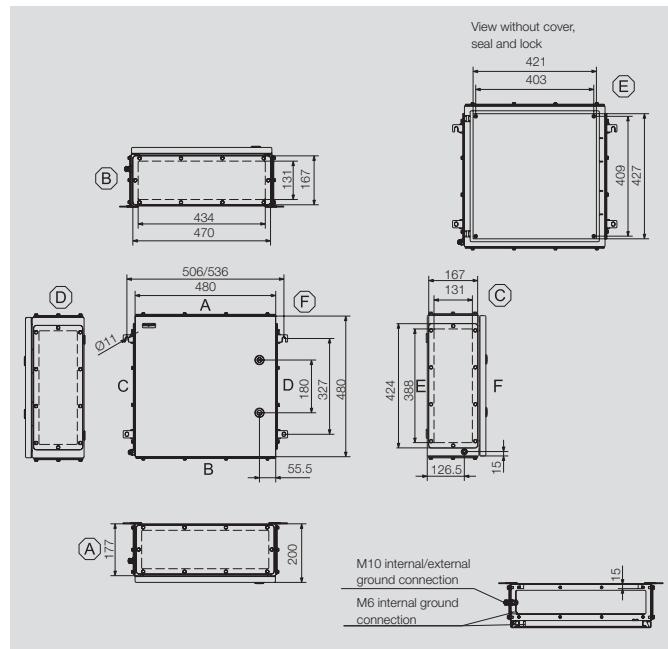
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194000000
Stainless steel, 1.4301	1193870000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x78	4x77
4 mm <sup>2</sup>	3x65	3x64
6 mm <sup>2</sup>	3x49	3x48
10 mm <sup>2</sup>	2x39	3x39
16 mm <sup>2</sup>	2x33	2x32
35 mm <sup>2</sup>	1x25	2x24

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.

Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

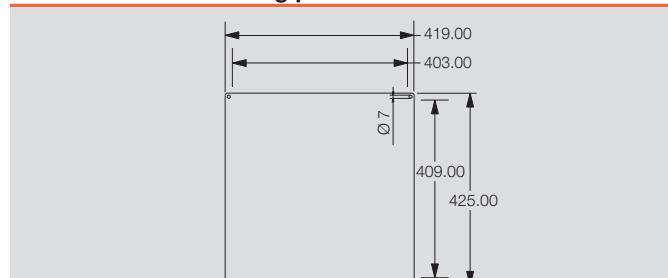
## Number of cable entries

Number of cable entries	A / B	C / D
M12	65	60
M16	44	40
M20	29	26
M25	24	21
M32	13	12
M40	11	10
M50	5	4
M63	4	4
M75	3	3

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 553515

Depth 150 mm



Height/Width/Depth 550 / 350 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1200560000
2 gland plates - positioned up and down (A & B)		1200570000
3 gland plates - positioned down, left and right (B, C & D)		1200580000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1200590000

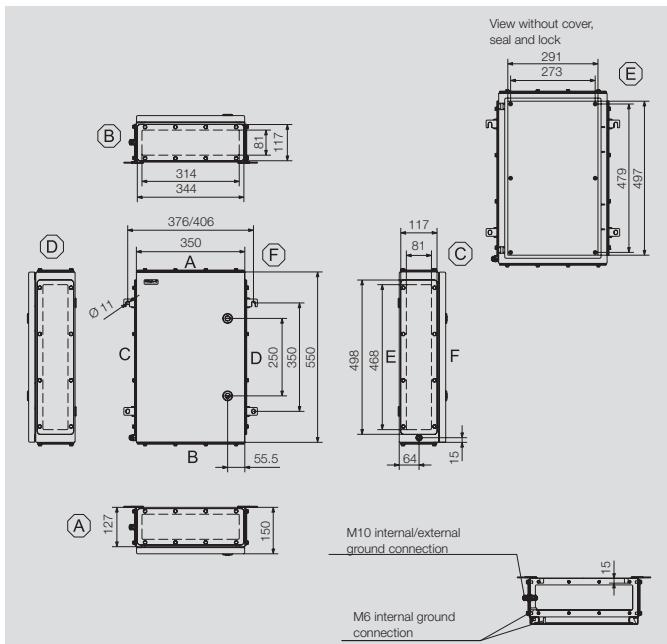
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194010000
Stainless steel, 1.4301	1193880000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	2x91	4x52
4 mm <sup>2</sup>	2x76	4x43
6 mm <sup>2</sup>	2x58	4x32
10 mm <sup>2</sup>	2x46	3x26
16 mm <sup>2</sup>	1x39	3x22
35 mm <sup>2</sup>	1x29	2x16

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

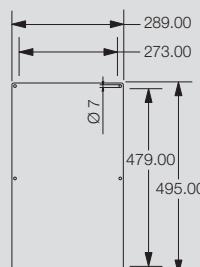
## Number of cable entries

Number of cable entries	A / B	C / D
M12	27	42
M16	15	24
M20	13	20
M25	6	9
M32	5	7
M40	4	6
M50	3	5
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 553520

Depth 200 mm



Height/Width/Depth 550 / 350 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1200620000
2 gland plates - positioned up and down (A & B)		1200630000
3 gland plates - positioned down, left and right (B, C & D)		1200640000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1200650000

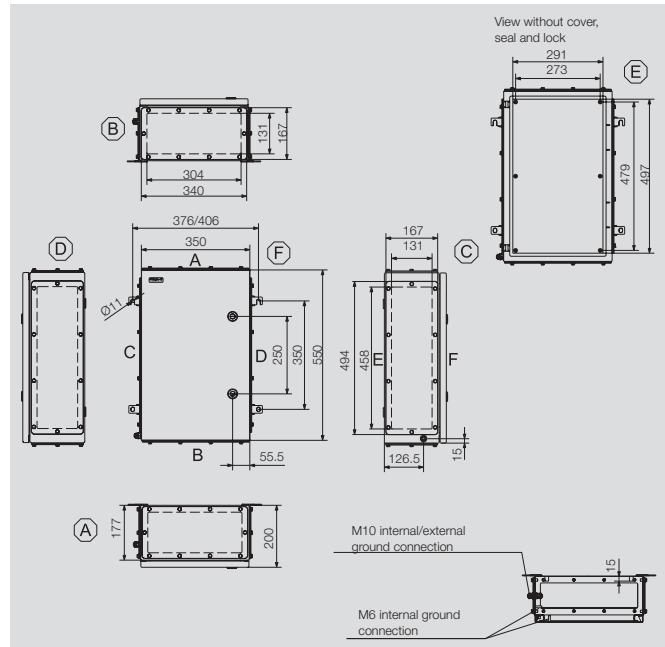
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194010000
Stainless steel, 1.4301	1193880000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm²	2x91	4x52
4 mm²	2x76	4x43
6 mm²	2x58	4x32
10 mm²	2x46	3x26
16 mm²	1x39	3x22
35 mm²	1x29	2x16

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

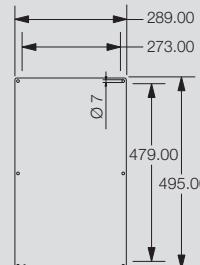
## Number of cable entries

Number of cable entries	A / B	C / D
M12	45	70
M16	30	48
M20	20	30
M25	17	26
M32	9	14
M40	7	12
M50	3	5
M63	3	4
M75	2	3

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 624515

Depth 150 mm



Height/Width/Depth 620 / 450 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200670000
2 gland plates - positioned up and down (A & B)	1200680000
3 gland plates - positioned down, left and right (B, C & D)	1200690000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200710000

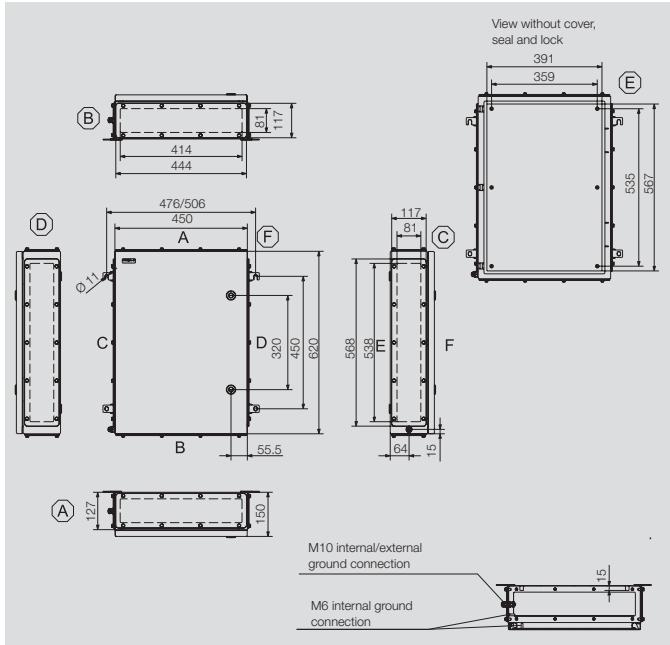
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194020000
Stainless steel, 1.4301	1193890000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x105	5x71
4 mm <sup>2</sup>	3x88	5x59
6 mm <sup>2</sup>	3x66	4x45
10 mm <sup>2</sup>	2x53	4x36
16 mm <sup>2</sup>	2x44	3x30
35 mm <sup>2</sup>	1x33	2x22

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

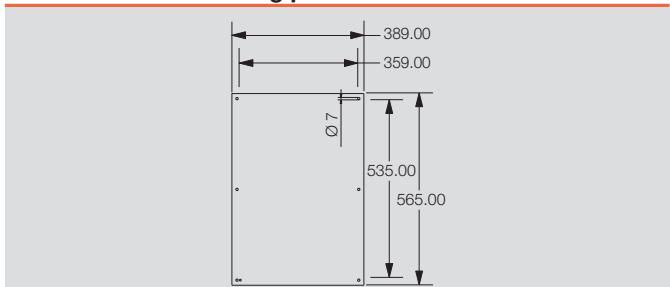
## Number of cable entries

Number of cable entries	A / B	C / D
M12	38	48
M16	21	27
M20	18	24
M25	8	10
M32	6	9
M40	5	7
M50	4	6
M63	0	0
M75	0	0

## Note

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 624520

Depth 200 mm



Height/Width/Depth

620 / 450 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1200730000
2 gland plates - positioned up and down (A & B)		1200740000
3 gland plates - positioned down, left and right (B, C & D)		1200750000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1200760000

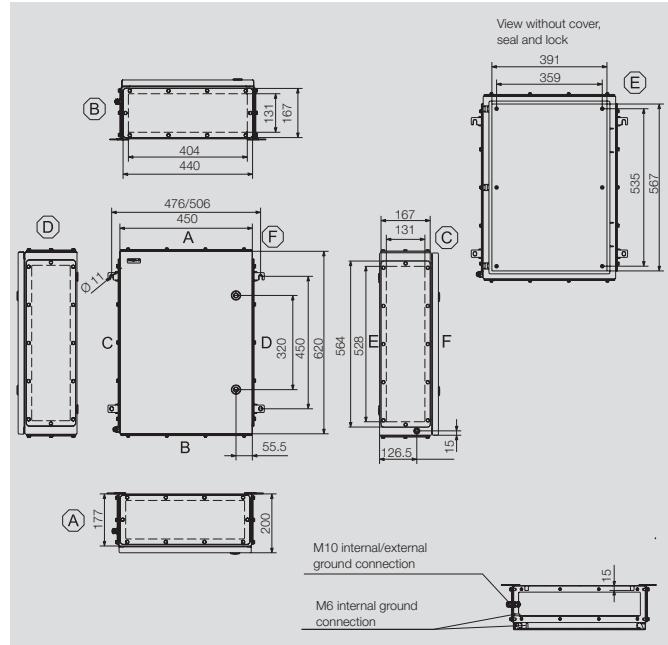
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194020000
Stainless steel, 1.4301	1193890000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	3x105	5x71
4 mm <sup>2</sup>	3x88	5x59
6 mm <sup>2</sup>	3x66	4x45
10 mm <sup>2</sup>	2x53	4x36
16 mm <sup>2</sup>	2x44	3x30
35 mm <sup>2</sup>	1x33	2x22

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

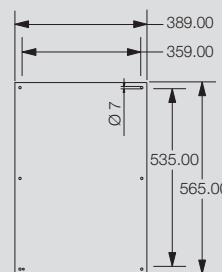
## Number of cable entries

Number of cable entries	A / B	C / D
M12	63	80
M16	42	54
M20	27	36
M25	23	30
M32	12	17
M40	10	14
M50	4	6
M63	4	5
M75	3	4

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 765015

Depth 150 mm



Height/Width/Depth 762 / 508 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200780000
2 gland plates - positioned up and down (A & B)	1200790000
3 gland plates - positioned down, left and right (B, C & D)	1200810000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200820000

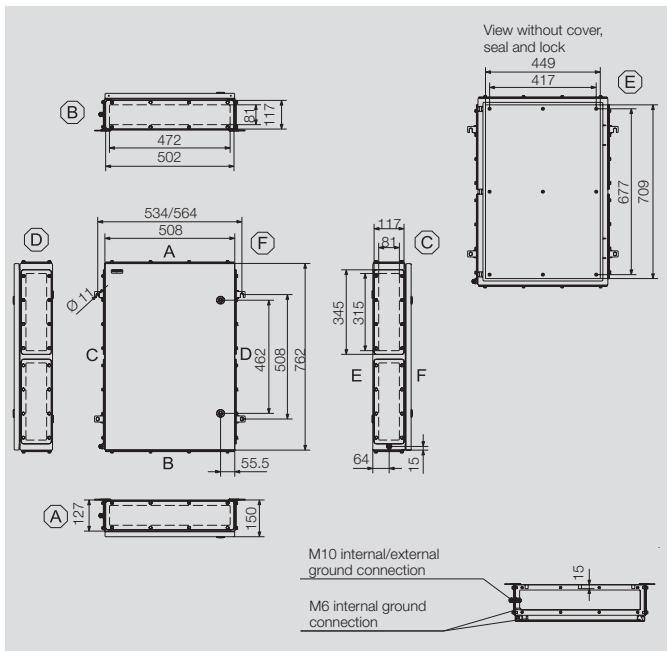
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194030000
Stainless steel, 1.4301	1193900000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	4x132	7x82
4 mm <sup>2</sup>	4x111	6x69
6 mm <sup>2</sup>	3x83	5x52
10 mm <sup>2</sup>	3x67	5x42
16 mm <sup>2</sup>	2x56	4x35
35 mm <sup>2</sup>	2x42	3x26

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.

Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

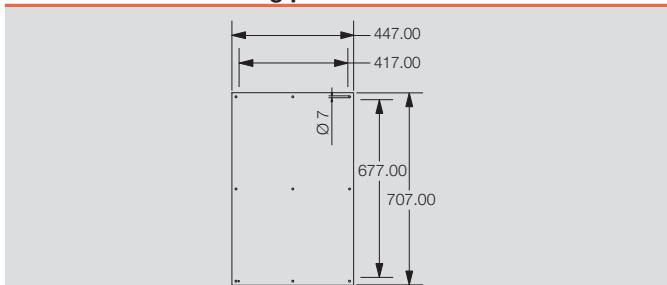
## Number of cable entries

Number of cable entries	A / B	C / D
M12	42	58
M16	24	32
M20	21	26
M25	9	12
M32	7	10
M40	6	8
M50	5	6
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



Klippon® TB QL 765020

**Depth** 200 mm



Height/Width/Depth 762 / 508 / 200 mm

## Ordering data

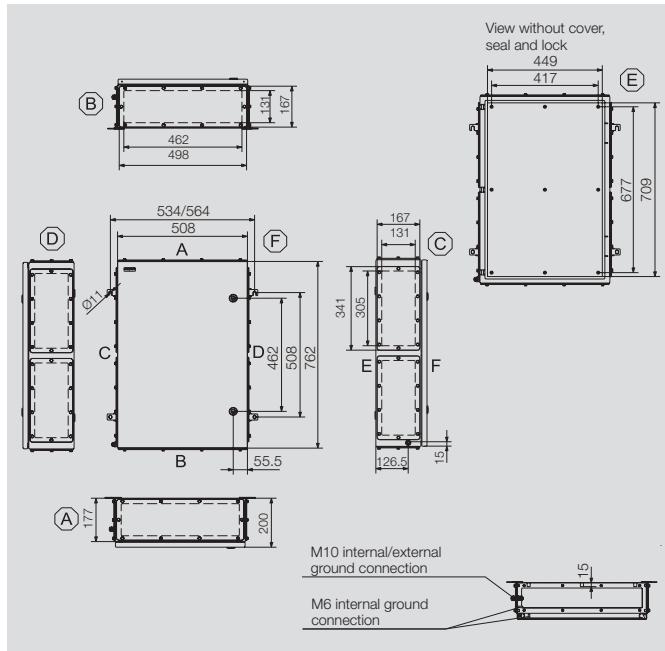
<b>Stainless steel 1.4404 316L, electropolished</b>	<b>Order No.</b>
1 gland plate - bottom	<b>1200840000</b>
2 gland plates - positioned up and down (A & B)	<b>1200850000</b>
3 gland plates - positioned down, left and right (B, C & D)	<b>1200860000</b>
4 gland plates - positioned up, down, left and right (A, B, C & D)	<b>1200870000</b>

**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate		Order No.
	Steel sheet, galvanised	1194030000
	Stainless steel, 1.4301	1193900000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>		
	10 mm length	0935110000
	15 mm length	0935120000
	20 mm length	0935130000
	30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>		
	15 mm length	3896100000
	20 mm length	3896200000
	30 mm length	3896300000

<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	15 mm length	<b>3896100000</b>
	20 mm length	<b>3896200000</b>
	30 mm length	<b>3896300000</b>



### **Max. number of terminals (industry)**

<b>Max. number of terminals (industry)</b>	<b>vertical</b>	<b>horizontal</b>
2.5 mm <sup>2</sup>	4x132	7x82
4 mm <sup>2</sup>	4x111	6x69
6 mm <sup>2</sup>	3x83	5x52
10 mm <sup>2</sup>	3x67	5x42
16 mm <sup>2</sup>	2x56	4x35
35 mm <sup>2</sup>	2x42	3x26



Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
An assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting feet.

Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:

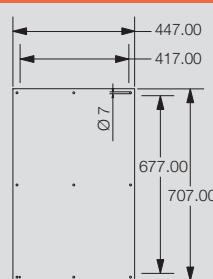
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

### Number of cable entries

Number of cable entries	A / B	C / D
M12	70	96
M16	48	64
M20	32	40
M25	26	34
M32	14	18
M40	12	14
M50	5	6
M63	4	6
M75	3	4

**Note** Our IP68 brass cable glands are used as the reference for these guideline values.

#### **Dimensions of mounting plate**



Note

System accessories can be found after the Klippon® TB QL product pages.

## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 916115

Depth 150 mm



Height/Width/Depth 914 / 610 / 150 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200890000
2 gland plates - positioned up and down (A & B)	1200910000
3 gland plates - positioned down, left and right (B, C & D)	1200920000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200930000

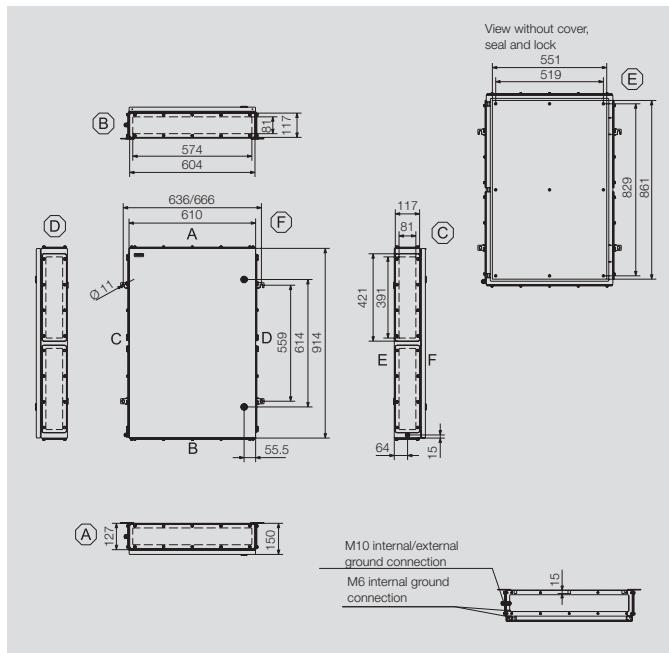
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194040000
Stainless steel, 1.4301	1193910000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	5x161	8x102
4 mm <sup>2</sup>	4x135	7x85
6 mm <sup>2</sup>	4x102	7x64
10 mm <sup>2</sup>	3x82	6x52
16 mm <sup>2</sup>	3x68	5x43
35 mm <sup>2</sup>	2x51	4x32

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal)  
ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

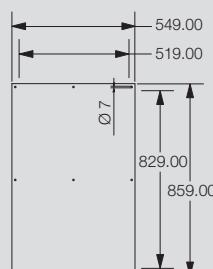
## Number of cable entries

Number of cable entries	A / B	C / D
M12	53	70
M16	29	40
M20	25	34
M25	11	14
M32	9	12
M40	8	10
M50	6	8
M63	0	0
M75	0	0

**Note**

Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® TB QL 916120

Depth 200 mm



Height/Width/Depth

914 / 610 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
1 gland plate - bottom	1200950000
2 gland plates - positioned up and down (A & B)	1200960000
3 gland plates - positioned down, left and right (B, C & D)	1200970000
4 gland plates - positioned up, down, left and right (A, B, C & D)	1200980000

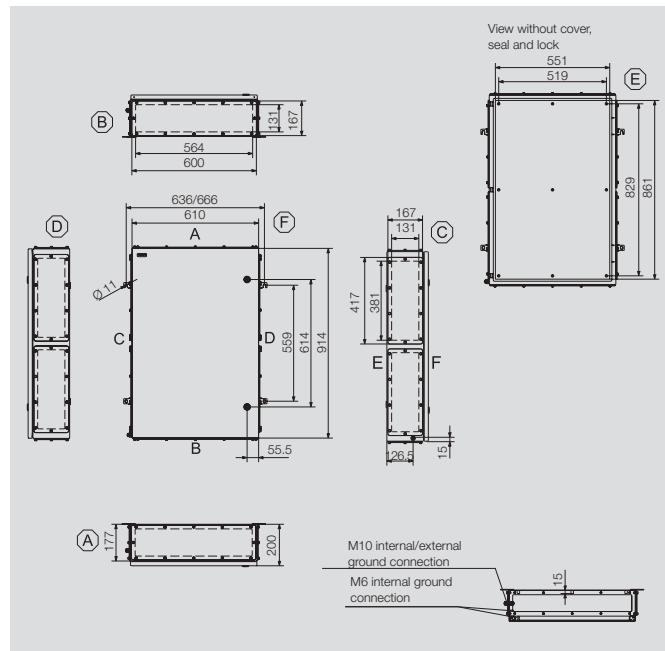
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194040000
Stainless steel, 1.4301	1193910000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

## Note

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	5x161	8x102
4 mm <sup>2</sup>	4x135	7x85
6 mm <sup>2</sup>	4x102	7x64
10 mm <sup>2</sup>	3x82	6x52
16 mm <sup>2</sup>	3x68	5x43
35 mm <sup>2</sup>	2x51	4x32

## Note

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

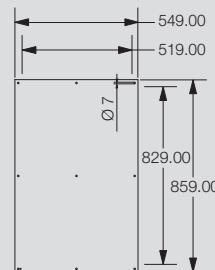
## Number of cable entries

Number of cable entries	A / B	C / D
M12	88	116
M16	58	80
M20	38	52
M25	33	42
M32	18	24
M40	15	20
M50	6	8
M63	5	6
M75	4	6

## Note

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



## Klippon® TB QL - Quarter Lock

## Klippon® TB QL 987420

Depth 200 mm



Height/Width/Depth 980 / 740 / 200 mm

## Ordering data

Stainless steel 1.4404 316L, electropolished		Order No.
1 gland plate - bottom		1201010000
2 gland plates - positioned up and down (A & B)		1201020000
3 gland plates - positioned down, left and right (B, C & D)		1201030000
4 gland plates - positioned up, down, left and right (A, B, C & D)		1201040000

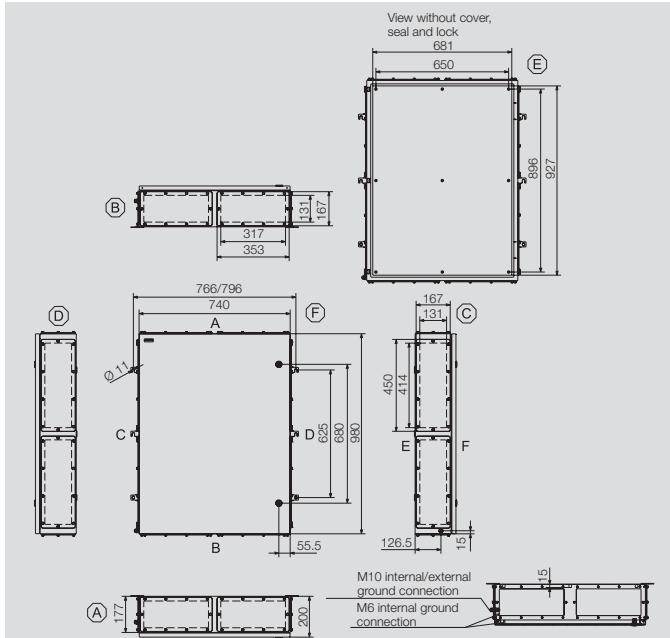
**Note** Painted sheet steel enclosure available on request. Standard colour is similar to RAL 7035.

## Accessories

Mounting plate	Order No.
Steel sheet, galvanised	1194050000
Stainless steel, 1.4301	1193920000
<b>Stainless steel-Spacer M6 x 8, set of 4</b>	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000

**Note**

System accessories can be found after the Klippon® TB QL product pages.



## Max. number of terminals (industry)

Max. number of terminals (industry)	vertical	horizontal
2.5 mm <sup>2</sup>	6x174	9x127
4 mm <sup>2</sup>	6x146	8x106
6 mm <sup>2</sup>	5x110	7x80
10 mm <sup>2</sup>	4x88	6x64
16 mm <sup>2</sup>	4x74	5x54
35 mm <sup>2</sup>	3x55	4x40

**Note**

\*For enclosure versions with zero, one or two gland plates, the horizontal gap between the mounting feet is reduced by 30 mm.  
Assembly with terminal blocks provides for 10 mm clearance to the ends of the mounting rail.  
Recommended order:  
TS35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000 / (tension clamp terminal) PDU 2.5 1896110000  
TS32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS15 mounting rail (screw terminal) AKZ 2.5 0697160000

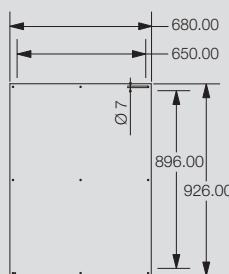
## Number of cable entries

Number of cable entries	A / B	C / D
M12	96	126
M16	64	84
M20	42	54
M25	36	48
M32	20	26
M40	16	22
M50	6	10
M63	6	8
M75	4	6

**Note**

Our IP68 brass cable glands serve as a reference for these recommended values.

## Dimensions of mounting plate



# Integrate, expand and customise: the perfect supplement to every application

The fully structured range of system accessories for the Klippon® TB enclosure series allows you to easily adapt the enclosure to meet the specific requirements of every application.

The following options are available:

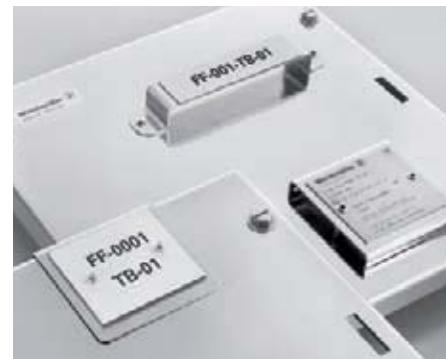
- Type label holder – to attach nameplates
- Mounting kit – to mount and secure components
- Door stay – to securely hold the opened enclosure lid
- Document holder – available in A4, A5 and A6 sizes to keep documents in
- Mounting plates – for custom enclosure component assembly
- Removable gland plates (3 mm or 6 mm versions) for the later addition of components like cable glands or heavy-duty connectors.
- Earth studs – brass or stainless steel
- 1/4-quarter lock – locking Inserts with two-way security lock or a slot, made from 1.4404 or 1.4301 stainless steel to securely lock the enclosure (Klippon® TB QL)
- Stainless steel padlock (Klippon® TB MH)

Other accessories such as rain hoods, spacers, and more are available on request.

Using the appropriate quality tools from Weidmüller guarantees a professional process – they can be found in chapter G.

All in all: ease of operation, maximum functionality and safety for the application and the user.

B



# Small stainless steel and steel sheet enclosure series

Ideally suited for the energy and process industry and transportation, the Klippon® STB series is the perfect complement to our existing Klippon® enclosure product line. Enclosures of this series comply with international standards such as EN 62208 and EN 60079-0/7 (ATEX).

Some of the many advantages of these cases are:

- Available in stainless steel or in steel sheet
- Higher temperature resistant seals than the standard (extended temperature range of -60 °C to +100 °C / 120 °C, on request)
- Flexible options when mounting the internal rail
- The gasket is protected against compression; this ensures that a permanent and secure seal is maintained.
- Earth studs in the lid and in the enclosure base
- Lasered welding seams offer improved quality
- Delivered with welded mounting feet to ensure an sturdy enclosure installation

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Dimensions	Mirror-polish	Electropolished	Powder-coated (RAL7032)
Klippon® STB 1	120 x 120 x 80	1002690000	1058810000	1024970000
Klippon® STB 1.1	150 x 120 x 80	1002750000	1058820000	1024980000
Klippon® STB 2	150 x 150 x 90	1002740000	1058830000	1024990000
Klippon® STB 2.1	190 x 150 x 90	1002730000	1058840000	1025010000
Klippon® STB 3	190 x 190 x 100	1002720000	1058850000	1025020000
Klippon® STB 4	250 x 250 x 120	1002710000	1058860000	1025030000
Klippon® STB 5	160 x 380 x 120	1002700000	1058880000	1025040000
Klippon® STB 6	250 x 400 x 130	1002760000	1058870000	1025050000

## Technical Overview

### Features

- Mirror-polished or electropolished stainless steel 1.4404 (316L) or powder coated steel sheet 1.0330
- Fitted with a welded, internal C-profile rail (TAS 20) and mounting feet
- Laser cut weld seams
- Approved according to the latest international norms (e.g. ATEX, cULus, GOST)

**Note:** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

### Technical data

	Stainless steel	Sheet steel
Enclosure material	Stainless steel 1.4404 (316L) 1.50 mm	Steel sheet 1.0330 1.50 mm
Surface finish	mirror-polished, electropolished	powder-coated RAL 7032
IP protection class	IP 66	IP 66
Earthing	Enclosure base part: internal / external M6 stainless steel Lid: M6 x 12 stainless steel	Enclosure base part: internal / external M6 stainless steel Lid: M6 x 12 stainless steel
Installation mounting	Welded C-profile rail	Welded C-profile rail
Enclosure attachment	2 external mounting feet with 8 mm holes	2 external mounting feet with 8 mm holes
Lid opening	completely removable lid with 4 x M5 screws	completely removable lid with 4 x M5 screws
Impact resistance	7J ATEX	10J industrial version
Gasket material	Silicone -60 °C...+100 °C (120 °C on request)	Silicone -60 °C...+120 °C
Lid screws, torque*	2.5 Nm	2.5 Nm

The gasket is protected against compression in line with the manufacturer's recommendation

**Note:** To secure the lid, please use our hexagonal socket wrench with a 10 mm socket (9009070000) see chapter G

### Approvals for empty enclosures

	Stainless steel	Sheet steel
ATEX / IECEx certificate	IBExU 07ATEX1147 U / IECEx IBE09.0018U	**
ATEX / IECEx marking	T II 2 G Ex e II C Gb T II 2 D Ex tb IIIC Db IP66	
cULus	E 197061	**
Lloyds Register	08/20032	**
Germanischer Lloyd	5935808 HH	**
GOST	POCC DE.ME25.B01450	
Installation	The Klippon® STB enclosure series can be pre-fitted in our customer specific production department according to your wishes; as an example, terminals, or other approved components, can be installed as required.	

**Note:** This enclosure series is component certified. If other electrical components are inserted into the case, additional certification is required.

\*\* Approvals are pending.

### Approvals for control and distribution box

	Stainless steel	Sheet steel
ATEX / IECEx certificate	IBExU 07ATEX1148 / IECEx IBE09.0019	**
ATEX / IECEx marking	T II 2 G Ex e IIC Gb Tx, T II 2 D Ex tb IIIC Db IP6x Txxxx °C T I II 1 G Ex ia IIC Ga Tx, T II 1 D Ex tb IIIC Db IP6x Txxx °C T II 2 G Ex e IIC Gb Tx, T II 2 D Ex tb IIIC Db IP6x Txxx °C	

**Note:** If you have specific requirements for equipment operating in explosive hazard areas, please contact us at Weidmüller to receive a full copy of the certification.

\* The Klippon® STB steel version is not Ex certified

\*\* Approvals are pending.

## Klippon® STB - Sheet steel enclosures

## Klippon® STB 1

Depth 80 mm



Height/Width/Depth 120 / 120 / 80 mm

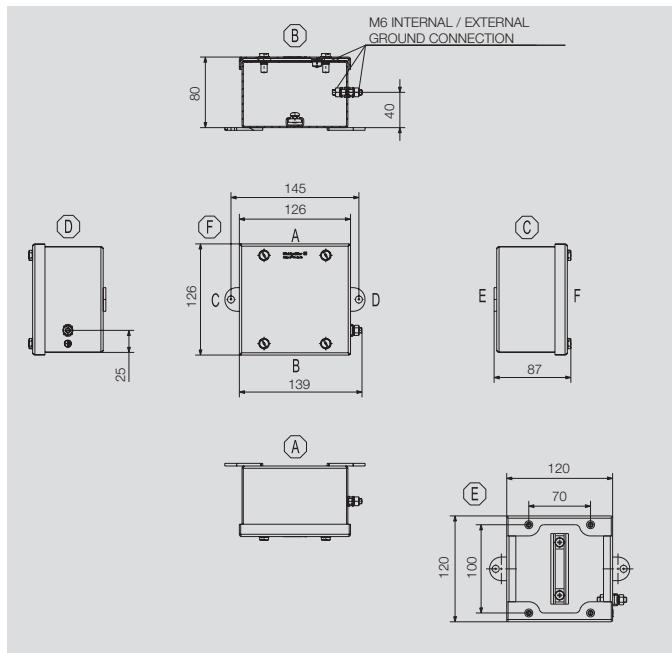
## Ordering data

Stainless-steel-sheet (1.4404 316L)	Order No.
Polished Sheet	1002690000
Electropolished	1058810000
<b>Sheet steel, Powder-coated (RAL 7032)</b>	
Powder-coated paint	1024970000

**Note** The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw	Order No.
	M5 0433500000
<b>Socket wrench</b>	
M10 socket wrench	9009070000

**Note** The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x17	
4 mm <sup>2</sup>	1x14	
6 mm <sup>2</sup>	1x11	
10 mm <sup>2</sup>	1x8	
16 mm <sup>2</sup>	1x7	



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	10	8
M16	6	4
M20	6	4
M25	3	2
M32	2	1
M40	2	1
M50		
M63		

**Note**

## Klippon® STB 1.1

Depth 80 mm



Height/Width/Depth 150 / 120 / 80 mm

## Ordering data

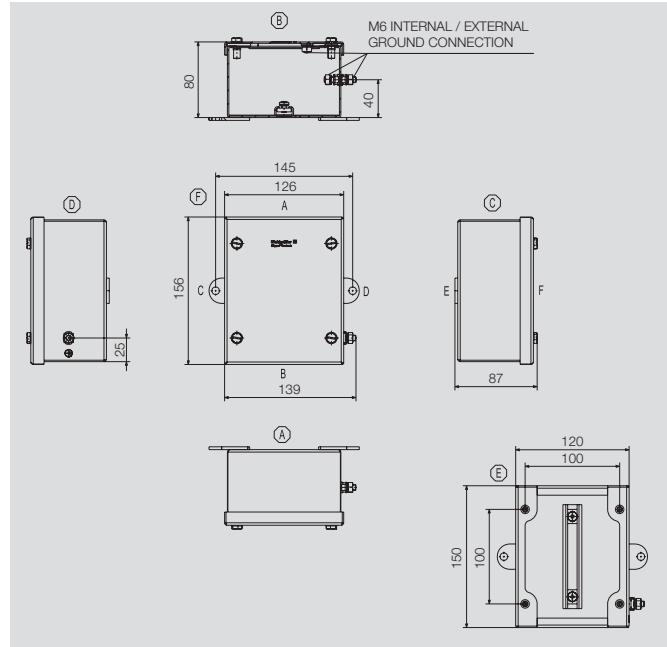
Stainless-steel-sheet (1.4404 316L)		Order No.
Polished Sheet		1002750000
Electropolished		1058820000
Sheet steel, Powder-coated (RAL 7032)		
Powder-coated paint		1024980000
<b>Note</b>		The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw		Order No.
		M5 0433500000
Socket wrench		
		M10 socket wrench 9009070000

## Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x23
	4 mm²	1x19
	6 mm²	1x14
	10 mm²	1x11
	16 mm²	1x9

## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	10	10
M16	6	6
M20	3	3
M25	3	2
M32	2	2
M40	2	1
M50		
M63		

## Note

## Klippon® STB - Sheet steel enclosures

## Klippon® STB 2

Depth 90 mm



Height/Width/Depth 150 / 150 / 90 mm

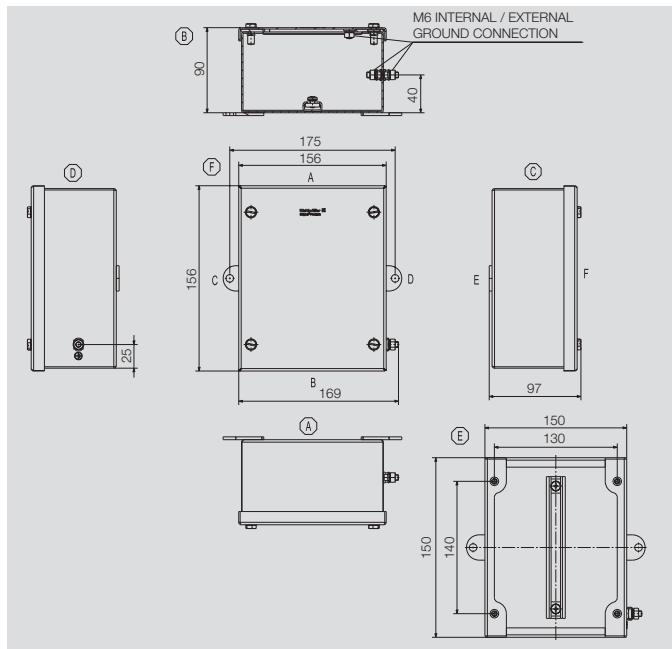
## Ordering data

Stainless-steel-sheet (1.4404 316L)	Order No.
Polished Sheet	1002740000
Electropolished	1058830000
<b>Sheet steel, Powder-coated (RAL 7032)</b>	
Powder-coated paint	1024990000

**Note** The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw	Order No.
	M5 0433500000
<b>Socket wrench</b>	
M10 socket wrench	9009070000

**Note** The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2,5 mm <sup>2</sup>	1x23
	4 mm <sup>2</sup>	1x19
	6 mm <sup>2</sup>	1x14
	10 mm <sup>2</sup>	1x11
	16 mm <sup>2</sup>	1x9

**Note**

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	15	15
M16	10	8
M20	8	6
M25	3	2
M32	3	2
M40	2	2
M50	1	1
M63		

**Note**

## Klippon® STB 2.1

Depth 90 mm



Height/Width/Depth 190 / 150 / 90 mm

## Ordering data

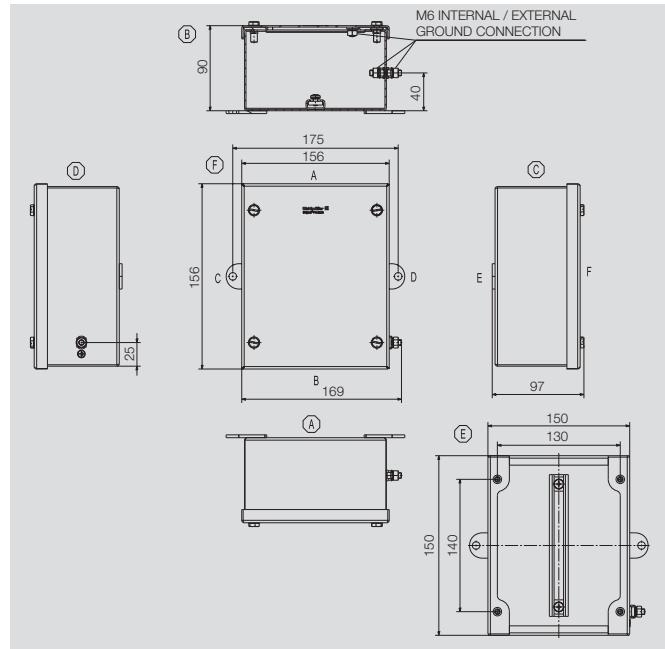
Stainless-steel-sheet (1.4404 316L)		Order No.
Polished Sheet		1002730000
Electropolished		1058840000
Sheet steel, Powder-coated (RAL 7032)		Powder-coated paint
Note		The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw		Order No.
		M5 0433500000
Socket wrench		M10 socket wrench
		9009070000

## Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x30	
4 mm <sup>2</sup>	1x25	
6 mm <sup>2</sup>	1x20	
10 mm <sup>2</sup>	1x15	
16 mm <sup>2</sup>	1x13	



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	15	18
M16	10	10
M20	8	10
M25	3	3
M32	3	3
M40	2	2
M50	1	1
M63		

## Note



## Klippon® STB - Sheet steel enclosures

## Klippon® STB 3

Depth 100 mm



Height/Width/Depth 190 / 190 / 100 mm

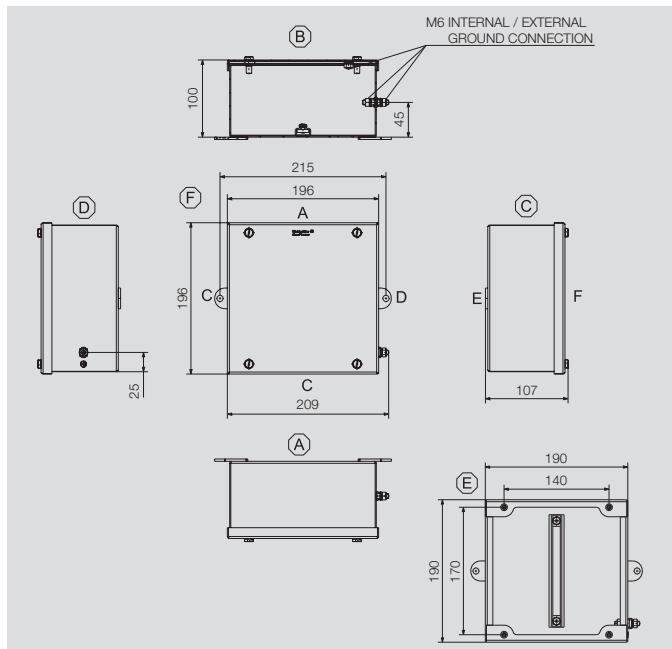
## Ordering data

Stainless-steel-sheet (1.4404 316L)	Order No.
Polished Sheet	1002720000
Electropolished	1058850000
<b>Sheet steel, Powder-coated (RAL 7032)</b>	
Powder-coated paint	1025020000

**Note** The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw	Order No.
	M5 0433500000
Socket wrench	
M10 socket wrench	9009070000

**Note** The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x30	
4 mm <sup>2</sup>	1x25	
6 mm <sup>2</sup>	1x20	
10 mm <sup>2</sup>	1x15	
16 mm <sup>2</sup>	1x13	

**Note**

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	21	21
M16	15	15
M20	10	8
M25	8	6
M32	3	3
M40	3	2
M50	2	1
M63	1	

**Note**

## Klippon® STB 4

Depth 120 mm



Height/Width/Depth 250 / 250 / 120 mm

## Ordering data

Stainless-steel-sheet (1.4404 316L)		Order No.
Polished Sheet		1002710000
Electropolished		1058860000
Sheet steel, Powder-coated (RAL 7032)		
Powder-coated paint		1025030000

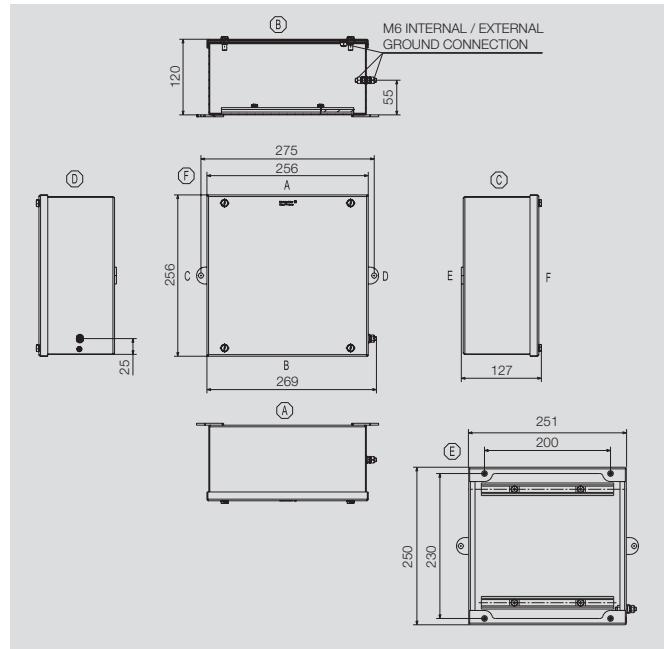
**Note** The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw	Order No.
	M5 0433500000
Socket wrench	
	M10 socket wrench 9009070000

**Note**

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	2x42	2x42
4 mm <sup>2</sup>	2x35	2x35
6 mm <sup>2</sup>	2x27	2x27
10 mm <sup>2</sup>	2x22	2x22
16 mm <sup>2</sup>	2x18	2x18

**Note**

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	32	32
M16	21	21
M20	12	12
M25	10	10
M32	8	8
M40	3	3
M50	2	2
M63	2	2

**Note**

## Klippon® STB - Sheet steel enclosures

## Klippon® STB 5

Depth 120 mm



Height/Width/Depth 160 / 380 / 120 mm

## Ordering data

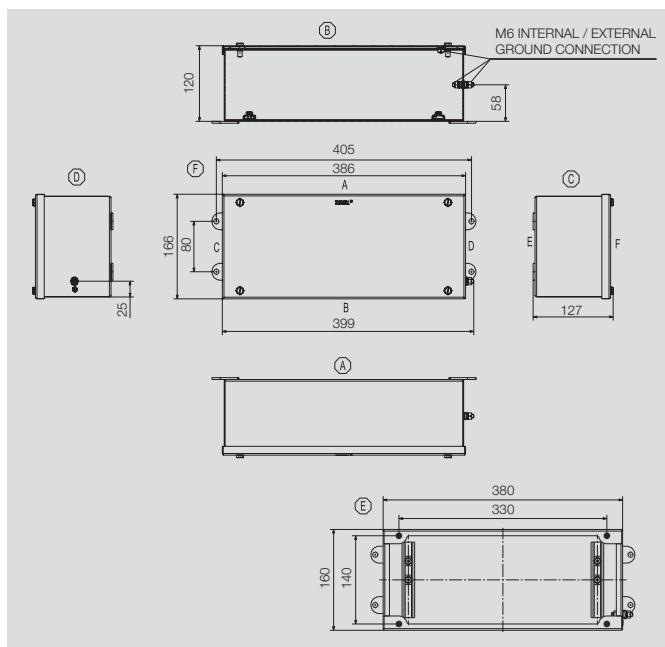
Stainless-steel-sheet (1.4404 316L)	Order No.
Polished Sheet	1002700000
Electropolished	1058880000
<b>Sheet steel, Powder-coated (RAL 7032)</b>	
Powder-coated paint 1025040000	
<b>Note</b>	The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw	Order No.
	M5 0433500000
Socket wrench	
M10 socket wrench 9009070000	

## Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x25	1x68
4 mm <sup>2</sup>	3x21	1x57
6 mm <sup>2</sup>	3x16	1x44
10 mm <sup>2</sup>	3x12	1x35
16 mm <sup>2</sup>	3x10	1x29



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	64	20
M16	15	12
M20	30	12
M25	16	6
M32	10	4
M40	6	2
M50	4	1
M63	2	1

## Note



## Klippon® STB 6

Depth 130 mm



Height/Width/Depth 250 / 400 / 130 mm

## Ordering data

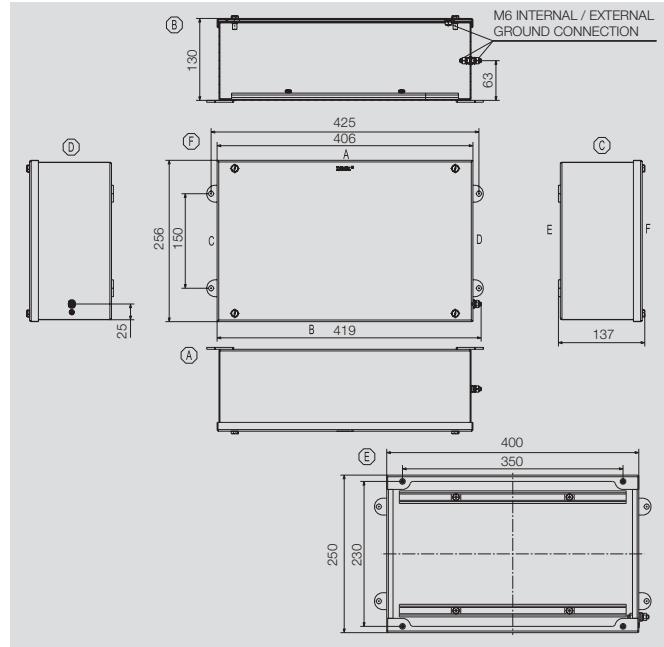
Stainless-steel-sheet (1.4404 316L)		Order No.
Polished Sheet		1002760000
Electropolished		1058870000
Sheet steel, Powder-coated (RAL 7032)		
Powder-coated paint		1025050000

**Note** The colours of painted enclosures may vary under certain circumstances.

## Accessories

Sliding fixing nut with screw		Order No.
		M5 0433500000
Socket wrench		
		M10 socket wrench 9009070000

**Note** The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS35 or TS32 into the C-Profile.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	3x42	2x72
4 mm <sup>2</sup>	3x35	2x60
6 mm <sup>2</sup>	3x27	2x46
10 mm <sup>2</sup>	3x22	2x37
16 mm <sup>2</sup>	3x18	2x30



**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Recommended order:  
TS 35 mounting rail (screw terminal) WDU 2.5 1020000000 / (tension clamp terminal) ZDU 2.5 1608510000  
TS 32 mounting rail (screw terminal) SAK 2.5 0279660000  
TS 15 mounting rail (screw terminal) AKZ 2.5 0697160000

## Number of cable entries

Number of cable entries	A / B	C / D
M12	64	36
M16	33	21
M20	30	18
M25	16	10
M32	10	8
M40	6	3
M50	4	2
M63	2	2

**Note**

# Aluminium enclosures

Klippon® K series enclosures can be used in a variety of applications, e.g. for mounting terminals, switches, power supplies, operational and display elements or electronic modules.

The extensive Klippon® K enclosure range has the following advantages:

- More flexibility – 19 different sizes
- Available in two surface finishes – powder-coated and natural
- Mounting holes not within the sealed area
- Fastening thread to attach mounting rails and plates
- Closed moulded gasket (no glue seam)

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Dimensions	Powder-coated (RAL 7001)		Unpainted		Ex enclosure
		Standard		Standard		
		CR moulded seal	Silicone moulded seal*	CR moulded seal	Silicone moulded seal*	moulded seal
Klippon® K 0	45 x 50 x 30	9529090000	1937920000	0573200000	1939760000	9526810000
Klippon® K 01	64 x 58 x 34	9529100000	1937850000	1565240000	1939540000	9526820000
Klippon® K 02	64 x 98 x 34	9529110000	1937840000	1565250000	1939550000	9526830000
Klippon® K 1	70 x 70 x 45	9529120000	1937630000	0342000000	1939560000	9526840000
Klippon® K 11	802 x 75 x 57	9529130000	1937910000	0573300000	1939570000	9526850000
Klippon® K 2	70 x 100 x 45	9529140000	1937930000	0342100000	1939580000	9526860000
Klippon® K 21	80 x 125 x 57	9529150000	1937830000	0573400000	1939590000	9526870000
Klippon® K 3	70 x 165 x 45	9529160000	1937900000	0342200000	1939600000	9526880000
Klippon® K 31	80 x 175 x 57	9529170000	1937820000	0573500000	1939610000	9526890000
Klippon® K 32	80 x 250 x 55	9529180000	1937810000	1565260000	1939620000	9526900000
Klippon® K 4	82 x 130 x 72	9529190000	1937890000	0342300000	1939630000	9526910000
Klippon® K 41	120 x 122 x 81	9529200000	1937800000	1565270000	1939640000	9526920000
Klippon® K 5	130 x 170 x 90	9529210000	1937860000	0342400000	1939650000	9526930000
Klippon® K 51	120 x 220 x 81	9529220000	1937750000	1565280000	1939660000	9526940000
Klippon® K 52	160 x 160 x 91	9529230000	1937740000	1565290000	1939670000	9526950000
Klippon® K 6	160 x 200 x 100	9529240000	1937870000	0342500000	1939690000	9526960000
Klippon® K 61	160 x 260 x 91	9529250000	1937730000	0573600000	1939700000	9526970000
Klippon® K 7	160 x 350 x 100	9529260000	1937880000	0342600000	1939710000	9526980000
Klippon® K 71	230 x 280 x 111	9529270000	1937720000	0573700000	1939730000	9526990000

Note: \* Delivery time on request

## Technical Overview

### Features

- Two surfaces: natural and powder-coated
- High IP protection up to IP 68
- Moulded silicone gasket for applications with high temperatures
- A uniform Torx-slotted screw head is used for over 19 different enclosure sizes.
- Alloy is resistant to salt water
- Approved according to the latest international standards (e.g. ATEX, cULus, GOST)

**Note:** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

## Technical data

	Ex	Standard
Enclosure material	High quality aluminium alloy (Al-Si12)	High quality aluminium alloy (Al-Si12)
Surface, untreated	Smooth	Smooth
Surface, painted		silver grey, textured, similar to RAL 7001
Painting		40 µm paint thickness
IP protection class	IP 66, IP 67	IP 66, IP 67 and IP 68*
Earthing outside	Earthing studs, M4	
Installation mounting	flexible DIN rail mounting	flexible DIN rail mounting
Enclosure mounting	Direct mounting with optional mounting brackets (from a size of 120 x 122 x 81 Klippon® K 41)	Direct mounting with optional mounting brackets (from a size of 120 x 122 x 81 Klippon® K 41)
Lid fixing	Captive stainless steel Torx 20 or slotted screws.	Captive stainless steel Torx 20 or slotted screws.
Impact resistance	7J	10J
Gasket material	Silicone (VMQ)	Chloroprene / Silicone (VMQ)
Temperature range	-50 °C...+135 °C	-40 °C...+80 °C with chloroprene gasket / -50 °C...+135 °C with silicone gasket
Lid screws, torque**	2.5 Nm	2.5 Nm

**Note:** \* (t = 72 h; h = 1 m)

\*\* To secure the lid we recommend the use of our Torx TH20 screwdriver (9009160000), see chapter G

Depending on the screw head size, our slotted screwdriver may also be used as an alternative

## Approvals for empty enclosures

	Ex	Standard
ATEX certificate	KEMA 02ATEX2088 U	
ATEX marking	II 2 G Ex e II IP66/IP67	
IECEx certificate	Approvals are pending	
IECEx marking	Approvals are pending	
GOST Ex	POCC DE.ME92.B00362	
GOST	POCC DE.ME25.B01450	POCC DE.ME25.B01450
cULus		E 197061
Russian Maritime Register	11040200	11040200
Germanischer Lloyd	4453607 HH	4453607 HH
Installation	The Klippon® K enclosure series can be pre-fitted in our customer specific production department according to your wishes; as an example, terminals, or other approved components, can be installed as required.	

**Note:** This enclosure series is component certified. If other electrical components are inserted into the case, additional certification is required.

## Approvals for control and distribution box

	Ex	Standard
ATEX certificate	KEMA 00ATEX8501 X	
ATEX marking	II 2 GD Ex e II T6/T3 IP66/IP67 II 1 GD Ex ia IC T6/T3 II 2 (1) GD Ex eb[a] IIG T6/T3	

**Note:** If you have specific requirements for equipment operating in explosive hazard areas, please contact us at Weidmüller to receive a full copy of the certification.

## Klippon® K - Aluminium enclosures

## Klippon® K 0

Depth 30 mm



Height/Width/Depth

45 / 50 / 30 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529090000
Standard (silicone seal)**	1937920000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0573200000
Ex enclosure (silicone seal)	9526810000

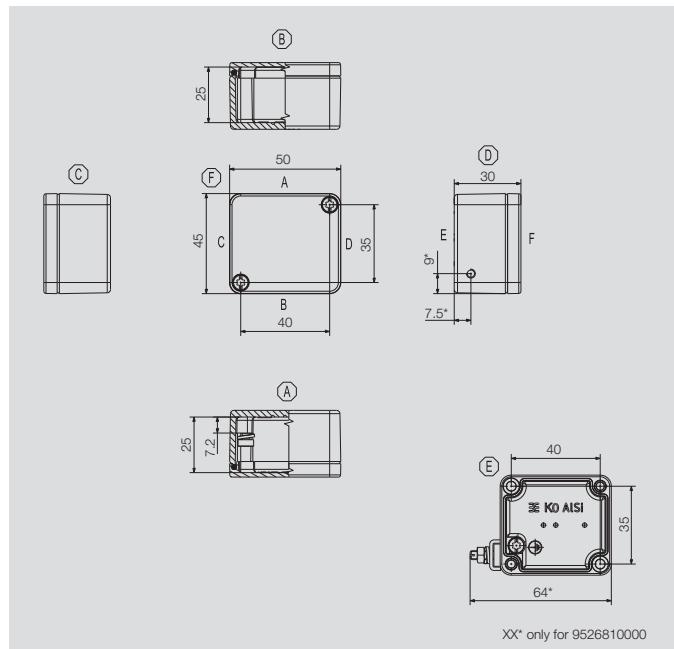
## Note

The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Torx screwdriver	Order No.
	Uninsulated Torx TH20 9009160000



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x1*
	4 mm²	1x1*
	6 mm²	
	10 mm²	
	16 mm²	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend installing at most one BK 3 or BK 3 CRN (0624920000). There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	1	1
M16	1	1
M20		
M25		
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Note

## Klippon® K 01

Depth 34 mm



Height/Width/Depth

64 / 58 / 34 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529100000
Standard (silicone seal)**	1937850000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	1565240000
Ex enclosure (silicone seal)	9526820000

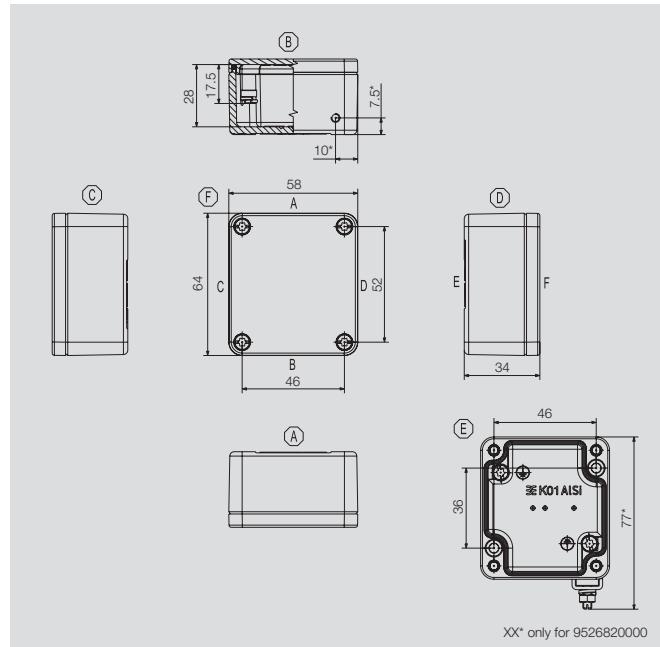
## Note

The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Torx screwdriver	Order No.
	Uninsulated Torx TH20 9009160000



XX\* only for 9526820000

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x1*
	4 mm²	1x1*
	6 mm²	
	10 mm²	
	16 mm²	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend installing at most one BK 3 or BK 3 CRN (0624920000). There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	1	1
M16	1	1
M20		
M25		
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Note

## Klippon® K 02

Depth 34 mm



Height/Width/Depth 64 / 98 / 34 mm

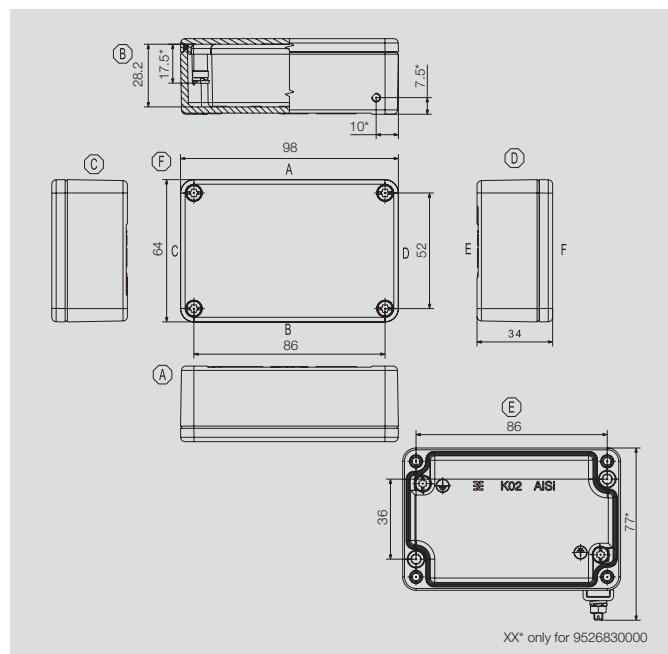
## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529110000
Standard (silicone seal)**	1937840000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	1565250000
Ex enclosure (silicone seal)	9526830000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Accessories

Torx screwdriver	Order No.
	Uninsulated Torx TH20 9009160000



XX\* only for 9526830000

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x1*
	4 mm²	1x1*
	6 mm²	
	10 mm²	
	16 mm²	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. For vertical installations we recommend a maximum of one BK 4 or BK 4 CRN (0625120000) and for horizontal at most one BK 6 or BK6 CRN (0625220000). There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	1	3
M16	1	3
M20		
M25		
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Note

## Klippon® K 1

Depth 45 mm



Height/Width/Depth

70 / 70 / 45 mm

XX\* only for 9526840000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529120000
Standard (silicone seal)**	1937630000
Natural finish (unpainted)	
Standard (CR seal)	0342000000
Ex enclosure (silicone seal)	9526840000

## Note

The colours of painted enclosures may vary under certain circumstances.

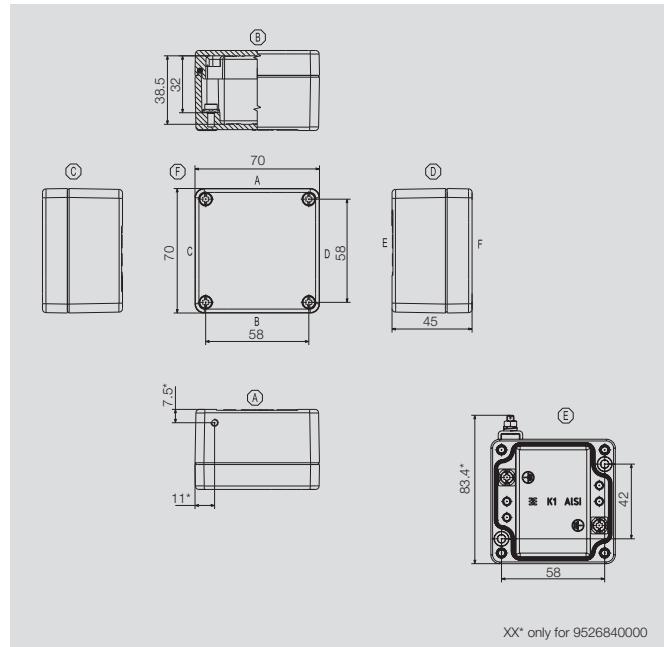
\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	15 mm width
	1909980000
Mounting plate	
	Steel sheet, galvanised
	Uninsulated Torx TH20
	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x1*
	4 mm²	1x1*
	6 mm²	1x1*
	10 mm²	
	16 mm²	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. For vertical installations, we recommend using not more than one BK 4 or BK 4 CRN (0625120000). For horizontal installations with 2.5mm² 1x5 AKZ terminal blocks (only possible on a TS15) for 4mm², use not more than one BK 4. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

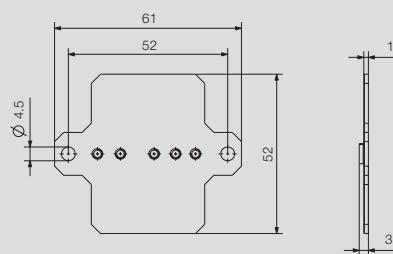
## Number of cable entries

Number of cable entries	A / B	C / D
M12	2	1
M16	2	1
M20	1	
M25		
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 11

Depth 57 mm



Height/Width/Depth

80 / 75 / 57 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529130000
Standard (silicone seal)**	1937910000
Natural finish (unpainted)	
Standard (CR seal)	0573300000
Ex enclosure (silicone seal)	9526850000

## Note

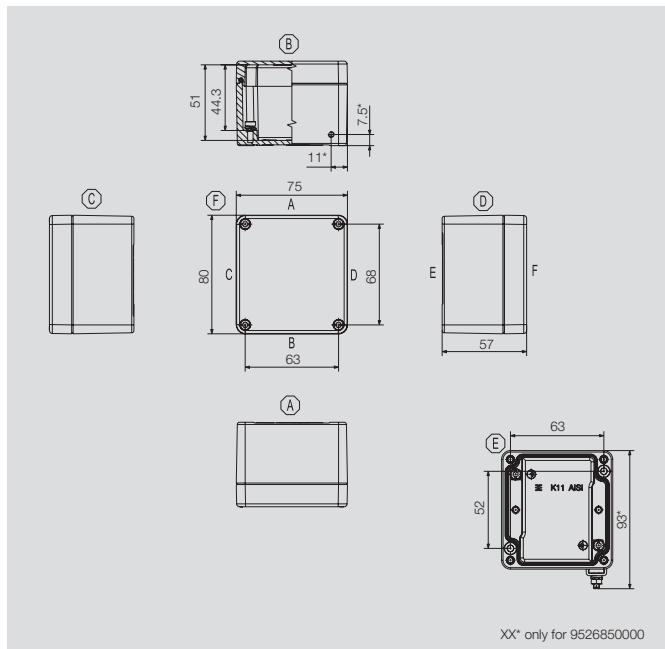
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	15 mm width
	1909990000
Mounting plate	
	Steel sheet, galvanised
	3073000000
Hinge, diecast zinc, Set	
	1580360000
Torx screwdriver	
	Uninsulated Torx TH20
	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm²	1x1*
	4 mm²	1x1*
	6 mm²	1x4
	10 mm²	
	16 mm²	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

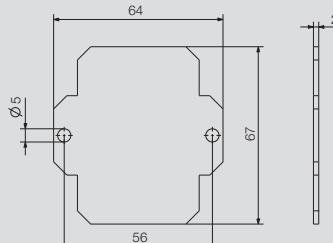
## Number of cable entries

Number of cable entries	A / B	C / D
	M12	2
	M16	2
	M20	1
	M25	1
	M32	
	M40	
	M50	
	M63	

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 2

Depth 45 mm



Height/Width/Depth

70 / 100 / 45 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529140000
Standard (silicone seal)**	1937930000
Natural finish (unpainted)	
Standard (CR seal)	0342100000
Ex enclosure (silicone seal)	9526860000

## Note

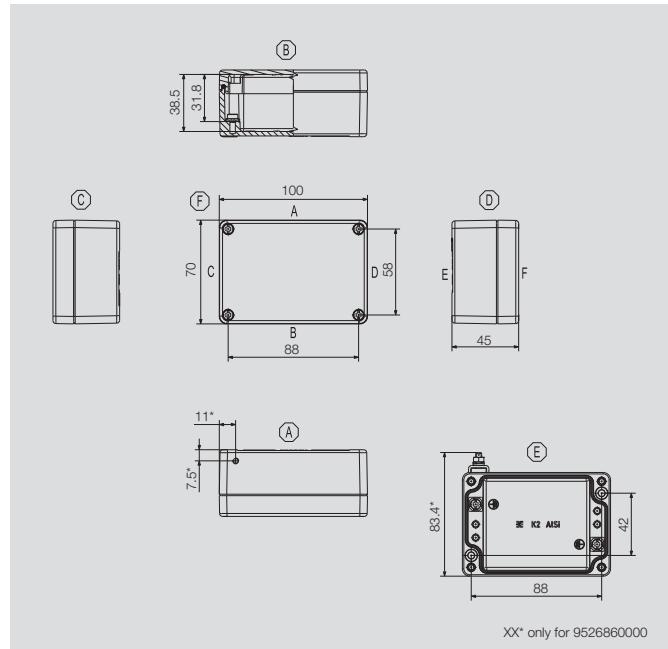
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	15 mm width
	1910010000
Mounting plate	
	Steel sheet, galvanised
	1905270000
Torx screwdriver	
	Uninsulated Torx TH20
	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

XX\* only for 9526860000

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	*
	4 mm <sup>2</sup>	*
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

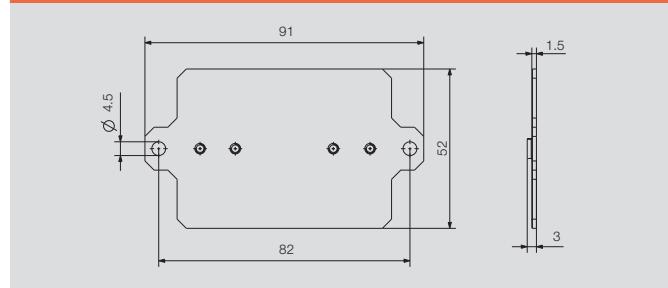
## Number of cable entries

Number of cable entries	A / B	C / D
M12	3	1
M16	3	1
M20	2	
M25		
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 21

Depth 57 mm



Height/Width/Depth

80 / 125 / 57 mm

XX\* only for 9526870000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529150000
Standard (silicone seal)**	1937830000
Natural finish (unpainted)	
Standard (CR seal)	0573400000
Ex enclosure (silicone seal)	9526870000

## Note

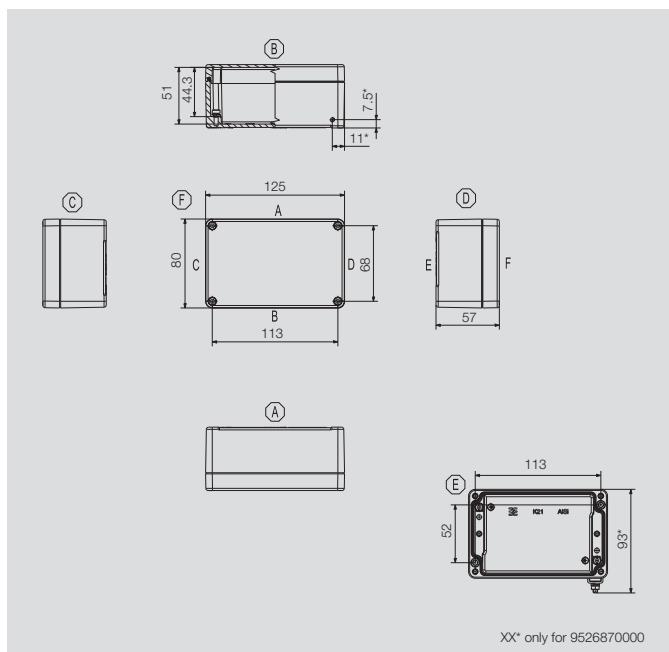
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

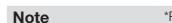
Terminal rail, Set	Order No.
	15 mm width
	1910020000
Mounting plate	
	Steel sheet, galvanised
	3073020000
Hinge, diecast zinc, Set	
	1580360000
Torx screwdriver	
	Uninsulated Torx TH20
	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x15
4 mm <sup>2</sup>	*	1x12
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



Note \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

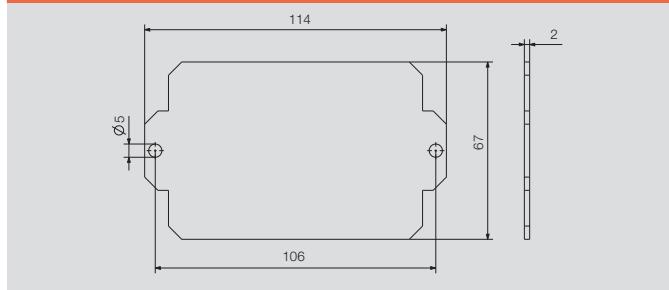
Number of cable entries	A / B	C / D
M12	6	2
M16	4	2
M20	3	1
M25	2	
M32		
M40		
M50		
M63		



## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 3

Depth 45 mm



Height/Width/Depth

70 / 165 / 45 mm

XX\* only for 9526880000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529160000
Standard (silicone seal)**	1937900000
Natural finish (unpainted)	
Standard (CR seal)	0342200000
Ex enclosure (silicone seal)	9526880000

## Note

The colours of painted enclosures may vary under certain circumstances.

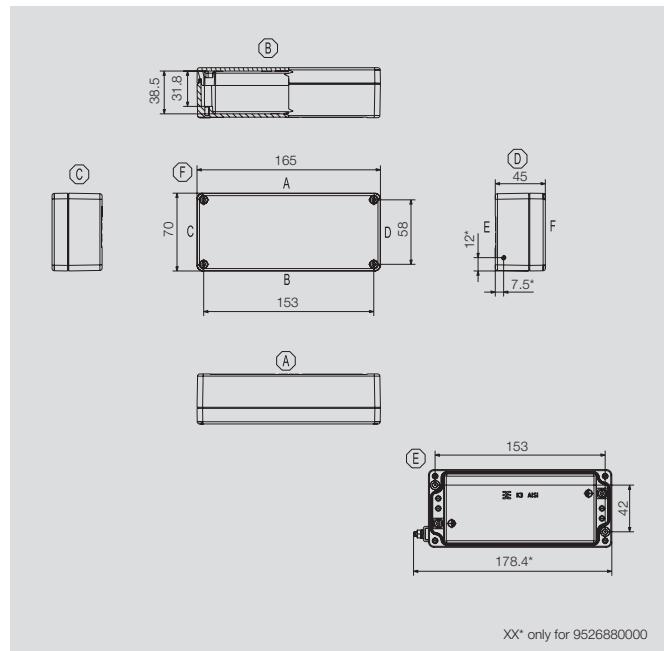
\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	15 mm width
	1910030000
Mounting plate	
	Steel sheet, galvanised
	1898210000
	More tightly drawn
	1899630000
Torx screwdriver	
	Uninsulated Torx TH20
	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	*
	4 mm <sup>2</sup>	*
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

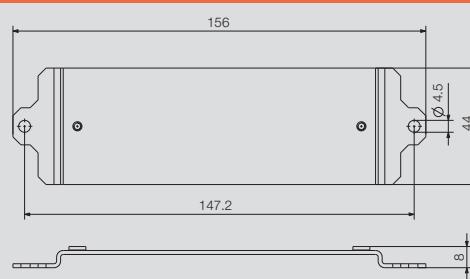
## Number of cable entries

Number of cable entries	A / B	C / D
	M12	6
	M16	5
	M20	4
	M25	
	M32	
	M40	
	M50	
	M63	

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 31

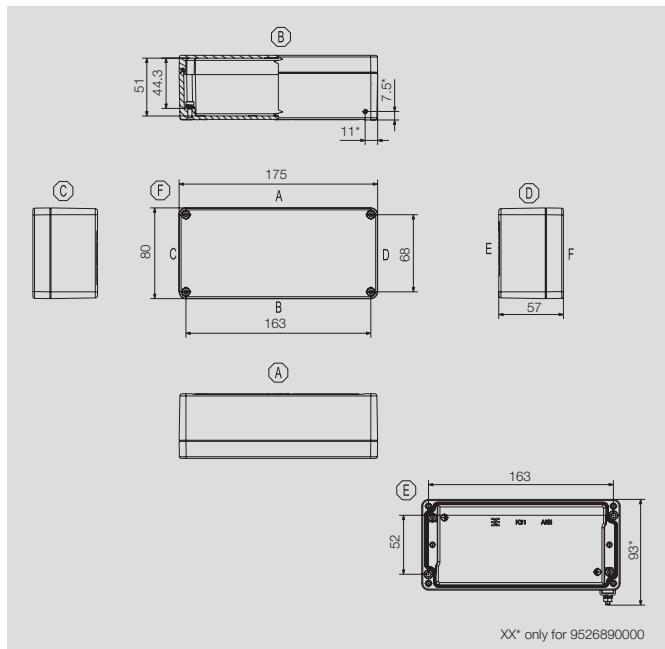


Height/Width/Depth

80 / 175 / 57 mm

Depth 57 mm

B



XX\* only for 9526890000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529170000
Standard (silicone seal)**	1937820000
Natural finish (unpainted)	
Standard (CR seal)	0573500000
Ex enclosure (silicone seal)	9526890000

## Note

The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910040000
Mounting plate	
	Steel sheet, galvanised 3073040000
Hinge, diecast zinc, Set	
	1580360000
Torx screwdriver	
	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	*	1x23
2.5 mm <sup>2</sup>	*	1x19
4 mm <sup>2</sup>		
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

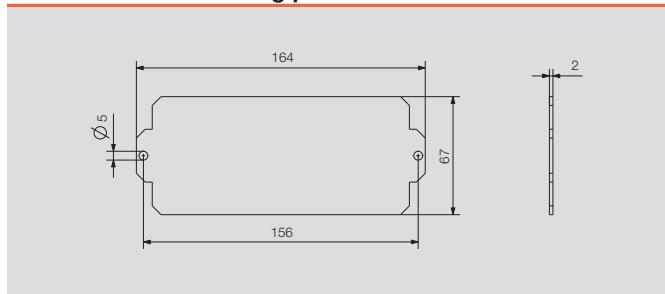
## Number of cable entries

Number of cable entries	A / B	C / D
M12	9	2
M16	6	2
M20	4	1
M25	3	
M32		
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 32

Depth 55 mm



Height/Width/Depth 80 / 250 / 55 mm

## Ordering data

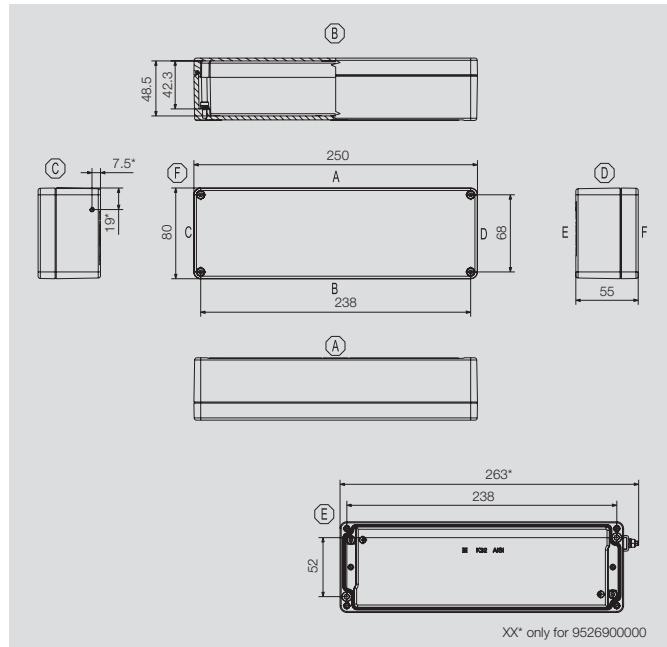
Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529180000
Standard (silicone seal)**	1937810000
Natural finish (unpainted)	
Standard (CR seal)	1565260000
Ex enclosure (silicone seal)	9526900000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910050000
Mounting plate	
	Steel sheet, galvanised 3073050000
Torx screwdriver	
	Uninsulated Torx TH20 9009160000

**Note** Accessories described above as sets, are supplied with fixing materials.



XX\*

only for 9526900000

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x38
4 mm <sup>2</sup>	*	1x32
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

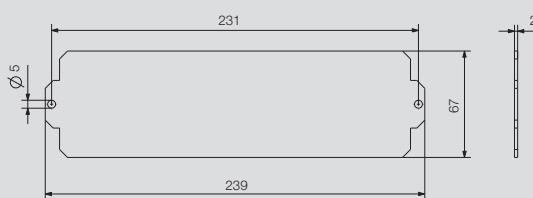
Number of cable entries	A / B	C / D
M12	15	2
M16	9	2
M20	7	1
M25	6	
M32		
M40		
M50		
M63		



## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 4

Depth 72 mm



Height/Width/Depth 82 / 130 / 72 mm

## Ordering data

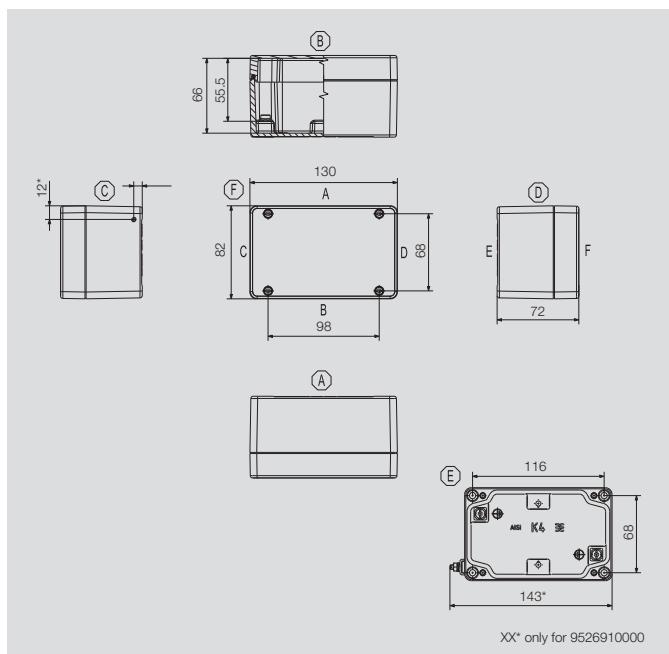
Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529190000
Standard (silicone seal)**	1937890000
Natural finish (unpainted)	
Standard (CR seal)	0342300000
Ex enclosure (silicone seal)	9526910000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910060000
Mounting plate	
	Steel sheet, galvanised 3073060000
Hinge, diecast zinc, Set	
	1580360000
Torx screwdriver	
	Uninsulated Torx TH20 9009160000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.



XX\* only for 9526910000

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2,5 mm <sup>2</sup>	1x5
	4 mm <sup>2</sup>	1x4
	6 mm <sup>2</sup>	1x3
	10 mm <sup>2</sup>	1x2
	16 mm <sup>2</sup>	*



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2,5 1020000000 / (tension clamp terminals) ZDU 2,5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for horizontal installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a horizontal position.

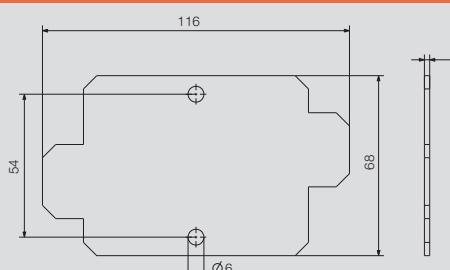
## Number of cable entries

Number of cable entries	A / B	C / D
M12	2	5
M16	2	3
M20	1	2
M25	1	2
M32	1	
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 41

Depth 81 mm



Height/Width/Depth

120 / 122 / 81 mm

XX\* only for 9526920000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529200000
Standard (silicone seal)**	1937800000
Natural finish (unpainted)	
Standard (CR seal)	1565270000
Ex enclosure (silicone seal)	9526920000

## Note

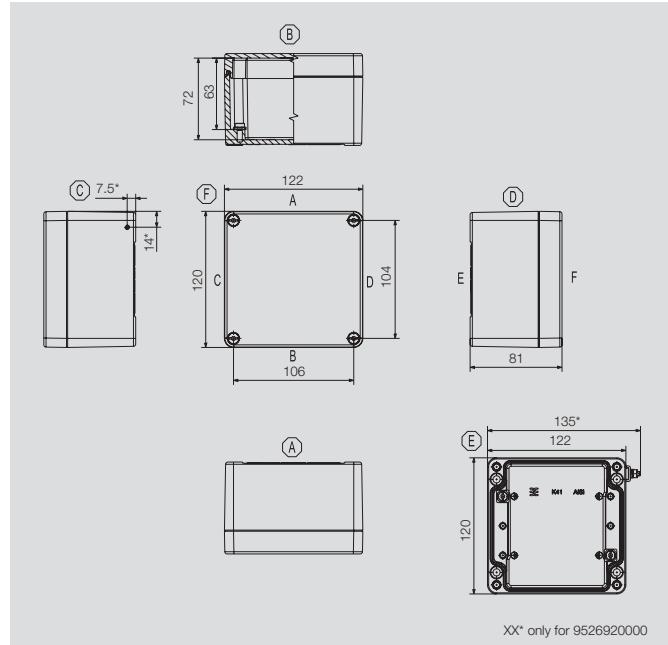
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910070000
Earth bar, Set	9511200000
Mounting plate	Steel sheet, galvanised 3073070000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
Torx screwdriver	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x13
4 mm <sup>2</sup>	*	1x11
6 mm <sup>2</sup>		1x8
10 mm <sup>2</sup>		1x6
16 mm <sup>2</sup>		

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

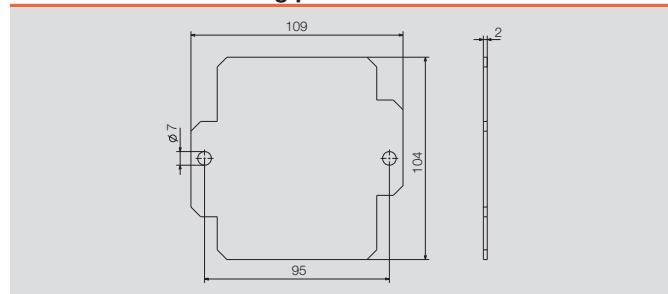
## Number of cable entries

Number of cable entries	A / B	C / D
M12	6	4
M16	6	4
M20	3	2
M25	2	1
M32	1	1
M40		
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 5

Depth 90 mm



Height/Width/Depth 130 / 170 / 90 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529210000
Standard (silicone seal)**	1937860000
Natural finish (unpainted)	
Standard (CR seal)	0342400000
Ex enclosure (silicone seal)	9526930000

## Note

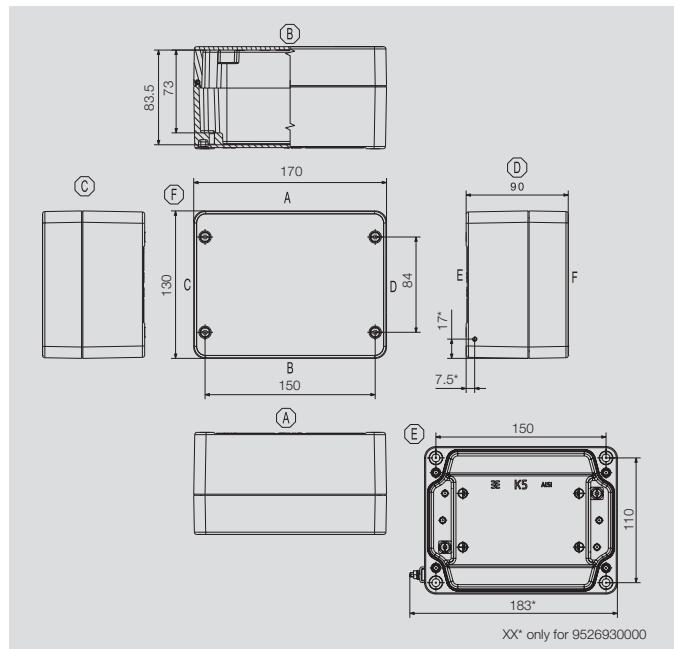
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910080000
Earth bar, Set	9511220000
Mounting plate	Steel sheet, galvanised 3073080000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9529080000
Torx screwdriver	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x20
4 mm <sup>2</sup>	*	1x16
6 mm <sup>2</sup>		1x12
10 mm <sup>2</sup>		1x10
16 mm <sup>2</sup>		1x8



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations:

TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000

\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

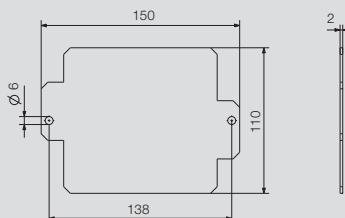
## Number of cable entries

Number of cable entries	A / B	C / D
M12	11	4
M16	8	2
M20	4	1
M25	3	1
M32	2	1
M40		
M50		
M63		

## Note

\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 51

Depth 81 mm



Height/Width/Depth

120 / 220 / 81 mm

XX\* only for 9526940000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529220000
Standard (silicone seal)**	1937750000
Natural finish (unpainted)	
Standard (CR seal)	1565280000
Ex enclosure (silicone seal)	9526940000

## Note

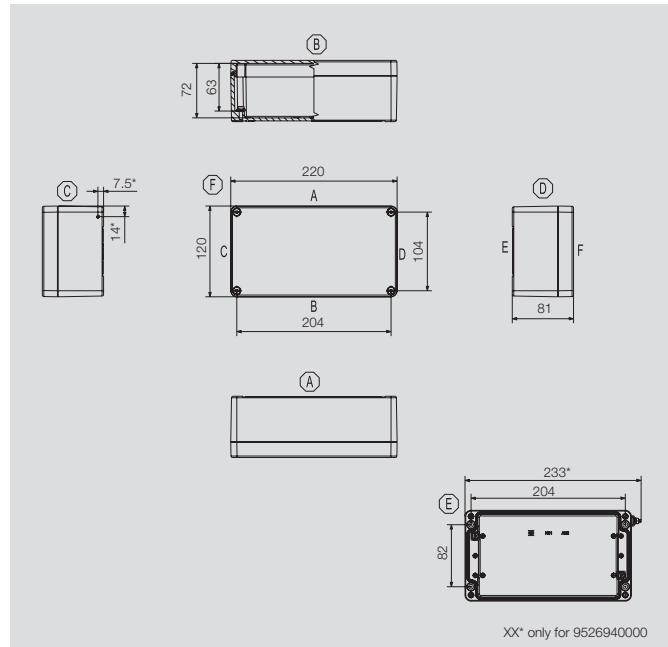
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910090000
Earth bar, Set	9511210000
Mounting plate	
Steel sheet, galvanised	3073090000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
Torx screwdriver	
Uninsulated Torx TH20	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x31
4 mm <sup>2</sup>	*	1x26
6 mm <sup>2</sup>		1x19
10 mm <sup>2</sup>		1x15
16 mm <sup>2</sup>		



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

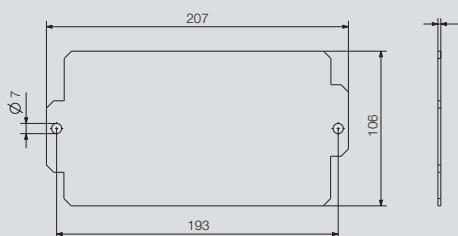
## Number of cable entries

Number of cable entries	A / B	C / D
M12	23	6
M16	14	3
M20	8	2
M25	5	1
M32	3	1
M40	3	
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 52

Depth 91 mm

**B**

Height/Width/Depth

160 / 160 / 91 mm

XX\* only for 9526950000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529230000
Standard (silicone seal)**	1937740000
Natural finish (unpainted)	
Standard (CR seal)	1565290000
Ex enclosure (silicone seal)	9526950000

## Note

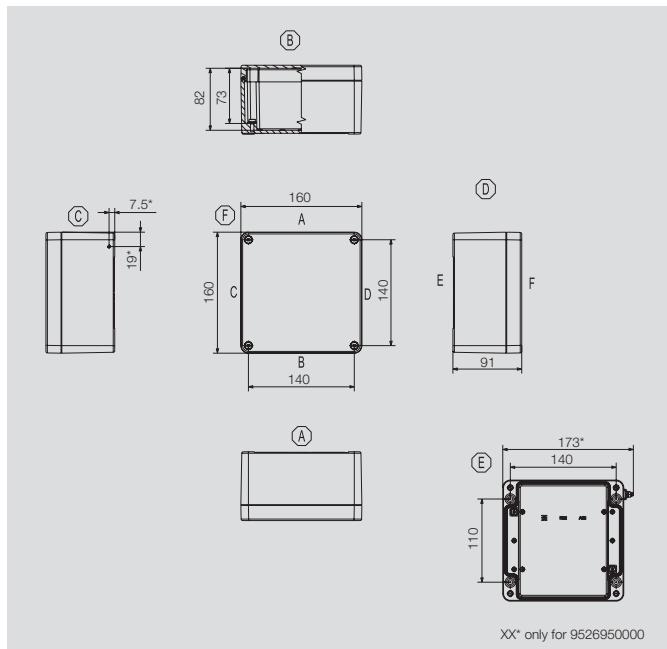
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910100000
Earth bar, Set	9511220000
Mounting plate	
Steel sheet, galvanised	3073100000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
Torx screwdriver	
Uninsulated Torx TH20	9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x18
4 mm <sup>2</sup>	*	1x15
6 mm <sup>2</sup>		1x11
10 mm <sup>2</sup>		1x9
16 mm <sup>2</sup>		



## Note

The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 12 or BK 12 CRN (0625320000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

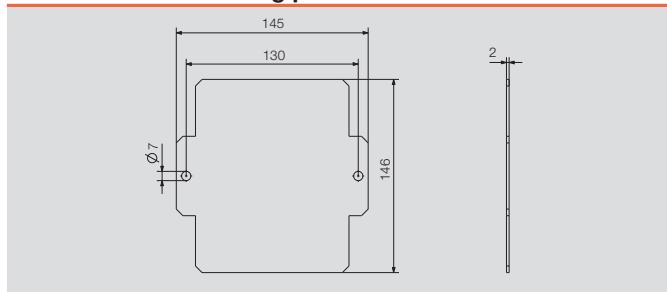
## Number of cable entries

Number of cable entries	A / B	C / D
M12	14	8
M16	8	5
M20	5	3
M25	3	2
M32	2	1
M40	1	
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 6

Depth 100 mm



Height/Width/Depth 160 / 200 / 100 mm

## Ordering data

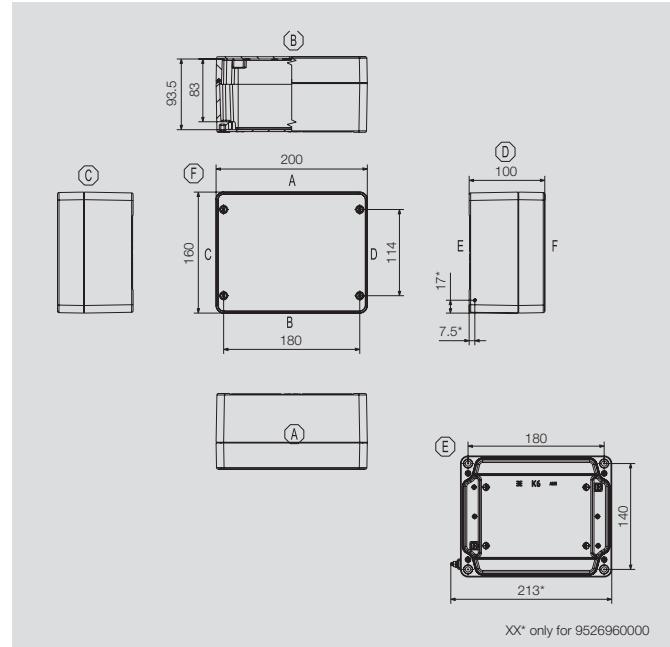
Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529240000
Standard (silicone seal)**	1937870000
Natural finish (unpainted)	
Standard (CR seal)	0342500000
Ex enclosure (silicone seal)	9526960000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910110000
Earth bar, Set	9525020000
Mounting plate	Steel sheet, galvanised 3073110000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9529080000
Torx screwdriver	Uninsulated Torx TH20 9009160000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x25
4 mm <sup>2</sup>	*	1x21
6 mm <sup>2</sup>		1x15
10 mm <sup>2</sup>		1x12
16 mm <sup>2</sup>		1x10



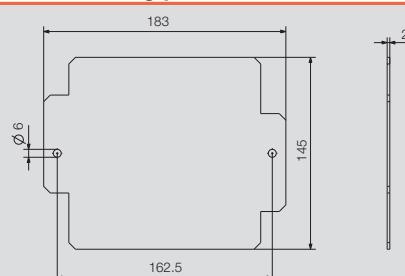
**Note** The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 12 or BK 12 CRN (0625320000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	17	6
M16	12	6
M20	7	3
M25	4	2
M32	3	2
M40	2	1
M50		
M63		

**Note** \*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 61

Depth 91 mm



Height/Width/Depth 160 / 260 / 91 mm

XX\* only for 9526970000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529250000
Standard (silicone seal)**	1937730000
Natural finish (unpainted)	
Standard (CR seal)	0573600000
Ex enclosure (silicone seal)	9526970000

## Note

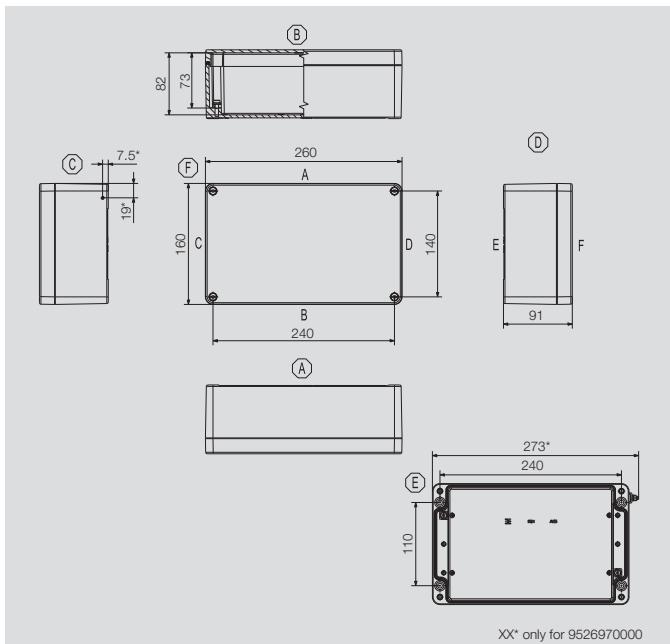
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910120000
Earth bar, Set	9511230000
Mounting plate	Steel sheet, galvanised 3073120000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
Torx screwdriver	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x38
4 mm <sup>2</sup>	*	1x32
6 mm <sup>2</sup>		1x24
10 mm <sup>2</sup>		1x19
16 mm <sup>2</sup>		1x16



## Note

The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 12 or BK 12 CRN (0625320000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

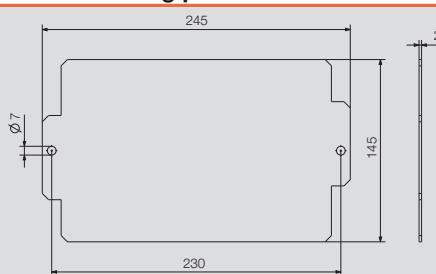
## Number of cable entries

Number of cable entries	A / B	C / D
M12	27	8
M16	23	6
M20	13	3
M25	8	2
M32	4	1
M40	3	1
M50		
M63		

## Note

\*\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K 7

Depth 100 mm



Height/Width/Depth 160 / 350 / 100 mm

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529260000
Standard (silicone seal)**	1937880000
Natural finish (unpainted)	
Standard (CR seal)	0342600000
Ex enclosure (silicone seal)	9526980000

## Note

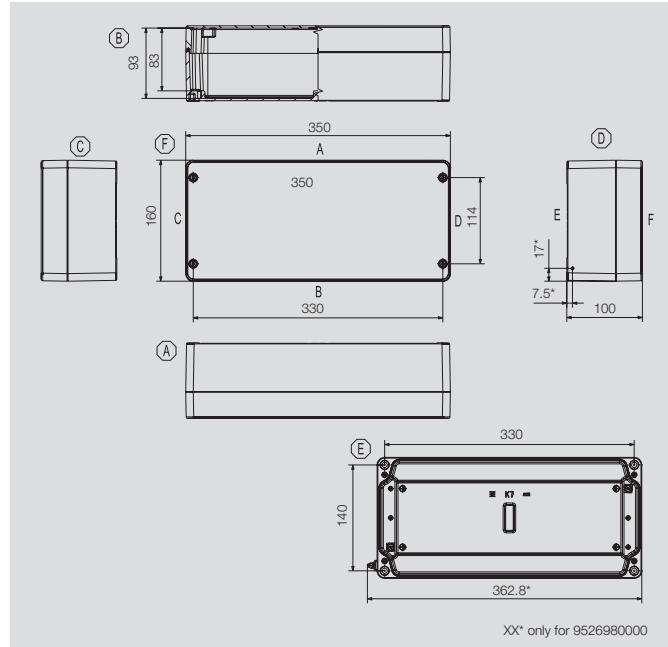
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910130000
Earth bar, Set	9525030000
Mounting plate	Steel sheet, galvanised 3073130000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9529080000
Torx screwdriver	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x55
4 mm <sup>2</sup>	*	1x46
6 mm <sup>2</sup>		1x34
10 mm <sup>2</sup>		1x27
16 mm <sup>2</sup>		1x23



## Note

The mounting rails are designed to be installed directly. Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail. Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 12 or BK 12 CRN (0625320000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

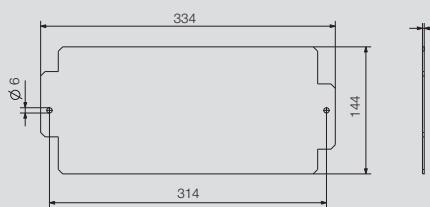
## Number of cable entries

Number of cable entries	A / B	C / D
M12	42	8
M16	26	6
M20	17	3
M25	10	2
M32	6	2
M40	5	1
M50		
M63		

## Note

\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate



## Klippon® K - Aluminium enclosures

## Klippon® K 71

Depth 111 mm



Height/Width/Depth

230 / 280 / 111 mm

XX\* only for 9526990000

## Ordering data

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529270000
Standard (silicone seal)**	1937720000
Natural finish (unpainted)	
Standard (CR seal)	0573700000
Ex enclosure (silicone seal)	9526990000

## Note

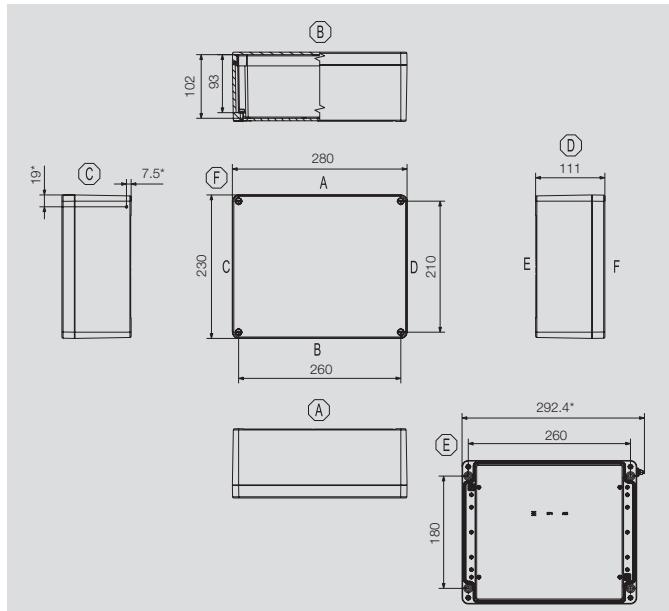
The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Accessories

Terminal rail, Set	Order No.
	35 mm width 1910140000
Earth bar, Set	9511190000
Mounting plate	Steel sheet, galvanised 3073140000
Hinge, diecast zinc, Set	1580360000
External mounting feet, set of 4	9527590000
Torx screwdriver	Uninsulated Torx TH20 9009160000

## Note

Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.

## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x42
4 mm <sup>2</sup>	*	2x35
6 mm <sup>2</sup>		2x26
10 mm <sup>2</sup>		2x21
16 mm <sup>2</sup>		



## Note

The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 12 or BK 12 CRN (0625320000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

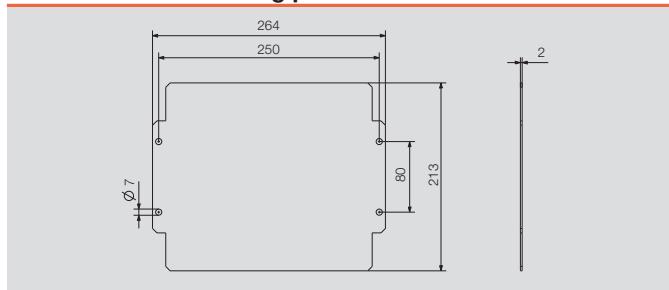
## Number of cable entries

Number of cable entries	A / B	C / D
M12	42	28
M16	30	18
M20	21	10
M25	12	8
M32	10	3
M40	4	2
M50	3	2
M63		

## Note

\*Our IP68 brass cable glands are used as the reference for these guideline values.

## Dimensions of mounting plate





# Polyester enclosures

The Klippon® POK range is based on a high-quality glass fibre-reinforced polyester enclosure which represents an economical solution for electrical connections. The enclosures are ideal wherever corrosion resistance, impact resistance and a high IP protection class are required.

Features of the enclosure range:

- 17 sizes and 2 versions
- Stainless Steel lid screws
- Fixing holes located outside the sealed area
- Threaded holes for mounting rails
- Approved to the latest international standards

Our assembly service can supply these enclosures preassembled with terminals and cable glands according to customer requirements.



## Overview of enclosures

### Ordering data

Description	Dimensions	Standard	Ex Enclosures
Klippon® POK 1	75 x 80 x 56	1277200000	9510210000
Klippon® POK 2	75 x 110 x 55	1277300000	9510220000
Klippon® POK 3	75 x 160 x 55	1277400000	9510320000
Klippon® POK31	75 x 190 x 55	1565400000	9510330000
Klippon® POK 32	75 x 230 x 55	9510510000	9510340000
Klippon® POK 4	120 x 122 x 91	1277500000	9510230000
Klippon® POK 5	120 x 220 x 91	1277600000	9510240000
Klippon® POK 51	160 x 160 x 90	1565410000	9510250000
Klippon® POK 6	160 x 260 x 90	1277700000	9510260000
Klippon® POK 7	160 x 360 x 90	1277800000	9510270000
Klippon® POK71	160 x 560 x 90	9510520000	9510350000
Klippon® POK 8	250 x 255 x 120	1565420000	9510280000
Klippon® POK 9	250 x 400 x 120	1565430000	9510290000
Klippon® POK 91	250 x 600 x 120	9510470000	9510300000
Klippon® POK 10	405 x 400 x 120	1565440000	9510310000
Klippon® POK 11	250 x 255 x 160	9510530000	9510360000
Klippon® POK 12	250 x 400 x 160	9510540000	9510370000

## Technical Overview

### Features

- for use in hazardous area and industrial applications

• Extremely robust and impact resistant due to the high amount of glass fibre

- Approved to the latest international standards (e.g. ATEX, cULus, GOST)

**Note:** The enclosure range Klippon® POK can be assembled with terminals or other approved equipment by our Application-Specific Solutions service.

### Technical data

	Ex	Standard
Enclosure material	Glass fibre-reinforced polyester to DIN 16913 with added graphite	Glass fibre-reinforced polyester to DIN 16913
Surface	Black, similar to RAL 9011	Grey, similar to RAL7001
IP Rating	IP 66	IP 66
Equipment mounting	M4 to M6 threaded bushes	M4 to M6 threaded bushes
Enclosure mounting	4 holes for M4 to M6 screw	4 holes for M4 to M6 screws
Lid fixing	M4/M6 slothead / crosshead screws from stainless steel	M4/M6 slothead / crosshead screws from stainless steel
Impact Resistance	7J	7J
Gasket material	Silicone (VMQ)	Chloroprene
Temperature range	-55 °C...+100 °C	-40 °C...+90 °C
Torque screws of lid M4*	2.0 - 2.5 Nm	2.0 - 2.5 Nm
Torque screws of lid M6*	2.5 - 3.0 Nm	2.5 - 3.0 Nm
Flammability	UL94 VO	UL94 VO
Toxicity	Halogen and cadmium-free	Halogen and cadmium-free

**Note:** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

\* Depending on the screw head size, the lid can be fastened using either our slotted or cross-head screwdrivers (see chapter G)

### Approvals for empty enclosures

	Ex	Standard
ATEX certificate	KEMA 02ATEX2078 U	
ATEX marking	II 2 GD Ex e II	
GOST Ex	POCC DE.ME92.B01149	
GOST	POCC DE.ME25.B01450	POCC DE.ME25.B01450
cULus		E 223801
Lloyds Register		07/20008
Russian Maritime Register	11040200	11040200
Germanischer Lloyd		4453607 HH
Installation	The Klippon® POK enclosure series can be pre-fitted in our customer specific production department according to your wishes; as an example, terminals, or other approved components, can be installed as required.	

**Note:** This enclosure range is component certified. An additional certifications is required, when other electronic equipment will be installed into the enclosure.

### Approvals terminal enclosures

	Ex	Standard
ATEX certificate	KEMA 03ATEX2077	
ATEX marking	II 2 GD T85°C/T100°C Ex e II T6/T5 II 2 (1) GD T85°C/T100°C Ex e [ia] IIC T6/T5 II GD T85°C/T100°C Ex ia IIC T6/T5 IP64/IP65/IP66	

**Note:** If you have specific requirements of equipment in hazardous area applications, please contact Weidmüller to get a copy of the complete certificates.

## Klippon® POK - Polyester enclosures

## Klippon® POK 1

Depth 56 mm



Height/Width/Depth 75 / 80 / 56 mm

## Ordering data

RAL 7001	Order No.
	Standard, grey 1277200000
RAL 9011	

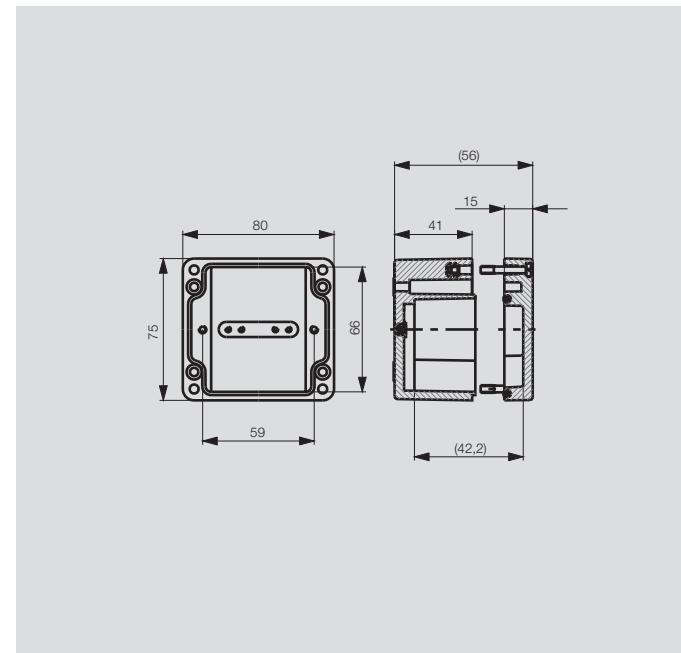
Enclosure for hazardous areas (Ex), black	9510210000
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**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928060000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510570000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000 20 mm length 3896200000 30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9510990000
<b>External mounting feet, set of 4</b>	9510900000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	2.5 mm <sup>2</sup>	1x1*
	4 mm <sup>2</sup>	1x1*
	6 mm <sup>2</sup>	1x4
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	4
	M16	2
	M20	1
	M25	1
	M32	
	M40	
	M50	
	M63	

## Note

\*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 2

Depth 56 mm



Height/Width/Depth 75 / 110 / 56 mm

## Ordering data

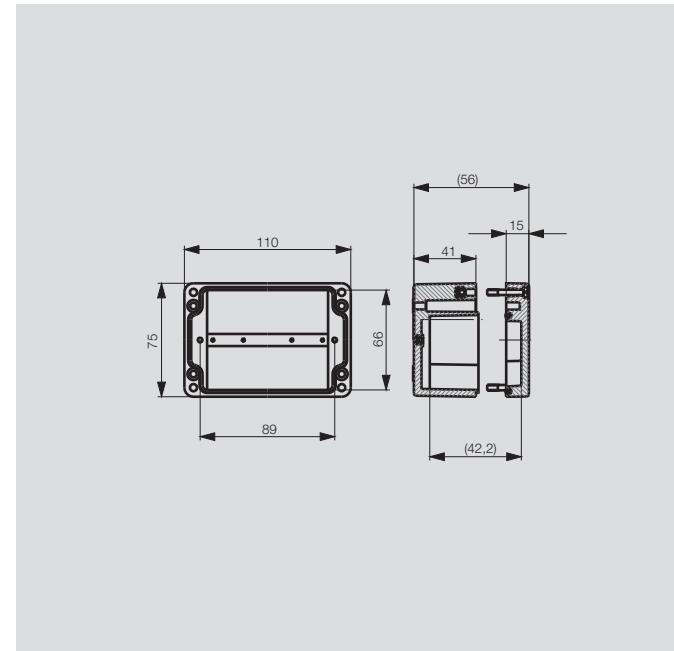
RAL 7001	Order No.
Standard, grey	1277300000
RAL 9011	

Note	The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.
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## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928060000
Mounting plate	
	Steel sheet, galvanised 9510570000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	1580360000
Brass plate, cruciform	9510990000
External mounting feet, set of 4	9510900000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	1x1*	1x10
4 mm <sup>2</sup>	1x1*	1x9
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	7	1
M16	3	1
M20	2	1
M25	2	
M32		
M40		
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK - Polyester enclosures

## Klippon® POK 3

Depth 56 mm



Height/Width/Depth 75 / 160 / 56 mm

## Ordering data

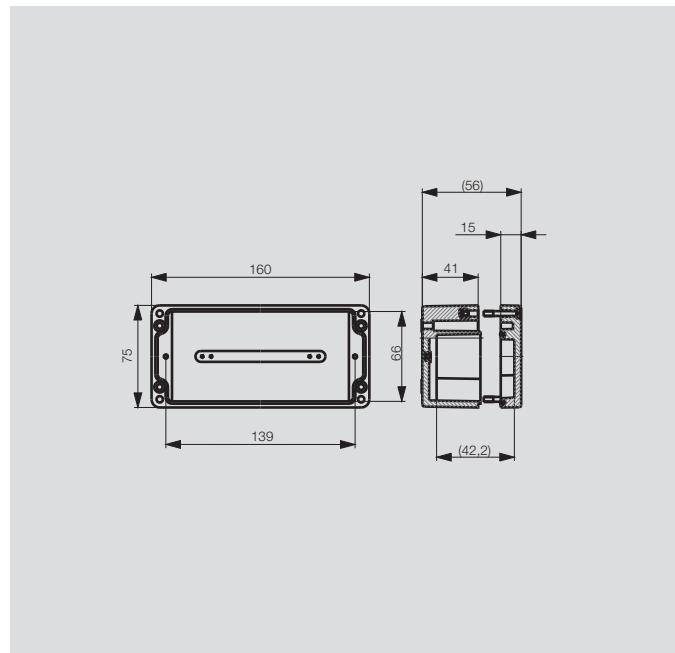
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 1277400000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510320000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928080000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510680000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000 20 mm length 3896200000 30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9511010000
<b>External mounting feet, set of 4</b>	9510900000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x20
4 mm <sup>2</sup>	*	1x17
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		



**Note** \*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	11	1
M16	5	1
M20	4	1
M25	3	
M32		
M40		
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 31

Depth 56 mm



Height/Width/Depth 75 / 190 / 56 mm

## Ordering data

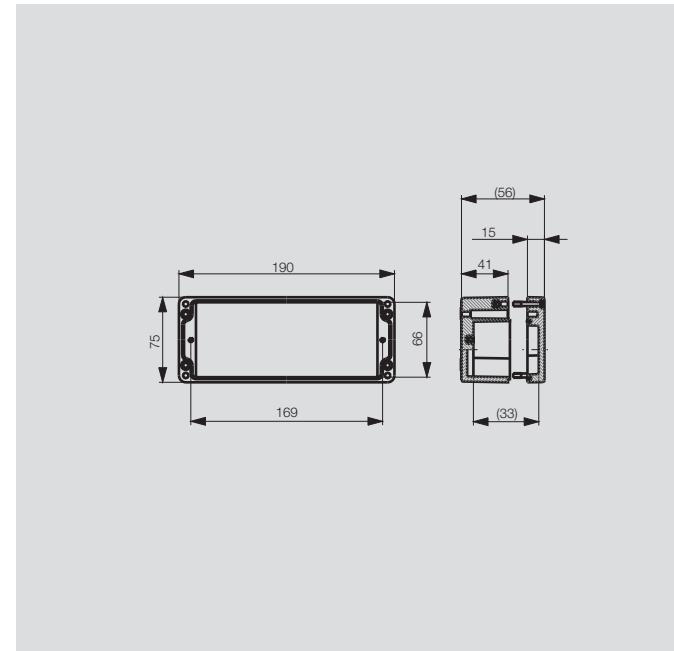
RAL 7001	Order No.
Standard, grey	1565400000
RAL 9011	

Note	The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.
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## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928080000
Mounting plate	
	Steel sheet, galvanised 9510690000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	
	1580360000
Brass plate, cruciform	
	9511020000
External mounting feet, set of 4	
	9510900000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only one hinge is required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	*	1x26
	*	1x22
	2.5 mm <sup>2</sup>	
	4 mm <sup>2</sup>	
	6 mm <sup>2</sup>	
	10 mm <sup>2</sup>	
	16 mm <sup>2</sup>	

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	14
	M16	6
	M20	5
	M25	4
	M32	
	M40	
	M50	
	M63	

## Note

\*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 32

Depth 56 mm



Height/Width/Depth 75 / 230 / 56 mm

## Ordering data

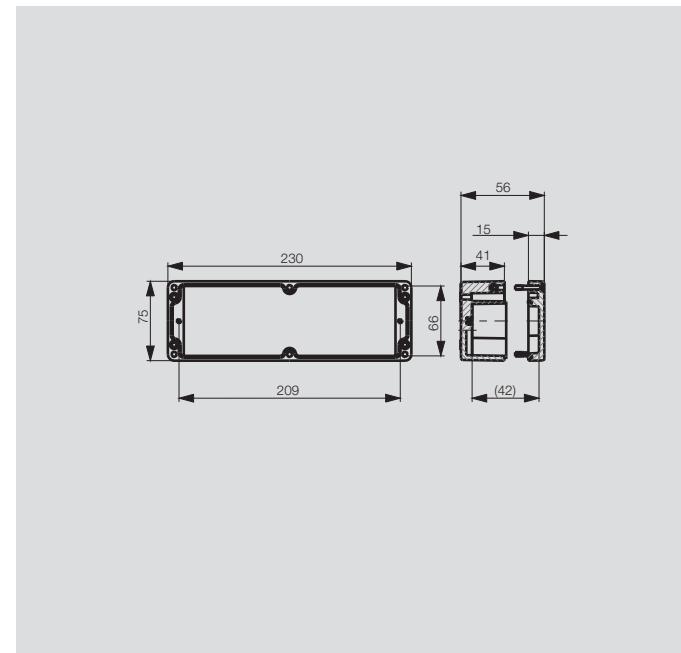
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 9510510000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	9510340000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928100000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510700000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9511030000
<b>External mounting feet, set of 4</b>	9510900000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
	*	1x33
2.5 mm <sup>2</sup>	*	1x28
4 mm <sup>2</sup>		
6 mm <sup>2</sup>		
10 mm <sup>2</sup>		
16 mm <sup>2</sup>		

## Note

\*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (0625220000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	16
	M16	6
	M20	6
	M25	4
	M32	
	M40	
	M50	
	M63	

## Note

\*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 4

Depth 91 mm



Height/Width/Depth 120 / 122 / 91 mm

## Ordering data

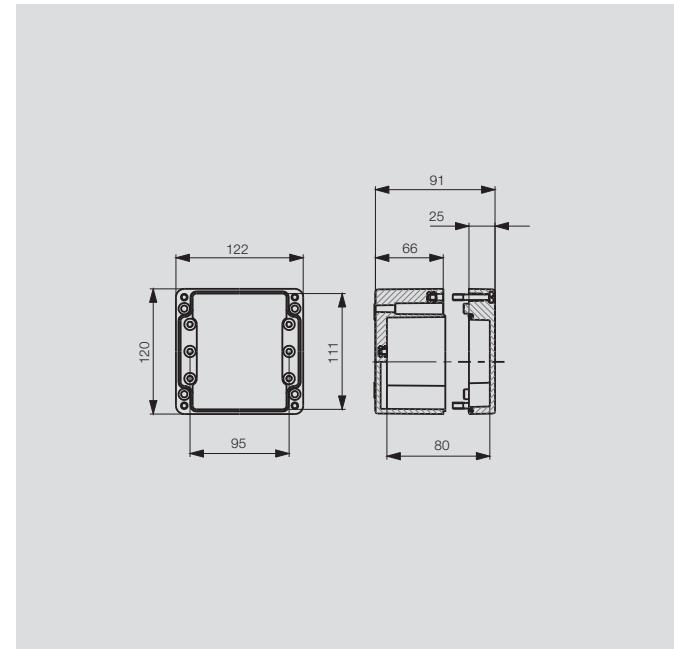
RAL 7001	Order No.
Standard, grey	1277500000
RAL 9011	
Enclosure for hazardous areas (Ex), black	9510230000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928110000
Mounting plate	
	Steel sheet, galvanised 9510590000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	
	1580360000
Brass plate, cruciform	
	9511040000
External mounting feet, set of 4	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x12
4 mm <sup>2</sup>	*	1x10
6 mm <sup>2</sup>	*	1x7
10 mm <sup>2</sup>	*	1x6
16 mm <sup>2</sup>	*	1x5



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	12	8
M16	6	4
M20	4	3
M25	5	1
M32	4	1
M40		
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 5

Depth 91 mm

B



Height/Width/Depth 120 / 220 / 91 mm

## Ordering data

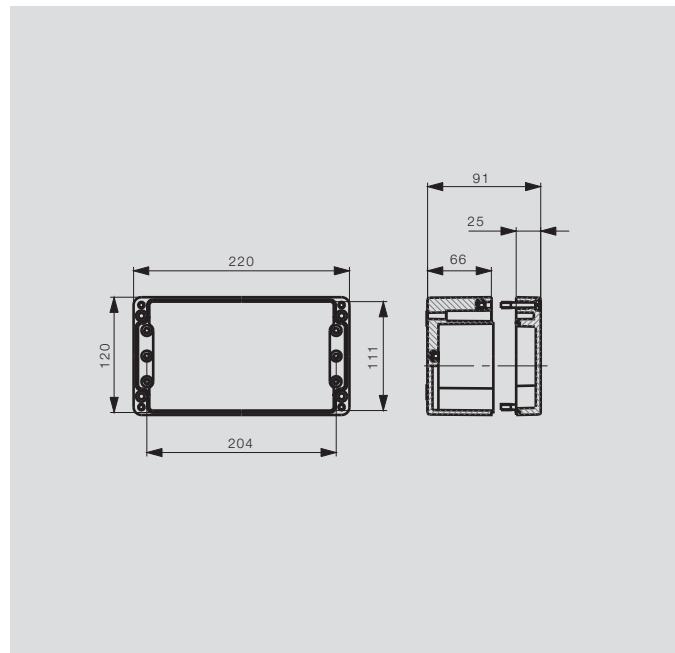
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 1277600000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510240000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

<b>Terminal rail, Set</b>	<b>Order No.</b>
	15 mm width 1928120000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510600000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	
	1580360000
<b>Brass plate, cruciform</b>	
	9511050000
<b>External mounting feet, set of 4</b>	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x31
4 mm <sup>2</sup>	*	1x26
6 mm <sup>2</sup>	*	1x19
10 mm <sup>2</sup>	*	1x15
16 mm <sup>2</sup>	*	1x13



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	24	8
M16	14	4
M20	12	3
M25	5	1
M32	4	1
M40	3	
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 51

Depth 90 mm



Height/Width/Depth 160 / 160 / 90 mm

## Ordering data

RAL 7001	Order No.
Standard, grey	1565410000
<b>RAL 9011</b>	

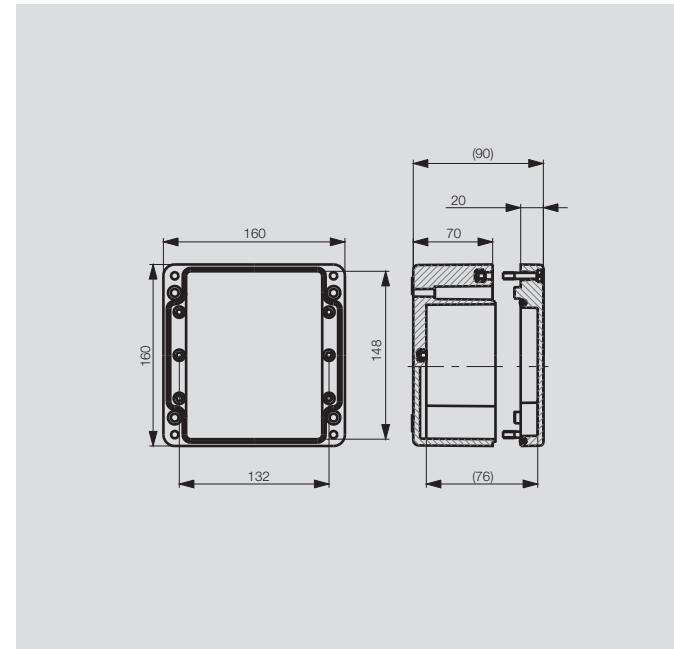
Enclosure for hazardous areas (Ex), black	9510250000
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**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928130000
Mounting plate	
	Steel sheet, galvanised 9510610000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	
	1580360000
Brass plate, cruciform	
	9511060000
External mounting feet, set of 4	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x17
4 mm <sup>2</sup>	*	1x14
6 mm <sup>2</sup>	*	1x11
10 mm <sup>2</sup>	*	1x9
16 mm <sup>2</sup>	*	1x7



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	15	11
M16	12	6
M20	6	4
M25	3	2
M32	2	2
M40	2	1
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK - Polyester enclosures

## Klippon® POK 6

Depth 90 mm



Height/Width/Depth 160 / 260 / 90 mm

## Ordering data

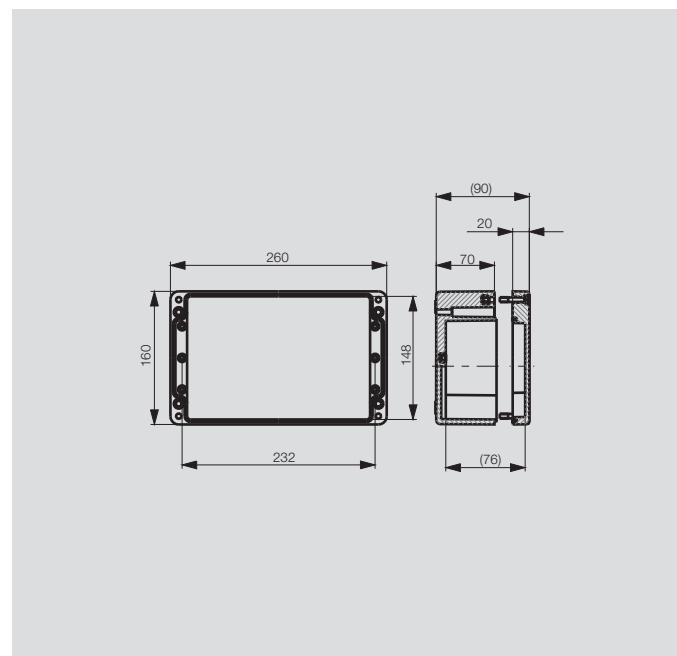
<b>RAL 7001</b>	Order No.
	Standard, grey 1277700000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510260000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928140000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510620000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9511070000
<b>External mounting feet, set of 4</b>	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x36
4 mm <sup>2</sup>	*	1x30
6 mm <sup>2</sup>	*	1x23
10 mm <sup>2</sup>	*	1x16
16 mm <sup>2</sup>	*	1x16



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	30
	M16	24
	M20	14
	M25	5
	M32	4
	M40	3
	M50	2
	M63	1

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 7

Depth 90 mm



Height/Width/Depth 160 / 360 / 90 mm

## Ordering data

<b>RAL 7001</b>	Order No.
	Standard, grey 1277800000
<b>RAL 9011</b>	

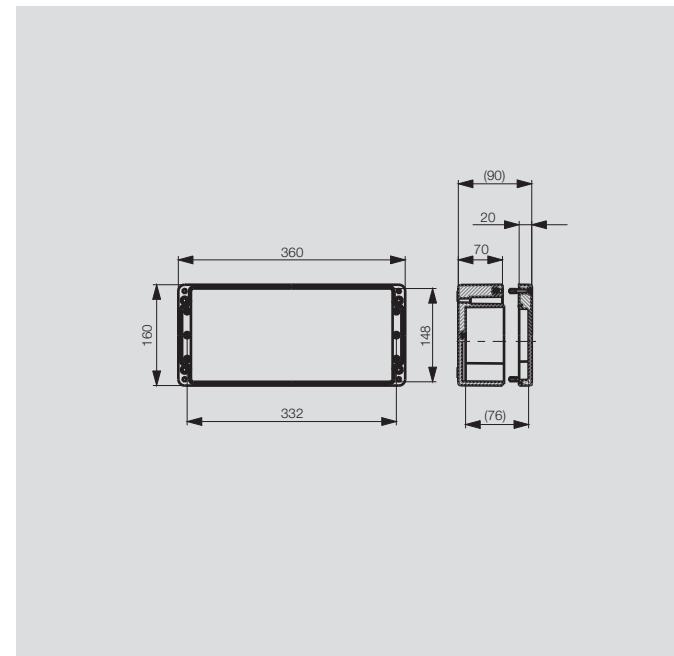
<b>RAL 9011</b>	Enclosure for hazardous areas (Ex), black 9510270000
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**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

<b>Terminal rail, Set</b>	Order No.
	15 mm width 1928150000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510630000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	
	1580360000
<b>Brass plate, cruciform</b>	
	9511080000
<b>External mounting feet, set of 4</b>	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x56
4 mm <sup>2</sup>	*	1x47
6 mm <sup>2</sup>	*	1x36
10 mm <sup>2</sup>	*	1x29
16 mm <sup>2</sup>	*	1x24



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	45	11
M16	36	6
M20	20	4
M25	8	2
M32	6	2
M40	5	1
M50		
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK - Polyester enclosures

## Klippon® POK 71

Depth 90 mm



Height/Width/Depth 160 / 560 / 90 mm

## Ordering data

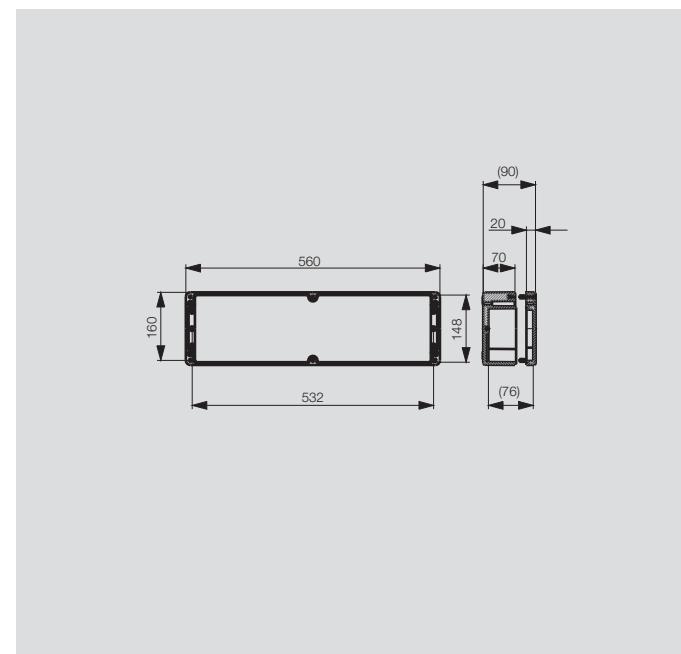
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 9510520000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	9510350000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928160000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510710000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	
	1580360000
<b>Brass plate, cruciform</b>	
	9511090000
<b>External mounting feet, set of 4</b>	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	1x94
4 mm <sup>2</sup>	*	1x79
6 mm <sup>2</sup>	*	1x60
10 mm <sup>2</sup>	*	1x49
16 mm <sup>2</sup>	*	1x41



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	66
	M16	58
	M20	32
	M25	12
	M32	10
	M40	8
	M50	1
	M63	

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 8

Depth 120 mm



Height/Width/Depth 250 / 255 / 120 mm

## Ordering data

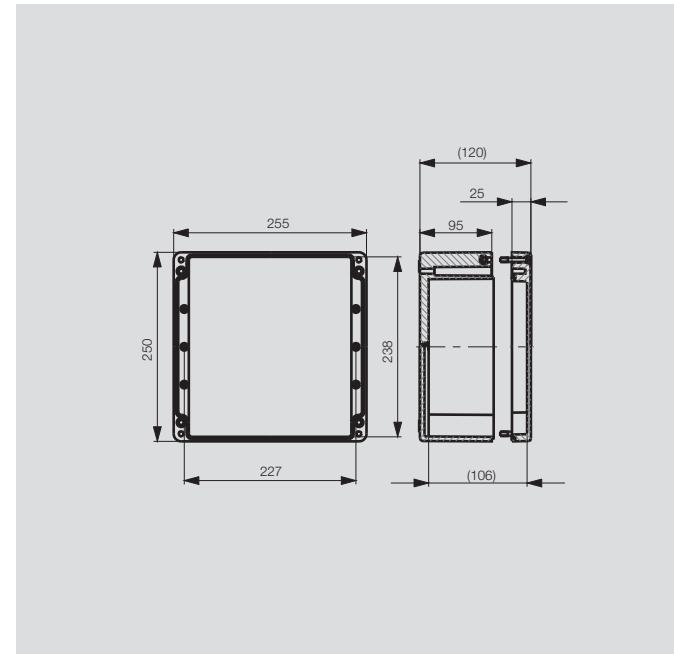
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 1565420000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510280000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928170000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510640000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000 20 mm length 3896200000 30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
	9511100000
<b>External mounting feet, set of 4</b>	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x38
4 mm <sup>2</sup>	*	2x31
6 mm <sup>2</sup>	*	2x23
10 mm <sup>2</sup>	*	2x19
16 mm <sup>2</sup>	*	2x15



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	36	32
M16	32	21
M20	10	15
M25	10	8
M32	8	3
M40	3	3
M50	2	2
M63		

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.



## Klippon® POK - Polyester enclosures

## Klippon® POK 9

Depth 120 mm



Height/Width/Depth 250 / 400 / 120 mm

## Ordering data

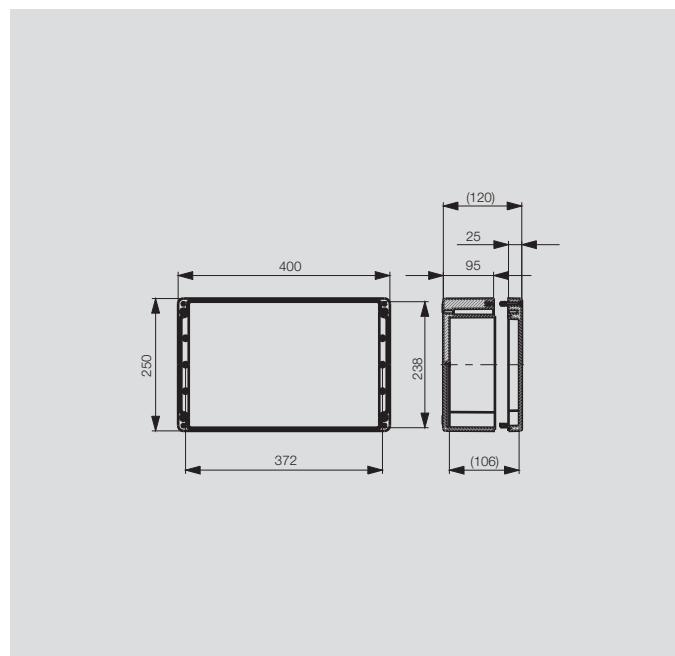
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 1565430000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510290000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928180000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510650000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9511110000
<b>External mounting feet, set of 4</b>	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x67
4 mm <sup>2</sup>	*	2x55
6 mm <sup>2</sup>	*	2x41
10 mm <sup>2</sup>	*	2x33
16 mm <sup>2</sup>	*	2x27



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	62	32
M16	54	21
M20	33	15
M25	18	8
M32	14	3
M40	6	3
M50	4	2
M63		

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.



## Klippon® POK 91

Depth 120 mm



Height/Width/Depth 250 / 600 / 120 mm

## Ordering data

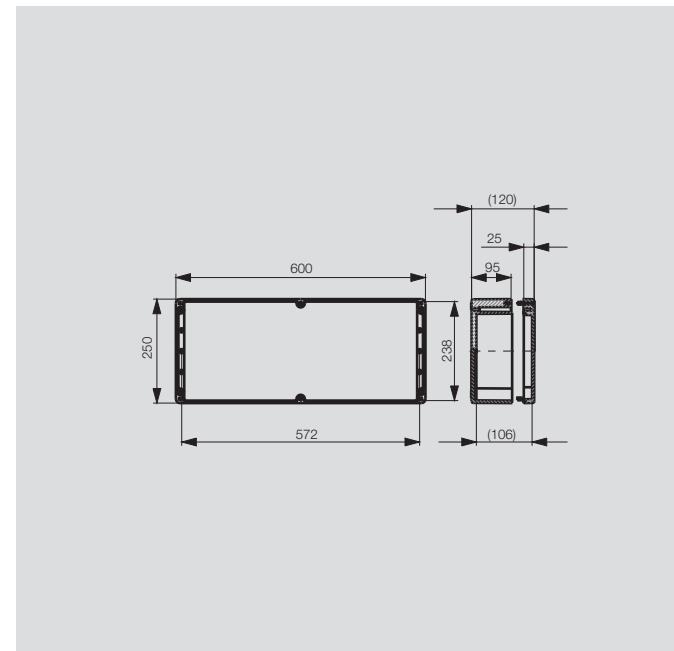
RAL 7001	Order No.
	Standard, grey 9510470000
RAL 9011	Enclosure for hazardous areas (Ex), black 9510300000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928190000
Mounting plate	
	Steel sheet, galvanised 9510660000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	
	1580360000
Brass plate, cruciform	
	9511120000
External mounting feet, set of 4	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x107
4 mm <sup>2</sup>	*	2x89
6 mm <sup>2</sup>	*	2x66
10 mm <sup>2</sup>	*	2x53
16 mm <sup>2</sup>	*	2x44



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	96	32
M16	80	21
M20	24	15
M25	20	8
M32	20	3
M40	8	3
M50	6	2
M63		

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.



## Klippon® POK - Polyester enclosures

## Klippon® POK 10

Depth 120 mm



Height/Width/Depth 405 / 400 / 120 mm

## Ordering data

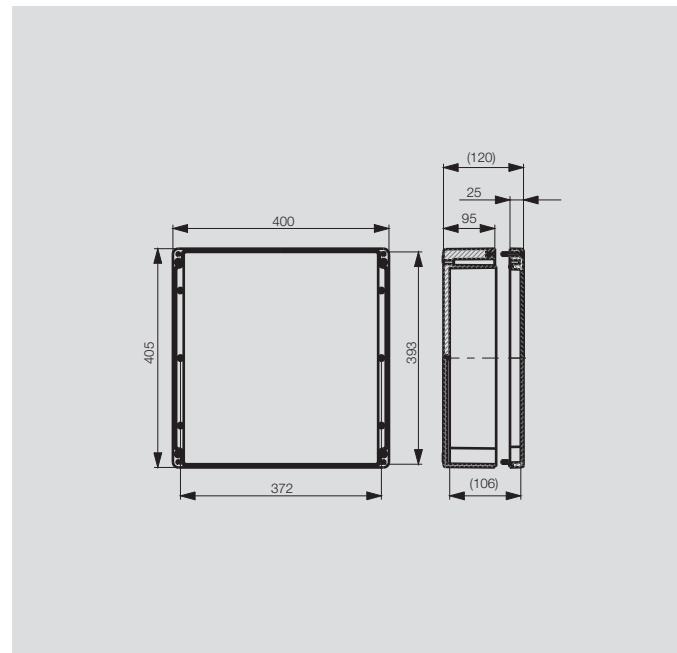
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 1565440000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	<b>9510310000</b>

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928180000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510670000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	1580360000
<b>Brass plate, cruciform</b>	9511130000
<b>External mounting feet, set of 4</b>	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	3x67
4 mm <sup>2</sup>	*	3x55
6 mm <sup>2</sup>	*	3x41
10 mm <sup>2</sup>	*	3x33
16 mm <sup>2</sup>	*	3x27



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no prescribed possible attachment points in the enclosures for vertical installations.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	62
	M16	54
	M20	33
	M25	18
	M32	14
	M40	6
	M50	4
	M63	4

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK 11

Depth 160 mm



Height/Width/Depth 250 / 255 / 160 mm

## Ordering data

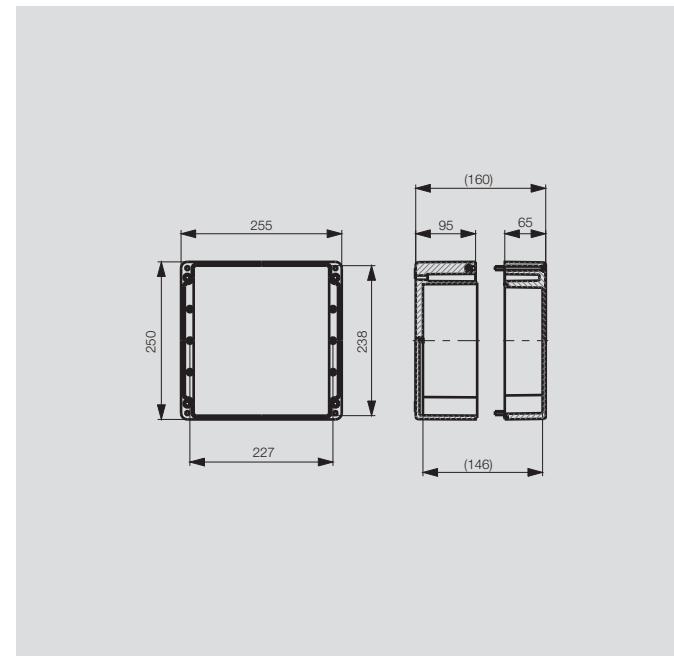
RAL 7001	Order No.
	Standard, grey 9510530000
RAL 9011	
Enclosure for hazardous areas (Ex), black	9510360000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928170000
Mounting plate	
	Steel sheet, galvanised 9510640000
Mild steel nickel plated Spacer M6 x 8, set of 2	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
Hinge, diecast zinc, Set	
	1580360000
Brass plate, cruciform	
	9511100000
External mounting feet, set of 4	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x38
4 mm <sup>2</sup>	*	2x31
6 mm <sup>2</sup>	*	2x23
10 mm <sup>2</sup>	*	2x19
16 mm <sup>2</sup>	*	2x15



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no prescribed possible attachment points in the enclosures for vertical installations.

## Number of cable entries

Number of cable entries	A / B	C / D
M12	36	32
M16	32	21
M20	18	15
M25	10	8
M32	8	3
M40	3	3
M50	2	2
M63		



**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.

## Klippon® POK - Polyester enclosures

## Klippon® POK 12

Depth 160 mm



Height/Width/Depth 250 / 400 / 160 mm

## Ordering data

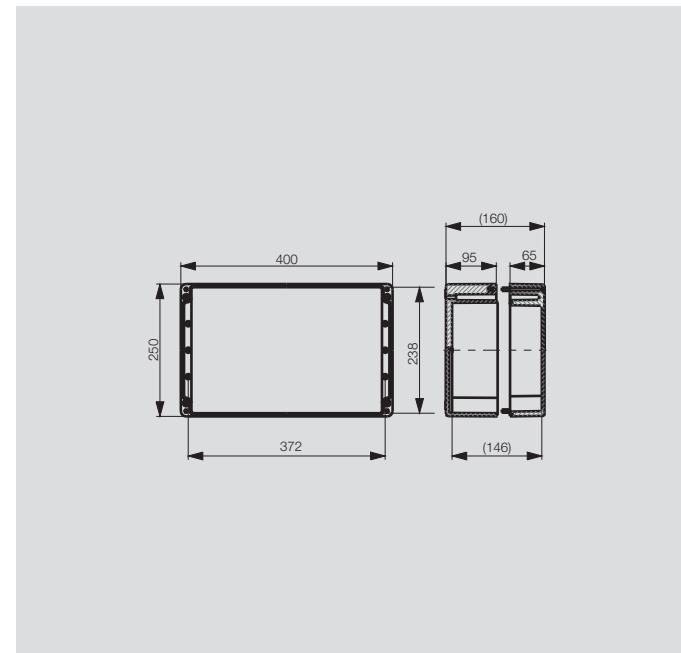
<b>RAL 7001</b>	<b>Order No.</b>
	Standard, grey 9510540000
<b>RAL 9011</b>	
Enclosure for hazardous areas (Ex), black	9510370000

**Note** The overview page lists the ambient temperatures.  
The colours of painted enclosures may vary under certain circumstances.

## Accessories

Terminal rail, Set	Order No.
	15 mm width 1928180000
<b>Mounting plate</b>	
	Steel sheet, galvanised 9510650000
<b>Mild steel nickel plated Spacer M6 x 8, set of 2</b>	
	15 mm length 3896100000
	20 mm length 3896200000
	30 mm length 3896300000
<b>Hinge, diecast zinc, Set</b>	
	1580360000
<b>Brass plate, cruciform</b>	
	9511110000
<b>External mounting feet, set of 4</b>	
	9510910000

**Note** Accessories described above as sets, are supplied with fixing materials.  
For this enclosure only two hinges are required to be fitted to the longest side.



## Max. number of terminals (industry)

Assembly with terminal	vertical	horizontal
2.5 mm <sup>2</sup>	*	2x67
4 mm <sup>2</sup>	*	2x55
6 mm <sup>2</sup>	*	2x41
10 mm <sup>2</sup>	*	2x33
16 mm <sup>2</sup>	*	2x27



**Note** The mounting rails are designed to be installed directly.  
Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.  
Ordering recommendations:  
TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals) ZDU 2.5 1608510000  
\*There are no prescribed possible attachment points in the enclosures for vertical installations.

## Number of cable entries

Number of cable entries	A / B	C / D
	M12	62
	M16	54
	M20	33
	M25	18
	M32	14
	M40	6
	M50	4
	M63	2

**Note** \*\*Our IP68 plastic cable glands fitted without a brass plate (cruciform) serve as a reference for these recommended values.



# Large polyester enclosures

The enclosures in the TBF series are made from sturdy glass-fibre reinforced polyester. They offer a universal solution for enclosing controllers, measuring instruments, valves and other devices.

Some of the many advantages of these cases are:

- Available in 9 sizes, with grey or transparent lids
- The lid has nylon screws fitted
- Mounting holes are outside the sealed area
- Thread for fitting to terminal rails and mounting plates

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Dimensions	Grey lid	Transparent lid
TBF 19/15	186 x 151 x 140	0360100000	0500500000
TBF 30/19	302 x 186 x 175	0360200000	0500600000
TBF 30/30	302 x 302 x 175	0360300000	0500700000
TBF 37/30	372 x 302 x 175	0360400000	0500800000
TBF 49/30	488 x 302 x 175 / 210	9502800000	9502800000
TBF 56/30	558 x 302 x 175 / 210	9502810000	9502810000
TBF 60/30	603 x 302 x 175 / 210	0360500000	0500900000
TBF 60/37	603 x 372 x 175 / 210	9502860000	9502860000
TBF 60/60	603 x 603 x 175 / 210	9502830000	9502870000

Note:

## Technical Overview

### Features

- Extremely tough and impact resistant thanks to the glass-fibre reinforced polyester
  - Extremely weather resistant
  - High IP rating
  - Approved according to the latest international standards (e.g. GOST)
- Note:** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

### Technical data

	<b>Grey lid</b>	<b>Transparent lid</b>
Enclosure material	Base and lid made of glass-fibre reinforced polyester (GRP)	Base made of glass-fibre reinforced polyester (GRP) Lid is polycarbonate (PC)
Surface finish	grey, similar to RAL 7035	
IP protection class	IP 67	IP 66
Installation mounting	4 or 6 M4 clamping screws	4 or 6 M4 clamping screws
Enclosure mounting	4 holes of 7 mm diameter or with external fastening lugs, see accessories	4 holes of 7 mm diameter or with external fastening lugs, see accessories
Lid fixing	4 or 6 captive cross-headed nylon screws	4 or 6 captive cross-headed nylon screws
Impact resistance	4 J	7 J
Gasket material	Polyurethane	Polyurethane
Temperature range	-50 °C...+150 °C	-50 °C...+130 °C
Flammability characteristics	UL 94 HB	V2
Toxicity	Free from halogens	Free from halogens

**Note:**

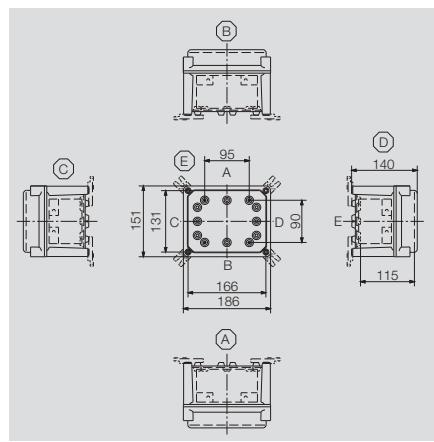
## TBF - Polyester enclosures



Height/Width/Depth

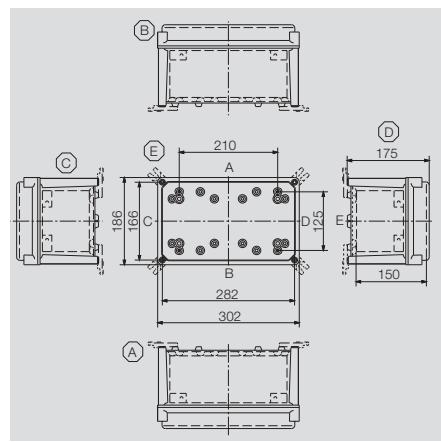
TBF 19/15

140 mm



TBF 30/19

175 mm

**B**

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



Polyamide

## Earthing stud



M6, Brass

M6, Stainless steel

M10, Brass

M10, Stainless steel

## Spacer



15 mm length

## Expansion frame



Polyamide

## Note

vertical	horizontal	vertical	horizontal
1x11	1x18	2x22	1x44
1x9	1x15	2x18	1x37
1x7	1x7	2x14	2x14
1x6	1x9	2x11	1x22
1x4	1x6	2x8	1x16
1x3	1x5	2x7	1x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
11	11	28	53
6	6	14	30
2	2	11	22
2	2	6	10
1	1	3	5
1	1	3	3
		1	3
		1	2

Type	Qty.	Order No.
TBF 19/15/14 7035	1	0360100000
TBF 19/15/14 trsp	1	0500500000

vertical	horizontal	vertical	horizontal
2x22	1x44	2x22	1x44
2x18	1x37	2x18	1x37
2x14	2x14	2x14	2x14
2x11	1x22	2x11	1x22
2x8	1x16	2x8	1x16
2x7	1x14	2x7	1x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
28	53	28	53
14	30	14	30
11	22	11	22
6	10	6	10
3	5	3	5
3	3	3	3
1	3	1	3
1	2	1	2

Type	Qty.	Order No.
TBF 30/19/18 7035	1	0360200000
TBF 30/19/18 trsp	1	0500600000

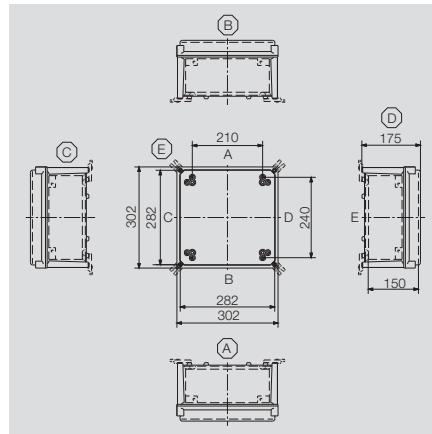
Type	Qty.	Order No.
MP TBF 19/15	1	9502720000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 19/15	1	9502930000

Type	Qty.	Order No.
MP TBF 30/19	1	3018950000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000

If using an extension frame, the protection class (IP) is reduced.

TBF 30/30

175 mm

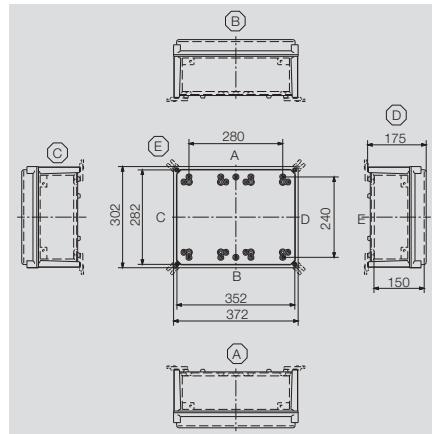


Height/Width/Depth

302 x 302 x 175 mm

TBF 37/30

175 mm



372 x 302 x 175 mm

**Technical data****Assembly with terminal**

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

**Number of cable entries**

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

**Note****Ordering data**

Enclosure with grey lid  
Enclosure with transparent lid

**Note****Accessories****Mounting plate**

Steel sheet, galvanised

**External mounting lug, set of 4**

Polyamide

**Earthing stud**

M6, Brass

M6, Stainless steel

M10, Brass

M10, Stainless steel

**Spacer**

15 mm length

**Expansion frame**

Polyamide

**Note**

vertical	horizontal	vertical	horizontal
2x44	1x44	2x57	2x44
2x37	1x37	2x48	2x37
2x28	2x28	2x36	2x36
2x22	1x22	2x29	2x22
2x16	1x16	2x21	2x16
2x14	1x14	2x18	2x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
44	44	44	56
24	24	24	30
20	20	20	27
10	10	10	12
4	4	4	5
3	3	3	4
3	3	3	4
2	2	2	3

vertical	horizontal	vertical	horizontal
2x57	2x44	2x57	2x44
2x48	2x37	2x48	2x37
2x36	2x36	2x36	2x36
2x29	2x22	2x29	2x22
2x21	2x16	2x21	2x16
2x18	2x14	2x18	2x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
44	56	44	56
24	30	24	30
20	27	20	27
10	12	10	12
4	5	4	5
3	4	3	4
3	4	3	4
2	3	2	3

Type	Qty.	Order No.
TBF 30/30/18 7035	1	0360300000
TBF 30/30/18 trsp	1	0500700000

Type	Qty.	Order No.
TBF 37/30/18 7035	1	0360400000
TBF 37/30/18 trsp	1	0500800000

Type	Qty.	Order No.
MP TBF 30/30	1	9502730000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 30/30	1	9502950000
EF TBF 37/30	1	9502960000

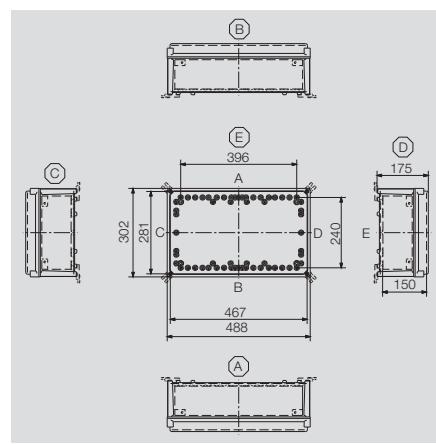
Type	Qty.	Order No.
MP TBF 37/30	1	9502740000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 37/30	1	9502960000

If using an extension frame, the protection class (IP) is reduced.

If using an extension frame, the protection class (IP) is reduced.

**TBF - Polyester enclosures****TBF 49/30**

210 mm

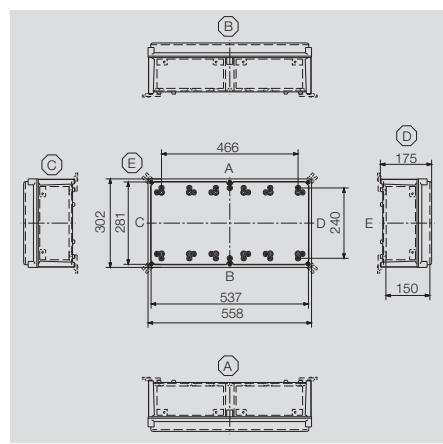


Height/Width/Depth

488 x 302 x 210 mm

**TBF 56/30**

210 mm



558 x 302 x 210 mm

**Technical data****Assembly with terminal**

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

**Number of cable entries**

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

**Note****Ordering data**

Enclosure with grey lid  
Enclosure with transparent lid

**Note****Accessories****Mounting plate**

Steel sheet, galvanised

**External mounting lug, set of 4**

Polyamide

**Earthing stud**

M6, Brass

M6, Stainless steel

M10, Brass

M10, Stainless steel

**Spacer**

15 mm length

vertical	horizontal	vertical	horizontal
2x80	3x44	2x94	4x44
2x67	3x37	2x79	4x37
2x51	2x51	2x59	2x59
2x41	3x22	2x48	4x22
2x29	3x16	2x34	4x16
2x25	3x14	2x30	4x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
44	42	44	80
24	42	24	46
20	36	20	40
10	18	10	18
4	7	4	8
3	5	3	6
3	5	3	4
2	4	2	4

vertical	horizontal	vertical	horizontal
2x94	4x44	2x94	4x44
2x79	4x37	2x79	4x37
2x59	2x59	2x59	2x59
2x48	4x22	2x48	4x22
2x34	4x16	2x34	4x16
2x30	4x14	2x30	4x14
<b>A / B</b>	<b>C / D</b>	<b>A / B</b>	<b>C / D</b>
44	80	44	80
24	46	24	46
20	40	20	40
10	18	10	18
4	8	4	8
3	6	3	6
3	4	3	4
2	4	2	4

Type	Qty.	Order No.
TBF 49/30/18 7035	1	9502800000
TBF 49/30/21 trsp	1	9502840000

Grey lid: 130 mm internal height, 175 mm total height  
Transparent lid: 160mm internal height, 210 mm total height

Type	Qty.	Order No.
TBF 56/30/18 7035	1	9502810000
TBF 56/30/21 trsp	1	9502850000

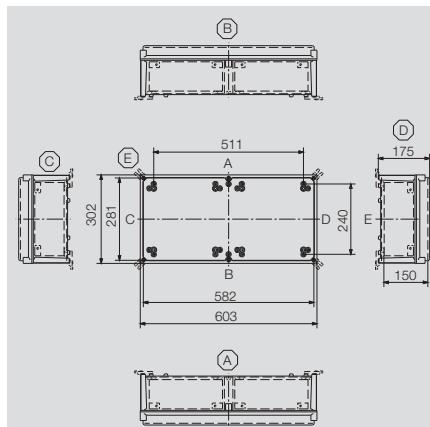
Grey lid: 130 mm internal height, 175 mm total height  
Transparent lid: 160mm internal height, 210 mm total height

Type	Qty.	Order No.
MP TBF 49/30	1	9500960000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000

**Note**

## TBF 60/30

210 mm



Height/Width/Depth

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

vertical	horizontal
5x44	1x101
5x37	1x85
5x28	5x28
5x22	1x51
5x16	1x37
5x14	1x32
A / B	C / D
44	88
24	48
20	40
10	20
4	8
3	6
3	6
2	4

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

Type	Qty.	Order No.
TBF 60/30/18 7035	1	0360500000
TBF 60/30/21 trsp	1	0500900000

Grey lid: 130 mm internal height, 175 mm total height  
Transparent lid: 160mm internal height, 210 mm total height

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



Polyamide

## Earthing stud



M6, Brass

M6, Stainless steel

M10, Brass

M10, Stainless steel

## Spacer



15 mm length

## Expansion frame



Polyamide

Type	Qty.	Order No.
MP TBF 60/30	1	9502750000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 60/30	1	9502990000

If using an extension frame, the protection class (IP) is reduced.

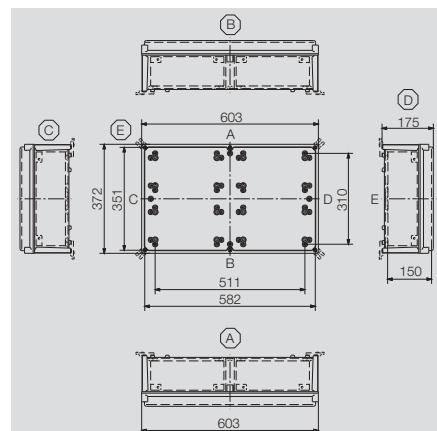
## Note

## TBF - Polyester enclosures



TBF 60/37

210 mm

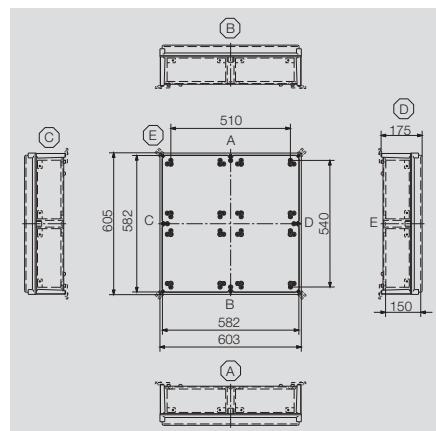


Height/Width/Depth

603 x 372 x 210 mm

TBF 60/60

210 mm



603 x 605 x 210 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



Polyamide

## Earthing stud



M6, Brass

M6, Stainless steel

M10, Brass

M10, Stainless steel

## Spacer



15 mm length

## Expansion frame



Polyamide

## Note

vertical	horizontal	vertical	horizontal
5x57	2x101	5x101	4x101
5x48	2x85	5x85	4x85
5x36	5x36	5x64	5x64
5x29	2x51	5x51	4x51
5x21	2x37	5x37	4x37
5x18	2x32	5x32	4x32
A / B	C / D	A / B	C / D
52	88	88	88
30	48	48	48
26	40	40	40
12	20	20	20
5	8	8	8
4	6	6	6
4	6	6	6
3	4	4	4

vertical	horizontal	vertical	horizontal
5x101	4x101	5x101	4x101
5x85	4x85	5x85	4x85
5x64	5x64	5x64	5x64
5x51	4x51	5x51	4x51
5x37	4x37	5x37	4x37
5x32	4x32	5x32	4x32
A / B	C / D	A / B	C / D
88	88	88	88
48	48	48	48
40	40	40	40
20	20	20	20
8	8	8	8
6	6	6	6
6	6	6	6
4	4	4	4

Type	Qty.	Order No.
TBF 60/37/18 7035	1	9502820000
TBF 60/37/21 trsp	1	9502860000

Grey lid: 130 mm internal height, 175 mm total height  
Transparent lid: 160mm internal height, 210 mm total height

Type	Qty.	Order No.
TBF 60/60/18 7035	1	9502830000
TBF 60/60/21 trsp	1	9502870000

Grey lid: 130 mm internal height, 175 mm total height  
Transparent lid: 160mm internal height, 210 mm total height

Type	Qty.	Order No.
MP TBF 60/37	1	9502910000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 60/37	1	9503000000

If using an extension frame, the protection class (IP) is reduced.

Type	Qty.	Order No.
MP TBF 60/60	1	9502920000
MF TBF	1	0360800000
ES TBF M6 brass	1	9502700000
ES TBF M6 ss	1	9505240000
ES TBF M10 brass	1	9502710000
ES TBF M10 ss	1	9500870000
SP TBF 15	50	9503170000
EF TBF 60/60	1	9503010000

If using an extension frame, the protection class (IP) is reduced.



# Small polycarbonate enclosures

The polycarbonate enclosures of the MPC series are ideal for enclosing electrical, electro-mechanical and pneumatic devices as well as PCBs. The enclosures are used in situations with extreme mechanical and chemical conditions.

**B**

The characteristics of the enclosures are:

- Available in 17 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Dimensions	Grey lid	Transparent lid
MPC 07/12/07	75 x 125 x 75	9535170000	9535180000
MPC 07/12/10	75 x 125 x 100	9535190000	9535200000
MPC 07/12/12	75 x 125 x 120	9535210000	9535220000
MPC 12/12/07	120 x 120 x 75	9535230000	9535240000
MPC 12/12/10	120 x 120 x 100	9535250000	9535260000
MPC 12/12/12	120 x 120 x 120	9535270000	9535280000
MPC 12/17/07	120 x 175 x 75	9535290000	9535300000
MPC 12/17/10	120 x 175 x 100	9535310000	9535320000
MPC 12/17/12	120 x 175 x 120	9535330000	9535340000
MPC 12/17/15	120 x 175 x 150	9535350000	9535360000
MPC 17/17/07	175 x 175 x 75	9535370000	9535380000
MPC 17/17/10	175 x 175 x 100	9535390000	9535400000
MPC 17/17/12	175 x 175 x 120	9535410000	9535420000
MPC 17/17/15	175 x 175 x 150	9535430000	9535440000
MPC 17/25/10	175 x 250 x 100	9535450000	9535460000
MPC 18/25/07	180 x 250 x 75	9535470000	9535480000
MPC 18/25/15	180 x 250 x 150	9535490000	9535500000

Note:

## Technical Overview

### Features

- High thermal stability thanks to the polycarbonate
- Extremely tough and impact resistant thanks to the high fibre-glass content.
- Good IP rating, due to use of polyurethane (PUR) gasket material
- Approved according to the latest international standards

**Note:** We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

### Technical data

Enclosure material	Polycarbonate
Cover	Grey or transparent
Surface finish	grey, similar to RAL 7035
IP protection class	IP 66, IP 67
Installation mounting	Self-tapping screws
Enclosure mounting	4 holes (4.5 mm diameter) or external mounting brackets (optional)
Lid fixing	4 cross-head screws (polyamide)
Gasket material	Polyurethane foam
Temperature range	-50 °C...+130 °C

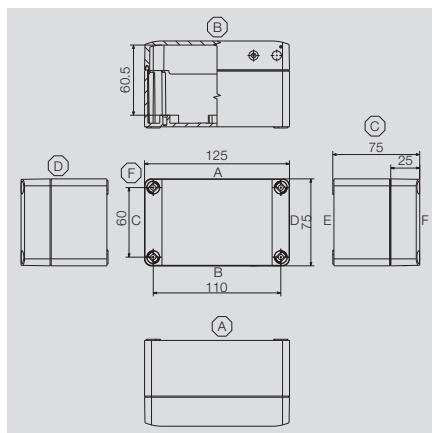
**Note:**

## MPC - Polycarbonate enclosures

**B**

MPC 07/12/07

75 mm

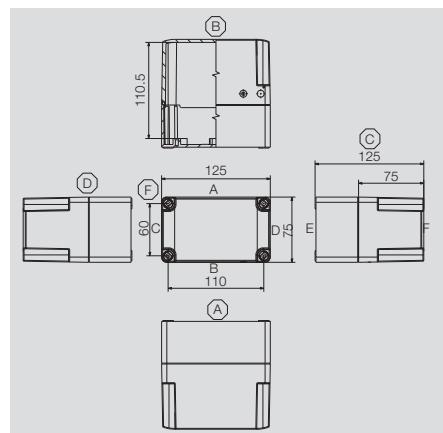


Height/Width/Depth

125 x 75 x 75 mm

MPC 07/12/12

125 mm



125 x 75 x 125 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6
1x5	1x1
1x4	1x1

A / B	C / D
1	4
1	3
1	3

A / B	C / D
1	4
1	3
1	3

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

Type	Qty.	Order No.
MPC 07/12/07 7035	1	9535170000
MPC 07/12/07 trsp	1	9535180000

Type	Qty.	Order No.
MPC 07/12/12 7035	1	9535210000
MPC 07/12/12 trsp	1	9535220000

## Accessories

## Mounting plate

Steel sheet, galvanised

## External mounting lug, set of 4



## Hinge, set of 2



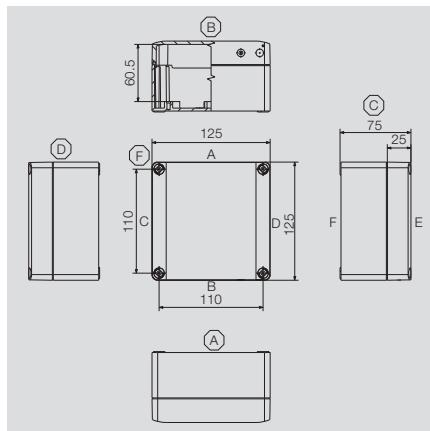
Type	Qty.	Order No.
MP MPC 07/12	10	9535540000
MF MPC	1	9535600000
HG MPC	1	9535590000

Type	Qty.	Order No.
MP MPC 07/12	10	9535540000
MF MPC	1	9535600000
HG MPC	1	9535590000

## Note

MPC 12/12/07

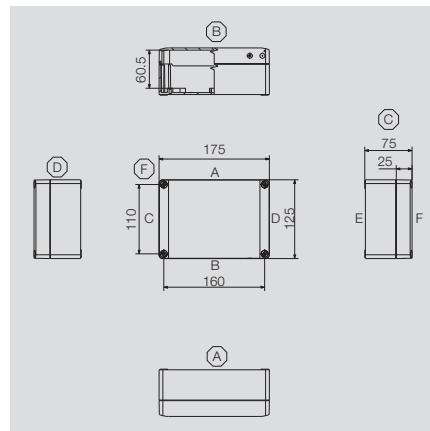
75 mm



Height/Width/Depth

MPC 12/17/07

75 mm



175 x 125 x 75 mm

**Technical data****Assembly with terminal**

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

**Number of cable entries**

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

**Note****Ordering data**

Enclosure with grey lid  
Enclosure with transparent lid

**Note****Accessories****Mounting plate**

Steel sheet, galvanised

**External mounting lug, set of 4**

Set of 4

**Hinge, set of 2**

Set of 2

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6

vertical	horizontal
1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11

A / B	C / D
4	4
3	3
3	

A / B	C / D
4	6
3	4
3	4

Type	Qty.	Order No.
MPC 12/12/07 7035	1	9535230000
MPC 12/12/07 trsp	1	9535240000

Type	Qty.	Order No.
MPC 12/17/07 7035	1	9535290000
MPC 12/17/07 trsp	1	9535300000

Type	Qty.	Order No.
MP MPC 12/12	10	9535550000
MF MPC	1	9535600000
HG MPC	1	9535590000

Type	Qty.	Order No.
MP MPC 12/17	10	9535560000
MF MPC	1	9535600000
HG MPC	1	9535590000

**Note**

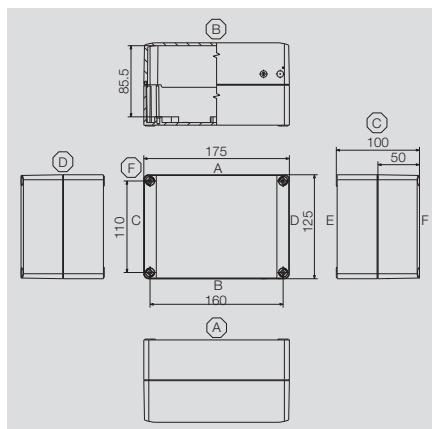
## MPC - Polycarbonate enclosures



Height/Width/Depth

MPC 12/17/10

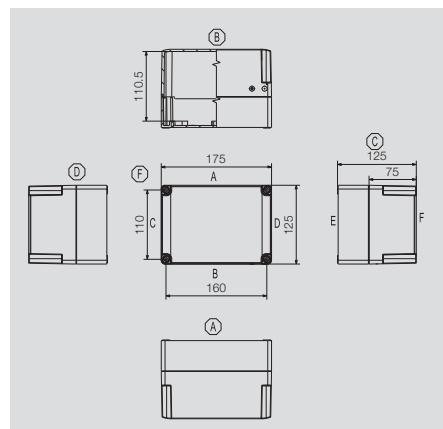
100 mm



175 x 125 x 100 mm

MPC 12/17/12

125 mm



175 x 125 x 125 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

## vertical      horizontal

1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11
1x9	1x5
1x7	1x4

## A / B      C / D

4	6
3	4
3	4

## vertical      horizontal

1x13	1x22
1x11	1x19
1x8	1x8
1x6	1x11
1x5	1x5
1x4	1x4

## A / B      C / D

4	6
3	4
3	4

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

It is possible to mount the WDU terminal blocks on a TS 35.

It is possible to mount the WDU terminal blocks on a TS 35.

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



## Hinge, set of 2



## Type      Qty.      Order No.

MPC 12/17/10 7035      1      9535310000

MPC 12/17/10 trsp      1      9535320000

## Type      Qty.      Order No.

MPC 12/17/12 7035      1      9535330000

MPC 12/17/12 trsp      1      9535340000

## Note

## Type      Qty.      Order No.

MP MPC 12/17      10      9535560000

## Type      Qty.      Order No.

MP MPC 12/17      10      9535560000

MF MPC      1      9535600000

MF MPC      1      9535600000

HG MPC      1      9535590000

HG MPC      1      9535590000



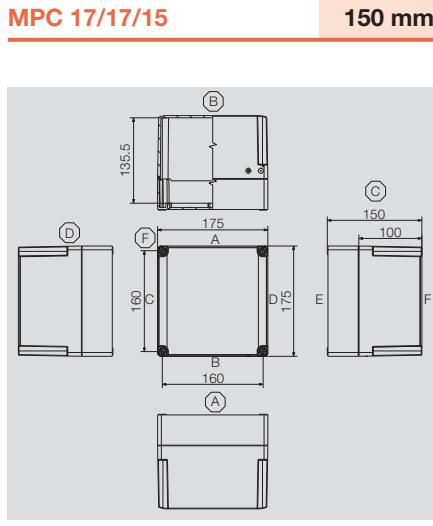
## MPC - Polycarbonate enclosures



Height/Width/Depth

MPC 17/17/15

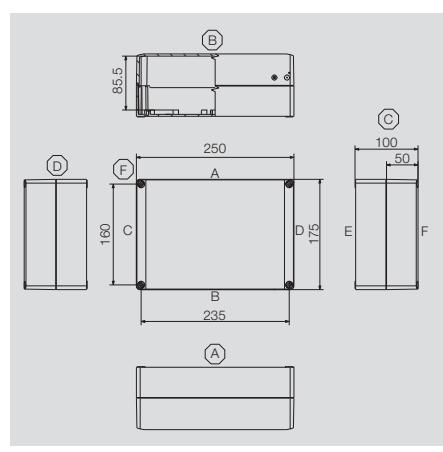
150 mm



175 x 175 x 150 mm

MPC 17/25/10

100 mm



250 x 175 x 100 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

## Accessories

## Mounting plate

Steel sheet, galvanised

## External mounting lug, set of 4



## Hinge, set of 2



## vertical      horizontal

1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11
1x9	1x9
1x7	1x7

## A / B      C / D

6	6
4	4
4	

## vertical      horizontal

1x37	1x37
1x31	1x31
1x23	1x23
1x19	1x19
1x15	1x9
1x11	1x7

## A / B      C / D

6	9
4	7
4	6

## Type      Qty.      Order No.

MPC 17/17/15 7035	1	9535430000
MPC 17/17/15 trsp	4	9535440000

## Type      Qty.      Order No.

MPC 17/25/10 7035	1	9535470000
MPC 17/25/10 trsp	1	9535480000

## Type      Qty.      Order No.

MP MPC 17/17	10	9535570000

## Type      Qty.      Order No.

MP MPC 17/25	1	9535580000

## MF MPC

1	9535600000

## MF MPC

1	9535600000

## HG MPC

1	9535590000

## HG MPC

1	9535590000

## Note



# Medium-sized polycarbonate enclosures

**B**

The FPC enclosure series is the next generation of the MPC series. The enclosures have the same technical characteristics and are ideal for enclosing electrical, electro-mechanical and pneumatic devices and PCBs. The enclosures are used in situations where extreme mechanical and chemical conditions exist.

The characteristics of the enclosures are:

- Available in 6 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.



## Overview of enclosures

### Ordering data

Description	Dimensions [mm]	Grey lid	Transparent lid
FPC 20/20/13	200 x 200 x 130	9535690000	9535680000
FPC 20/30/13	300 x 200 x 130	9535710000	9535700000
FPC 20/40/13	400 x 200 x 130	9535730000	9535720000
FPC 30/30/13	300 x 300 x 130	9535750000	9535740000
FPC 30/40/13	400 x 300 x 130	9535770000	9535760000
FPC 40/60/13	600 x 400 x 130	9535810000	9535820000

Note:

### Technical data

Enclosure material	Polycarbonate
Cover	Grey or transparent
Surface finish	Grey, similar to RAL 7035
IP protection class	IP 66, IP 67
Installation mounting	Self-tapping screws
Enclosure mounting	4 holes (7.5 mm diameter) or external mounting brackets (optional)
Lid fixing	4 cross-head screws (polyamide)
Gasket material	Polyurethane foam
Temperature range	-50 °C...+130 °C

Note:

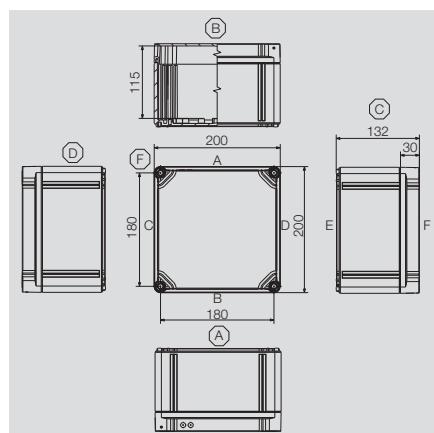


## FPC - Polycarbonate enclosures



FPC 20/20/13

132 mm

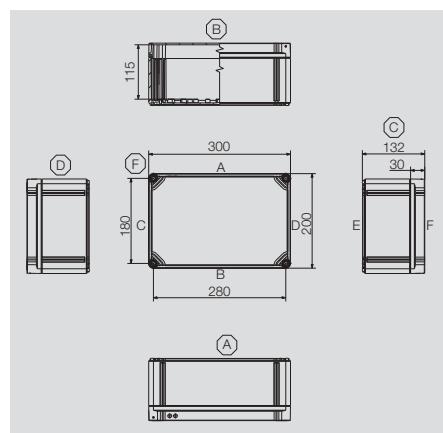


Height/Width/Depth

200 x 200 x 132 mm

FPC 20/30/13

132 mm



200 x 300 x 132 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

## Number of cable entries

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

## Note

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



## Hinge, set of 2



vertical	horizontal	vertical	horizontal
1x17	1x17	2x20	1x40
1x14	1x14	2x17	1x33
1x10	1x10	2x13	2x13
1x8	1x8	2x10	1x20
1x7	1x7	2x8	1x17
1x5	1x5	2x6	1x12
A / B	C / D	A / B	C / D
20	20	38	20
11	11	21	11
6	6	12	6
4	4	8	4
2	2	3	2
1	1	3	1
1	1	2	1
		2	1

vertical	horizontal	vertical	horizontal
2x20	1x40	2x20	1x40
2x17	1x33	2x17	1x33
2x13	2x13	2x13	2x13
2x10	1x20	2x10	1x20
2x8	1x17	2x8	1x17
2x6	1x12	2x6	1x12
A / B	C / D	A / B	C / D
38	20	38	20
21	11	21	11
12	6	12	6
8	4	8	4
3	2	3	2
3	1	3	1
2	1	2	1
2	1	2	1

Type	Qty.	Order No.
FPC 20/20/13 7035	1	9535690000
FPC 20/20/13 trsp	1	9535680000

Type	Qty.	Order No.
FPC 20/30/13 7035	1	9535710000
FPC 20/30/13 trsp	1	9535700000

Type	Qty.	Order No.
MP FPC 20/20	1	9535920000
MF FPC	1	9536040000
HG FPC	1	9535990000

Type	Qty.	Order No.
MP FPC 20/30	1	9535930000
MF FPC	1	9536040000
HG FPC	1	9535990000

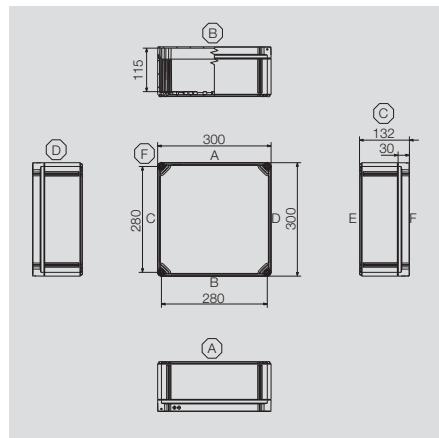
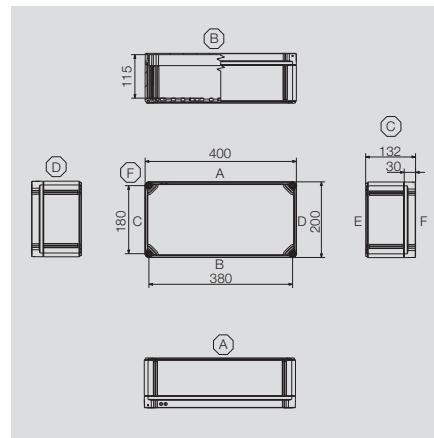
## Note

FPC 20/40/13

132 mm

FPC 30/30/13

132 mm



Height/Width/Depth

200 x 400 x 132 mm

300 x 300 x 132 mm

**Technical data****Assembly with terminal**

2.5 mm<sup>2</sup>  
4 mm<sup>2</sup>  
6 mm<sup>2</sup>  
10 mm<sup>2</sup>  
16 mm<sup>2</sup>  
35 mm<sup>2</sup>

**Number of cable entries**

M12  
M16  
M20  
M25  
M32  
M40  
M50  
M63  
M75

**Note****Ordering data**

Enclosure with grey lid  
Enclosure with transparent lid

**Note****Accessories****Mounting plate**

Steel sheet, galvanised

**External mounting lug, set of 4****Hinge, set of 2**

vertical	horizontal
3x20	1x59
3x17	1x49
3x13	3x13
3x10	1x30
3x8	1x25
3x6	1x19
<b>A / B</b>	<b>C / D</b>
56	20
30	11
18	6
12	4
5	2
4	1
4	1
3	1

vertical	horizontal
2x40	1x40
2x33	1x33
2x25	2x25
2x20	1x20
2x17	1x17
2x12	1x12
<b>A / B</b>	<b>C / D</b>
38	38
21	21
12	12
8	8
3	3
3	3
2	2
2	2

Type	Qty.	Order No.
FPC 20/40/13 7035	1	9535730000
FPC 20/40/13 trsp	1	9535720000

Type	Qty.	Order No.
FPC 30/30/13 7035	1	9535750000
FPC 30/30/13 trsp	1	9535740000

Type	Qty.	Order No.
MP FPC 20/40	1	9535940000
MF FPC	1	9536040000
HG FPC	1	9535990000

Type	Qty.	Order No.
MP FPC 30/30	1	9535950000
MF FPC	1	9536040000
HG FPC	1	9535990000

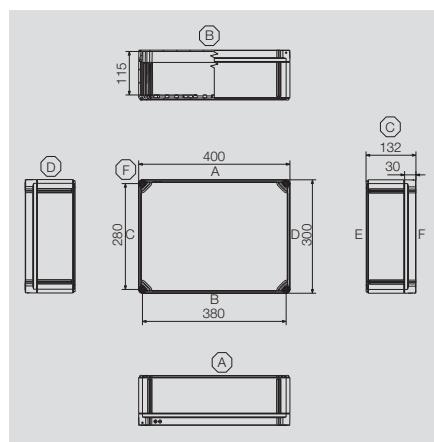
**Note**

## FPC - Polycarbonate enclosures



FPC 30/40/13

132 mm

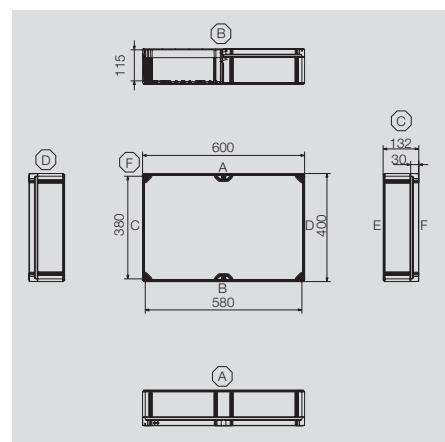


Height/Width/Depth

300 x 400 x 132 mm

FPC 40/60/13

132 mm



400 x 600 x 132 mm

## Technical data

## Assembly with terminal

2.5 mm<sup>2</sup>4 mm<sup>2</sup>6 mm<sup>2</sup>10 mm<sup>2</sup>16 mm<sup>2</sup>35 mm<sup>2</sup>

## Number of cable entries

M12

M16

M20

M25

M32

M40

M50

M63

M75

## Note

## Ordering data

Enclosure with grey lid  
Enclosure with transparent lid

## Note

## Accessories

## Mounting plate



Steel sheet, galvanised

## External mounting lug, set of 4



## Hinge, set of 2



vertical	horizontal	vertical	horizontal
A / B	C / D	A / B	C / D
3x40	1x59	5x59	2x97
3x33	1x49	5x49	2x81
3x25	3x25	5x37	5x37
3x20	1x30	5x30	2x49
3x17	1x25	5x25	2x41
3x12	1x19	5x19	2x31

vertical	horizontal	vertical	horizontal
A / B	C / D	A / B	C / D
56	38	76	56
30	21	42	30
18	12	24	18
12	8	16	12
5	3	6	5
4	3	6	4
4	2	4	4
3	2	4	3

Type	Qty.	Order No.
FPC 30/40/13 7035	1	9535770000
FPC 30/40/13 trsp	1	9535760000

Type	Qty.	Order No.
FPC 40/60/13 7035	1	9535810000
FPC 40/60/13 trsp	1	9535820000

Type	Qty.	Order No.
MP FPC 30/40	1	9535960000
MF FPC	1	9536040000
HG FPC	1	9535990000

Type	Qty.	Order No.
MP FPC 40/60	1	9535980000
MF FPC	1	9536040000
HG FPC	1	9535990000

## Note

# Cable entries

## Cable entries

Introduction	C.2
Standard cable glands - Plastic	C.6
Standard cable glands - Brass	C.9
EMC cable glands	C.15
Standard cable glands - Stainless steel	C.17
Cable glands for Ex applications - Plastic	C.18
Cable glands for Ex applications - Brass	C.20
Accessories - Lock nuts	C.37
Accessories - Flat IP washer	C.42
Accessories - Earth tags	C.46
Accessories - Shrouds	C.48
Accessories - Washers	C.50
Sealing plugs	C.51
Adaptors	C.58
Compensating elements	C.60

## Cable entries

Weidmüller offers a variety of add-on components for a multitude of applications; they complement its wide range of enclosures. In addition to cable glands made of brass, plastic and stainless steel, there are sealing plugs, pressure compensation elements, adaptors and the matching accessories of lock nuts, sealing and earth tags available.

As with the enclosures, the cable glands come in IP protective classes from IP 54 to IP 69K and can be used as required in industrial standard applications, EMC applications or indeed in explosive hazard areas. They have the appropriate approvals for use in these areas. Ex certified Klippon® cable glands also allow the connection of braided and shielded armour with or without a lead sheath, as well as single wire reinforcement and metal foil armoured cables and wires. They can be used in temperatures from -60 °C to +180 °C.

Depending on the connector series and the application area, the cable glands, sealing plugs, adaptors, pressure compensation elements and accessories are certified and manufactured in line with the following standards:

- EN 60423 (metric thread)
- EN 40430 (PG and NPT thread)
- EN 60079-0 (General ATEX regulations)
- EN 60079-1 (Ex d ATEX regulations)
- EN 60079-7 (Ex e ATEX regulations)
- EN 60079-11 (Ex i ATEX regulations)
- EN 50262 (strain relief)
- EN 60529 (IP protection degree)

The range of cable glands, sealing plugs and pressure compensation elements is available in metric (M) and high-strength (PG) threads in sizes from M 12 to M 75 and PG 7 to PG 48. When choosing glands and sealing plugs, the table with the sealing characteristics of the O-rings, IP washers and sealing rings must be considered. The O-ring or IP washer is provided to seal the connecting thread of an enclosure, the sealing ring is for the gland and actually seals and clamps the connection cable.



You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed.

#### Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	Through-hole, in mm
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

#### Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santoprene	-40 °C...+130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C...+130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C...+130 °C	Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels	weak	40 - 90	No	good
EPDM	Ethylene-propylene-diene rubber	Keltan	-50 °C...+130 °C	Weather-, grease-, mineral oil-, chlorine-, and ozone resistant, hydrocarbons	weak	20 - 90		very good
FPM	Fluoro-rubber	Viton	-25 °C...+200 °C	ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals	weak	65 - 95		good

#### Abbreviations - technical data

A, L	Length
L1	Length of thread
D	Diameter
S	Thickness
GWDR	Threaded sealing ring or IP washer
S1,S2	Depth
SW	Distance across flats (AF)
KB	Clamping range
Thread	External thread
SUHB	Shroud
TRQ BO	Body torque
MODR	Mounting torque
TRQ CN	Cap nut torque
Qty.	Packing unit

#### Product designation

VG	Cable gland
VP	Sealing plugs
KDSU	Klippon Double Seal Universal
KDSW	Klippon Double Seal for SWA
KDSX	Klippon Double Seal for SWB/STA
KSG	Klippon Standard Gland
KUB	Klippon Universal Barrier
KSPA	Klippon Stopping Plug Type A
KSPM	Klippon Stopping Plug Mushroom
KSWN	Klippon Sealing Washer Nylon
KSWF	Klippon Sealing Washer Red Fibre
KSP	Klippon Shroud PVC/Silicone
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
EWS	Drain plug
SZS	Serrated Star Washers
ZE	Strain relief
EMV	Electromagnetic compatibility
SKS	Spiral kink protection

# Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.

## Standard glands

Material/Type	Approvals					Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou-ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
<b>Plastic</b>												
VG ... K67	IP67									●		
VG ... K68	IP68 / 5 bar									●		
VG ... K68 SKS	IP68 / 5 bar									●		
<b>Nickel-plated brass</b>												
VG ... MS54	IP54	IP65				optional					●	
VG ... MS68		IP68 / 5 bar, IP69k							included		●	
VG ... MS54-ZE	IP54									●		
VG...MS54 ZE BS	IP54									●		
VG...MS54 ZR	IP54									●		
VG ... EMV		IP68 / 10 bar	●						included			●
VG ... 1/EMV		IP68 / 5 bar, IP69k	●						included			●
<b>Stainless steel</b>												
VG...SS68		IP68 / 5 bar, IP69k							included		●	

## Cable glands Ex

Material/Type	Approvals					Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou-ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
<b>Plastic Ex</b>												
VG ... Exe SW	IP66	IP68	Exe			optional				●		
VG ... Exi BL	IP66	IP68	Exi			optional				●		
<b>Nickel-plated brass Ex</b>												
VG ... Exe MS		IP68 / 5 bar	Exe			included				●	●	
KDSU...BN/BS O NI		IP68 / 2.5 bar	Exe/d	●		included					●	
KUB...BS O NI		IP66, IP68 / 10 bar	Exe/d	●		included					●	
KDSW...BN/BS O/L NI		IP54, IP66, IP68 / 2.5 bar	Exe/d	●	optional	optional	optional	included			●	
KDSX...BS O NI		IP54, IP66, IP68 / 2.5 bar	Exe/d	●	optional	optional	optional	included			●	
KSG...BN/BS O NI		IP66, IP68 / 2.5 bar	Exe/d	●		included					●	
<b>Brass Ex</b>												
KDSU...BN/BS O SC		IP68 / 2.5 bar	Exe/d	●		included					●	
KUB...BS O SC		IP66, IP68 / 10 bar	Exe/d	●		included					●	
KDSW...BN/BS O/L SC		IP54, IP66, IP68 / 2.5 bar	Exe/d	●	optional	optional	optional	included			●	
KDSX...BS O SC		IP54, IP66, IP68 / 2.5 bar	Exe/d	●	optional	optional	optional	included			●	
KSG...BN/BS O SC		IP66, IP68 / 2.5 bar	Exe/d	●		included					●	
Ex - Stainless steel glands on request												

**Adaptor**

Material/Type	Approvals		Ex	Thread sealing rings			Locknuts			
	IP class of protection with seal	IP class of protection without seal		CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
<b>Plastic</b>										
	DAE M12 PA	IP66, IP68, IP69K						included		
	DAE M12 PA long	IP66, IP68, IP69K					included			
<b>Plastic Ex</b>										
	EWS...	IP54								
<b>Stainless steel</b>										
	DAE M12 SS	IP66, IP68, IP69K					included			
<b>Stainless steel Ex</b>										
	BD 1 ss	IP66					included			
<b>Brass Ex</b>										
	BD 1 brass	IP66					included			

**Stopping plugs**

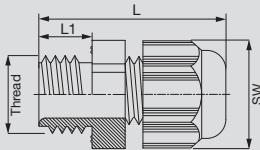
Material/Type	Approvals		Ex	Thread sealing rings			Locknuts			
	IP class of protection without seal	IP class of protection with seal		CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
<b>Plastic</b>										
	VP ... K54	IP54	IP65							
<b>Nickel-plated brass</b>										
	VP ... MS65		IP68				included			
<b>Stainless steel</b>										
	KSPM...SSC	IP66, IP68		Exe/d			included			
<b>Plastic Ex</b>										
	VP...Exe SW	IP66	IP66, IP68	Exe		optional				
	KSPM...PL	IP66, IP68		Exe		Nitrile				
<b>Nickel-plated brass Ex</b>										
	VP...Exe MS		IP68	Exe/d			included			
	KSPA...BNI	IP54		Ex d						
<b>Brass Ex</b>										
	KSPM...BSC	IP66, IP68		Exe/d			included			

## Standard cable glands - Plastic

### Cable glands - Plastic - IP 67



Plastic cable gland for industrial applications – with integrated strain relief mechanism.



#### Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	TPE
Temperature range	-20 °C...80 °C
Degree of protection	IP 67
Flammability rating	V-2

**Note**  
Version with moulded sealing lip  
Length L varies depending on the cable diameter used

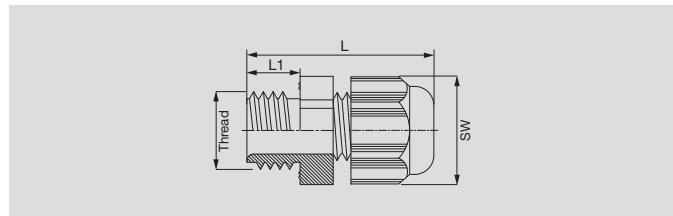
#### Ordering data

Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-K67	M 12 x 1.5	3.00-6.50	23.9 / 8.00	15	1.70	5.00	2.50	2.50	100	1909660000
VG M16-K67	M 16 x 1.5	4.00-8.00	27.7 / 8.00	19	2.50	1.70	3.80	3.80	50	1909670000
VG M16-K67	M 16 x 1.5	5.00-10.00	29 / 10.00	22	2.50	2.50	3.80	3.80	50	1909680000
VG M20-K67	M 20 x 1.5	6.00-12.00	29.2 / 10.00	24	2.50	2.50	3.80	3.80	50	1909690000
VG M20-K67	M 20 x 1.5	10.00-14.00	32.8 / 10.00	27	3.30	2.50	5.00	5.00	50	1909700000
VG M25-K67	M 25 x 1.5	13.00-18.00	37.9 / 10.00	33	5.00	3.30	7.50	7.50	25	1909710000
VG M32-K67	M 32 x 1.5	18.00-25.00	40.7 / 18.00	42	11.00	5.00	7.50	7.50	20	1909720000
VG M40-K67	M 40 x 1.5	22.00-32.00	51.3 / 18.00	53	12.00	11.00	7.50	7.50	10	1909730000
VG M50-K67	M 50 x 1.5	30.00-38.00	53.5 / 18.00	60	12.00	12.00	7.50	7.50	10	1909740000
VG M63-K67	M 63 x 1.5	34.00-44.00	55 / 18.00	65	12.00	12.00	7.50	7.50	10	1909750000
<b>PG</b>										
VG PG7-K67	PG 7	3.00-6.50	23.9 / 8.00	15	1.70	12.00	2.50	2.50	100	1909760000
VG PG9-K67	PG 9	4.00-8.00	27.7 / 8.00	19	2.50	1.70	3.75	3.75	50	1909770000
VG PG11-K67	PG 11	5.00-10.00	29 / 8.00	22	2.50	2.50	3.75	3.75	50	1909780000
VG PG13,5-K67	PG 13.5	6.00-12.00	29.2 / 9.00	24	2.50	2.50	3.75	3.75	50	1909790000
VG PG16-K67	PG 16	10.00-14.00	32.8 / 9.00	27	3.30	2.50	5.00	5.00	50	1909800000
VG PG21-K67	PG 21	13.00-18.00	37.9 / 11.00	33	5.00	3.30	7.50	7.50	25	1909810000
VG PG29-K67	PG 29	18.00-25.00	40.7 / 11.00	42	5.00	5.00	7.50	7.50	20	1909820000
VG PG36-K67	PG 36	22.00-32.00	51.3 / 13.00	53	5.00	5.00	7.50	7.50	10	1909830000
VG PG42-K67	PG 42	30.00-38.00	53.5 / 13.00	60	5.00	5.00	7.50	7.50	10	1909840000
VG PG48-K67	PG 48	34.00-44.00	55 / 14.00	65	5.00	5.00	7.50	7.50	10	1909850000

**Note**  
no approvals, halogen free, without sealing ring

**Cable glands - Plastic - IP68**

Plastic cable gland with integrated strain relief mechanism suitable for industrial applications that require IP68 protection.

**Technical data**

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Degree of protection	IP68 - 5 bar (30 min)
Flammability rating	V-2

**Note** Version with moulded sealing lip  
Length L varies depending on the cable diameter used

**Ordering data**

Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-1/K68	M 12 x 1.5	3.00-6.50	32.4 / 8.00	15	1.70	1.70	2.50	2.50	100	1772280000
VG M16-1/K68	M 16 x 1.5	5.00-10.00	39.7 / 10.00	22	2.00	3.00	3.00	5.00	50	1772290000
VG M16-1/K68	M 16 x 1.5	4.00-8.00	35.7 / 8.00	22	2.50	2.50	3.80	3.80	50	1909860000
VG M20-1/K68	M 20 x 1.5	6.00-12.00	41.2 / 10.00	24	2.50	2.50	3.80	3.80	50	1772300000
VG M25-1/K68	M 25 x 1.5	13.00-18.00	48.2 / 10.00	33	7.00	9.00	10.00	13.00	25	1772310000
VG M25-1/K68	M 25 x 1.5	11.00-17.00	43.2 / 8.00	29	5.00	5.00	7.50	7.50	25	1909870000
VG M32-1/K68	M 32 x 1.5	18.00-25.00	50.8 / 15.00	42	8.00	10.00	12.00	15.00	20	1772320000
VG M32-1/K68	M 32 x 1.5	15.00-21.00	50.7 / 10.00	36	5.00	5.00	7.50	7.50	20	1909880000
VG M40-1/K68	M 40 x 1.5	22.00-32.00	69.9 / 15.00	53	15.00	20.00	22.00	30.00	10	1772330000
VG M40-1/K68	M 40 x 1.5	19.00-28.00	55.2 / 10.00	46	11.00	11.00	7.50	7.50	10	1909890000
VG M50-1/K68	M 50 x 1.5	30.00-38.00	71.7 / 18.00	60	20.00	25.00	30.00	35.00	10	1772340000
VG M50-1/K68	M 50 x 1.5	30.00-38.00	70.3 / 18.00	60	12.00	12.00	7.50	7.50	10	1909900000
VG M63-1/K68	M 63 x 1.5	34.00-44.00	72.9 / 18.00	65	12.00	12.00	7.50	7.50	10	1772350000
<b>PG</b>										
VG 7-K68	PG 7	3.00-6.50	30.5 / 8.00	15	1.70	1.70	2.50	2.50	100	1568970000
VG 9-K68	PG 9	4.00-8.00	34 / 8.00	19	2.50	2.50	3.75	3.75	50	1568980000
VG 11-K68	PG 11	5.00-10.00	37 / 8.00	22	2.50	2.50	3.75	3.75	50	1568990000
VG 13.5-K68	PG 13.5	6.00-12.00	39 / 9.00	24	2.50	2.50	3.75	3.75	50	1569000000
VG 16-K68	PG 16	10.00-14.00	42.5 / 10.00	27	3.30	3.30	5.00	5.00	50	1569010000
VG 21-K68	PG 21	13.00-18.00	48 / 11.00	33	5.00	5.00	7.50	7.50	25	1569020000
VG 29-K68	PG 29	18.00-25.00	53 / 11.00	42	5.00	5.00	7.50	7.50	20	1569030000
VG 36-K68	PG 36	22.00-32.00	65 / 13.00	53	5.00	5.00	7.50	7.50	10	1569040000
VG 42-K68	PG 42	30.00-38.00	68 / 13.00	60	5.00	5.00	7.50	7.50	10	1569050000
VG 48-K68	PG 48	34.00-44.00	69 / 14.00	65	5.00	5.00	7.50	7.50	10	1718770000

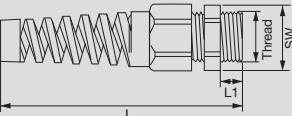
**Note** VDE for metric variants, halogen free, without sealing ring

## Standard cable glands - Plastic

## Cable glands - Plastic - SKS



Plastic cable gland with spiral bending protection specially suited for flexible connections.



## Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Degree of protection	IP68 - 5 bar (30 min)
Flammability rating	V-2

**Note**  
Version with moulded sealing lip  
Length L varies depending on the cable diameter used

## Ordering data

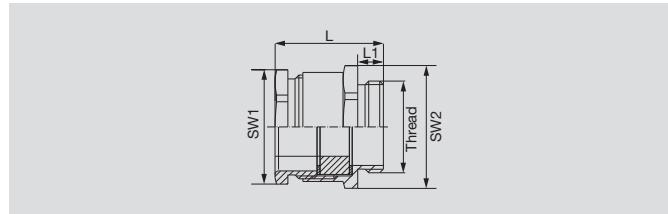
Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-K68 SKS	M 12 x 1.5	3.00-6.50	66.5 / 8.00	15	1.70	1.70	2.50	2.50	100	1776700000
VG M16-K68 SKS	M 16 x 1.5	5.00-10.00	80 / 15.00	22	2.50	2.50	3.80	3.80	50	1776710000
VG M20-K68 SKS	M 20 x 1.5	6.00-12.00	106 / 11.00	24	2.50	2.50	3.80	3.80	50	1778860000
VG M20-K68 SKS	M 20 x 1.5	10.00-14.00	106 / 15.00	27	3.30	3.30	5.00	5.00	50	1776720000
VG M25-K68 SKS	M 25 x 1.5	13.00-18.00	129 / 15.00	33	5.00	5.00	7.50	7.50	25	1776730000
<b>PG</b>										
VG 9-K68 SKS	PG 9	4.00-8.00	78 / 8.00	19	2.50	2.50	3.75	3.75	50	1720480000
VG 11-K68 SKS	PG 11	5.00-10.00	84 / 8.00	22	2.50	2.50	3.75	3.75	100	1720490000
VG 13,5-K68 SKS	PG 13.5	6.00-12.00	105 / 9.00	24	2.50	2.50	3.75	3.75	50	1720500000
VG 16-K68 SKS	PG 16	10.00-14.00	117 / 10.00	27	3.30	3.30	5.00	5.00	25	1720510000
VG 21-K68 SKS	PG 21	13.00-18.00	130 / 11.00	33	5.00	5.00	7.50	7.50	20	1720520000

**Note**  
VDE for metric variants, halogen free, without sealing ring

## Cable glands - Brass - IP54



Brass cable gland for industrial applications that require IP54 protection.



## Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...60 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 65

**Note** Optional sealing ring  
Length „L“ varies depending on the cable diameter used.

## Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-MS54	M 12 x 1.5	5.00-7.00	21.5 / 6.00	13 / 14	3.05	3.05	6.25	6.25	100	1778410000
VG M12-MS54	M 12 x 1.5	6.00-8.00	22 / 6.00	15 / 17	3.05	3.05	6.25	6.25	100	1778400000
VG M16-MS54	M 16 x 1.5	8.00-10.00	26 / 6.00	18 / 20	3.05	3.05	6.25	6.25	100	1778390000
VG M20-MS54	M 20 x 1.5	8.00-10.00	26.5 / 6.50	18 / 22	3.05	3.05	6.25	6.25	50	1778380000
VG M20-MS54	M 20 x 1.5	10.00-12.00	26.5 / 6.50	20 / 22	3.05	3.05	6.25	6.25	50	1778370000
VG M25-MS54	M 25 x 1.5	12.00-14.00	27.5 / 7.00	22 / 27	3.66	3.66	7.50	7.50	50	1778360000
VG M25-MS54	M 25 x 1.5	15.00-17.00	29.5 / 7.00	28 / 30	4.88	4.88	10.00	10.00	50	1778350000
VG M32-MS54	M 32 x 1.5	24.00-26.00	33 / 8.00	38 / 40	4.88	4.88	10.00	10.00	25	1778340000
VG M40-MS54	M 40 x 1.5	28.00-30.00	33 / 8.00	37 / 43	4.88	4.88	10.00	10.00	25	1778330000
VG M50-MS54	M 50 x 1.5	31.00-33.00	39 / 9.00	47 / 55	4.88	4.88	10.00	10.00	10	1778320000
VG M50-MS54	M 50 x 1.5	39.00-41.00	43 / 9.00	54 / 57	4.88	4.88	10.00	10.00	5	1778310000
VG M63-MS54	M 63 x 1.5	45.00-47.00	45 / 10.00	60 / 68	4.88	4.88	10.00	10.00	5	1778300000
<b>PG</b>										
VG 7-MS54	PG 7	5.00-7.00	20.5 / 5.00	13 / 14	8.33	8.33	12.50	12.50	100	0521500000
VG 9-MS54	PG 9	6.00-8.00	22 / 6.00	15 / 17	10.13	10.13	15.20	15.20	100	0261500000
VG 11-MS54	PG 11	8.00-10.00	26 / 6.00	18 / 20	12.40	12.40	18.60	18.60	50	0260700000
VG 13,5-MS54	PG 13.5	10.00-12.00	26 / 6.50	20 / 22	13.60	13.60	20.40	20.40	50	0260800000
VG 16-MS54	PG 16	12.00-14.00	27 / 6.50	22 / 24	15.00	15.00	22.50	22.50	50	0261400000
VG 21-MS54	PG 21	15.00-17.00	29.5 / 7.00	28 / 30	18.87	18.87	28.30	28.30	50	0260900000
VG 29-MS54	PG 29	24.00-26.00	33 / 8.00	37 / 40	24.67	24.67	37.00	37.00	25	0261000000
VG 36-MS54	PG 36	33.00-35.00	39 / 9.00	47 / 50	31.33	31.33	47.00	47.00	20	0497600000
VG 42-MS54	PG 42	41.00-43.00	44 / 10.00	54 / 57	36.00	36.00	54.00	54.00	10	0497700000
VG 48-MS54	PG 48	45.00-47.00	45 / 10.00	60 / 64	39.50	39.50	59.30	59.30	5	1718780000

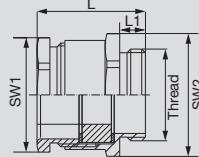
**Note** Further versions on request

## Standard cable glands - Brass

### Cable glands - Brass - ZR



Brass cable gland with concentric O-rings for standard industrial applications. The sealed insert used here contains several removable or dividable inlets. This allows to connect cables of a wide diameter range (from 4 mm to 41 mm) with only one sealed insert.



### Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

### Note

### Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ BO, min.	D1	D2	D3	D4	Qty.	Order No.
<b>metric</b>												
VG M20-MS54	M 20 x 1.5	4.00-13.00	26.5 / 6.50	22 / 24	3.05	6.25	4	7	10	13	50	1009560000
VG M25-MS54	M 25 x 1.5	8.50-18.00	27.5 / 7.00	28 / 30	3.66	7.50	8.5	11.5	14.5	18	25	1009570000
VG M32-MS54	M 32 x 1.5	16.00-26.00	33 / 8.00	37 / 40	4.88	10.00	16	19	22	25	25	1009580000
VG M40-MS54	M 40 x 1.5	23.00-30.00	33 / 33.00	47 / 50	4.88	10.00	23	26	29	32	10	1009590000
VG M50-MS54	M 50 x 1.5	32.00-40.00	39 / 39.00	54 / 57	4.88	10.00	32	35	38	41	5	1009600000
<b>PG</b>												
VGPG13.5-MS54	PG 13.5	7.50-12.50	22 / 6.50	20 / 22	13.60	20.40	7.5	10	12.5	0	50	1009610000
VG PG16-MS54	PG 16	7.50-15.00	27 / 6.50	22 / 24	15.00	22.50	7.5	10	12.5	15	50	1009620000
VG PG21-MS54	PG 21	10.00-19.00	29.5 / 7.00	28 / 30	18.87	28.30	10	13	16	19	25	1009630000
VG PG29-MS54	PG 29	18.00-27.00	33 / 8.00	37 / 40	24.67	37.00	18	21	24	27	25	1009640000
VG PG36-MS54	PG 36	24.00-33.00	39 / 9.00	47 / 50	31.33	47.00	24	27	30	33	10	1009650000
VG PG42-MS54	PG 42	30.00-39.00	44 / 10.00	54 / 57	36.00	54.00	30	33	36	39	5	1009670000

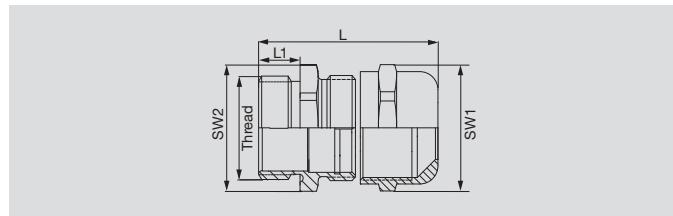
### Note

It is possible to connect cables with diameters ranging from D1 to D4.

## Cable glands - Brass - IP68



Standard brass cable gland for industrial applications that require IP68 protection.



## Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Degree of protection with thread gasket	IP 68 - 5 bar, IP 69K

Note	Length „L“ varies according to cable diameter used
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## Ordering data

Type	Thread	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>									
VG M12-1/MS68	M 12 x 1.5	27.2 / 6.00	14	1.70	1.70	2.50	2.50	50	1772200000
VG M16-1/MS68	M 16 x 1.5	28 / 5.50	17	2.50	2.50	3.80	3.80	50	1772210000
VG M16-1/MS68	M 16 x 1.5	37.3 / 7.50	20	12.00	12.00	10.00	10.00	50	1909910000
VG M20-1/MS68	M 20 x 1.5	32 / 8.00	22	2.50	2.50	3.80	3.80	50	1772220000
VG M25-1/MS68	M 25 x 1.5	35 / 7.00	30	12.00	12.00	7.50	7.50	25	1772230000
VG M25-1/MS68	M 25 x 1.5	42 / 8.00	27	20.00	20.00	14.00	14.00	25	1909920000
VG M32-1/MS68	M 32 x 1.5	39 / 8.00	34	12.00	12.00	7.50	7.50	25	1772240000
VG M32-1/MS68	M 32 x 1.5	45 / 8.00	34	20.00	20.00	20.00	20.00	20	1909930000
VG M40-1/MS68	M 40 x 1.5	53 / 8.00	44	12.00	12.00	7.50	7.50	20	1772250000
VG M40-1/MS68	M 40 x 1.5	55.1 / 9.00	43	20.00	20.00	20.00	20.00	20	1909940000
VG M50-1/MS68	M 50 x 1.5	62.2 / 9.00	58	20.00	20.00	20.00	20.00	12	1909950000
VG M63-1/MS68	M 63 x 1.5	63.6 / 14.00	64	20.00	20.00	20.00	20.00	12	1772270000
<b>PG (IP 69K)</b>									
VG 7-MS68	PG 7	23 / 6.00	14	10.00	10.00	8.00	8.00	50	1569060000
VG 9-MS68	PG 9	27 / 6.00	17	12.00	12.00	10.00	10.00	50	1569070000
VG 11-MS68	PG 11	28.5 / 6.00	20	12.00	12.00	10.00	10.00	50	1569080000
VG 13.5-MS68	PG 13.5	29.5 / 6.50	22	14.00	14.00	12.00	12.00	50	1569090000
VG 16-MS68	PG 16	29.5 / 6.50	24	14.00	14.00	14.00	14.00	25	1569100000
VG 21-MS68	PG 21	33.5 / 7.00	30	18.00	18.00	16.00	16.00	25	1569110000
<b>PG (IP68)</b>									
VG 29-MS68	PG 29	37.5 / 8.00	40	20.00	20.00	20.00	20.00	20	1569120000
VG 36-MS68	PG 36	45 / 10.00	50	20.00	20.00	20.00	20.00	15	1569130000
VG 42-MS68	PG 42	47.5 / 12.00	58	20.00	20.00	20.00	20.00	12	1569140000
VG 48-MS68	PG 48	50.5 / 14.00	64	20.00	20.00	20.00	20.00	12	1718790000

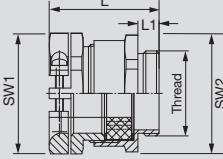
<b>Note</b>	Further versions on request VDE for metric versions
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## Standard cable glands - Brass

### Cable glands - Brass - ZE



Brass cable glands with external, centrally positioned strain relief provided by the clamping jaws.



#### Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

**Note** Optional sealing ring  
Length „L“ varies depending on the cable diameter used.

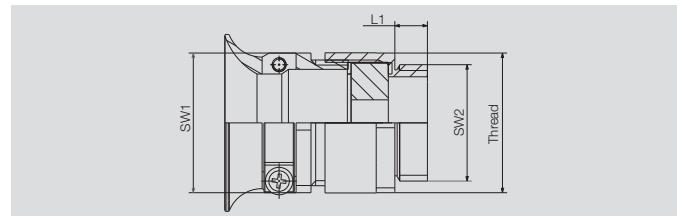
#### Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-MS54 ZE	M 12 x 1.5	5.00-7.00	21.5 / 6.00	14 / 16	5.33	5.33	8.00	8.00	100	1778420000
VG M16-MS54 ZE	M 16 x 1.5	4.00-10.00	26 / 6.00	18 / 19	6.67	6.67	10.00	10.00	100	1778440000
VG M20-MS54 ZE	M 20 x 1.5	6.50-12.50	26.5 / 6.50	20 / 22	8.00	8.00	12.00	12.00	50	1778450000
VG M20-MS54 ZE	M 20 x 1.5	6.50-12.50	26.5 / 6.50	22 / 22	8.00	8.00	12.00	12.00	50	1778460000
VG M25-MS54 ZE	M 25 x 1.5	9.00-19.00	29.5 / 7.00	30 / 34	8.00	8.00	12.00	12.00	50	1778480000
VG M32-MS54 ZE	M 32 x 1.5	17.00-27.00	33 / 8.00	40 / 42	12.00	12.00	18.00	18.00	25	1778490000
VG M40-MS54 ZE	M 40 x 1.5	23.00-33.00	33 / 8.00	50 / 52	12.00	12.00	18.00	18.00	25	1778500000
VG M50-MS54 ZE	M 50 x 1.5	29.00-39.00	43 / 9.00	57 / 59	13.33	13.33	20.00	20.00	5	1778520000
VG M63-MS54 ZE	M 63 x 1.5	35.00-45.00	45 / 10.00	66 / 64	13.33	13.33	20.00	20.00	5	1778530000
<b>PG</b>										
VG 7-MS54-ZE	PG 7	5.00-7.00	27 / 5.00	14 / 16	8.33	8.33	12.50	12.50	50	1718800000
VG 9-MS54-ZE	PG 9	4.00-10.00	30.5 / 6.00	17 / 19	10.13	10.13	15.20	15.20	50	1718810000
VG 11-MS54-ZE	PG 11	6.50-12.50	31.5 / 6.00	20 / 22	12.40	12.40	18.60	18.60	50	1718820000
VG 13.5-MS54-ZE	PG 13.5	6.50-12.50	32 / 6.50	22 / 24	13.60	13.60	20.40	20.40	50	1718830000
VG 16-MS54-ZE	PG 16	6.50-15.00	33 / 6.50	24 / 27	15.00	15.00	22.50	22.50	50	1718840000
VG 21-MS54-ZE	PG 21	9.00-19.00	38 / 7.00	30 / 34	18.87	18.87	28.30	28.30	50	1718850000
VG 29-MS54-ZE	PG 29	17.00-27.00	43 / 8.00	40 / 42	24.67	24.67	37.00	37.00	25	1718860000
VG 36-MS54-ZE	PG 36	23.00-33.00	49.5 / 9.00	50 / 52	31.33	31.33	47.00	47.00	10	1718870000
VG 42-MS54-ZE	PG 42	29.00-39.00	53.5 / 10.00	57 / 62	36.00	36.00	54.00	54.00	5	1718880000
VG 48-MS54-ZE	PG 48	35.00-45.00	55 / 10.00	64 / 68	39.53	39.53	59.30	59.30	5	1718890000

**Note** Further versions on request

**Cable glands with strain-relief and bending protection**

Industrial brass cable glands with strain-relief and bending protection for connecting non-stationary cables and lines.

**Technical data**

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

**Note****Ordering data**

Type metric	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
VGM16-MS54ZE	M 16 x 1.5	4.00-10.00	5 / 5.00	17 / 18	2.50	2.50	4.00	4.00	50	1005190000
VGM16-MS54ZE	M 16 x 1.5	6.50-12.50	34 / 5.00	17 / 18	2.50	2.50	4.00	4.00	50	1005200000
VGM20-MS54ZE	M 20 x 1.5	6.50-12.50	37.8 / 6.00	22 / 22	8.00	8.00	12.00	12.00	50	1005210000
VGM20-MS54ZE	M 20 x 1.5	6.50-15.00	37.8 / 6.00	22 / 22	8.00	8.00	12.00	12.00	50	1005220000
VGM25-MS54ZE	M 25 x 1.5	9.00-19.00	44 / 7.00	30 / 30	8.00	8.00	12.00	12.00	25	1005230000
VGM32-MS54ZE	M 32 x 1.5	17.00-27.00	50.8 / 8.00	41 / 40	12.00	12.00	18.00	18.00	25	1005240000

**Note**

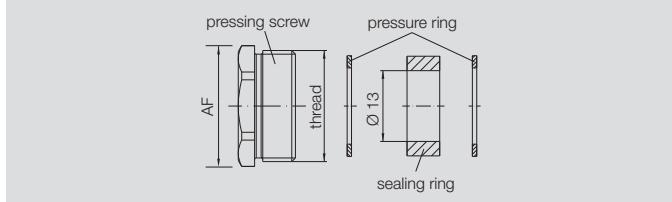
## Standard cable glands - Brass

### Brass clamping screws - IP 65



These special cable glands are designed for use in HDC RockStar® bases and hoods.

C



### Technical data

Clamping screw material	Nickel-plated brass
Sealing ring material	SBR/NBR
Pressure ring material	Polyamide
Temperature range	-20 °C...60 °C
Degree of protection with thread gasket	IP 65

### Note

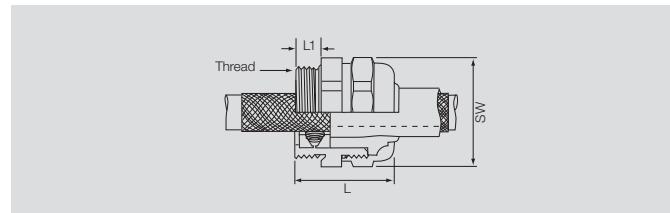
### Ordering data

Type	Thread	Inserts in mm	SW	Qty.	Order No.
<b>metric</b>					
VG H M20 MS	M 20 x 1.5	4 / 7 / 10 / 13	20	50	1921720000
VG H M25 MS	M 25 x 1.5	8.5 / 11.5 / 14.5 / 18	25	25	1921740000
VG H M32 MS	M 32 x 1.5	16 / 19 / 22 / 25	32	20	1921760000
VG H M40 MS	M 40 x 1.5	23 / 26 / 29 / 32	40	10	1921770000
<b>PG</b>					
KV 11-M	PG 11	7.5 / 10 / 12.5	10	10	1656390000
KV 13-M	PG 13	7.5 / 10 / 12.5	10	10	1656400000
KV 16-M	PG 16	7.5 / 10 / 12.5 / 15	10	10	1656410000
KV 21-M	PG 21	10 / 13 / 16 / 19	10	10	1656420000
KV 29-M	PG 29	18 / 21 / 24 / 27	10	10	1656430000

### Note

**Cable glands - Brass - EMC**

Brass cable gland for shielding against interference frequencies with a screening attenuation of up to 100 dB. Contact with cable shield by means of spring washer.

**Technical data**

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...135 °C
Degree of protection	IP 68 - 5 bar
Degree of protection with thread gasket	IP 68 - 10 bar
Clamp insert	TPE

<b>Note</b>	Length „L“ varies according to cable diameter used
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**Ordering data**

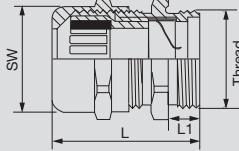
Type	Thread	KB	Shield Ø	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>											
VG EMV M18X1,5	M 18 x 1.5	6.50-9.00	3.50-7.50	41 / 10.00	24	30.00	9.00	30.00	30.00	50	1706920000
VG EMV M20X1,5	M 20 x 1.5	8.00-11.00	4.00-8.50	41 / 10.00	24	9.00	10.00	9.00	9.00	50	1706940000
VG EMV M24X1,5	M 24 x 1.5	14.00-18.00	9.50-16.50	43 / 11.00	30	10.00	10.00	10.00	10.00	50	1706930000
VG EMV M25X1,5	M 25 x 1.5	14.00-18.00	8.00-13.50	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1706950000
<b>PG</b>											
VG EMV PG 7/9	PG 7	4.00-6.50	1.50-4.00	32 / 5.00	17	20.00	6.00	20.00	20.00	50	1713870000
VG EMV PG 9/11	PG 9	6.50-9.50	2.50-6.00	34 / 6.00	20	6.00	8.00	6.00	6.00	50	1706860000
VG EMV PG 11	PG 11	6.50-9.00	3.50-7.50	41 / 10.00	24	10.00	10.00	10.00	10.00	50	1706870000
VG EMV PG 13,5	PG 13,5	8.00-11.00	4.00-8.50	41 / 10.00	24	10.00	10.00	10.00	10.00	50	1706880000
VG EMV PG 16 K14	PG 16	10.00-14.00	8.00-13.00	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1706890000
VG EMV PG 16 K18	PG 16	14.00-18.00	8.00-13.00	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1713880000
VG EMV PG 21 K18	PG 21	17.00-18.00	12.50-17.50	45 / 11.00	35	10.00	15.00	10.00	10.00	10	1706900000
VG EMV PG K28	PG 21	17.00-20.00	12.50-17.50	45 / 11.00	35	8.00	15.00	8.00	8.00	10	1713890000
VG EMV PG 29 K26	PG 29	22.00-26.00	15.00-21.00	52 / 13.00	40	15.00	20.00	15.00	15.00	10	1706910000
VG EMV PG 29 K29	PG 29	25.00-29.00	22.00-25.00	58 / 13.00	50	20.00	20.00	20.00	20.00	5	1713900000
VG EMV PG36 K32-27	PG 36	27.00-32.00	24.00-30.50	54 / 9.00	50	15.00	30.00	15.00	15.00	10	1770410000

<b>Note</b>	Further versions on request
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## Cable glands - Brass - 1/EMC



Brass cable gland for shielding against interference frequencies with a screening attenuation of up to 90 dB. Conical metal cage ensures multiple contacts with the cable shielding.



## Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP 68 - 5 bar
Degree of protection with thread gasket	IP 68 - 5 bar (30 min.), IP 69K
Clamp insert	Polyamide

**Note** Length „L“ varies according to cable diameter used

## Ordering data

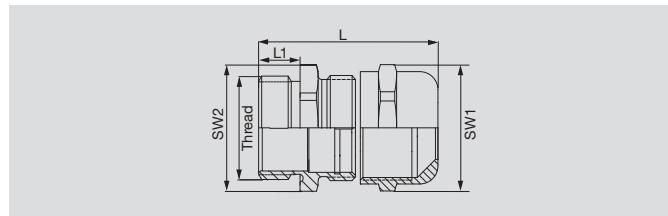
Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M12-MS 1/EMV	M 12 x 1.5	3.00-6.50	28.5 / 6.00	14	6.00	8.00	8.00	10.00	50	1909490000
VG M16-MS 1/EMV	M 16 x 1.5	4.50-10.00	37.3 / 7.00	20	5.00	7.00	8.00	10.00	50	1909500000
VG M20-MS 1/EMV	M 20 x 1.5	6.00-12.00	38.8 / 8.00	22	8.00	10.00	12.00	15.00	50	1909510000
VG M25-MS 1/EMV	M 25 x 1.5	11.00-17.00	42 / 8.00	27	6.00	8.00	9.00	12.00	25	1909520000
VG M32-MS 1/EMV	M 32 x 1.5	15.00-21.00	45 / 8.00	34	6.00	10.00	9.00	15.00	20	1909530000
VG M40-MS 1/EMV	M 40 x 1.5	19.00-28.00	55.1 / 9.00	43	7.00	10.00	10.00	15.00	10	1909540000
VG M50-MS 1/EMV	M 50 x 1.5	27.00-38.00	62.2 / 9.00	58	20.00	30.00	30.00	45.00	10	1909550000
VG M63-MS 1/EMV	M 63 x 1.5	34.00-44.00	71.5 / 14.00	64	23.00	28.00	30.00	40.00	5	1909560000

**Note** Further versions on request

## Cable glands - Stainless steel - IP68



Stainless steel cable glands for standard industrial applications that require a high (IP68) degree of protection. These cable glands – with their resistance to impact and sea water – are also suitable for use in applications under extreme environmental conditions.



## Technical data

Material	Stainless steel	
O-Ring / Seal insert	NBR / CR	
Temperature range	-40 °C...100 °C	
Degree of protection	IP68 - 5 bar (30 min), IP 69K	

## Note

## Ordering data

Type metric	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
VGM12-SS 68 KB 3-6.5	M 12 x 1.5	3.00-6.50	6.00	14	5.00	7.00	10.00	8.00	50	1009840000
VGM16-SS 68 KB 4-8	M 16 x 1.5	4.00-8.00	7.00	18	8.00	10.00	15.00	12.00	50	1009850000
VGM20-SS 68 KB 6-12	M 20 x 1.5	6.00-12.00	8.00	22	12.00	15.00	22.00	16.00	50	1009860000
VGM25-SS 68 KB 10-14	M 25 x 1.5	10.00-14.00	8.00	27	15.00	20.00	30.00	22.00	25	1009870000
VGM32-SS 68 KB 13-18	M 32 x 1.5	13.00-18.00	9.00	34	28.00	35.00	50.00	40.00	20	1009880000
VGM40-SS 68 KB 18-25	M 40 x 1.5	18.00-25.00	9.00	43	30.00	40.00	60.00	45.00	20	1009890000
VGM50-SS 68 KB 22-32	M 50 x 1.5	22.00-32.00	9.00	55	35.00	45.00	60.00	50.00	12	1009900000
VGM63-SS 68 KB 34-44	M 63 x 1.5	34.00-44.00	14.00	68	45.00	55.00	70.00	60.00	10	1009910000
<b>PG</b>										
VG 7-SS 68 KB 3-6.5	PG 7	3.00-6.50	6.00	14	5.00	7.00	10.00	8.00	50	1009740000
VG 9-SS 68 KB 4-8	PG 9	4.00-8.00	6.00	17	8.00	10.00	15.00	12.00	50	1009750000
VG 11-SS 68 KB 5-10	PG 11	5.00-10.00	6.00	20	10.00	13.00	20.00	15.00	50	1009760000
VG 13.5-SS 68 KB 6-12	PG 13.5	6.00-12.00	6.50	22	12.00	15.00	22.00	16.00	50	1009770000
VG 16-SS 68 KB 10-14	PG 16	10.00-14.00	6.50	24	15.00	20.00	30.00	22.00	25	1009780000
VG 21-SS 68 KB 13-18	PG 21	13.00-18.00	7.50	30	28.00	35.00	50.00	40.00	25	1009790000
VG 29-SS 68 KB 18-25	PG 29	18.00-25.00	8.00	40	30.00	40.00	60.00	45.00	20	1009800000
VG 36-SS 68 KB 22-32	PG 36	22.00-32.00	9.00	50	35.00	45.00	60.00	50.00	15	1009810000
VG 42-SS 68 KB 30-38	PG 42	30.00-38.00	12.00	58	40.00	50.00	70.00	55.00	12	1009820000
VG 48-SS 68 KB 34-44	PG 48	34.00-44.00	14.00	64	45.00	55.00	70.00	60.00	10	1009830000

## Note

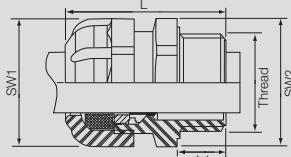
## Cable glands for Ex applications - Plastic

### Cable glands - Plastic - Ex e, IP 66 / IP 68



Black plastic cable gland with integrated strain relief mechanism – specially designed for Ex-e applications.

A membrane seal is included to ensure that no contamination occurs during transportation and storage.



#### Technical data

Material / Colour	Polyamide / RAL 9005
Seal insert	TPE
Temperature range	-20 °C...80 °C
Degree of protection	IP 66
Degree of protection with thread gasket	IP 68
Flammability rating	V-2
Clamp insert	Polyamide
Approval	Ex e II, II 2 GD

**Note** Optional sealing ring  
Length „L“ varies depending on the cable diameter used.

#### Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M16-EXE SW	M 16 x 1.5	5.00-8.00	34 / 9.00	19	2.00	2.00	2.00	2.00	20	1737280000
VG M20-EXE SW	M 20 x 1.5	8.00-13.00	35 / 10.00	24	3.00	3.00	3.00	3.00	20	1737290000
VG M25-EXE SW	M 25 x 1.5	13.00-19.00	42 / 13.00	32	6.50	6.50	6.50	6.50	20	1737300000
VG M32-EXE SW	M 32 x 1.5	18.00-25.00	44 / 15.00	41	15.00	15.00	15.00	15.00	10	1737310000
VG M40-EXE SW	M 40 x 1.5	24.00-32.00	50 / 15.00	52	20.00	20.00	20.00	20.00	10	1737320000
VG M50-EXE SW	M 50 x 1.5	29.00-38.00	56 / 16.00	59	40.00	40.00	40.00	40.00	5	1737330000
VG M63-EXE SW	M 63 x 1.5	36.00-44.00	58 / 16.00	65	60.00	60.00	60.00	60.00	5	1737340000
<b>PG</b>										
VG 7-EXE SW	PG 7	3.50-6.00	27 / 9.00	15	1.00	1.00	1.00	1.00	50	1569360000
VG 9-EXE SW	PG 9	5.00-8.00	31 / 9.00	19	2.00	2.00	2.00	2.00	20	1490500000
VG 11-EXE SW	PG 11	6.00-10.00	31 / 9.00	22	2.50	2.50	2.50	2.50	20	1490600000
VG 13,5-EXE SW	PG 13.5	8.00-13.00	33 / 10.00	24	3.00	3.00	3.00	3.00	20	1490700000
VG 16-EXE SW	PG 16	10.00-15.00	33 / 10.00	26	4.00	4.00	4.00	4.00	20	1490800000
VG 21-EXE SW	PG 21	13.00-19.00	40 / 11.00	32	6.50	6.50	6.50	6.50	20	1490900000
VG 29-EXE SW	PG 29	17.00-25.00	41 / 12.00	41	15.00	15.00	15.00	15.00	10	1491000000
VG 36-EXE SW	PG 36	24.00-32.00	49 / 14.00	52	20.00	20.00	20.00	20.00	10	1491100000
VG 42-EXE SW	PG 42	29.00-38.00	56 / 16.00	59	40.00	40.00	40.00	40.00	10	1491200000
VG 48-EXE SW	PG 48	36.00-44.00	60 / 16.00	65	60.00	60.00	60.00	60.00	5	1718970000

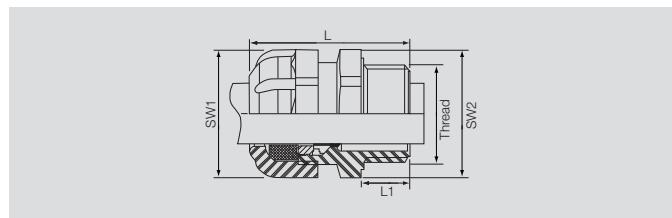
**Note** Further versions on request

## Cable glands - Plastic - Ex i, IP 66 / IP 68



Blue plastic cable gland with integrated strain relief mechanism – specially designed for Ex-i applications.

A membrane seal is included to ensure that no contamination occurs during transportation and storage.



## Technical data

Material / Colour	Polyamide / RAL 5012
Seal insert	TPE
Temperature range	-20 °C...80 °C
Degree of protection	IP 66
Degree of protection with thread gasket	IP 68
Flammability rating	V-2
Clamp insert	Polyamide
Approval	Ex i II, II 2 GD

**Note** Optional sealing ring  
Length „L“ varies depending on the cable diameter used.

## Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M16-EXI BL	M 16 x 1.5	5.00-8.00	34 / 9.00	19	2.00	2.00	2.00	2.00	20	1737350000
VG M20-EXI BL	M 20 x 1.5	8.00-13.00	35 / 10.00	24	3.00	3.00	3.00	3.00	20	1737360000
VG M25-EXI BL	M 25 x 1.5	13.00-19.00	42 / 13.00	32	6.50	6.50	6.50	6.50	20	1737370000
VG M32-EXI BL	M 32 x 1.5	18.00-25.00	44 / 15.00	41	15.00	15.00	15.00	15.00	10	1737380000
VG M40-EXI BL	M 40 x 1.5	24.00-32.00	50 / 15.00	52	20.00	20.00	20.00	20.00	10	1737390000
VG M50-EXI BL	M 50 x 1.5	29.00-38.00	56 / 16.00	59	40.00	40.00	40.00	40.00	5	1737400000
VG M63-EXI BL	M 63 x 1.5	36.00-44.00	58 / 16.00	65 / 67	60.00	60.00	60.00	60.00	5	1737410000
<b>PG</b>										
VG 7-EXI BL	PG 7	3.50-6.00	27 / 9.00	15	1.00	1.00	1.00	1.00	50	1569370000
VG 9-EXI BL	PG 9	5.00-8.00	31 / 9.00	19	2.00	2.00	2.00	2.00	20	1491300000
VG 11-EXI BL	PG 11	6.00-10.00	31 / 9.00	22	2.50	2.50	2.50	2.50	20	1491400000
VG 13,5-EXI BL	PG 13.5	8.00-13.00	33 / 10.00	24	3.00	3.00	3.00	3.00	20	1491500000
VG 16-EXI BL	PG 16	10.00-15.00	33 / 10.00	26	4.00	4.00	4.00	4.00	20	1491600000
VG 21-EXI BL	PG 21	13.00-19.00	40 / 11.00	32	6.50	6.50	6.50	6.50	20	1491700000
VG 29-EXI BL	PG 29	17.00-25.00	41 / 12.00	41	15.00	15.00	15.00	15.00	10	1491800000
VG 36-EXI BL	PG 36	24.00-32.00	49 / 14.00	52	20.00	20.00	20.00	20.00	10	1491900000
VG 42-EXI BL	PG 42	29.00-38.00	56 / 16.00	59	40.00	40.00	40.00	40.00	10	1492000000
VG 48-EXI BL	PG 48	36.00-44.00	60 / 16.00	65	60.00	60.00	60.00	60.00	5	1718980000

**Note** Further versions on request

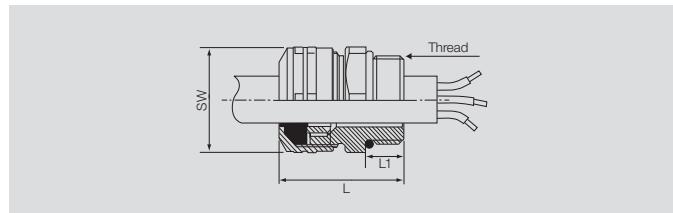
## Cable glands for Ex applications - Brass

### Cable glands - Brass - Ex e, IP 68



Brass nickel-plated cable gland for use in Ex zones Ex-e and Ex-i.

C



#### Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP 68 - 5 bar (30 min.)
Approval	Ex e II, II 2 GD

Note	Length „L“ varies according to cable diameter used
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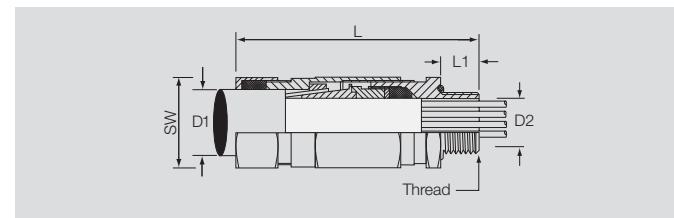
#### Ordering data

Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VG M16-EXE MS	M 16 x 1.5	6.00-11.00	28 / 8.00	22	25.00	25.00	5.00	5.00	50	1737210000
VG M20-EXE MS	M 20 x 1.5	8.50-13.00	28 / 8.00	24	27.50	27.50	6.00	6.00	50	1737220000
VG M25-EXE MS	M 25 x 1.5	13.50-18.00	33 / 9.00	30	45.00	45.00	10.00	10.00	20	1737230000
VG M32-EXE MS	M 32 x 1.5	17.50-25.00	38 / 10.00	41	85.00	85.00	17.50	17.50	20	1737240000
VG M40-EXE MS	M 40 x 1.5	24.50-33.50	49 / 11.00	52	135.00	135.00	27.50	27.50	10	1737250000
VG M50-EXE MS	M 50 x 1.5	33.00-43.00	54 / 12.00	63	200.00	200.00	40.00	40.00	5	1737260000
VG M63-EXE MS	M 63 x 1.5	42.50-55.00	60 / 13.00	77	300.00	300.00	60.00	60.00	5	1737270000
<b>PG</b>										
VG 7-EXE MS	PG 7	4.00-8.00	24 / 7.00	18	15.00	15.00	3.00	3.00	50	1718990000
VG 9-EXE MS	PG 9	6.00-11.00	28 / 8.00	22	25.00	25.00	5.00	5.00	50	1719000000
VG 11-EXE MS	PG 11	8.50-13.00	28 / 8.00	24	27.50	27.50	6.00	6.00	50	1719010000
VG 13,5-EXE MS	PG 13.5	8.50-13.00	32 / 8.00	24	27.50	27.50	6.00	6.00	50	1719020000
VG 16-EXE MS	PG 16	17.50-18.00	33 / 9.00	30	45.00	45.00	10.00	10.00	25	1719030000
VG 21-EXE MS	PG 21	17.50-23.50	38 / 10.00	41	85.00	85.00	17.50	17.50	20	1719040000
VG 29-EXE MS	PG 29	24.50-31.50	49 / 11.00	52	135.00	135.00	27.50	27.50	20	1719050000
VG 36-EXE MS	PG 36	33.00-40.50	54 / 12.00	63	135.00	135.00	27.50	27.50	10	1719060000
VG 42-EXE MS	PG 42	33.00-43.00	54 / 12.00	63	200.00	200.00	40.00	40.00	10	1719070000
VG 48-EXE MS	PG 48	33.00-43.00	60 / 13.00	77	300.00	300.00	60.00	60.00	5	1719080000

Note	Further versions - also in stainless steel - available on request
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**Klippon® cable glands - Brass - Ex-e, Ex-d, IP 68 for armoured and non-armoured cables**

All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.

**Technical data**

Material	Brass
O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

<b>Note</b>	Length „L“ varies according to cable diameter used.
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**Ordering data**

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSU M20 BN O SC 1 G16	M 20 x 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	1076120000
KDSU M20 BN O SC 2 G16	M 20 x 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	1909260000
KDSU M20 BN O SC 1 G20S	M 20 x 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	1076130000
KDSU M20 BN O SC 2 G20S	M 20 x 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	1909290000
KDSU M20 BN O SC 1 G20	M 20 x 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	1076140000
KDSU M20 BN O SC 2 G20	M 20 x 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	1909300000
KDSU M25 BN O SC 2 G25	M 25 x 1.5	30.50-23.90	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	1076150000
KDSU M25 BN O SC 1 G25	M 25 x 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	1909310000
KDSU M32 BN O SC 1 G32	M 32 x 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	1076160000
KDSU M32 BN O SC 2 G32	M 32 x 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	1909320000
KDSU M40 BN O SC 1 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1076170000
KDSU M40 BN O SC 2 G40	M 40 x 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1909330000
KDSU M50 BN O SC 1 G50S	M 50 x 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	1076180000
KDSU M50 BN O SC 2 G50S	M 50 x 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	1909340000
KDSU M50 BN O SC 1 G50	M 50 x 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1076190000
KDSU M50 BN O SC 2 G50	M 50 x 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1909350000
KDSU M63 BN O SC 1 G63S	M 63 x 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1076200000
KDSU M63 BN O SC 2 G63S	M 63 x 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1909360000
KDSU M63 BN O SC 1 G63	M 63 x 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1076210000
KDSU M63 BN O SC 2 G63	M 63 x 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1909370000
KDSU M75 BN O SC 1 G75S	M 75 x 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1076220000
KDSU M75 BN O SC 2 G75S	M 75 x 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1076230000
KDSU M75 BN O SC 1 G75	M 75 x 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1076240000
KDSU M75 BN O SC 2 G75	M 75 x 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1076260000

<b>Note</b>	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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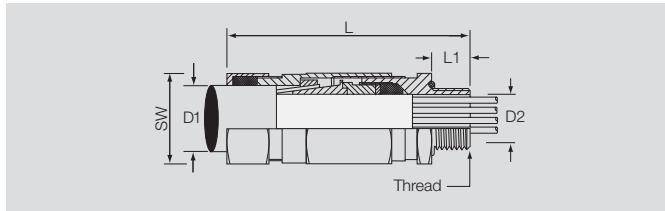
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.

C



#### Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

#### Note

Length „L“ varies according to cable diameter used.

#### Ordering data

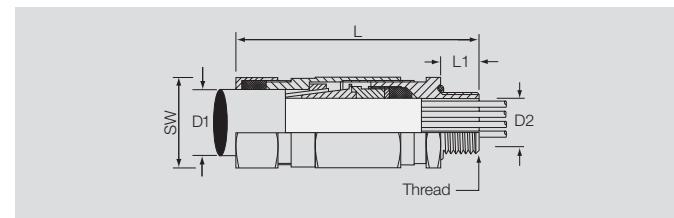
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSU M20 BN O NI 1 G16	M 20 x 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	1083280000
KDSU M20 BN O NI 2 G16	M 20 x 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	1911380000
KDSU M20 BN O NI 1 G20S	M 20 x 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	1083290000
KDSU M20 BN O NI 2 G20S	M 20 x 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	1911390000
KDSU M20 BN O NI 1 G20	M 20 x 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	1083320000
KDSU M20 BN O NI 2 G20	M 20 x 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	1911400000
KDSU M25 BN O NI 1 G25	M 25 x 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	1083330000
KDSU M25 BN O NI 2 G25	M 25 x 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	1911420000
KDSU M32 BN O NI 1 G32	M 32 x 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	1083340000
KDSU M32 BN O NI 2 G32	M 32 x 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	1911430000
KDSU M40 BN O NI 1 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1083350000
KDSU M40 BN O NI 2 G40	M 40 x 1.5	33.00-40.60	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1911440000
KDSU M50 BN O NI 1 G50	M 50 x 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1083370000
KDSU M50 BN O NI 2 G50	M 50 x 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1911460000
KDSU M50 BN O NI 1 G50S	M 50 x 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	1083360000
KDSU M50 BN O NI 2 G50S	M 50 x 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	1911450000
KDSU M63 BN O NI 1 G63S	M 63 x 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1083380000
KDSU M63 BN O NI 2 G63S	M 63 x 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1911480000
KDSU M63 BN O NI 1 G63	M 50 x 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 16.00	80	160	EL80	1	1083390000
KDSU M63 BN O NI 2 G63	M 63 x 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1911490000
KDSU M75 BN O NI 1 G75S	M 75 x 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1083400000
KDSU M75 BN O NI 2 G75S	M 75 x 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1083410000
KDSU M75 BN O NI 1 G75	M 75 x 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1083420000
KDSU M75 BN O NI 2 G75	M 75 x 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1083430000

#### Note

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely to prevent being placed under a tensile load.

**Klippon® cable glands - Brass - Ex-e, Ex-d, IP 68 for armoured and non-armoured cables**

All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.

**Technical data**

Material	Brass
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

**Note****Ordering data**

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSU M20 BS O SC 1 G16	M 20 x 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930001211
KDSU M20 BS O SC 2 G16	M 20 x 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930001212
KDSU M20 BS O SC 1 G20S	M 20 x 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930011213
KDSU M20 BS O SC 2 G20S	M 20 x 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930011214
KDSU M20 BS O SC 1 G20	M 20 x 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	0930021211
KDSU M20 BS O SC 2 G20	M 20 x 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	0930021212
KDSU M25 BS O SC 1 G25	M 25 x 1.5	20.30-27.40	20.00-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	0930031211
KDSU M25 BS O SC 2 G25	M 25 x 1.5	20.30-27.40	20.00-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	0930031212
KDSU M32 BS O SC 1 G32	M 32 x 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	0930041211
KDSU M32 BS O SC 2 G32	M 32 x 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	0930041212
KDSU M40 BS O SC 1 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1136870000
KDSU M40 BS O SC 2 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	0930051212
KDSU M50 BS O SC 1 G50S	M 50 x 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	0930061213
KDSU M50 BS O SC 2 G50S	M 50 x 1.5	39.40-46.70	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	1136880000
KDSU M50 BS O SC 1 G50	M 50 x 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1136890000
KDSU M50 BS O SC 2 G50	M 50 x 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1136910000
KDSU M63 BS O SC 1 G63S	M 63 x 1.5	47.50-54.80	9.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1136920000
KDSU M63 BS O SC 2 G63S	M 63 x 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1136930000
KDSU M63 BS O SC 1 G63	M 63 x 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1136940000
KDSU M63 BS O SC 2 G63	M 63 x 1.5	58.40-65.80	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1136950000
KDSU M75 BS O SC 1 G75	M 75 x 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1136980000
KDSU M75 BS O SC 2 G75	M 75 x 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	0930111212
KDSU M75 BS O SC 1 G75S	M 75 x 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1136960000
KDSU M75 BS O SC 2 G75S	M 75 x 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1136970000

**Note**

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely to prevent being placed under a tensile load.

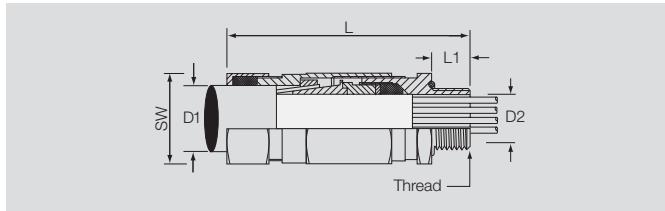
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.

C



#### Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

#### Note

#### Ordering data

Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSU M20 BS O NI 1 G16	M 20 x 1.5	6.70-10.30	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930001221
KDSU M20 BS O NI 2 G16	M 20 x 1.5	9.00-13.50	3.40-8.40	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930001222
KDSU M20 BS O NI 1 G20	M 20 x 1.5	12.00-17.60	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	0930021221
KDSU M20 BS O NI 2 G20	M 20 x 1.5	15.50-21.10	9.40-14.00	0.15-1.25	78 / 16.00	30	32.5	EL30	20	0930021222
KDSU M20 BS O NI 1 G20S	M 20 x 1.5	9.40-12.50	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930011223
KDSU M20 BS O NI 2 G20S	M 20 x 1.5	11.50-16.00	7.20-11.70	0.15-1.25	78 / 16.00	25	32.5	L24	20	0930011224
KDSU M25 BS O NI 1 G25	M 25 x 1.5	16.80-23.90	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	0930031221
KDSU M25 BS O NI 2 G25	M 25 x 1.5	20.30-27.40	13.50-20.00	0.15-1.6	90 / 16.00	38	50	EL38	20	0930031222
KDSU M32 BS O NI 1 G32	M 32 x 1.5	23.20-30.50	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	0930041221
KDSU M32 BS O NI 2 G32	M 32 x 1.5	26.70-34.00	19.50-26.30	0.15-2	105 / 16.00	46	80	EL46	10	0930041222
KDSU M40 BS O NI 1 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	1136990000
KDSU M40 BS O NI 2 G40	M 40 x 1.5	28.60-36.20	23.00-32.20	0.2-2	113 / 16.00	55	80	EL55	10	0930051222
KDSU M50 BS O NI 1 G50	M 50 x 1.5	41.10-48.50	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1137010000
KDSU M50 BS O NI 2 G50	M 50 x 1.5	45.70-53.20	33.10-44.10	0.3-2.5	125 / 16.00	65	100	EL65	1	1137020000
KDSU M50 BS O NI 1 G50S	M 50 x 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	10	1137000000
KDSU M50 BS O NI 2 G50S	M 50 x 1.5	34.80-42.40	28.10-38.20	0.3-2.5	125 / 16.00	65	100	EL65	1	0930061224
KDSU M63 BS O NI 1 G63	M 63 x 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	1137050000
KDSU M63 BS O NI 2 G63	M 63 x 1.5	53.80-61.20	46.70-56.00	0.3-2.5	125 / 19.00	80	160	EL80	1	0930091222
KDSU M63 BS O NI 1 G63S	M 63 x 1.5	47.50-54.80	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1137030000
KDSU M63 BS O NI 2 G63S	M 63 x 1.5	52.10-59.50	39.20-50.10	0.3-2.5	125 / 19.00	80	160	EL80	1	1137040000
KDSU M75 BS O NI 1 G75	M 75 x 1.5	66.50-73.40	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1137080000
KDSU M75 BS O NI 2 G75	M 75 x 1.5	71.10-78.00	58.00-68.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1137090000
KDSU M75 BS O NI 1 G75S	M 75 x 1.5	60.20-68.00	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1137060000
KDSU M75 BS O NI 2 G75S	M 75 x 1.5	64.80-72.20	52.10-62.00	0.3-2.5	131 / 19.00	90	200	EL90	1	1137070000

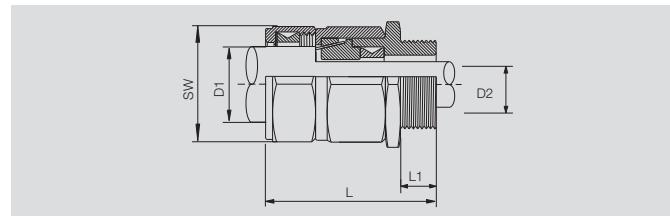
#### Note

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely to prevent being placed under a tensile load.

## Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring.



## Technical data

Material	Brass
Seal insert	CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex td A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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## Ordering data

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSW M20 BN O SC 1 G16	M 20 x 1.5	4.00-10.00	4.90-8.40	0.9	58 / 16.00	16	32.5	L24	20	1074480000
KDSW M20 BN O SC 2 G16	M 20 x 1.5	4.00-13.50	8.40-8.40	0.9	58 / 16.00	16	32.5	L24	20	1074490000
KDSW M20 BN O SC 1 G20S	M 20 x 1.5	8.00-12.50	9.40-11.70	0.9-1.25	58 / 16.00	16	32.5	L24	20	1074500000
KDSW M20 BN O SC 2 G20S	M 20 x 1.5	8.00-16.00	11.50-11.70	0.9-1.25	58 / 16.00	16	32.5	L24	20	1074510000
KDSW M20 BN O SC 1 G20	M 20 x 1.5	6.70-17.60	12.00-14.00	0.9-1.25	58 / 16.00	16	32.5	L30	20	1074520000
KDSW M20 BN O SC 2 G20	M 20 x 1.5	6.70-21.10	15.50-14.00	0.9-1.25	58 / 16.00	16	32.5	L30	20	1074530000
KDSW M25 BN O SC 1 G25	M 25 x 1.5	13.00-23.90	16.80-20.00	1.25-1.6	58 / 16.00	16	47.5	L38	20	1074540000
KDSW M25 BN O SC 2 G25	M 25 x 1.5	13.00-27.40	20.30-20.00	1.25-1.6	58 / 16.00	16	47.5	L38	20	1074550000
KDSW M32 BN O SC 1 G32	M 32 x 1.5	19.00-30.50	23.20-26.30	1.6-2	65 / 16.00	16	55	L46	10	1074570000
KDSW M32 BN O SC 2 G32	M 32 x 1.5	19.00-34.00	26.70-26.30	1.6-2	65 / 16.00	16	55	L46	10	1074580000
KDSW M40 BN O SC 1 G40	M 40 x 1.5	25.00-36.20	28.60-32.20	1.6-2	72 / 16.00	16	65	L55	10	1074590000
KDSW M40 BN O SC 2 G40	M 40 x 1.5	25.00-40.60	33.00-32.20	1.6-2	72 / 16.00	16	65	L55	10	1074610000
KDSW M50 BN O SC 1 G50S	M 50 x 1.5	31.50-42.40	34.80-38.20	2-2.5	73 / 16.00	16	80	L65	1	1074620000
KDSW M50 BN O SC 2 G50S	M 50 x 1.5	31.50-46.70	39.40-38.20	2-2.5	73 / 16.00	16	80	L65	1	1074630000
KDSW M50 BN O SC 1 G50	M 50 x 1.5	36.50-48.50	41.10-44.10	2-2.5	73 / 16.00	16	80	L65	1	1074640000
KDSW M50 BN O SC 2 G50	M 50 x 1.5	36.50-53.20	45.70-44.10	2-2.5	73 / 16.00	16	80	L65	1	1074650000
KDSW M63 BN O SC 1 G63S	M 63 x 1.5	42.50-54.80	47.50-50.10	2.5	76 / 19.00	19	95	L80	1	1074670000
KDSW M63 BN O SC 2 G63S	M 63 x 1.5	42.50-59.50	52.10-50.10	2.5	76 / 19.00	19	95	L80	1	1074710000
KDSW M63 BN O SC 1 G63	M 63 x 1.5	49.50-61.20	53.80-56.00	2.5	76 / 19.00	19	95	L80	1	1074730000
KDSW M63 BN O SC 2 G63	M 63 x 1.5	49.50-65.80	58.40-56.00	2.5	76 / 19.00	19	95	L80	1	1074750000
KDSW M75 BN O SC 1 G75S	M 75 x 1.5	54.50-68.00	60.20-62.00	2.5	82 / 19.00	19	110	L90	1	1074770000
KDSW M75 BN O SC 2 G75S	M 75 x 1.5	54.50-72.20	64.80-62.00	2.5	82 / 19.00	19	110	L90	1	1074790000
KDSW M75 BN O SC 1 G75	M 75 x 1.5	60.50-73.40	66.50-68.00	2.5	82 / 19.00	19	110	L90	1	1074820000
KDSW M75 BN O SC 2 G75	M 75 x 1.5	60.50-78.00	71.10-68.00	2.5	82 / 19.00	19	110	L90	1	1074840000

Note	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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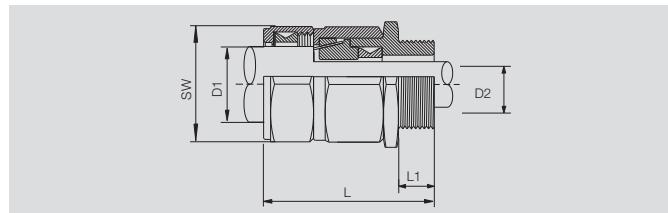
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring.

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#### Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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#### Ordering data

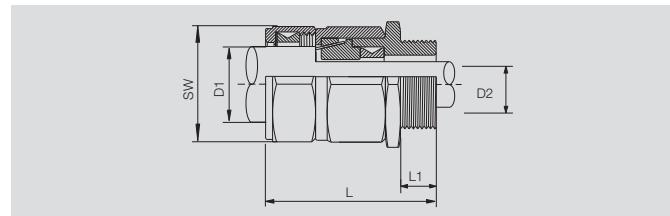
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSW M20 BN O NI 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1075030000
KDSW M20 BN O NI 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1075040000
KDSW M20 BN O NI 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16.00	30	32.5	L30	20	1075070000
KDSW M20 BN O NI 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16.00	24	32.5	L30	20	1075080000
KDSW M20 BN O NI 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16.00	30	32.5	L24	20	1075050000
KDSW M20 BN O NI 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1075060000
KDSW M25 BN O NI 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1075090000
KDSW M25 BN O NI 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1075110000
KDSW M32 BN O NI 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1075120000
KDSW M32 BN O NI 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1075130000
KDSW M40 BN O NI 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1075140000
KDSW M40 BN O NI 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1075150000
KDSW M50 BN O NI 1 G50	M 50 x 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1075180000
KDSW M50 BN O NI 2 G50	M 50 x 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1075190000
KDSW M50 BN O NI 1 G50S	M 50 x 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1075160000
KDSW M50 BN O NI 2 G50S	M 50 x 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1075170000
KDSW M63 BN O NI 1 G63	M 63 x 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1075230000
KDSW M63 BN O NI 2 G63	M 63 x 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1075240000
KDSW M63 BN O NI 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1075210000
KDSW M63 BN O NI 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1075220000
KDSW M75 BN O NI 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1075270000
KDSW M75 BN O NI 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1075280000
KDSW M75 BN O NI 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1075250000
KDSW M75 BN O NI 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1075260000

<b>Note</b>	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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## Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring.



## Technical data

Material	Brass
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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## Ordering data

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSW M20 BS O SC 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1136160000
KDSW M20 BS O SC 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1136170000
KDSW M20 BS O SC 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1136180000
KDSW M20 BS O SC 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1136190000
KDSW M20 BS O SC 1 G20	M 20 x 1.5	12.00-17.60	14.00-6.70	0.9-1.25	58 / 16.00	30	32.5	L30	20	1136200000
KDSW M20 BS O SC 2 G20	M 20 x 1.5	15.50-21.10	14.00-6.70	0.9-1.25	58 / 16.00	30	32.5	L30	20	1136210000
KDSW M25 BS O SC 1 G25	M 25 x 1.5	16.80-23.90	20.00-13.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1136220000
KDSW M25 BS O SC 2 G25	M 25 x 1.5	20.30-27.40	20.00-13.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1136230000
KDSW M32 BS O SC 1 G32	M 32 x 1.5	23.20-30.50	26.30-19.00	1.6-2	65 / 16.00	46	55	L46	10	1136240000
KDSW M32 BS O SC 2 G32	M 32 x 1.5	26.70-34.00	26.30-19.00	1.6-2	65 / 16.00	46	55	L46	10	1136250000
KDSW M40 BS O SC 1 G40	M 40 x 1.5	28.60-36.20	32.20-25.00	1.6-2	72 / 16.00	55	65	L55	10	1136260000
KDSW M40 BS O SC 2 G40	M 40 x 1.5	33.00-40.60	32.20-25.00	1.6-2	72 / 16.00	55	65	L55	10	1136270000
KDSW M50 BS O SC 1 G50S	M 50 x 1.5	34.80-42.40	38.20-31.50	2-2.5	73 / 16.00	65	80	L65	1	1136280000
KDSW M50 BS O SC 2 G50S	M 50 x 1.5	39.40-46.70	38.20-31.50	2-2.5	73 / 16.00	65	80	L65	1	1136290000
KDSW M50 BS O SC 1 G50	M 50 x 1.5	41.10-48.50	44.10-36.50	2-2.5	73 / 16.00	65	80	L65	1	1136310000
KDSW M50 BS O SC 2 G50	M 50 x 1.5	45.70-53.20	44.10-36.50	2-2.5	73 / 16.00	65	80	L65	1	1136320000
KDSW M63 BS O SC 1 G63S	M 63 x 1.5	47.50-54.80	50.10-42.50	2.5	76 / 19.00	80	95	L80	1	1136330000
KDSW M63 BS O SC 2 G63S	M 63 x 1.5	52.10-59.50	50.10-42.50	2.5	76 / 19.00	80	95	L80	1	1136340000
KDSW M63 BS O SC 1 G63	M 63 x 1.5	53.80-61.20	56.00-49.50	2.5	76 / 19.00	80	95	L80	1	1136350000
KDSW M63 BS O SC 2 G63	M 63 x 1.5	58.40-65.80	56.00-49.50	2.5	76 / 19.00	80	95	L80	1	1136360000
KDSW M75 BS O SC 1 G75S	M 75 x 1.5	60.20-68.00	62.00-54.50	2.5	82 / 19.00	90	110	L90	1	1136370000
KDSW M75 BS O SC 2 G75S	M 75 x 1.5	64.80-72.20	62.00-54.50	2.5	82 / 19.00	90	110	L90	1	1136380000
KDSW M75 BS O SC 1 G75	M 75 x 1.5	66.50-73.40	68.00-60.50	2.5	82 / 19.00	90	110	L90	1	1136390000
KDSW M75 BS O SC 2 G75	M 75 x 1.5	71.10-78.00	68.00-60.50	2.5	82 / 19.00	90	110	L90	1	1136400000

Note	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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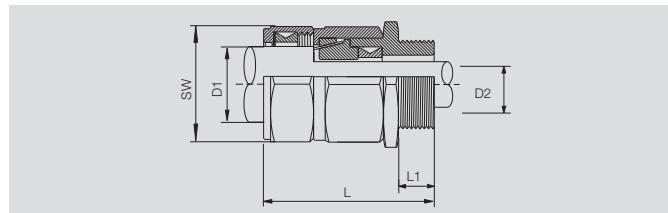
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring.

C



#### Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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#### Ordering data

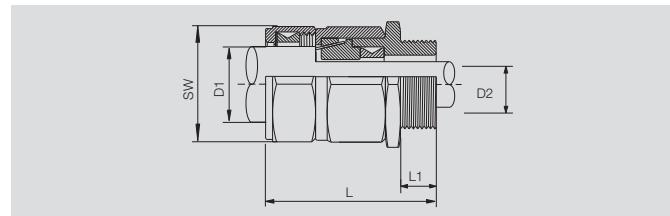
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSW M20 BS O NI 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16.00	16	32.5	L24	20	1136410000
KDSW M20 BS O NI 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16.00	16	32.5	L24	20	1136420000
KDSW M20 BS O NI 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16.00	16	32.5	L30	20	1136450000
KDSW M20 BS O NI 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16.00	16	32.5	L30	20	1136460000
KDSW M20 BS O NI 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16.00	16	32.5	L24	20	1136430000
KDSW M20 BS O NI 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16.00	16	32.5	L24	20	1136440000
KDSW M25 BS O NI 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16.00	16	47.5	L38	20	1136470000
KDSW M25 BS O NI 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16.00	16	47.5	L38	20	1136480000
KDSW M32 BS O NI 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16.00	16	55	L46	10	1136490000
KDSW M32 BS O NI 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16.00	16	55	L46	10	1136510000
KDSW M40 BS O NI 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16.00	16	65	L55	10	1136520000
KDSW M40 BS O NI 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16.00	16	65	L55	10	1136530000
KDSW M50 BS O NI 1 G50	M 50 x 1.5	41.10-48.50	31.50-38.20	2-2.5	73 / 16.00	16	80	L65	1	1136560000
KDSW M50 BS O NI 2 G50	M 50 x 1.5	45.70-53.20	31.50-38.20	2-2.5	73 / 16.00	16	80	L65	1	1136570000
KDSW M50 BS O NI 1 G50S	M 50 x 1.5	34.80-42.40	36.50-44.10	2-2.5	73 / 16.00	16	80	L65	1	1136540000
KDSW M50 BS O NI 2 G50S	M 50 x 1.5	39.40-46.70	36.50-44.10	2-2.5	73 / 16.00	16	80	L65	1	1136550000
KDSW M63 BS O NI 1 G63	M 63 x 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19.00	19	95	L80	1	1136600000
KDSW M63 BS O NI 2 G63	M 63 x 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19.00	19	95	L80	1	1136610000
KDSW M63 BS O NI 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19.00	19	95	L80	1	1136580000
KDSW M63 BS O NI 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19.00	19	95	L80	1	1136590000
KDSW M75 BS O NI 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19.00	19	110	L90	1	1136640000
KDSW M75 BS O NI 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19.00	19	110	L90	1	1136650000
KDSW M75 BS O NI 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19.00	19	110	L90	1	1136620000
KDSW M75 BS O NI 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19.00	19	110	L90	1	1136630000

<b>Note</b>	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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## Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring and lead-sheath armouring



## Technical data

Material	Brass
Seal insert	CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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## Ordering data

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSW M20 BN L SC 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1076250000
KDSW M20 BN L SC 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1076270000
KDSW M20 BN L SC 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1076280000
KDSW M20 BN L SC 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1076290000
KDSW M20 BN L SC 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16.00	30	32.5	L30	20	1076300000
KDSW M20 BN L SC 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16.00	30	32.5	L30	20	1076310000
KDSW M25 BN L SC 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1076320000
KDSW M25 BN L SC 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1076330000
KDSW M32 BN L SC 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1076340000
KDSW M32 BN L SC 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1076350000
KDSW M40 BN L SC 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1076360000
KDSW M40 BN L SC 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1076370000
KDSW M50 BN L SC 1 G50S	M 50 x 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1076380000
KDSW M50 BN L SC 2 G50S	M 50 x 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1076390000
KDSW M50 BN L SC 1 G50	M 50 x 1.5	41.10-48.50	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1076400000
KDSW M50 BN L SC 2 G50	M 50 x 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1076410000
KDSW M63 BN L SC 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1076420000
KDSW M63 BN L SC 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1076430000
KDSW M63 BN L SC 1 G63	M 63 x 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1076440000
KDSW M63 BN L SC 2 G63	M 63 x 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1076450000
KDSW M75 BN L SC 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1076460000
KDSW M75 BN L SC 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1076470000
KDSW M75 BN L SC 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1076480000
KDSW M75 BN L SC 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1076490000

Note	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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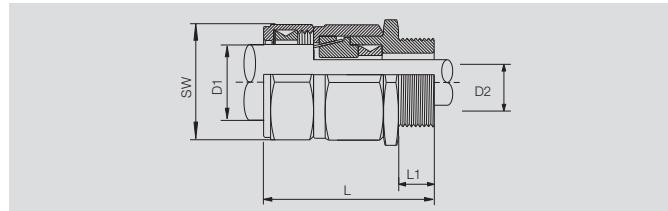
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland for cables and lines with single-wire armouring and lead-sheath armouring

C



#### Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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#### Ordering data

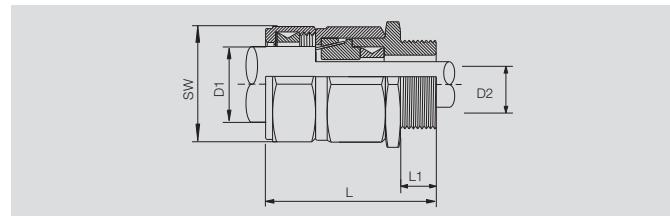
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSW M20 BN L NI 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1074660000
KDSW M20 BN L NI 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.9	58 / 16.00	24	32.5	L24	20	1074690000
KDSW M20 BN L NI 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.9-1.25	58 / 16.00	30	32.5	L30	20	1074760000
KDSW M20 BN L NI 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.9-1.25	58 / 16.00	30	32.5	L30	20	1074780000
KDSW M20 BN L NI 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1074720000
KDSW M20 BN L NI 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.9-1.25	58 / 16.00	24	32.5	L24	20	1074740000
KDSW M25 BN L NI 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1074810000
KDSW M25 BN L NI 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	1.25-1.6	58 / 16.00	38	47.5	L38	20	1074830000
KDSW M32 BN L NI 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1074850000
KDSW M32 BN L NI 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	1.6-2	65 / 16.00	46	55	L46	10	1074860000
KDSW M40 BN L NI 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1074870000
KDSW M40 BN L NI 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	1.6-2	72 / 16.00	55	65	L55	10	1074880000
KDSW M50 BN L NI 1 G50	M 50 x 1.5	41.40-48.50	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1074920000
KDSW M50 BN L NI 2 G50	M 50 x 1.5	45.70-53.20	36.50-44.10	2-2.5	73 / 16.00	65	80	L65	1	1074930000
KDSW M50 BN L NI 1 G50S	M 50 x 1.5	34.80-42.40	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1074980000
KDSW M50 BN L NI 2 G50S	M 50 x 1.5	39.40-46.70	31.50-38.20	2-2.5	73 / 16.00	65	80	L65	1	1074910000
KDSW M63 BN L NI 1 G63	M 63 x 1.5	53.80-61.20	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1074960000
KDSW M63 BN L NI 2 G63	M 63 x 1.5	58.40-65.80	49.50-56.00	2.5	76 / 19.00	80	95	L80	1	1074970000
KDSW M63 BN L NI 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1074940000
KDSW M63 BN L NI 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	2.5	76 / 19.00	80	95	L80	1	1074950000
KDSW M75 BN L NI 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1075010000
KDSW M75 BN L NI 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	2.5	82 / 19.00	90	110	L90	1	1075020000
KDSW M75 BN L NI 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1074980000
KDSW M75 BN L NI 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	2.5	82 / 19.00	90	110	L90	1	1074990000

<b>Note</b>	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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## Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland with braided armouring for cables and lines.



## Technical data

Material	Brass
Seal insert	CR
Temperature range	-60 °C...180 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex d A21 IP68, IECEx Ex d IIC / Ex e II

Note	Without the GWDR IP54; the GWDR must be ordered separately.
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## Ordering data

Type metric, brass	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
KDSX M20 BS O SC 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135650000
KDSX M20 BS O SC 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135660000
KDSX M20 BS O SC 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135670000
KDSX M20 BS O SC 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135680000
KDSX M20 BS O SC 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.15-0.5	58 / 16.00	30	32.5	L30	20	1135690000
KDSX M20 BS O SC 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.15-0.5	58 / 16.00	30	32.5	L30	20	1135710000
KDSX M25 BS O SC 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	0.15-0.5	58 / 16.00	38	47.5	L38	20	1135720000
KDSX M25 BS O SC 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	0.15-0.5	58 / 16.00	38	47.5	L38	20	1135730000
KDSX M32 BS O SC 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	0.15-0.55	65 / 16.00	46	55	L46	10	1135740000
KDSX M32 BS O SC 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	0.15-0.55	65 / 16.00	46	55	L46	10	1135750000
KDSX M40 BS O SC 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	0.2-0.6	72 / 16.00	55	65	L55	10	1135760000
KDSX M40 BS O SC 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	0.2-0.6	72 / 16.00	55	65	L55	10	1135770000
KDSX M50 BS O SC 1 G50S	M 50 x 1.5	34.80-42.40	31.50-38.20	0.2-0.6	73 / 16.00	65	80	L65	1	1135780000
KDSX M50 BS O SC 2 G50S	M 50 x 1.5	39.40-46.70	31.50-38.20	0.2-0.6	73 / 16.00	65	80	L65	1	1135790000
KDSX M50 BS O SC 1 G50	M 50 x 1.5	41.10-48.50	36.50-44.10	0.3-0.8	73 / 16.00	65	80	L65	1	1135800000
KDSX M50 BS O SC 2 G50	M 50 x 1.5	45.70-53.20	36.50-44.10	0.3-0.8	73 / 16.00	65	80	L65	1	1135810000
KDSX M63 BS O SC 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	0.3-0.8	76 / 19.00	80	95	L80	1	1135820000
KDSX M63 BS O SC 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	0.3-0.8	76 / 19.00	80	95	L80	1	1135830000
KDSX M63 BS O SC 1 G63	M 63 x 1.5	53.80-61.20	49.50-56.00	0.3-0.8	76 / 19.00	80	95	L80	1	1135840000
KDSX M63 BS O SC 2 G63	M 63 x 1.5	58.40-65.80	49.50-56.00	0.3-0.8	76 / 19.00	80	95	L80	1	1135850000
KDSX M75 BS O SC 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	0.3-1	82 / 19.00	90	110	L90	1	1135860000
KDSX M75 BS O SC 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	0.3-1	82 / 19.00	90	110	L90	1	1135870000
KDSX M75 BS O SC 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	0.3-1	82 / 19.00	90	110	L90	1	1135880000
KDSX M75 BS O SC 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	0.3-1	82 / 19.00	90	110	L90	1	1135890000

Note	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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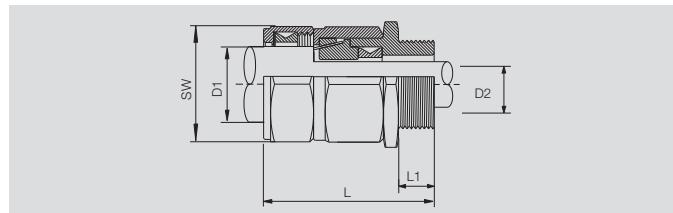
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for armoured cable



Cable gland with braided armouring for cables and lines.

C



#### Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-60 °C...180 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 66, IP 68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex td A21 IP68, IECEx Ex d IIC / Ex e II

#### Note

Without the GWDR IP54; the GWDR must be ordered separately.

#### Ordering data

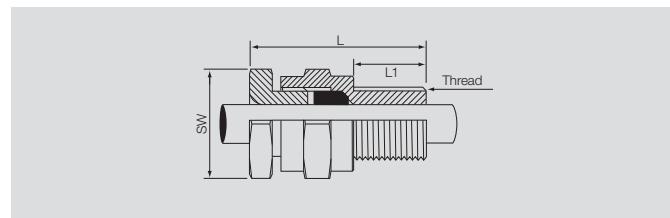
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	MODR	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>										
KDSX M20 BS O NI 1 G16	M 20 x 1.5	4.90-10.00	4.00-8.40	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135910000
KDSX M20 BS O NI 2 G16	M 20 x 1.5	8.40-13.50	4.00-8.40	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135920000
KDSX M20 BS O NI 1 G20	M 20 x 1.5	12.00-17.60	6.70-14.00	0.15-0.5	58 / 16.00	30	32.5	L30	20	1135950000
KDSX M20 BS O NI 2 G20	M 20 x 1.5	15.50-21.10	6.70-14.00	0.15-0.5	58 / 16.00	30	32.5	L30	20	1135960000
KDSX M20 BS O NI 1 G20S	M 20 x 1.5	9.40-12.50	8.00-11.70	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135930000
KDSX M20 BS O NI 2 G20S	M 20 x 1.5	11.50-16.00	8.00-11.70	0.15-0.35	58 / 16.00	24	32.5	L24	20	1135940000
KDSX M25 BS O NI 1 G25	M 25 x 1.5	16.80-23.90	13.00-20.00	0.15-0.5	58 / 16.00	38	47.5	L38	20	1135970000
KDSX M25 BS O NI 2 G25	M 25 x 1.5	20.30-27.40	13.00-20.00	0.15-0.5	58 / 16.00	38	47.5	L38	20	1135980000
KDSX M32 BS O NI 1 G32	M 32 x 1.5	23.20-30.50	19.00-26.30	0.15-0.55	65 / 16.00	46	55	L46	10	1135990000
KDSX M32 BS O NI 2 G32	M 32 x 1.5	26.70-34.00	19.00-26.30	0.15-0.55	65 / 16.00	46	55	L46	10	1136000000
KDSX M40 BS O NI 1 G40	M 40 x 1.5	28.60-36.20	25.00-32.20	0.2-0.6	72 / 16.00	55	65	L55	10	1136010000
KDSX M40 BS O NI 2 G40	M 40 x 1.5	33.00-40.60	25.00-32.20	0.2-0.6	72 / 16.00	55	65	L55	10	1136020000
KDSX M50 BS O NI 1 G50	M 50 x 1.5	41.10-48.50	36.50-44.10	0.2-0.8	73 / 16.00	65	80	L65	1	1136050000
KDSX M50 BS O NI 2 G50	M 50 x 1.5	45.70-53.20	36.50-44.10	0.2-0.8	73 / 16.00	65	80	L65	1	1136060000
KDSX M50 BS O NI 1 G50S	M 50 x 1.5	34.80-42.40	31.50-38.20	0.3-0.6	73 / 16.00	65	80	L65	1	1136030000
KDSX M50 BS O NI 2 G50S	M 50 x 1.5	39.40-46.70	31.50-38.20	0.3-0.6	73 / 16.00	65	80	L65	1	1136040000
KDSX M63 BS O NI 1 G63	M 63 x 1.5	53.80-61.20	49.50-65.00	0.3-0.8	76 / 19.00	80	95	L80	1	1136090000
KDSX M63 BS O NI 2 G63	M 63 x 1.5	58.40-65.80	49.50-65.00	0.3-0.8	76 / 19.00	80	95	L80	1	1136110000
KDSX M63 BS O NI 1 G63S	M 63 x 1.5	47.50-54.80	42.50-50.10	0.3-0.8	76 / 19.00	80	95	L80	1	1136070000
KDSX M63 BS O NI 2 G63S	M 63 x 1.5	52.10-59.50	42.50-50.10	0.3-0.8	76 / 19.00	80	95	L80	1	1136080000
KDSX M75 BS O NI 1 G75	M 75 x 1.5	66.50-73.40	60.50-68.00	0.3-1	82 / 19.00	90	110	L90	1	1136140000
KDSX M75 BS O NI 2 G75	M 75 x 1.5	71.10-78.00	60.50-68.00	0.3-1	82 / 19.00	90	110	L90	1	1136150000
KDSX M75 BS O NI 1 G75S	M 75 x 1.5	60.20-68.00	54.50-62.00	0.3-1	82 / 19.00	90	110	L90	1	1136120000
KDSX M75 BS O NI 2 G75S	M 75 x 1.5	64.80-72.20	54.50-62.00	0.3-1	82 / 19.00	90	110	L90	1	1136130000

#### Note

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely to prevent being placed under a tensile load.

**Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for non-armoured cable**

Cable gland exclusively for non-armoured cables and lines.

**Technical data**

O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...85 °C
Degree of protection	IP 66, IP 68 - 2,5 bar
Water depth	25 m (30 Min.)
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

<b>Note</b>	Length „L“ varies according to cable diameter used.
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**Ordering data**

Type	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
<b>metric, brass</b>							
KSG M20 BN O SC 2 G16	M 20 x 1.5	4.00-8.40	33 / 16.00	25	L24	20	1909380000
KSG M20 BN O SC 2 G20S	M 20 x 1.5	7.20-11.70	33 / 16.00	25	L24	20	1909400000
KSG M20 BN O SC 2 G20	M 20 x 1.5	9.60-14.00	33 / 16.00	30	L30	20	1909410000
KSG M25 BN O SC 2 G25	M 25 x 1.5	13.50-20.00	33 / 16.00	38	L38	20	1909420000
KSG M32 BN O SC 2 G32	M 32 x 1.5	19.50-26.30	33 / 16.00	46	L46	10	1909430000
KSG M40 BN O SC 2 G40	M 40 x 1.5	23.00-32.20	37 / 16.00	55	L55	10	1909440000
KSG M50 BN O SC 2 G50S	M 50 x 1.5	28.20-38.20	37 / 16.00	65	L65	1	1909450000
KSG M50 BN O SC 2 G50	M 50 x 1.5	33.20-44.10	37 / 16.00	65	L65	1	1909460000
KSG M63 BN O SC 2 G63S	M 63 x 1.5	39.30-50.10	37 / 19.00	80	L80	1	1909470000
KSG M63 BN O SC 2 G63	M 63 x 1.5	46.70-56.00	37 / 19.00	80	L80	1	1909480000
KSG M75 BN O SC 2 G75	M 75 x 1.5	58.10-68.00	37 / 19.00	90	L90	1	1075340000
KSG M75 BN O SC 2 G75S	M 75 x 1.5	52.30-62.00	37 / 19.00	90	L90	1	1075330000
<b>metric, nickel-plated brass</b>							
KSG M20 BN O NI 2 G16	M 20 x 1.5	4.00-8.40	33 / 16.00	25	L24	20	1911510000
KSG M20 BN O NI 2 G20S	M 20 x 1.5	7.20-11.70	33 / 16.00	25	L24	20	1911540000
KSG M20 BN O NI 2 G20	M 20 x 1.5	9.60-14.00	33 / 16.00	30	L30	20	1911560000
KSG M25 BN O NI 2 G25	M 25 x 1.5	13.50-20.00	33 / 16.00	38	L38	20	1911570000
KSG M32 BN O NI 2 G32	M 32 x 1.5	19.50-26.30	33 / 16.00	46	L46	10	1911580000
KSG M40 BN O NI 2 G40	M 40 x 1.5	23.00-32.20	37 / 16.00	55	L55	10	1911590000
KSG M50 BN O NI 2 G50S	M 50 x 1.5	28.20-38.20	37 / 16.00	65	L65	1	1911600000
KSG M50 BN O NI 2 G50	M 50 x 1.5	33.20-44.10	37 / 16.00	65	L65	1	1911610000
KSG M63 BN O NI 2 G63S	M 63 x 1.5	39.30-50.10	37 / 19.00	80	L80	1	1911620000
KSG M63 BN O NI 2 G63	M 63 x 1.5	46.70-56.00	37 / 19.00	80	L80	1	1911630000
KSG M75 BN O NI 2 G75	M 75 x 1.5	58.10-68.00	37 / 19.00	90	L90	1	1075360000
KSG M75 BN O NI 2 G75S	M 75 x 1.5	52.30-62.00	37 / 19.00	90	L90	1	1075350000

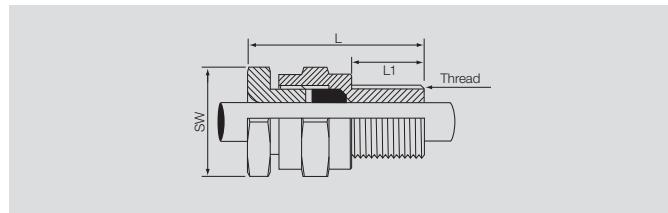
<b>Note</b>	<ul style="list-style-type: none"> <li>• All cable glands have a pitch of 1.5 mm.</li> <li>• In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.</li> <li>• If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.</li> <li>• The connection cable must be laid securely to prevent being placed under a tensile load.</li> </ul>
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## Klippon® cable glands - Brass - Ex-e, Ex-d, IP 66 / IP 68 for non-armoured cable



Cable gland exclusively for non-armoured cables and lines.

C



## Technical data

O-Ring / Seal insert	Silicone / CR
Temperature range	-60 °C...180 °C
Degree of protection	IP 66, IP 68 - 2,5 bar
Water depth	25 m (30 Min.)
Approval	ATEX II 2 GD, Ex d IIC / Ex e II / Ex tD A21 IP68, IECEx Ex d IIC / Ex e II

## Note

## Ordering data

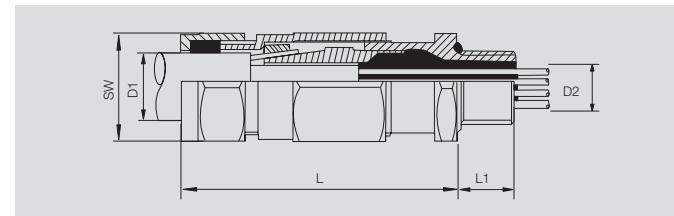
Type	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
<b>metric, brass</b>							
KSG M20 BS O SC 2 G16	M 20 x 1.5	4.00-8.40	33 / 16.00	25	L24	20	0930481212
KSG M20 BS O SC 2 G20S	M 20 x 1.5	7.20-11.70	33 / 16.00	25	L24	20	1136720000
KSG M20 BS O SC 2 G20	M 20 x 1.5	9.60-14.00	33 / 16.00	30	L30	20	0930501212
KSG M25 BS O SC 2 G25	M 25 x 1.5	13.50-20.00	33 / 16.00	38	L38	20	0930511212
KSG M32 BS O SC 2 G32	M 32 x 1.5	19.50-26.30	33 / 16.00	46	L46	10	0930521212
KSG M40 BS O SC 2 G40	M 40 x 1.5	23.00-32.20	37 / 16.00	55	L55	10	0930531212
KSG M50 BS O SC 2 G50S	M 50 x 1.5	28.20-38.20	37 / 16.00	65	L65	1	1136730000
KSG M50 BS O SC 2 G50	M 50 x 1.5	33.20-44.10	37 / 16.00	65	L65	1	0930551212
KSG M63 BS O SC 2 G63S	M 63 x 1.5	39.30-50.10	37 / 19.00	80	L80	1	1136740000
KSG M63 BS O SC 2 G63	M 63 x 1.5	46.70-56.00	37 / 19.00	80	L80	1	1136750000
KSG M75 BS O SC 2 G75S	M 75 x 1.5	52.30-62.00	37 / 19.00	90	L90	1	1136760000
KSG M75 BS O SC 2 G75	M 75 x 1.5	58.10-68.00	37 / 19.00	90	L90	1	1136770000
<b>metric, nickel-plated brass</b>							
KSG M20 BS O NI 2 G16	M 20 x 1.5	4.00-8.40	33 / 16.00	25	L24	20	0930481222
KSG M20 BS O NI 2 G20S	M 20 x 1.5	7.20-11.70	33 / 16.00	25	L24	20	0930491224
KSG M20 BS O NI 2 G20	M 20 x 1.5	9.60-14.00	33 / 16.00	25	L30	20	0930501222
KSG M25 BS O NI 2 G25	M 25 x 1.5	13.50-20.00	33 / 16.00	38	L38	20	0930511222
KSG M32 BS O NI 2 G32	M 32 x 1.5	19.50-26.30	33 / 16.00	46	L46	10	0930521222
KSG M40 BS O NI 2 G40	M 40 x 1.5	23.00-32.20	37 / 16.00	55	L55	10	0930531222
KSG M50 BS O NI 2 G50S	M 50 x 1.5	28.20-38.20	37 / 16.00	65	L65	1	1136660000
KSG M50 BS O NI 2 G50	M 50 x 1.5	33.20-44.10	37 / 16.00	65	L65	1	1136670000
KSG M63 BS O NI 2 G63S	M 63 x 1.5	39.30-50.10	37 / 19.00	80	L80	1	1136680000
KSG M63 BS O NI 2 G63	M 63 x 1.5	46.70-56.00	37 / 19.00	80	L80	1	1136690000
KSG M75 BS O NI 2 G75S	M 75 x 1.5	52.30-62.00	37 / 19.00	90	L90	1	1136700000
KSG M75 BS O NI 2 G75	M 75 x 1.5	58.10-68.00	37 / 19.00	90	L90	1	1136710000

## Note

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely to prevent being placed under a tensile load.

**Klippon® cable glands - Brass - Ex-d, IP68 for armoured and non-armoured cables**

Barrier cable glands for cables and lines with a single-wire, metal-foil armouring, and braided armouring for Ex-d IIC enclosure, with a volume of more than two litres.

**Technical data**

Material	Brass
O-ring / Seal insert	Silicone / CR
Temperature range	-60 °C...85 °C
Degree of protection	IP 68 - 10 bar
Water depth	100 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Sealing compound	Processing temperature at 21°C, the sealing compound is hardened after one hour, The cable gland can be mounted after four hours, You can begin using after four hours
Approval	ATEX II 2 GD, Ex d IIC / Ex tD A21 IP68, I M2 Ex d I, IECEx Ex d IIC / Ex d I

**Note****Ordering data**

Type metric, brass	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
KUB M20 BS O SC 1 G16	M 20 x 1.5	6.70-78.00	72 / 16.00	24	20	1095340000	
KUB M20 BS O SC 2 G16	M 20 x 1.5	9.00-10.30	72 / 16.00	24	20	1095350000	
KUB M20 BS O SC 1 G20S	M 20 x 1.5	9.40-13.50	72 / 16.00	24	20	1095360000	
KUB M20 BS O SC 2 G20S	M 20 x 1.5	11.50-12.50	72 / 16.00	24	20	1095370000	
KUB M20 BS O SC 1 G20	M 20 x 1.5	12.00-16.00	73 / 16.00	30	EL30	20	1095380000
KUB M20 BS O SC 2 G20	M 20 x 1.5	15.50-17.60	73 / 16.00	30	EL30	20	1095390000
KUB M25 BS O SC 1 G25	M 25 x 1.5	16.80-21.10	83 / 16.00	38	EL38	20	1095400000
KUB M25 BS O SC 2 G25	M 25 x 1.5	20.30-23.90	83 / 16.00	38	EL38	20	1095410000
KUB M32 BS O SC 1 G32	M 32 x 1.5	23.20-27.40	103 / 16.00	46	EL46	10	1095420000
KUB M32 BS O SC 2 G32	M 32 x 1.5	26.70-30.50	103 / 16.00	46	EL46	10	1095430000
KUB M40 BS O SC 1 G40	M 40 x 1.5	28.60-34.00	105 / 16.00	55	EL55	10	1095440000
KUB M40 BS O SC 2 G40	M 40 x 1.5	33.00-36.20	105 / 16.00	55	EL55	10	1095450000
KUB M50 BS O SC 1 G50S	M 50 x 1.5	34.80-40.60	115 / 16.00	65	EL65	1	1095460000
KUB M50 BS O SC 2 G50S	M 50 x 1.5	39.40-42.40	115 / 16.00	65	EL65	1	1095470000
KUB M50 BS O SC 1 G50	M 50 x 1.5	41.10-46.70	115 / 16.00	65	EL65	1	1095480000
KUB M50 BS O SC 2 G50	M 50 x 1.5	45.70-48.50	115 / 16.00	65	EL65	1	1095490000
KUB M63 BS O SC 1 G63S	M 63 x 1.5	47.50-53.20	115 / 19.00	80	EL80	1	1095500000
KUB M63 BS O SC 2 G63S	M 63 x 1.5	52.10-54.80	115 / 19.00	80	EL80	1	1095510000
KUB M63 BS O SC 1 G63	M 63 x 1.5	53.80-59.50	115 / 19.00	80	EL80	1	1095520000
KUB M63 BS O SC 2 G63	M 63 x 1.5	58.40-61.20	115 / 19.00	80	EL80	1	1095530000
KUB M75 BS O SC 1 G75S	M 75 x 1.5	60.20-65.80	122 / 19.00	90	EL90	1	1095540000
KUB M75 BS O SC 2 G75S	M 75 x 1.5	64.80-68.00	122 / 19.00	90	EL90	1	1095550000
KUB M75 BS O SC 1 G75	M 75 x 1.5	66.50-72.20	122 / 19.00	90	EL90	1	1095560000
KUB M75 BS O SC 2 G75	M 75 x 1.5	71.10-73.40	122 / 19.00	90	EL90	1	1095570000

**Note**

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- The connection cable must be laid securely to prevent being placed under a tensile load.

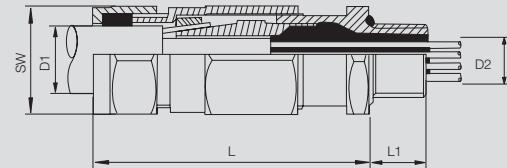
## Cable glands for Ex applications - Brass

### Klippon® cable glands - Brass - Ex-d, IP68 for armoured and non-armoured cables



Barrier cable glands for cables and lines with a single-wire, metal-foil armouring, and braided armouring for Ex-d IIC enclosure, with a volume of more than two litres.

C



#### Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	Silicone / CR
Temperature range	-60 °C...85 °C
Degree of protection	IP 68 - 10 bar
Water depth	100 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Sealing compound	Processing temperature at 21°C, the sealing compound is hardened after one hour, The cable gland can be mounted after four hours, You can begin using after four hours
Approval	ATEX II 2 GD, Ex d IIC / Ex tD A21 IP68, I M2 Ex d I, IECEx Ex d IIC / Ex d I

#### Note

#### Ordering data

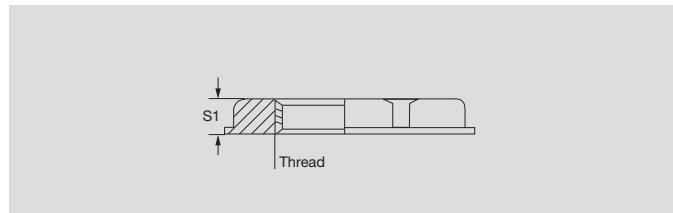
Type	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
<b>metric, nickel-plated brass</b>							
KUB M20 BS O NI 1 G16	M 20 x 1.5	6.70-10.30	72 / 16.00	24		20	1095100000
KUB M20 BS O NI 2 G16	M 20 x 1.5	9.00-13.50	72 / 16.00	24		20	1095110000
KUB M20 BS O NI 1 G20	M 20 x 1.5	12.00-17.60	73 / 16.00	30	EL30	20	1095140000
KUB M20 BS O NI 2 G20	M 20 x 1.5	15.50-21.10	73 / 16.00	30	EL30	20	1095150000
KUB M20 BS O NI 1 G20S	M 20 x 1.5	9.40-12.50	72 / 16.00	24		20	1095120000
KUB M20 BS O NI 2 G20S	M 20 x 1.5	11.50-16.00	72 / 16.00	24		20	1095130000
KUB M25 BS O NI 1 G25	M 25 x 1.5	16.80-23.90	83 / 16.00	38	EL38	20	1095160000
KUB M25 BS O NI 2 G25	M 25 x 1.5	20.30-27.40	83 / 16.00	38	EL38	20	1095170000
KUB M32 BS O NI 1 G32	M 32 x 1.5	23.20-30.50	103 / 16.00	46	EL46	10	1095180000
KUB M32 BS O NI 2 G32	M 32 x 1.5	26.70-34.00	103 / 16.00	46	EL46	10	1095190000
KUB M40 BS O NI 1 G40	M 40 x 1.5	28.60-36.20	105 / 16.00	55	EL55	10	1095200000
KUB M40 BS O NI 2 G40	M 40 x 1.5	33.00-40.60	105 / 16.00	55	EL55	10	1095210000
KUB M50 BS O NI 1 G50	M 50 x 1.5	41.10-48.50	115 / 16.00	65	EL65	1	1095240000
KUB M50 BN O NI 2 G50	M 50 x 1.5	45.70-53.20	115 / 16.00	65	EL65	1	1095250000
KUB M50 BS O NI 1 G50S	M 50 x 1.5	34.80-42.40	115 / 16.00	65	EL65	1	1095220000
KUB M50 BS O NI 2 G50S	M 50 x 1.5	39.40-46.70	115 / 16.00	65	EL65	1	1095230000
KUB M63 BS O NI 1 G63	M 63 x 1.5	53.80-61.20	115 / 19.00	80	EL80	1	1095280000
KUB M63 BS O NI 2 G63	M 63 x 1.5	58.40-65.80	115 / 19.00	80	EL80	1	1095290000
KUB M63 BS O NI 1 G63S	M 63 x 1.5	47.50-54.80	115 / 19.00	80	EL80	1	1095260000
KUB M63 BS O NI 2 G63S	M 63 x 1.5	52.10-59.50	115 / 19.00	80	EL80	1	1095270000
KUB M75 BS O NI 1 G75	M 75 x 1.5	66.50-73.40	122 / 19.00	90	EL90	1	1095320000
KUB M75 BS O NI 2 G75	M 75 x 1.5	71.10-78.00	122 / 19.00	90	EL90	1	1095330000
KUB M75 BS O NI 1 G75S	M 75 x 1.5	60.20-68.00	122 / 19.00	90	EL90	1	1095300000
KUB M75 BS O NI 2 G75S	M 75 x 1.5	64.80-72.20	122 / 19.00	90	EL90	1	1095310000

#### Note

- All cable glands have a pitch of 1.5 mm.
- In Ex d applications, the cable glands used for internal thread must be in accordance with the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- The connection cable must be laid securely to prevent being placed under a tensile load.

**Lock nuts - Plastic 7035**

Lock nut for securing plastic cable glands and plastic sealing plugs.

**Technical data**

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 7035
Temperature range	-30 °C...100 °C
Flammability rating	V-2

**Note****Ordering data**

Type metric	Thread	S1	SW	Qty.	Order No.
SKMU M12 - K GR	M 12 x 1.5	5.00	18	100	1772440000
SKMU M16 - K GR	M 16 x 1.5	5.00	22	100	1772450000
SKMU M20 - K GR	M 20 x 1.5	6.00	26	100	1772460000
SKMU M25 - K GR	M 25 x 1.5	6.00	32	100	1772470000
SKMU M32 - K GR	M 32 x 1.5	7.00	41	100	1772480000
SKMU M40 - K GR	M 40 x 1.5	7.00	50	50	1772490000
SKMU M50 - K GR	M 50 x 1.5	8.00	60	10	1772500000
SKMU M63 - K GR	M 63 x 1.5	8.00	75	10	1772510000
<b>PG</b>					
SKMU PG7-K GR	PG 7	5.00	19	100	1697440000
SKMU PG9-K GR	PG 9	5.00	22	100	1697450000
SKMU PG11-K GR	PG 11	5.00	24	100	1697460000
SKMU PG 13,5-K GR	PG 13.5	6.00	27	100	1697470000
SKMU PG16-K GR	PG 16	6.00	30	100	1697480000
SKMU PG21-K GR	PG 21	7.00	36	100	1698220000
SKMU PG29-K GR	PG 29	7.00	46	50	1698230000
SKMU PG36-K GR	PG 36	8.00	60	25	1698240000
SKMU PG42-K GR	PG 42	8.00	65	25	1698250000
SKMU PG48-K GR	PG 48	8.00	70	25	1719090000

**Note**

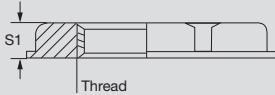
Further versions on request

## Accessories - Lock nuts

## Lock nuts - Plastic 9005



A lock nut is used to secure the plastic cable glands and sealing plugs – also recommended when working with Ex-e and Ex-i plastic cable glands.



## Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 9005
Temperature range	-30 °C...100 °C
Flammability rating	V-2

## Note

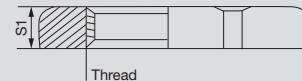
## Ordering data

Type	Thread	S1	SW	Qty.	Order No.
<b>metric</b>					
SKMU M12-K SW	M 12 x 1.5	5.00	18	100	1806540000
SKMU M16 K SW	M 16 x 1.5	5.00	22	100	1736920000
SKMU M20 K SW	M 20 x 1.5	6.00	26	100	1736930000
SKMU M25 K SW	M 25 x 1.5	6.00	32	25	1736940000
SKMU M32 K SW	M 32 x 1.5	7.00	41	100	1736950000
SKMU M40 K SW	M 40 x 1.5	7.00	50	10	1736960000
SKMU M50 K SW	M 50 x 1.5	8.00	60	5	1736970000
SKMU M63 K SW	M 63 x 1.5	8.00	75	5	1736980000
<b>PG</b>					
SKMU PG7-K SW	PG 7	5.00	19	50	1719100000
SKMU PG9-K SW	PG 9	5.00	22	50	1719110000
SKMU PG11-K SW	PG 11	5.00	24	50	1719120000
SKMU PG13,5-K SW	PG 13.5	6.00	27	50	1719130000
SKMU PG16-K SW	PG 16	6.00	30	25	1719140000
SKMU PG21-K SW	PG 21	7.00	36	20	1719150000
SKMU PG29-K SW	PG 29	7.00	46	20	1719160000
SKMU PG36-K SW	PG 36	8.00	60	10	1719170000
SKMU PG42-K SW	PG 42	8.00	65	10	1719180000
SKMU PG48-K SW	PG 48	8.00	70	5	1719190000

## Note

**Lock nuts - Brass - Nickel-plated**

A lock nut is used to secure the brass cable glands and sealing plugs – also recommended when working with Ex applications.



C

**Technical data**

Material	Brass, nickel-plated
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**Note****Ordering data**

Type metric	Thread	S1	SW	Qty.	Order No.
SKMU M12 MS	M 12 x 1.5	2.80	15	50	1772360000
SKMU M16 MS	M 16 x 1.5	2.80	19	50	1736990000
SKMU M20 MS	M 20 x 1.5	3.00	24	50	1737000000
SKMU M25 MS	M 25 x 1.5	3.00	29	25	1737010000
SKMU M32 MS	M 32 x 1.5	4.00	36	20	1737020000
SKMU M40 MS	M 40 x 1.5	4.50	46	10	1737030000
SKMU M50 MS	M 50 x 1.5	5.00	55	5	1737040000
SKMU M63 MS	M 63 x 1.5	6.00	70	5	1737050000
SKMU M75 MS	M 75 x 1.5	8.00	80	5	1737060000
<b>PG</b>					
SKMU PG7-MS	PG 7	2.80	15	100	1694070000
SKMU PG9-MS	PG 9	2.80	18	100	1694080000
SKMU PG11-MS	PG 11	3.00	21	100	1694090000
SKMU PG13,5-MS	PG 13.5	3.00	23	100	1694100000
SKMU PG16-MS	PG 16	3.00	26	100	1694110000
SKMU PG21-MS	PG 21	3.50	32	50	1719200000
SKMU PG29-MS	PG 29	4.00	41	50	1719210000
SKMU PG36-MS	PG 36	5.00	51	50	1719220000
SKMU PG42-MS	PG 42	5.00	60	50	1719230000
SKMU PG48-MS	PG 48	5.50	64	50	1719240000

**Note**

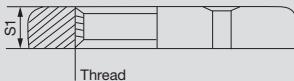
Further versions on request

## Accessories - Lock nuts

## Lock nuts - Brass - Natural



A lock nut made from untreated brass is used to secure the brass cable glands and sealing plugs – also recommended when working with Ex applications.



## Technical data

Material	Brass
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## Note

## Ordering data

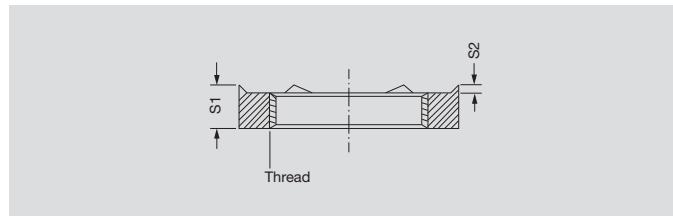
Type metric	Thread	S1	SW	Qty.	Order No.
SKMU M16 MS SC	M 16 x 1.5	4.00	22	50	0930640001
SKMU M20 MS SC	M 20 x 1.5	4.00	24	50	0930640002
SKMU M25 MS SC	M 25 x 1.5	4.00	30	25	0930640003
SKMU M32 MS SC	M 32 x 1.5	4.00	40	20	0930640004
SKMU M40 MS SC	M 40 x 1.5	4.50	50	10	0930640005
SKMU M50 MS SC	M 50 x 1.5	5.00	65	5	0930640006
SKMU M63 MS SC	M 63 x 1.5	6.50	75	5	0930640007
SKMU M75 MS SC	M 75 x 1.5	7.00	90	5	0930640008
SKMU M80 MS SC	M 80 x 1.5	7.00	90	5	0930640009
SKMU M85 MS SC	M 85 x 1.5	7.00	104.8	5	0930640010
SKMU M90 MS SC	M 90 x 1.5	7.00	104.8	5	0930640011

## Note

## Lock nuts - Brass - EMC



Serrated locks are used for securing brass cable glands and sealing plugs – specially equipped with 6 edges which contact the enclosure when the lock nut is tightened.



## Technical data

Material	Brass, nickel-plated
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## Note

## Ordering data

Type metric	Thread	S1	SW	Qty.	Order No.
SKMU EMV M10	M 10 x 1.5	3.10	12	1	1777600000
SKMU EMV M12	M 12 x 1.5	3.60	15	50	1777610000
SKMU EMV M16	M 16 x 1.5	3.60	19	50	1777620000
SKMU EMV M20	M 20 x 1.5	3.60	24	50	1777630000
SKMU EMV M25	M 25 x 1.5	3.60	30	20	1777640000
SKMU EMV M32	M 32 x 1.5	4.10	36	20	1777650000
SKMU EMV M40	M 40 x 1.5	4.60	46	10	1777660000
SKMU EMV M50	M 50 x 1.5	4.60	60	10	1777670000
SKMU EMV M63	M 63 x 1.5	6.60	70	10	1777680000
PG					
SKMU EMV PG7	PG 7	4.70	15	20	1718900000
SKMU EMV PG9	PG 9	4.70	18	20	1718910000
SKMU EMV PG12	PG 11	4.70	21	20	1718920000
SKMU EMV PG13,5	PG 13.5	4.70	23	10	1718930000
SKMU EMV PG16	PG 16	4.70	26	10	1718940000
SKMU EMV PG21	PG 21	5.20	32	10	1718950000
SKMU EMV PG29	PG 29	5.70	41	15	1718960000
SKMU EMV PG 36	PG 36	4.60	51	1	1777710000
SKMU EMV PG 42	PG 42	4.60	58	1	1777700000
SKMU EMV PG 48	PG 48	5.60	64	1	1777690000

## Note

Further versions on request

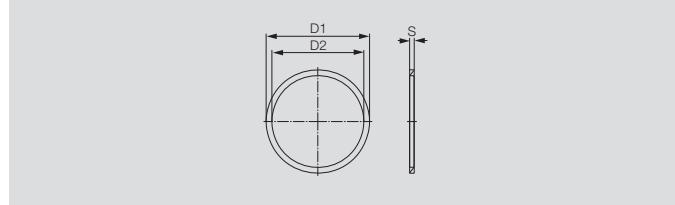
## Accessories - Flat IP washer

## Flat IP washer - Standard - Polyethylene



Flat IP washer for increasing the degree of protection for cable glands and sealing plugs. The IP washer is also suitable as a replacement for O-rings.

C



## Technical data

Material / Colour	Polyethylene / transparent
Temperature range	-30 °C...90 °C

## Note

## Ordering data

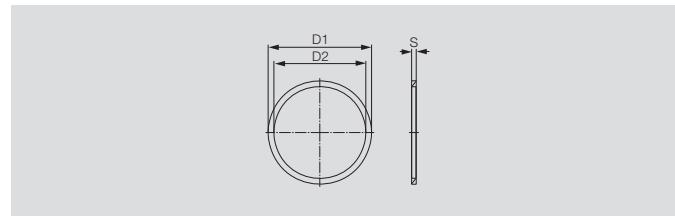
Type	Thread	D1	D2	S	Qty.	Order No.
<b>metric</b>						
GWDR M12-PO	M 12 x 1.5	16.00	12.00	1.50	50	1777920000
GWDR M16-PO	M 16 x 1.5	20.00	16.00	1.50	50	1777930000
GWDR M20-PO	M 20 x 1.5	25.00	20.40	2.00	100	1777940000
GWDR M25-PO	M 25 x 1.5	30.00	25.00	2.00	50	1777950000
GWDR M32-PO	M 32 x 1.5	38.00	32.00	2.00	50	1777960000
GWDR M40-PO	M 40 x 1.5	45.00	40.00	2.00	50	1777970000
GWDR M50-PO	M 50 x 1.5	56.00	50.00	2.00	50	1777980000
GWDR M63-PO	M 63 x 1.5	70.00	63.00	2.00	50	1777990000
<b>PG</b>						
GWDR PG7-PO	PG 7	16.50	12.50	1.60	100	1719440000
GWDR PG9-PO	PG 9	19.00	15.20	1.60	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	1.80	100	1719460000
GWDR PG13,5-PO	PG 13,5	25.00	20.40	1.80	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	1.80	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	2.20	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	2.20	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	2.70	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.20	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.20	5	1719530000

## Note

Further versions on request

**Flat IP washer - Standard - Neoprene**

Flat IP washer for increasing the degree of protection for cable glands and sealing plugs – recommended for use in Ex applications. The IP washer is also suitable as a replacement for O-rings.

**Technical data**

Material / Colour	Neoprene / RAL 9005
Temperature range	-40 °C...100 °C

**Note****Ordering data**

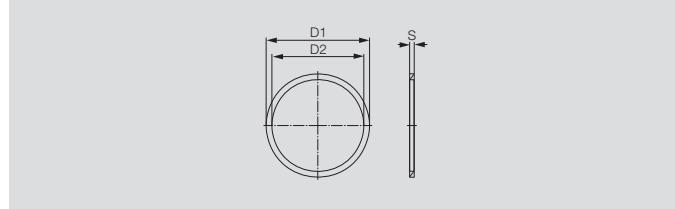
Type metric	Thread	D1	D2	S	Qty.	Order No.
GWDR M12-NP	M 12 x 1.5	16.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16 x 1.5	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20 x 1.5	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25 x 1.5	30.00	25.00	1.50	50	1736250000
GWDR M32-NP	M 32 x 1.5	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40 x 1.5	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50 x 1.5	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63 x 1.5	77.00	63.00	2.00	10	1736290000
<b>PG</b>						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	1719540000
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	1719550000
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	1719560000
GWDR PG13.5-NP	PG 13.5	27.00	19.50	1.20	100	1719570000
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	1719580000
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	1719590000
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	1719600000
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	1719610000
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	1719620000
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	1719630000

**Note**

Further versions on request

**Flat IP washer - standard - Nylon**

Flat nylon IP washer, used for sealing large surfaces, for example around cable glands on enclosures.

**C****Technical data**

Material / Colour	Nylon 6 / RAL 3020
Temperature range	-40 °C...140 °C

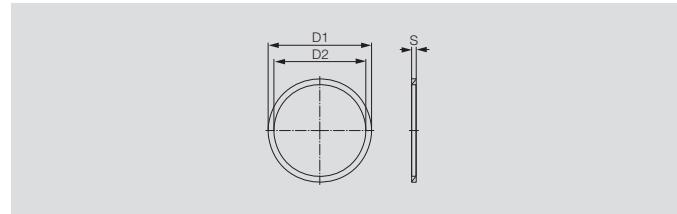
**Note****Ordering data**

Type metric	Thread	D1	D2	S	Qty.	Order No.
KSWN M16	M 16 x 1.5	25.00	16.50	2.00	25	1076630000
KSWN M20	M 20 x 1.5	29.40	20.70	2.00	25	0930730002
KSWN M25	M 25 x 1.5	38.10	25.70	2.00	25	1076640000
KSWN M32	M 32 x 1.5	42.50	32.50	2.00	25	1076650000
KSWN M40	M 40 x 1.5	52.00	40.50	2.00	25	0899780000
KSWN M50	M 50 x 1.5	65.00	50.50	2.00	25	0900660000
KSWN M63	M 63 x 1.5	79.40	63.50	2.00	25	1076660000
KSWN M75	M 75 x 1.5	90.50	75.50	2.00	25	1076670000

**Note**

**Flat IP washer - standard - Vulcanised fibre**

Flat nylon IP washer made from vulcanised fibre, used for sealing large surfaces, for example around cable glands on enclosures.

**Technical data**

Material / Colour	Vulcanized fibre / RAL 3011
Temperature range	-40 °C...95 °C

**Note****Ordering data**

Type metric	Thread	D1	D2	S	Qty.	Order No.
KSWF M16	M 16 x 1.5	25.00	16.50	2.00	25	1076680000
KSWF M20	M 20 x 1.5	29.40	20.70	2.00	25	0899750000
KSWF M25	M 25 x 1.5	38.10	25.70	2.00	25	0899770000
KSWF M32	M 32 x 1.5	42.50	32.50	2.00	25	1076690000
KSWF M40	M 40 x 1.5	52.00	40.50	2.00	25	1076710000
KSWF M50	M 50 x 1.5	65.00	50.50	2.00	25	1076720000
KSWF M63	M 63 x 1.5	79.40	63.50	2.00	25	1076730000
KSWF M75	M 75 x 1.5	90.50	75.50	2.00	25	1076740000
KSWF M90	M 90 x 1.5	114.30	90.50	2.00	25	1192820000

**Note**

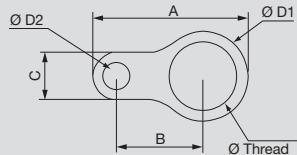
## Accessories - Earth tags

## Accessories - Earth tags - Brass - Nickel plated



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.

C



## Technical data

Material	Brass, nickel-plated
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## Note

## Ordering data

Type metric	Thread	A	B	C	D1	D2	Qty.	Order No.
EA-RING MS/M 16	M 16 x 1.5	48.75	30.00	13.00	24.50	6.75	20	1736480000
EA-RING MS/M 20	M 20 x 1.5	53.8	33.00	13.00	28.60	7.00	20	1736490000
EA-RING MS/M 25	M 25 x 1.5	61.5	36.00	17.00	34.00	10.50	20	1736500000
EA-RING MS/M 32	M 32 x 1.5	73	41.00	22.00	42.00	12.20	20	1736510000
EA-RING MS/M 40	M 40 x 1.5	86.5	44.50	30.00	54.00	13.50	10	1736520000
EA-RING MS/M 50	M 50 x 1.5	111.5	58.00	40.00	67.00	13.50	10	1736530000
EA-RING MS/M 63	M 63 x 1.5	125.5	67.00	40.00	77.00	13.50	10	1736540000
EA-RING MS/M 75	M 75 x 1.5	137.5	73.00	40.00	89.00	13.50	10	1736550000

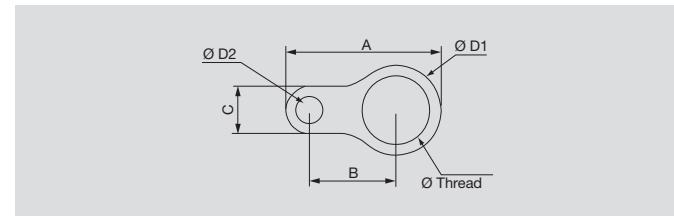
## Note

Further versions on request

## Accessories - Earth tags - Brass - Natural



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



## Technical data

Material	Brass
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## Note

## Ordering data

Type metric	Thread	A	B	C	D1	D2	Qty.	Order No.
EA-RING MS/M16 SC	M 16 x 1.5	50.8	31.80	12.80	16.30	6.90	20	0930710001
EA-RING MS/M20 SC	M 20 x 1.5	54	33.00	12.80	21.80	6.90	20	0930710002
EA-RING MS/M25 SC	M 25 x 1.5	60.2	36.50	12.80	27.30	6.90	20	0930710003
EA-RING MS/M32 SC	M 32 x 1.5	74.6	42.50	22.30	33.80	11.80	20	0930710004
EA-RING MS/M40 SC	M 40 x 1.5	86.7	45.50	31.70	42.70	13.50	10	0930710005
EA-RING MS/M50 SC	M 50 x 1.5	111	58.10	41.30	50.70	13.50	10	0930710006
EA-RING MS/M63 SC	M 63 x 1.5	128.7	66.80	41.30	63.50	13.50	10	0930710007
EA-RING MS/M75 SC	M 75 x 1.5	141.3	73.00	41.30	76.30	13.50	10	0930710008

## Note

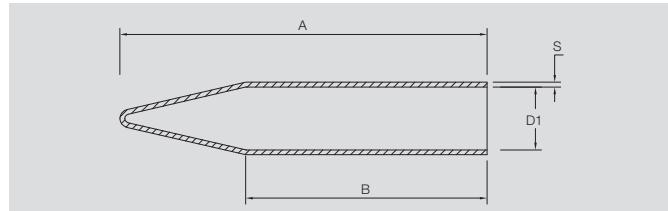
Other versions on request

## Accessories - Shrouds - PVC



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.

C



## Technical data

Material / Colour	PVC / RAL 9005
Temperature range	-25 °C...70 °C
Hardness [Shore A]	65

## Note

## Ordering data

Type metric	A	B	D1	S	Qty.	Order No.
KSP L24	120	70.00	25.00	1.50	10	1736570000
KSP L30	110	55.00	30.00	1.50	10	1736580000
KSP L38	160	60.00	37.00	1.50	10	1736590000
KSP L46	160	60.00	46.00	1.50	10	1736600000
KSP L55	160	60.00	55.00	1.50	10	1736610000
KSP L65	210	70.00	65.00	1.50	10	1736620000
KSP L80	240	90.00	80.00	1.50	10	1736630000
KSP L90	240	90.00	90.00	1.50	10	1736640000
KSP EL30*	127.5	75.00	30.00	1.50	10	1736670000
KSP EL38*	168	80.00	38.00	1.50	10	1736680000
KSP EL46*	198	95.00	46.00	1.50	10	1076750000
KSP EL55*	210	105.00	55.00	1.50	10	1076760000
KSP EL65*	25	115.00	65.00	1.50	10	1076770000
KSP EL80*	270	115.00	80.00	2.00	10	1076780000
KSP EL90*	285	120.00	90.00	2.00	10	1076790000

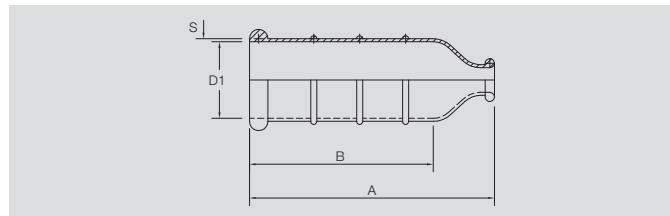
## Note

\*These shrouds have been specially designed for the Klippon® KDSU and Klippon® KUB cable glands.

## Accessories - Shrouds - Silicone



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



## Technical data

Material / Colour	Silicone / RAL 5015
Temperature range	-60 °C...200 °C
Hardness [IRHD]	65

## Note

## Ordering data

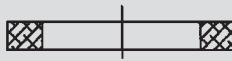
Type metric	A	B	D1	S	Qty.	Order No.
KSP L24 S	80	60.00	25.00	1.50	10	0930700001
KSP L30 S	80	60.00	30.00	1.50	10	0930700002
KSP L38 S	85	65.00	37.00	1.50	10	0930700003
KSP L46 S	95	70.00	46.00	1.50	10	0930700004
KSP L55 S	95	70.00	55.00	1.50	10	0930700005
KSP L65 S	110	80.00	65.00	1.50	10	0930700006
KSP L80 S	120	90.00	80.00	1.50	10	0930700007
KSP L90 S	140	110.00	90.00	1.50	10	0930700008
KSP L 104 S	160	130.00	104.00	1.50	10	1193940000
KSP L114 S	180	150.00	114.00	1.50	10	1192790000

## Note

## Accessories - Serrated washers, Stainless steel



Serrated stainless steel washers to prevent mounted cable glands from loosening.



## Technical data

Material	Stainless steel 1.4404 (316L)
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## Note

## Ordering data

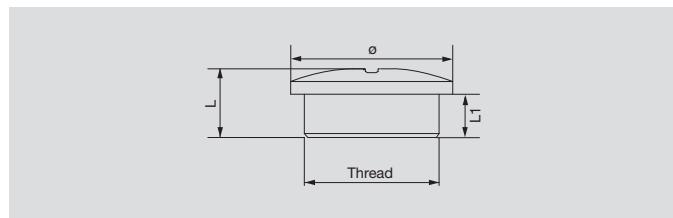
Type metric	Thread	D1	D2	Qty.	Order No.
SZS M16	M 16 x 1.5	25.50	17.30	50	1736300000
SZS M20	M 20 x 1.5	32.40	21.30	10	1736310000
SZS M25	M 25 x 1.5	37.40	25.30	10	1736320000
SZS M32	M 32 x 1.5	48.00	33.00	20	1736330000
SZS M40	M 40 x 1.5	60.00	41.00	5	1736340000
SZS M50	M 50 x 1.5	71.00	51.00	5	1736350000
SZS M63	M 63 x 1.5	87.00	64.00	5	1736360000
SZS M75	M 75 x 1.5	102.00	76.00	5	1116050000

## Note

## Sealing plugs - Plastic



Plastic sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



## Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 7035
Temperature range	-40 °C...100 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 65
Flammability rating	V-2

Note	Optional sealing ring
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## Ordering data

Type	Thread	L	L1	Head Ø	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>								
VP M12 K54	M 12 x 1.5	10	6.00	15.00	0.50	0.50	100	1776930000
VP M16 K54	M 16 x 1.5	11.5	7.00	19.00	0.50	0.50	100	1776920000
VP M20 K54	M 20 x 1.5	12.5	7.50	22.00	1.00	1.00	100	1776910000
VP M25 K54	M 25 x 1.5	15	11.00	27.00	1.00	1.00	100	1776900000
VP M32 K54	M 32 x 1.5	16	11.00	34.00	1.00	1.00	100	1776940000
VP M40 K54	M 40 x 1.5	18	12.00	42.00	2.00	2.00	50	1776950000
VP M50 K54	M 50 x 1.5	20	13.00	52.00	2.00	2.00	25	1776960000
VP M63 K54	M 63 x 1.5	20	14.00	65.00	2.50	2.50	50	1776970000
<b>PG</b>								
VP 7-K54	PG 7	8	6.00	15.00	0.50	0.50	50	1719250000
VP 9-K54	PG 9	9	6.00	19.00	0.50	0.50	100	0294760000
VP 11-K54	PG 11	10.5	6.50	22.00	0.50	0.50	100	0294860000
VP 13,5-K54	PG 13.5	9.5	6.00	25.00	1.00	1.00	100	0294960000
VP 16-K54	PG 16	9.5	6.00	27.00	1.00	1.00	100	0295060000
VP 21-K54	PG 21	11	8.00	33.00	1.00	1.00	100	0295160000
VP 29-K54	PG 29	12	8.00	44.00	1.00	1.00	50	0501160000
VP 36-K54	PG 36	15	10.00	55.00	2.00	2.00	25	0501260000
VP 42-K54	PG 42	16	10.00	62.00	2.00	2.00	10	0501360000
VP 48-K54	PG 48	16	12.00	69.00	2.50	2.50	5	1719260000

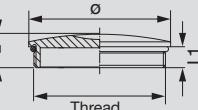
Note	Further versions on request
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## Sealing plugs

### Sealing plugs - Brass - Nickel-plated



Brass sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



#### Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-30 °C...100 °C
Degree of protection with thread gasket	IP 68

#### Note

#### Ordering data

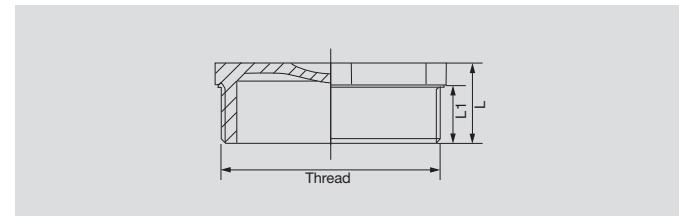
Type	Thread	L	L1	Head Ø	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>								
VP M12-MS65	M 12 x 1.5	7.4	5.00	14.00	8.00	8.00	100	1777720000
VP M16-MS65	M 16 x 1.5	8	5.00	18.00	10.00	10.00	100	1777730000
VP M20-MS65	M 20 x 1.5	9.4	6.50	22.00	12.00	12.00	100	1777740000
VP M25-MS65	M 25 x 1.5	10.8	7.00	28.00	12.00	12.00	100	1777750000
VP M32-MS65	M 32 x 1.5	11.6	8.00	35.00	18.00	18.00	50	1777760000
VP M40-MS65	M 40 x 1.5	12.3	8.00	44.00	18.00	18.00	50	1777770000
VP M50-MS65	M 50 x 1.5	15	9.00	54.00	20.00	20.00	25	1777780000
VP M63-MS65	M 63 x 1.5	18	10.00	67.00	20.00	20.00	10	1777790000
<b>PG</b>								
VP 7-MS65	PG 7	8	5.00	15.00	12.50	12.50	100	0521600000
VP 9-MS65	PG 9	8	5.00	18.00	15.20	15.20	100	0294700000
VP 11-MS65	PG 11	8	5.00	20.00	18.60	18.60	100	0294800000
VP 13,5-MS65	PG 13,5	9.5	5.50	22.00	20.40	20.40	100	0294900000
VP 16-MS65	PG 16	9	5.50	24.00	22.50	22.50	100	0295000000
VP 21-MS65	PG 21	11	6.00	30.00	28.30	28.30	100	0295100000
VP 29-MS65	PG 29	12	8.00	40.00	37.00	37.00	50	0501100000
VP 36-MS65	PG 36	15	9.00	50.00	47.00	47.00	25	0501200000
VP 42-MS65	PG 42	16	10.00	57.00	54.00	54.00	10	0501300000
VP 48-MS65	PG 48	16	10.00	64.00	59.30	59.30	5	1719270000

**Note** Further versions on request

## Sealing plugs - Plastic - Ex e



Sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree – especially for Ex-e Ex applications.



## Technical data

Material / Colour	Polyamide / RAL 9005
Temperature range	-40 °C...110 °C
Degree of protection	IP 66
Degree of protection with thread gasket	IP 68
Flammability class UL 94	V-2
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

Note	Optional sealing ring
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## Ordering data

Type	Thread	L	L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VP M16-EXE SW	M 16 x 1.5	19	15.00	19	3.80	3.80	3.80	3.80	50	1737070000
VP M20-EXE SW	M 20 x 1.5	19	15.00	23	4.60	4.60	4.60	4.60	50	1737080000
VP M25-EXE SW	M 25 x 1.5	20	15.00	28	5.60	5.60	5.60	5.60	100	1737090000
VP M32-EXE SW	M 32 x 1.5	20.5	15.00	36	7.20	7.20	7.20	7.20	20	1737100000
VP M40-EXE SW	M 40 x 1.5	20.5	15.00	44	8.80	8.80	8.80	8.80	10	1737110000
VP M50-EXE SW	M 50 x 1.5	21	15.00	54	10.80	10.80	10.80	10.80	5	1737120000
VP M63-EXE SW	M 63 x 1.5	23.5	15.00	67	13.40	13.40	13.40	13.40	5	1737130000
<b>PG</b>										
VP 7-EXE SW	PG 7	12	8.00	15	3.00	3.00	3.00	3.00	100	1719280000
VP 9-EXE SW	PG 9	14.5	10.00	19	3.80	3.80	3.80	3.80	100	1719290000
VP 11-EXE SW	PG 11	15	10.50	22	4.40	4.40	4.40	4.40	50	1569380000
VP 13,5-EXE SW	PG 13.5	16	11.00	24	4.80	4.80	4.80	4.80	50	1569390000
VP 16-EXE SW	PG 16	17	12.00	27	5.40	5.40	5.40	5.40	100	1569400000
VP 21-EXE SW	PG 21	18	12.50	32	6.40	6.40	6.40	6.40	20	1569410000
VP 29-EXE SW	PG 29	19	13.50	40	8.00	8.00	8.00	8.00	20	1719300000
VP 36-EXE SW	PG 36	21	15.00	54	10.80	10.80	10.80	10.80	10	1719310000
VP 42-EXE SW	PG 42	21.5	15.00	59	11.80	11.80	11.80	11.80	10	1719320000
VP 48-EXE SW	PG 48	22	15.50	64	12.80	12.80	12.80	12.80	5	1719330000

Note	Further versions on request
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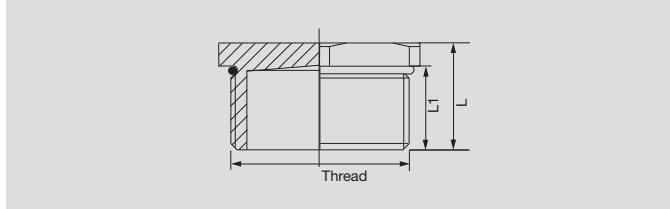
## Sealing plugs

### Sealing plugs - Brass - Ex e, Ex d



Sealing plug is used for sealing surplus threaded holes to ensure the IP protection degree - especially for Ex-e and Ex-d applications.

C



#### Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Degree of protection	IP 66
Degree of protection with thread gasket	IP 68
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

#### Note

#### Ordering data

Type	Thread	L	L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
<b>metric</b>										
VP M12 EXE MS	M 12 x 1.5	15	12.00	15	2.60	4.00	7.00	13.00	50	1210880000
VP M16 EXE MS	M 16 x 1.5	15	12.00	17	3.60	5.40	9.00	18.00	50	1210890000
VP M20 EXE MS	M 20 x 1.5	15	12.00	23	4.60	6.90	11.50	23.00	50	1210900000
VP M25 EXE MS	M 25 x 1.5	15.5	12.00	29	5.60	8.40	14.00	28.00	25	1210910000
VP M32 EXE MS	M 32 x 1.5	16	12.00	39	7.20	10.80	18.00	36.00	10	1210920000
VP M40 EXE MS	M 40 x 1.5	19	15.00	45	8.80	13.20	22.00	44.00	10	1210930000
VP M50 EXE MS	M 50 x 1.5	20	15.00	48	10.80	16.20	27.00	54.00	5	1210940000
VP M63 EXE MS	M 63 x 1.5	36	19.00	70	13.40	20.10	33.50	67.00	5	1210950000
VP M75 EXE MS	M 75 x 1.5	36	19.00	80	16.80	25.00	40.00	77.00	5	1210960000
<b>PG</b>										
VP 7-EXE MS	PG 7	18	15.00	15	3.00	4.50	7.50	15.00	50	1719340000
VP 9-EXE MS	PG 9	18	15.00	18	3.60	5.40	9.00	18.00	50	1719350000
VP 11-EXE MS	PG 11	18	15.00	21	4.20	6.30	10.50	21.00	50	1719360000
VP 13,5-EXE MS	PG 13.5	18	15.00	23	4.60	6.90	11.50	23.00	50	1719370000
VP 16-EXE MS	PG 16	18	15.00	26	5.20	7.80	13.00	26.00	25	1719380000
VP 21-EXE MS	PG 21	18	15.00	32	6.40	9.60	16.00	32.00	20	1719390000
VP 29-EXE MS	PG 29	19	15.00	41	8.20	12.30	20.50	41.00	20	1719400000
VP 36-EXE MS	PG 36	20	15.00	51	10.20	15.30	25.50	51.00	10	1719410000
VP 42-EXE MS	PG 42	20	15.00	58	11.60	17.40	29.00	58.00	10	1719420000
VP 48-EXE MS	PG 48	20.5	15.00	64	12.80	19.20	32.00	64.00	5	1719430000

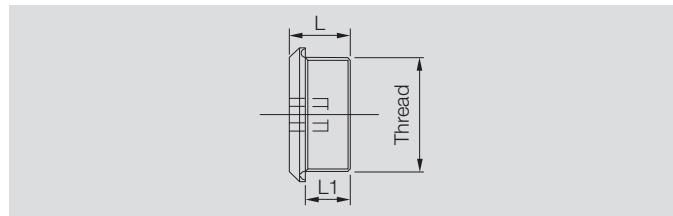
#### Note

The design of the metric sealing plug is not the same as the armoured conduit sealing plugs, this has no effect on their properties.

## Sealing plugs - Brass Ex e, Ex d, IP66 / IP68



Sealing plug with accessible hexagon recess. It is used to seal unused threaded holes so that cable glands can be connected in the future. Approved for use with the pressure-resistant Ex d encapsulation.



## Technical data

Material	Brass, nickel-plated
Temperature range	-50 °C...180 °C
Degree of protection	IP 54
Approval	ATEX I M2 II 2 GD Ex d I/IIC Mb Gb Ex tb IIIDb IP6X, IECEx Ex d I/IIC & Ex e I/IIC MbGb Ex tb IIC Db IP6X

## Note

## Ordering data

Type metric	Thread	L1	Qty.	Order No.
KSPA M16 BNI	M16	16.00	20	0887490000
KSPA M20 BNI	M 20	16.00	20	0886670000
KSPA M25 BNI	M25	16.00	20	0886680000
KSPA M32 BNI	M32	16.00	10	0886690000
KSPA M40 BNI	M 40	16.00	10	0886700000
KSPA M50 BNI	M 50	16.00	1	0886710000
KSPA M63 BNI	M 63	16.00	1	1075370000
KSPA M75 BNI	M 75	16.00	1	1075380000

## Note

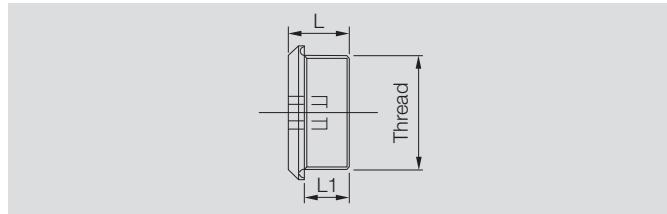
## Sealing plugs

### Sealing plugs - Brass and Stainless steel - Ex e, Ex d, IP66 / IP 68



Dome head sealing plug with accessible hexagon recess. It is used to seal unused threaded holes so that cable glands can be connected in the future. Available in brass and stainless steel. Approved for use with the pressure-resistant Ex d encapsulation and increased safety Ex e.

C



#### Technical data

O-Ring	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 66, IP 68
Approval	ATEX I M2 II 2 GD Ex dI/IIC Mb Gb Ex e I/IIC Mb Gb Ex tb IIIC Db IP6X, IECEx Ex d I/IIC & Ex e I/IIC MbGb Ex tb IIIC Db IP6X

#### Note

#### Ordering data

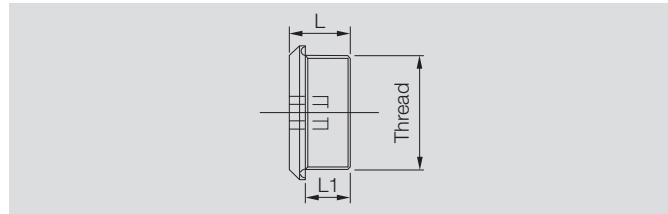
Type	Thread	L	L1	Qty.	Order No.
<b>Stainless steel</b>					
KSPM M16 SSC	M16	21.5	16.00	20	0887500000
KSPM M20 SSC	M 20	21.5	16.00	20	0886720000
KSPM M25 SSC	M25	21.5	16.00	20	0886730000
KSPM M32 SSC	M32	21.5	16.00	10	0886740000
KSPM M40 SSC	M 40	21.5	16.00	10	0886750000
KSPM M50 SSC	M 50	21.5	16.00	1	1075510000
KSPM M63 SSC	M 63	21.5	16.00	1	1075520000
KSPM M75 SSC	M 75	21.5	16.00	1	1075530000
<b>Brass</b>					
KSPM M16 BSC	M16	21.5	16.00	20	0887480000
KSPM M20 BSC	M 20	21.5	16.00	20	0885410000
KSPM M25 BSC	M25	21.5	16.00	20	0885420000
KSPM M32 BSC	M32	21.5	16.00	10	0885430000
KSPM M40 BSC	M 40	21.5	16.00	10	0885440000
KSPM M50 BSC	M 50	21.5	16.00	1	0885450000
KSPM M63 BSC	M 63	21.5	16.00	1	1075480000
KSPM M75 BSC	M 75	21.5	16.00	1	1075490000

#### Note

## Sealing plugs - Plastic - Ex e, IP 66



Sealing plugs with accessible hexagon recess, made from glass-fibre-reinforced nylon. They are used to seal unused threaded holes so that cable glands can be connected in the future – also recommended for Ex applications.



## Technical data

Material	Nylon
O-Ring	NBR
Temperature range	-20 °C...40 °C
Degree of protection	IP 66
Approval	II 2 GD, Ex e IIC Gb, Ex tb IIIC Db, IP6X

## Note

## Ordering data

Type metric	Thread	L	L1	Qty.	Order No.
KSPM M16 PL	M 16 x 1.5	21.5	16.00	20	1209890000
KSPM M20 PL	M 20 x 1.5	21.5	16.00	20	1209910000
KSPM M25 PL	M 25 x 1.5	21.5	16.00	20	1209920000
KSPM M32 PL	M 32 x 1.5	21.5	16.00	10	1209930000
KSPM M40 PL	M 40 x 1.5	21.5	16.00	10	1209940000
KSPM M50 PL	M 50 x 1.5	21.5	16.00	1	1209950000

## Note

## Adaptors

### Adaptors with NPT male threads



Adaptors can be used to connect threaded holes and cable glands of different thread sizes and types.

### Technical data

Material	Brass, nickel-plated
Temperature range	-40 °C...100 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 68
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

### Ordering data

External thread	3/4" NPT	3/4" NPT	1" NPT	1 1/2" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT
Inner thread	Order No.							
M16	1737490000					1737440000	1737430000	1737420000
M20	1737650000	1737640000	1737630000			1737600000	1737590000	1737580000
M25	1737810000	1737800000	1737790000			1737760000	1737750000	1737740000
M32		1737950000				1737910000	1737900000	1737890000
M40			1738070000			1738040000	1738030000	1738020000
M50						1738150000	1738140000	1738130000
M63						1738310000	1738300000	1738290000
M63						1738310000	1738300000	1738290000
1/2" NPT	1738410000	1738400000	1738390000	1738380000	1738370000	1738360000	1738350000	1738340000
3/4" NPT	1738570000	1738560000	1738550000	1738540000	1738530000	1738520000	1738510000	1738500000
1" NPT		1738700000	1738690000	1738680000	1738670000	1738660000	1738650000	
1 1/4" NPT		1738820000	1738810000	1738800000	1738790000	1738780000	1738770000	
1 1/2" NPT			1738920000	1738910000	1738900000	1738890000	1738880000	
2" NPT						1738990000	1738980000	1738970000
2 1/2" NPT						1739060000	1739050000	1739040000
3" NPT							1739100000	1739090000
Note								

## Adaptors with metric male threads



Adaptors can be used to connect threaded holes and cable glands of different thread sizes and types.

C

## Technical data

Material	Brass, nickel-plated
Temperature range	-40 °C...100 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 68
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

## Ordering data

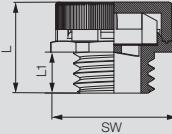
External thread	M16	3/4" NPT	1" NPT	1 1/4" NPT	1" NPT	1 1/4" NPT	M63	M75
Inner thread	Order No.							
M16		1737560000	1737550000	1737540000	1737530000	1737520000	1737510000	1737500000
M20	1737730000		1737720000	1737710000	1737700000	1737690000	1737680000	1737670000
M25			1737880000		1737860000	1737850000	1737840000	1737830000
M32				1738010000		1737990000	1737980000	1737970000
M40					1738120000	1738110000	1738100000	1738090000
M50						1738210000	1738190000	1738180000
M63							1738280000	1738260000
M63							1738330000	1738260000
1/2" NPT		1738480000		1738460000	1738450000	1738440000	1738430000	1738420000
3/4" NPT		1738640000		1738630000		1738610000	1738600000	1738590000
1" NPT			1738760000	1738750000	1738740000	1738730000	1738720000	1738710000
1 1/4" NPT				1738870000		1738850000	1738840000	1738830000
1 1/2" NPT							1738940000	1738930000
2" NPT								1739010000
2 1/2" NPT							1739080000	1739070000
3" NPT								1739110000
Note								

## Compensating elements

### Compensation elements - Plastic - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



#### Technical data

Material / Colour	Polyamide 6 / RAL 9005
O-Ring	NBR
Temperature range	-40 °C...120 °C
Degree of protection	IP 66, IP 68, IP 69K
Air flow rate	0,8 l/min at 0.1 bar $\Delta P$ , to 7.6 l/min at 1bar $\Delta P$
Wasser inlet point	> 1.5 bar
Flammability class UL 94	V-2

#### Note

#### Ordering data

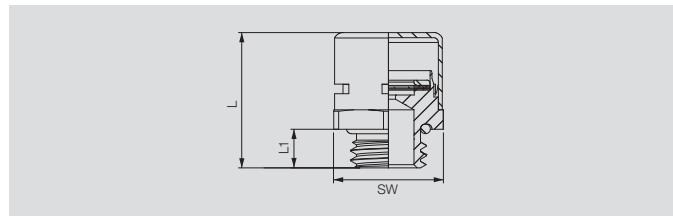
Type metric	Thread	L	L1	SW	Qty.	Order No.
DAE M12 PA long	M 12 x 1.5	17.4	10.00	17	10	1868570000
DAE M12 PA short	M 12 x 1.5	13.4	6.00	17	10	1868560000

**Note** Light grey version - RAL 7035 - on request

## Compensation elements - Stainless steel - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



## Technical data

Material	Stainless steel					
O-Ring	NBR					
Temperature range	-40 °C...120 °C					
Degree of protection	IP 66, IP 68, IP 69K					
Air flow rate	0,8 l/min at 0.1 bar ΔP, to 7.6 l/min at 1bar ΔP					
Wasser inlet point	> 1.5 bar					

## Note

## Ordering data

Type metric	Thread	L	L1	SW	Qty.	Order No.
DAE M12 SS	M 12 x 1.5	21.1	10.00	17	10	1868550000

## Note

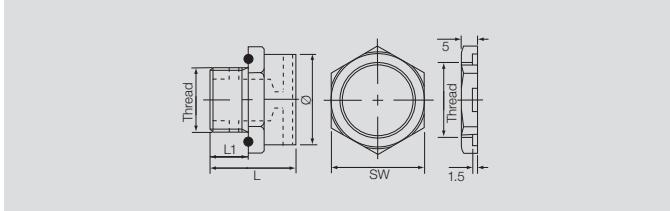
## Compensating elements

### Compensation elements - BD 1



The BD1 compensation element can be used for enclosure ventilation and to prevent moisture build-up. It is specially designed for Ex applications.

C



#### Technical data

O-Ring	NBR
Temperature range	-50 °C...85 °C
Degree of protection	IP 66
Filter	HDPE insert
Approval	Ex e II, II 2 GD

#### Note

#### Ordering data

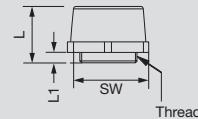
Type	Thread	L	L1	SW	Qty.	Order No.
<b>metric, brass</b>						
BD 1 brass	M 20 x 1.5	25	10.00	29	1	3080760000
<b>metric, stainless steel</b>						
BD 1 ss	M 20 x 1.5	25	10.00	29	1	3080770000

#### Note

## Compensation elements - EWS



We recommend using the EWS drainage plug in order to drain moisture out of the enclosure. This component is not suitable for providing ventilation to the enclosure.



## Technical data

Material / Colour	Polyamide / RAL 9005
Temperature range	-20 °C...40 °C
Degree of protection	IP 54
Flammability rating	V-2
Approval	Ex e II, II 2 GD

**Note** Installed at the lowest point from the bottom in the wall of the enclosure  
Minimum enclosure wall thickness of 4 mm must be maintained.

## Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
<b>metric</b>						
EWS M 25X1,5	M 25 x 1.5	23	5.00	30	20	1719740000

**PG**

EWS PG16	PG 16	23	5.00	27	20	1719730000
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**Note**



# Cable entry system

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## Cable entry system

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Cable entry system	D.2
Cable grommets	D.3
Cable entry strips and panels	D.4
Strain-relief strips	D.9
Separable cable gland	D.10

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D

## Cable entry system

You want to connect a pre-assembled cable into an installation enclosure or a switch cabinet, or to subsequently install it without having to disconnect or cut-off the plug (potentially affecting the manufacturer's warranty)?

If so, you can save time and money by using our modular Cabtite cable entry system. These systems are a combination of splittable cable entry strips or cable glands connected with clamping grommets. The use of split, captive grommets allows different diameters to be fed into the enclosure whilst simultaneously guaranteeing IP 54 protection and strain relief. Thanks to the fact that they have the same design and dimensions, the modular components and grommets can be used in cable entry strips as well as in cable glands. The system is found particularly in measurement, power, computer lines or field bus systems in the areas of:

- Control engineering
- Switchgear cabinet manufacture
- Motor vehicle manufacture
- Systems engineering
- Mechanical engineering
- Electrical installation

**D**

### Cabtite KEL SNAP frame



### Separable cable gland Cabtite KVT



### Cabtite sample set

Get a feel for the Cabtite system with our Cabtite sample set. It contains cable entry frames, snap frames, separable cable glands as well as diverse cable grommets.

### Ordering data

Type	Qty.	Order No.
Cabtite sample Kit	1	1849780000

**HDC KT ...**

Cable grommets, small

Cable grommets  
for ASI cables**Technical data**

Material, grey	Elastomers, free from halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20 °C...80 °C
UL 94 flammability rating	V0

**Ordering data**

Type	Clamping range [mm]	Qty.	Order No. grey	Order No. black
HDC KT 3	3-4	10	1826460000	1827790000
HDC KT 4	4-5	10	1826470000	1827800000
HDC KT 5	5-6	10	1826480000	1827810000
HDC KT 6	6-7	10	1826490000	1827830000
HDC KT 7	7-8	10	1826500000	1827840000
HDC KT 8	8-9	10	1826510000	1827850000
HDC KT 9	9-10	10	1826520000	1827860000
HDC KT 10	10-11	10	1826530000	1827870000
HDC KT 11	11-12	10	1826540000	1827880000
HDC KT 12	12-13	10	1826550000	1827890000
HDC KT 13	13-14	10	1826560000	1827900000
HDC KT 14	14-15	10	1826570000	1827910000
HDC KT 15	15-16	10	1826580000	1827920000
HDC KTS 16	16-17	10	1826590000	1827930000
HDC KTS 17	17-18	10	1826600000	1827940000
<b>for ASI cables</b>				
HDC KT-ASI		10	1826610000	1828120000
<b>2 or 4 openings</b>				
HDC KT 2/4	2 x 4	10	1826620000	1828130000
HDC KT 2/5	2 x 5	10	1826630000	1828140000
HDC KT 2/6	2 x 6	10	1826640000	1828150000
HDC KT 4/5	4 x 5	10	1826650000	1828160000
<b>Blanking plugs, small</b>				
HDC BTK		10	1828170000	1828200000

**HDC KT ...**

Cable grommets, large



Blanking plugs

Adapter grommet

D

**Technical data**

Material, grey	Elastomers, free from halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20 °C...80 °C
UL 94 flammability rating	V0

**Ordering data**

Type	Clamping range [mm]	Qty.	Order No. grey	Order No. black
HDC KT 16	16-17	10	1825950000	1827950000
HDC KT 17	17-18	10	1826300000	1827960000
HDC KT 18	18-19	10	1826310000	1827970000
HDC KT 19	19-20	10	1826320000	1827980000
HDC KT 20	20-21	10	1826330000	1827990000
HDC KT 21	21-22	10	1826340000	1828000000
HDC KT 22	22-23	10	1826350000	1828010000
HDC KT 23	23-24	10	1826360000	1828020000
HDC KT 24	24-25	10	1826370000	1828030000
HDC KT 25	25-26	10	1826380000	1828040000
HDC KT 26	26-27	10	1826390000	1828050000
HDC KT 27	27-28	10	1826400000	1828060000
HDC KT 28	28-29	10	1826410000	1828070000
HDC KT 29	29-30	10	1826420000	1828080000
HDC KT 30	31-32	10	1826430000	1828090000
HDC KT 32	32-33	10	1826440000	1828100000
HDC KT 34	33-34	10	1826450000	1828110000
<b>Adapter grommet, large (for small cable grommets)</b>				
HDC ATG		10	1828190000	1828220000
<b>Blanking plugs, large</b>				
HDC BTG		10	1828180000	1828210000

# Cabtite KEL

## Cabtite KEL

- The rectangular panel cutout frames fit exactly into the standard cutout for heavy-duty connectors. This makes it possible to accommodate up to 40 connectors in a very confined space.
- Feeds through prefabricated wiring in confined spaces.
  - Two-piece, two-tier system
  - Fast and easy mounting
  - Standard panel cutout frames for 16 and 24 pole industrial plug-in connectors
  - The predefined gap achieves a minimum class of protection of IP54
  - Large numbers of cables in very confined spaces
  - Retrofitting of prefabricated wiring also possible
  - The manufacturer's guarantee covering the prefabricated cables remains valid
  - Integral strain relief to VDE 0619
  - Locknuts ensure that working "overhead" is safe and simple

## Cabtite KEL SNAP frame

- Snap frame for mounting the cable entry frame in the switchgear cabinet.
- The KEL can be fitted quickly without tools
  - The KEL need not be fitted or removed to add or remove individual cables
  - The drilling pattern is identical with that of the KEL
  - Seals are already integrated on both sides
  - Switchgear cabinets can be fitted with KEL SNAP in advance
  - KEL Snap is available for KEL 16, KEL 24 and KEL B4.

## Cabtite KEL-DP

The Cabtite KEL-DP feed-through plate system offers an affordable alternative to standard cable glands. It is ideal when multiple cables must be connected within an installation housing and when IP54 protection is adequate. Weidmüller offers this system with round and rectangular entry plates. The entry plates are simply pressed into the standard cut-outs. The position of the system is centred by means of integrated spring-loaded pins.

The advantages of this system are clear:

- High packing density
- Affordable
- Simple, tool free installation in seconds
- Very low profile

## Operating mode

1. The grommet is fitted around the cable.

**Important:**

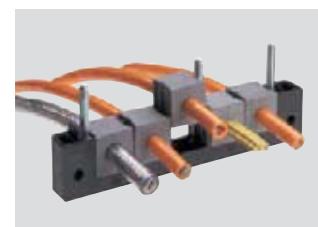
Choose an appropriately sized grommet for the diameter of the cable!



2. Press the grommet with the cable into the open cable entry frame.

**Important:**

The flat side of the grommet must face upwards!



3. Assemble the two halves of the cable entry frame using the M5x50 Allen screws supplied. This achieves integral strain relief in accordance with VDE 0619 (VDE = German Association for Electrical, Electronic and Information Technologies).



4. Finally, the rubber seal is glued around the cabinet panel cutout and the cable entry frame is secured with 4 screws. The cable entry is now complete, and has a protection class of IP54!



**Advantage:** The panel cutout frames are the same as those used for heavy-duty connectors. They are supplied by the switchgear cabinet manufacturers. You do not require a new punching die!



**HDC KEL 16**

Size equivalent to 16-pole HE inserts

KEL 16/8 with 8 small grommets



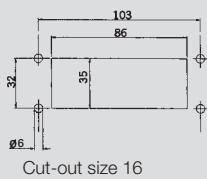
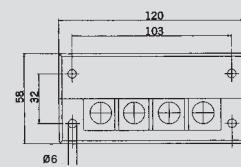
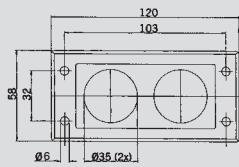
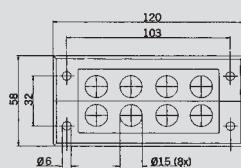
KEL 16/4 closed half-shell and 4 small grommets

Snap frame  
KEL 16 SNAP**Technical data**

Material	Polyamide, free from halogens and silicone		
Colour	black		
Temperatur range	-20 °C...80 °C		
Class of protection	IP54, when the correct cable grommet is selected		
UL 94 flammability rating	V0		

**Ordering data**

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL 16/2	—	2	10	1825860000
HDC KEL 16/4	4	— *)	10	1825900000
HDC KEL 16/5	4	1	10	1849770000
HDC KEL 16/8	8	—	10	1825910000
<b>Snap frame</b>				
HDC KEL 16 SNAP			10	1827770000
*) with closed half shell				

**Dimensions**Cut-out size 16  
35 x 86 mm**HDC KEL 24**

Size equivalent to 24-pole HE inserts

KEL 24/10 with 10 small grommets



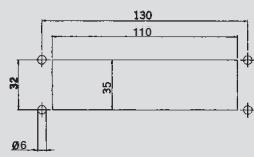
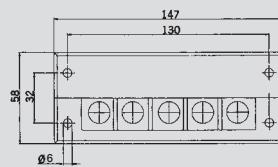
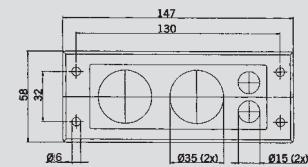
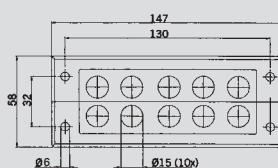
KEL 24/7 with 1 large and 6 small grommets

Snap frame  
KEL 24 SNAP**Technical data**

Material	Polyamide, free from halogens and silicone		
Colour	black		
Temperatur range	-20 °C...80 °C		
Class of protection	IP54, when the correct cable grommet is selected		
UL 94 flammability rating	V0		

**Ordering data**

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL 24/4	2	—	10	1825930000
HDC KEL 24/5	5	— *)	10	1825940000
HDC KEL 24/7	6	1	10	1849760000
HDC KEL 24/10	10	—	10	1827760000
<b>Snap frame</b>				
HDC KEL 24 SNAP			10	1827780000
*) with closed half shell				

**Dimensions**Cut-out size 24  
35 x 110 mm

**Cable entry strips and panels****HDC KEL B**

KEL B 1 with 1 large grommet



KEL B 4 with 4 small grommets

**D**

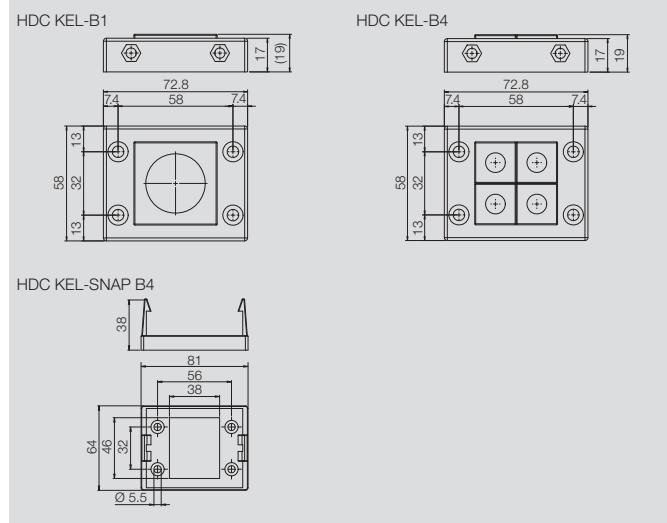
Snap frame KEL.SNAP B4

**Technical data**

Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

**Ordering data**

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL-B1	-	1	10	<b>1048170000</b>
HDC KEL-B4	4	-	10	<b>1048180000</b>
<b>Snap frame</b>				
HDC KEL-SNAP B4				<b>1048190000</b>

**Dimensions**

**HDC KEL DP - Rectangular version**

Rectangular cable entry plates (112 x 35 mm)

CABTITE KEL-DP 24/14



CABTITE KEL-DP 24/17



CABTITE KEL-DP 24/19



CABTITE KEL-DP 24/26



CABTITE KEL-DP 24/48



CABTITE KEL-DP 24/50

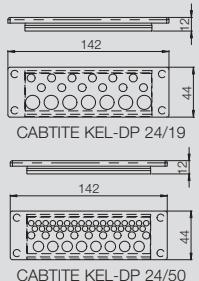
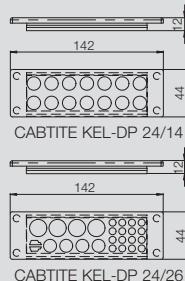
**Technical data**

Material	Elastomers, free from halogens and silicone
Colour	grey
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

**Ordering data**

Rectangular version (112 x 35 mm)

Type	Number of lines with maximum diameter (in mm)	Qty.	Order No.
CABTITE KEL-DP 24/14	14 x max. 12.1 mm	1	1039850000
CABTITE KEL-DP 24/17	12 x max. 12.6 mm 5 x max. 10.5 mm	1	1039870000
CABTITE KEL-DP 24/19	7 x max. 12.1 mm 12 x max. 6.5 mm	1	1039890000
CABTITE KEL-DP 24/26	2 x ASI cables 16 x max. 6.5 mm 4 x max. 12.1 mm 4 x max. 16.1 mm	1	1039930000
CABTITE KEL-DP 24/48	48 x max. 6.5 mm	1	1039940000
CABTITE KEL-DP 24/50	33 x max. 5.3 mm 9 x max. 6.4 mm 8 x max. 8.3 mm	1	1039950000

**Dimensions**Cut-out size KEL-DP 24  
112 x 35 mm**HDC KEL DP - Round version**

Round cable entry plates

CABTITE KEL-DP 32/10



CABTITE KEL-DP 50/9



CABTITE KEL-DP 50/12



CABTITE KEL-DP 50/16



CABTITE KEL-DP 50/18



CABTITE KEL-DP 50/20



D

**Technical data**

Material	Elastomers, free from halogens and silicone
Colour	grey
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

**Ordering data**

Round version

Type	Number of lines with maximum diameter (in mm)	Qty.	Order No. for sheet thickness of 1.5 to 2.5 mm	Order No. for sheet thickness of 2.8-4.0 mm
CABTITE KEL-DP 32/10	6 x max. 5.2 mm 2 x max. 6.4 mm 2 x max. 9.4 mm	1	1040120000	1040310000
CABTITE KEL-DP 50/9	5 x max. 7.0 mm 4 x max. 18.0 mm	1	1040130000	1040320000
CABTITE KEL-DP 50/12	10 x max. 9.2 mm 2 x max. 11.2 mm	1	1040160000	1040330000
CABTITE KEL-DP 50/16	4 x max. 5.3 mm 5 x max. 6.3 mm 3 x max. 9.5 mm 4 x max. 11.3 mm	1	1040180000	1040350000
CABTITE KEL-DP 50/18	5 x max. 11.5 mm 5 x max. 9.0 mm 4 x max. 6.5 mm 2 x max. 5.5 mm 2 x max. 4.0 mm	1	1040210000	1040360000
CABTITE KEL-DP 50/20	16 x max. 6.3 mm 4 x max. 9.3 mm	1	1040240000	1040370000

**Dimensions**

2.8 to 4.0 mm sheet thickness



1.5 to 2.5 mm sheet thickness



CABTITE KEL-DP 32/10

CABTITE KEL-DP 50/9

CABTITE KEL-DP 50/20

## Cable entry strips and panels

### Cable clamping rail Cabtite KEL-EMV

Provides EMV for prefabricated cable without interrupting shielding.

#### Advantages:

- Direct, simple and quick contact with the enclosure
- Two-tier version saves space with up to 10 cables
- Strain relief without cable ties in accordance with VDE 0619
- No EMC cable glands necessary for mains-generated interference sources
- Low-impedance shielding contact
- Seals using outer sheath and not the shield = higher class of protection!
- Trouble-free retrofitting

D



#### Technical data

Material	Stainless steel	
----------	-----------------	--

#### Ordering data

Type	for	Qty.	Order No.
	HDC KEL EMV 16/4    KEL 16	10	<b>1825750000</b>
	HDC KEL EMV 24/5    KEL 24	10	<b>1825760000</b>
	HDC KEL EMV x/3    KEL 16 and KEL 24 transverse	10	<b>1825770000</b>

## Strain-relief strips

The Cabtite KZL strain-relief strips are used when routing various types of cables to machines and electrical cabinets. A secure grip is ensured by the undercut on the comb-shaped profile. Cable ties provide strain relief for the cables. Undercuts in the teeth of the KZL prevent the cable tie from slipping out.

## HDC KZL

CABTITE KZL 140



CABTITE KZL 80



CABTITE KZL 39



D

## Technical data

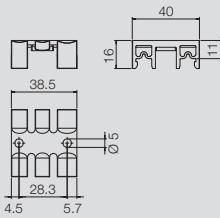
Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of Ingress protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

## Ordering data

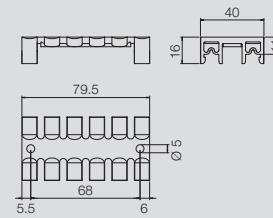
Type	Length	Qty.	Order No. for 35 mm DIN mounting rail	Order No. for C profile rail
CABTITE KZL 39	39 mm	10	1039990000	1040080000
CABTITE KZL 80	80 mm	10	1039970000	1040060000
CABTITE KZL 140	140 mm	10	1039960000	1040030000

## Dimensions

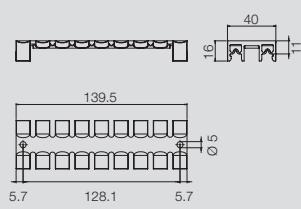
CABTITE KZL 39 for 35 mm DIN rail



CABTITE KZL 80 for 35 mm DIN rail



CABTITE KZL 140 for 35 mm DIN rail



## Separable cable gland

### Cabtite KVT

KVTs are used to feed through prefabricated cables when space is tight or only a few cables are required. As is the case with its big brother, the KEL, this product is also a two-piece system for easy assembly using the same cable grommets. The preassembled KVT32 can be used for hole diameters up to 35 mm, the KVT63 for hole diameters up to 65 mm. A sealing ring is also included.

- This two-piece system means that the size of the plug-in connector to be fed through is limited only by the size of the hole diameter.
- Two-piece two-tier system
- Fast and easy mounting
- The predefined gap achieves a minimum class of protection of IP54
- Large numbers of cables in very confined spaces
- Retrofitting of prefabricated wiring also possible
- The manufacturer's guarantee covering the prefabricated cables remains valid
- Integral strain relief to VDE 0619

### Technical data

Material	Polycarbonate, free from halogens and silicone
Colour	grey, similar to RAL 7035
Class of Ingress protection	IP54, when the correct cable grommet is selected
Temperatur range	-30 °C...+100 °C
UL 94 flammability rating	VO

### Ordering data

Type	Thread	No. of grommet positions small	No. of grommet positions large	Qty.	Order No. white
HDC KVT 25	M 25 x 1.5	1	-	10	<b>1826660000</b>
HDC KVT 32	M 32 x 1.5	1	-	10	<b>1826670000</b>
HDC KVT 63-4	M 63 x 1.5	4	-	5	<b>1828230000</b>
HDC KVT 63-1	M 63 x 1.5	-	1	5	<b>1828240000</b>
<b>Locknut for D-Sub 9</b>					
KGM-SUB-D9	M 32 x 1.5	1	-	10	<b>1828250000</b>
<b>Note:</b> HDC KVT 63-x types are supplied with a locknut.					

### Operating mode

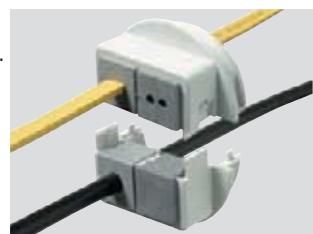
1. The grommet is fitted around the cable.

#### Important:

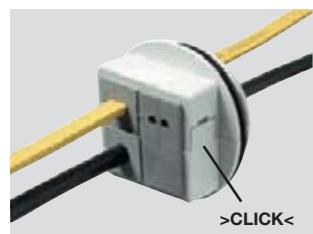
Choose an appropriately sized grommet for the diameter of the cable!



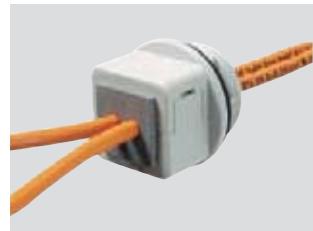
2. Press the grommet with the cable into the open cable gland. The flat sides of the grommet must face upwards when fitting the KVT 63/4!



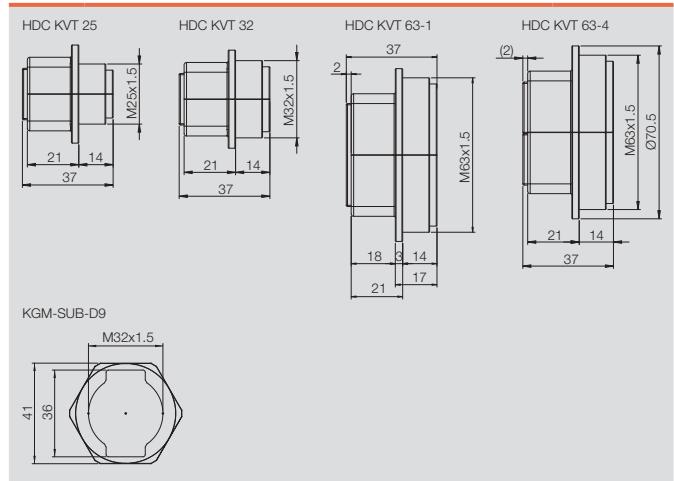
3. Squeeze the two halves of the cable gland together until they lock together with an audible "click".



4. Place the seal, which is also supplied, over the thread. Then fit the cable gland into the hole and, if necessary, secure it with a locknut.



### Dimensions



# Distribution boxes

## Distribution boxes

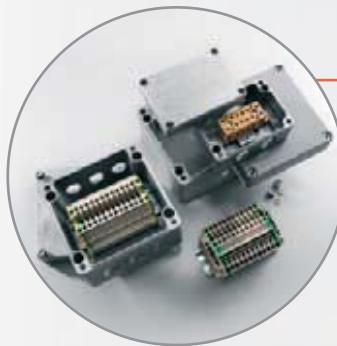
Standardised distribution boxes as a modular system	E.2
Standardised distribution boxes - product overview	E.4
Klippon® - Aluminium enclosures	E.8
Klippon® - Polyester enclosures	E.19

# Standardised distribution boxes as a modular system

## The perfect solution in the shortest time

Weidmüller can deliver a custom-fit enclosure variant for a wide variety of industrial applications to fit the user's plans. In order to make this process even more efficient for the customer, Weidmüller offers a modular enclosure system from which the customer can put together his customised enclosure solution. This selection includes different enclosure sizes from the Klippon® POK and Klippon® K series which already come with threaded holes. The appropriate terminal strip can also be ordered with the system when needed.

E



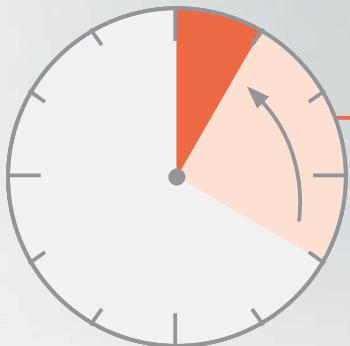
### A modular system provides flexibility

The pre-drilled empty enclosures in the Klippon® K- and Klippon® POK series, as well as the terminal strips, are available individually or can be combined into countless variants. Cable glands and other accessories are also available for this modular system.



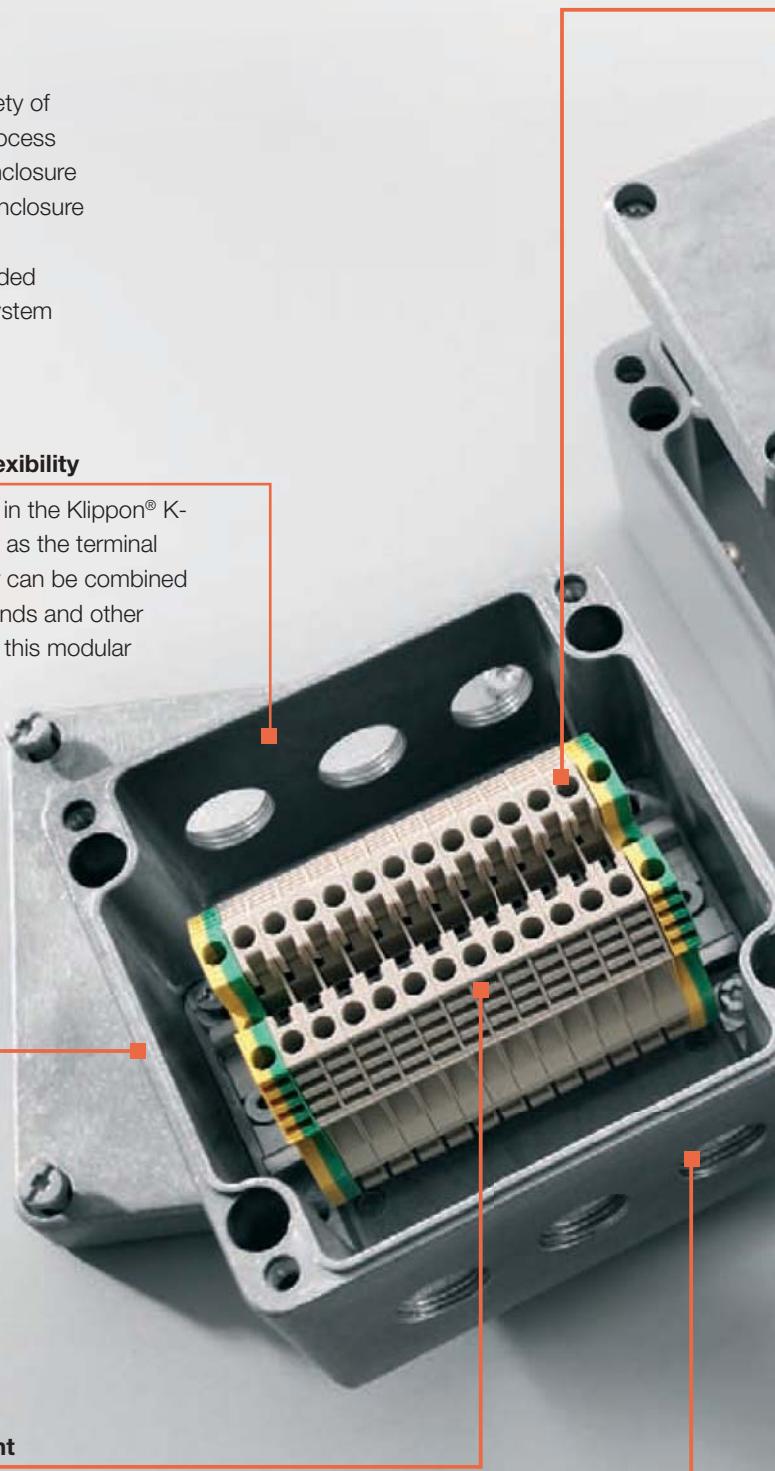
### Industrial and ATEX versions

ATEX-approved enclosures are also available; they provide reliable protection for applications in explosive areas.

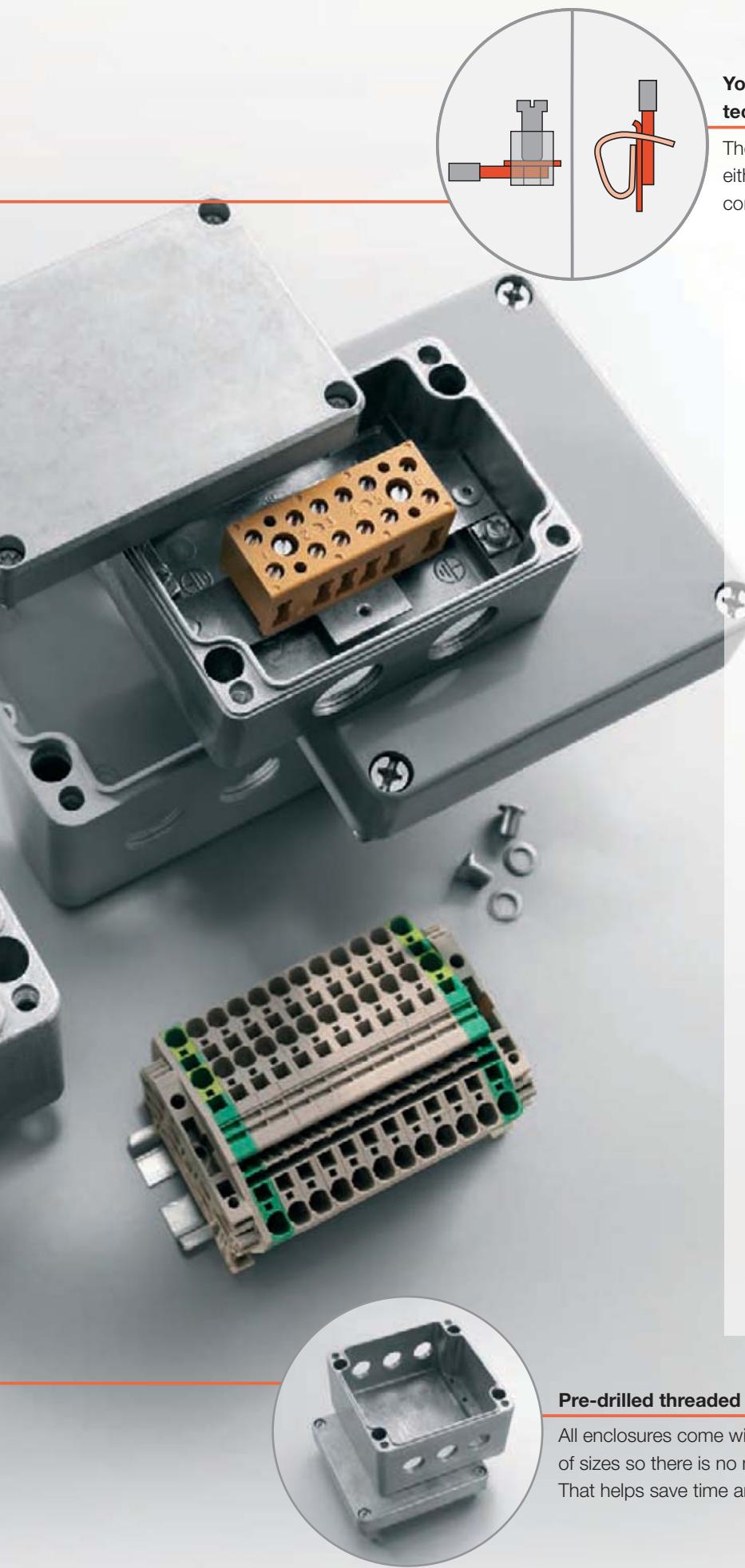


### Efficient procurement

Many users take advantage of the modular system to quickly and easily put together their perfect solution from the catalogue. The procurement process is quick and affordable with short delivery times.



## Standardised distribution boxes as a modular system



### Your choice of the connection technology

The terminal strips are available with either screw or tension-clamp connection.

### Product Assistant

You can use our Product Assistant to easily pick or combine the products you need. This helps you to quickly find an enclosure solution customised to your needs.  
<http://galaxy.weidmueller.com>

### Application-specific solutions



Weidmüller continues to offer customised development and manufacture of individualised customer-specific solutions. Enclosures can be processed and populated precisely in accordance with customer requirements – and also with Ex approval.

### Pre-drilled threaded holes

All enclosures come with threaded holes in a variety of sizes so there is no need to use lock nuts. That helps save time and money.

# Standardised distribution boxes – product overview

Use the product overview to find the right solution for you! Combine your own industrial version consisting of an enclosure, with or without threaded holes, a suitable mounting rail or pre-fitted terminal strips. The compatible components are always shown in a row. Distribution boxes with Ex protection for use

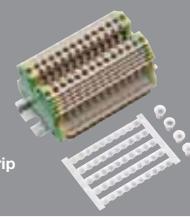
in explosive areas can be found in the last column. They come with threaded holes and are already equipped with a terminal strip.

## Aluminium enclosure, uncoated

E	Dimensions of the enclosure height x width x depth mm	Enclosure type	Order No.	Qty.	Type	Length mm	Rail mounting slot dimensions mm	Order No.	Qty.
<b>Aluminium, uncoated</b>									
64 x 58 x 34	Klippon® K01	1565240000	10	–	–	–	–	–	–
70 x 70 x 45	Klippon® K1	0342000000	10	TS15 MOPL	60 59	4.5 x 20 4.2 x 14	1909980000 8000004495	1 1	
80 x 75 x 57	Klippon® K11	0573300000	10	TS15	64	4.5 x 20	1909990000	1	
70 x 100 x 45	Klippon® K2	0342100000	10	TS15 MOPL	90 89	4.5 x 20 4.2 x 14	1910010000 8000004496	1 1	
80 x 125 x 57	Klippon® K21	0573400000	5	TS15	114	4.5 x 20	1910020000	1	
70 x 165 x 45	Klippon® K3	0342200000	5	TS15 MOPL	155 154	4.5 x 20 4.2 x 14	1910030000 8000004497	1 1	
80 x 175 x 57	Klippon® K31	0573500000	5	TS15	164	4.5 x 20	1910040000	1	
82 x 130 x 72	Klippon® K4	0342300000	1	TS35	64	5.5 x 20	1910060000	1	
120 x 122 x 81	Klippon® K41	1565270000	1	TS35	105	6.3 x 20	1910070000	1	
130 x 170 x 90	Klippon® K5	0342400000	1	TS35	148	5.5 x 20	1910080000	1	
160 x 160 x 91	Klippon® K52	1565290000	1	TS35	140	6.3 x 20	1910100000	1	
		protection class IP 66	suitable for the enclosures of the respective line						

<sup>1)</sup> Multi-pole terminal strip (terminal block BK 4, BK 6 or BK 12), mounted on mounting plate

<sup>2)</sup> Space for further threaded holes up to M40

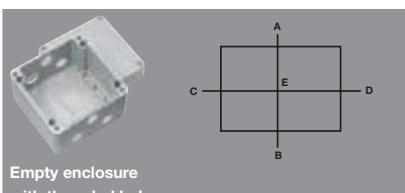
										
Threaded hole Side A	Threaded hole Side B	Order No.	Qty.	Connection technology	Cross-section mm²	Number of DU*	Number of PE*	Order No.	Qty.	Order No.
1x M16	1x M16	8000004184	1	Screw connection	○—○	4	4	0	7906080000	100
1x M16	2x M16	8000004147	1	Screw connection	○—○	4	4	0	8000004129 <sup>1)</sup>	1
1x M20	1x M20	8000004148	1							8000004202
2x M16	2x M16	8000004149	1	Screw connection	○—○○—○	4	5	2	8000004131	1
2x M20	2x M20	8000004150	1	Tension clamp connection	○—○○—○	2.5	5	1	8000004130	1
2x M16	2x M16			Tension clamp connection	○—○○—○	2.5	5	1		8000004204
2x M20	2x M20			Screw connection	○—○○—○	4	5	2		8000004209
2x M20	2x M20	8000004151	1	Screw connection	○—○—○	4	6	0	8000004132 <sup>1)</sup>	1
3x M16	3x M16	8000004152	1	Screw connection	○—○○—○	4	13	2	8000004134	1
3x M16	3x M16			Tension clamp connection	○—○○—○	2.5	14	2	8000004133	1
4x M20	4x M20	8000004153	1	Screw connection	○—○—○	4	12	0	8000004135 <sup>1)</sup>	1
4x M20	4x M20	8000004154	1	Screw connection	○—○○—○	4	21	2	8000004137	1
4x M20	4x M20			Tension clamp connection	○—○○—○	2.5	24	2	8000004136	1
2x M20	2x M20	8000004155	1	Screw connection	○—○○—○○—○○	4	5	2	8000004138	1
2x M20	2x M20			Tension clamp connection	○—○○—○○—○○	4	4	1	8000004139	1
2x M25	2x M25	8000003446	1	Screw connection	○—○○—○○—○○	4	12	2	8000003444	1
3x M20	3x M20	8000003447	1	Tension clamp connection	○—○○—○○—○○	4	9	2	8000003445	1
2x M25	2x M25			Tension clamp connection	○—○○—○○—○○	4	9	2		8000003590
3x M20	3x M20			Screw connection	○—○○—○○—○○	4	12	2		8000003591
4x M20	4x M20	8000004158	1	Screw connection	○—○○—○○—○○	4	17	2	8000004140	1
4x M20	4x M20			Tension clamp connection	○—○○—○○—○○	4	15	2	8000004141	1
4x M20	4x M20	8000004159 <sup>2)</sup>	1	Screw connection	○—○○—○○—○○	4	16	2	8000004142	1
4x M20	4x M20			Tension clamp connection	○—○○—○○—○○	2.5	19	2	8000004143	1
				suitable for the enclosure of the respective line *DU = feed-through terminals, PE = PE terminals						

## Standardised distribution boxes - product overview

**Polyester enclosure****E**

		Empty enclosure without threaded holes	Mounting rail (TS) Mounting plate (MOPL)					
Dimensions of the enclosure height x width x depth mm	Enclosure type	Order No.	Qty.	Type	Length mm	Rail mounting slot dimensions mm	Order No.	Qty.
<b>Polyester, RAL 7001</b>								
75 x 80 x 56	Klippon® POK1	1277200000	1	TS15	68	4.5 x 20	1928060000	1
75 x 110 x 55	Klippon® POK2	1277300000	1	TS15	98	4.5 x 20	1928070000	1
75 x 160 x 55	Klippon® POK3	1277400000	1	TS15	147	4.5 x 20	1928080000	1
120 x 122 x 91	Klippon® POK4	1277500000	1	TS35	105	6.3 x 20	1910070000	1
160 x 160 x 90	Klippon® POK51	1565410000	1	TS35	140	6.3 x 20	1910100000	1
				protection class IP 66		suitable for the enclosure of the respective line		

<sup>1)</sup> Multi-pole terminal blocks (block terminals BK 4, BK 6 or BK 12) can be directly fitted<sup>2)</sup> Space for further threaded holes up to M32



Empty enclosure  
with threaded holes



Terminal strip



Ex protected  
distribution boxes

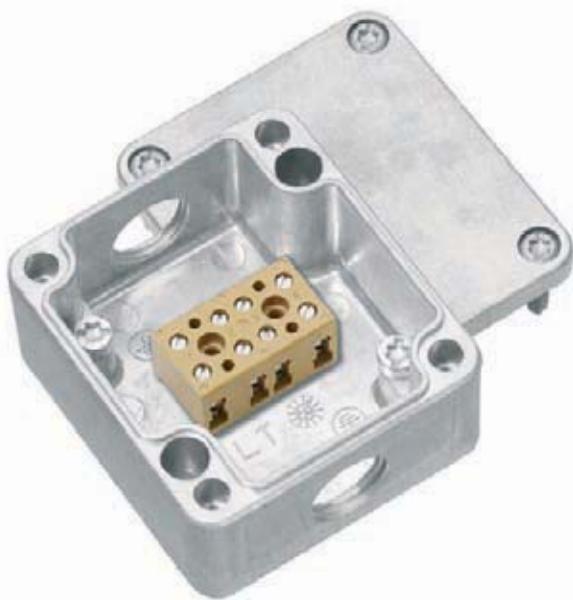
Threaded hole Side A	Threaded hole Side B	Order No.	Qty.	Connection technology	Cross-section mm <sup>2</sup>	Number of DU*	Number of PE*	Order No.	Qty.	Order No.	
2x M16	2x M16	8000004160	1	Screw connection	○————○	4	4	0	8000004365 <sup>1)</sup>	1	8000004222
2x M16	2x M16			Screw connection	○————○○————○	4	6	2	8000004144	1	8000004223
2x M20	2x M20	8000004161	1	Screw connection	○————○	4	6	0	8000004366 <sup>1)</sup>	1	8000004224
2x M20	2x M20			Screw connection	○————○○————○	4	10	2	8000004145	1	8000004225
4x M20	4x M20	8000004162	1	Screw connection	○————○○————○	4	12	0	8000004367 <sup>1)</sup>	1	8000004226
4x M20	4x M20			Screw connection	○————○○————○○————○	4	18	2	8000004146	1	8000004228
3x M20	3x M20	8000003448	1	Screw connection	○————○○————○○————○	4	12	2	8000003444	1	8000003593
3x M20	3x M20			Tension clamp connection	○————○○————○○————○	4	9	2	8000003445	1	8000003594
4x M20	4x M20	8000004164 <sup>2)</sup>	1	Screw connection	○————○○————○○————○○————○	4	16	2	8000004142	1	8000004229
4x M20	4x M20			Tension clamp connection	○————○○————○○————○○————○	2.5	19	2	8000004143	1	8000004230

suitable for the enclosures of the respective line  
\*DU = feed-through terminals, PE = PE terminals

Ex enclosure with an  
external earthing con-  
nection, holes and strip  
terminals in each row

## Klippon® K01

Depth 34 mm



Height/Width/Depth

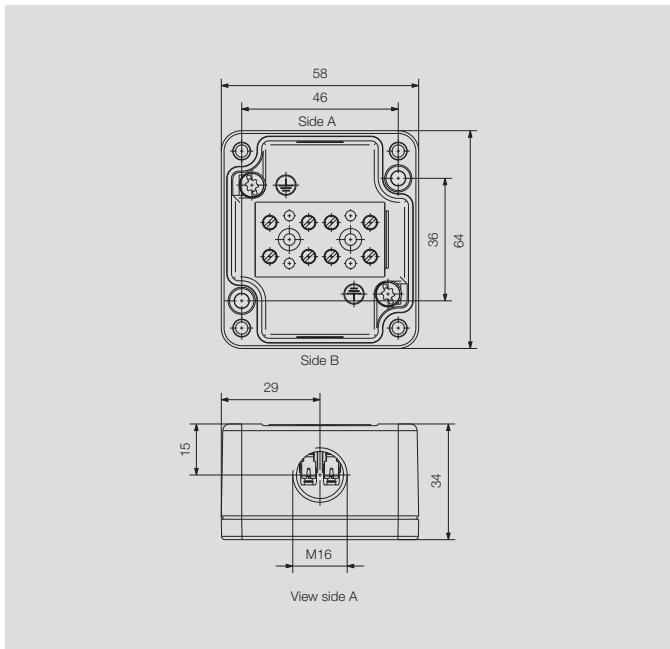
64 / 58 / 34 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529100000
Standard (silicone seal)**	1937850000

Natural finish (unpainted)	Order No.
Standard (CR seal)	1565240000
Ex enclosure (silicone seal)	9526820000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.



## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
1 x M16x1.5	1 x M16x1.5	8000004184

**Note** All enclosures are natural finish (unpainted).

## Accessories

Cable glands	Order No.
VG M16-EXE MS	1737210000
VG M16-EXE SW	1737280000
Stopping plugs	
VP M16-EXE MS	1737140000
VP M16-EXE SW	1737070000

## Terminal block, suitable for empty enclosure

Type of connection	Type	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
Screw connection	BK 4/E	Solid / stranded Flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	4	0	7906080000

**Note** \*DU = feed-through terminals, PE = PE terminals

## Klippon® K1

Depth 45 mm



Height/Width/Depth

70 / 70 / 45 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529120000
Standard (silicone seal)**	1937630000
Natural finish (unpainted)	
Standard (CR seal)	0342000000
Standard (silicone seal)**	1939560000
Ex enclosure (silicone seal)	9526840000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
1 x M16x1.5	2 x M16x1.5	8000004147
1 x M20x1.5	1 x M20x1.5	8000004148

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

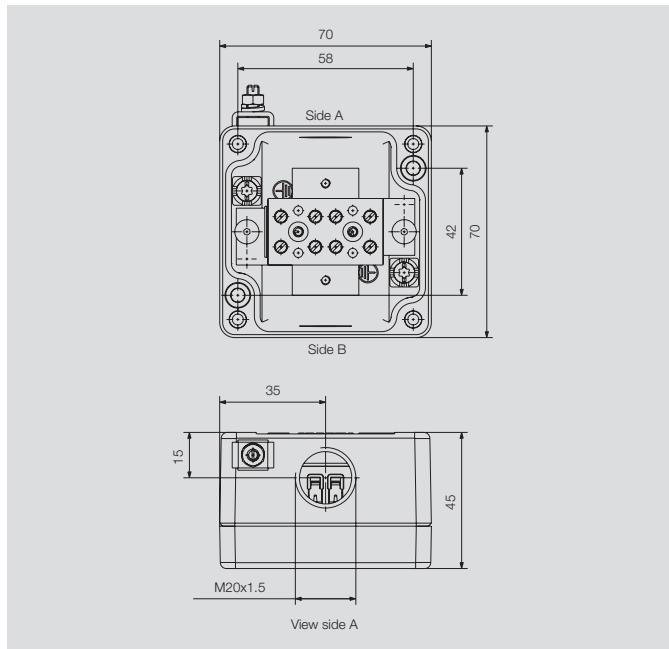
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 4/E	Screw connection	Solid / stranded Flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	4	0	8000004129

**Note** Supplied with mounting screws.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
1 x M16x1.5	2 x M16x1.5	4	0	8000004202
1 x M20x1.5	1 x M20x1.5	4	0	8000004203

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

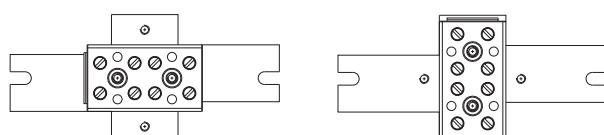
Cable glands	Order No.
VG M16-EXE MS	1737210000
VG M16-EXE SW	1737280000
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M16-EXE MS	1737140000
VP M16-EXE SW	1737070000
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting plate	MOPL K1 BKVARIO SET	59 mm	8000004495
Mounting rail	TS15 60 KLippon K1 CSS	60 mm	1909980000

## Ways to assemble the terminal block on the mounting plate



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Aluminium enclosures

## Klippon® K11

Depth 57 mm



Height/Width/Depth

80 / 75 / 57 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529130000
Standard (silicone seal)**	1937910000
Natural finish (unpainted)	
Standard (CR seal)	0573300000
Standard (silicone seal)**	1939570000
Ex enclosure (silicone seal)	9526850000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M16x1.5	2 x M16x1.5	8000004149
2 x M20x1.5	2 x M20x1.5	8000004150

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

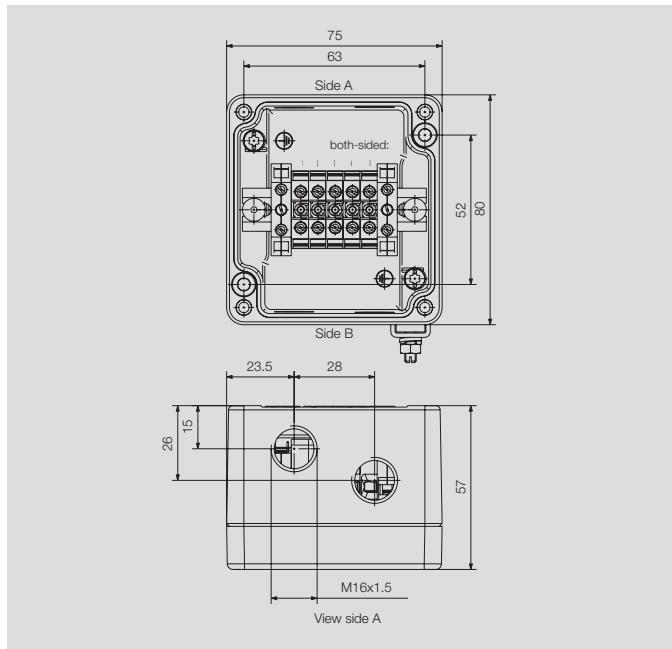
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
AKZ 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	5	2	8000004131
ZDUA 2.5-2	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> 0.5...2.5 mm <sup>2</sup> / 0.5...1.5 mm <sup>2</sup>	5	1	8000004130

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M16x1.5	2 x M16x1.5	5	2	8000004207
2 x M16x1.5	2 x M16x1.5	5	1	8000004204
2 x M20x1.5	2 x M20x1.5	5	2	8000004209
2 x M20x1.5	2 x M20x1.5	5	1	8000004208

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M16-EXE MS	1737210000
VG M16-EXE SW	1737280000
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M16-EXE MS	1737140000
VP M16-EXE SW	1737070000
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 64 Klippon K11	64 mm	1909990000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® K2

Depth 45 mm



Height/Width/Depth

70 / 100 / 45 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529140000
Standard (silicone seal)**	1937930000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0342100000
Standard (silicone seal)**	1939580000
Ex enclosure (silicone seal)	9526860000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M20x1.5	2 x M20x1.5	8000004151

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

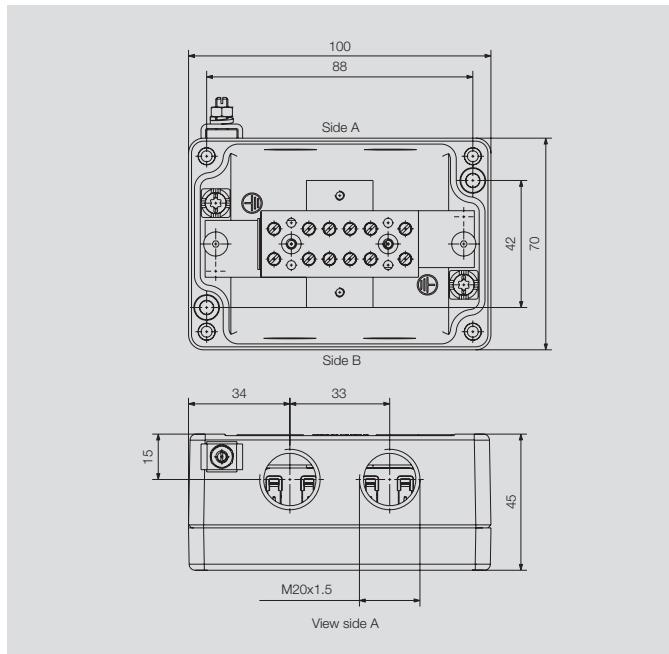
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 6/E	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	6	0	8000004132

**Note** Supplied with mounting screws.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M20x1.5	2 x M20x1.5	6	0	8000004210

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

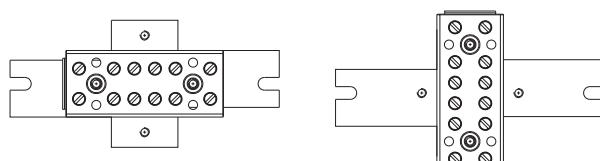
Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting plate	MOPL K2 BKVARIO SET	89 mm	8000004496
Mounting rail	TS15 90 KLippon K2 CSS	90 mm	1910010000

## Ways to assemble the terminal block on the mounting plate



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Aluminium enclosures

## Klippon® K21

Depth 57 mm



Height/Width/Depth 80 / 125 / 57 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529150000
Standard (silicone seal)**	1937830000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0573400000
Standard (silicone seal)**	1939590000
Ex enclosure (silicone seal)	9526870000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
3 x M16x1.5	3 x M16x1.5	8000004152

**Note** All enclosures are natural finish (unpainted).

## Accessories

Cable glands	Order No.
VG M16-EXE MS	1737210000
VG M16-EXE SW	1737280000
Stopping plugs	
VP M16-EXE MS	1737140000
VP M16-EXE SW	1737070000

## Terminal block, suitable for empty enclosure

Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
AKZ 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	13	2	8000004134
ZDUA 2.5-2	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> 0.5...2.5 mm <sup>2</sup> / 0.5...1.5 mm <sup>2</sup>	14	2	8000004133

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
3 x M16x1.5	3 x M16x1.5	13	2	8000004212
3 x M16x1.5	3 x M16x1.5	14	2	8000004211

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 114 Klippon K21 CSS	114 mm	1910020000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® K3

Depth 45 mm



Height/Width/Depth

70 / 165 / 45 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529160000
Standard (silicone seal)**	1937900000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0342200000
Standard (silicone seal)**	1939600000
Ex enclosure (silicone seal)	9526880000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004153

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

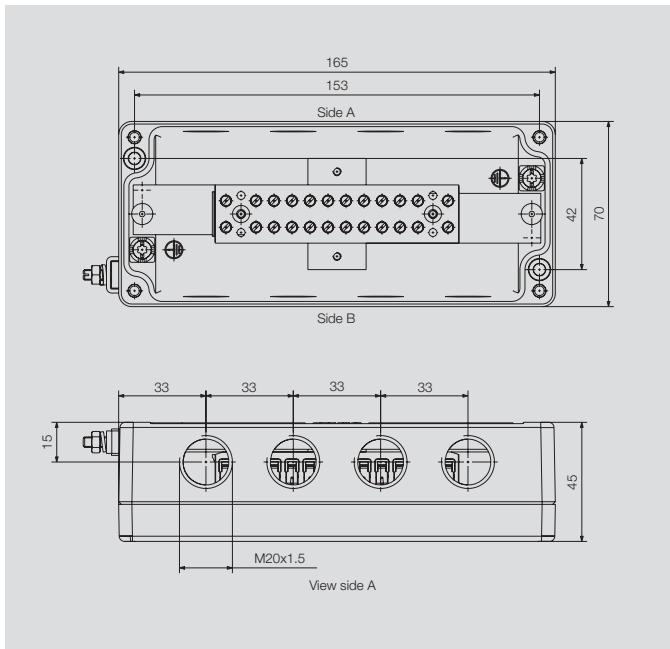
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 12/E	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	12	0	8000004135

**Note** Supplied with mounting screws.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	12	0	8000004213

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting plate	MOPL K3 BKVARIO SET	154 mm	8000004497
Mounting rail	TS15 155 Klippon K3 CSS	155 mm	1910030000



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Aluminium enclosures

## Klippon® K31

Depth 57 mm



Height/Width/Depth 80 / 175 / 57 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529170000
Standard (silicone seal)**	1937820000

## Natural finish (unpainted)

Natural finish (unpainted)	Order No.
Standard (CR seal)	0573500000
Standard (silicone seal)**	1939610000
Ex enclosure (silicone seal)	9526890000

**Note** The colours of painted enclosures may vary under certain circumstances.

\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004154

**Note** All enclosures are natural finish (unpainted).

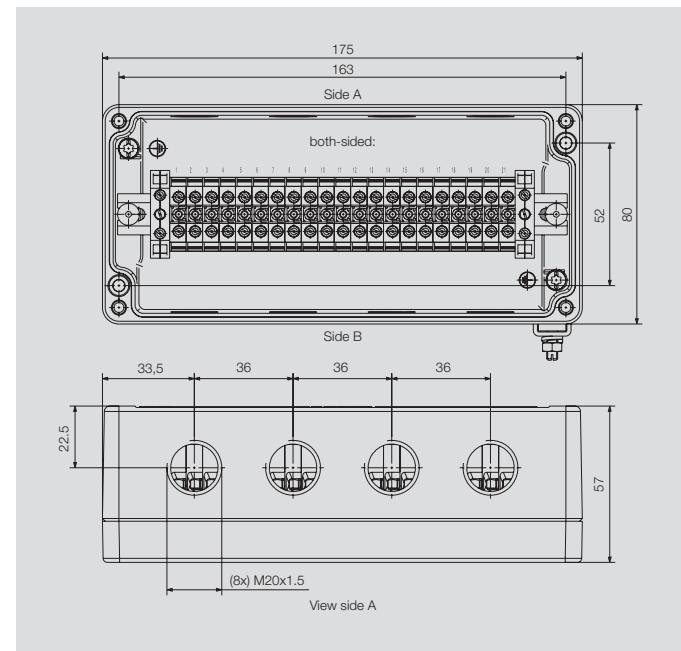
## Terminal block, suitable for empty enclosure

Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
AKZ 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	21	2	8000004137
ZDUA 2.5-2	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> 0.5...2.5 mm <sup>2</sup> / 0.5...1.5 mm <sup>2</sup>	24	2	8000004136

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	21	2	8000004215
4 x M20x1.5	4 x M20x1.5	24	2	8000004214

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals

## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 164 Klippon K31 CSS	164 mm	1910040000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® K4

Depth 72 mm



Height/Width/Depth

82 / 130 / 72 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529190000
Standard (silicone seal)**	1937890000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0342300000
Standard (silicone seal)**	1939630000
Ex enclosure (silicone seal)	9526910000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M20x1.5	2 x M20x1.5	8000004155

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

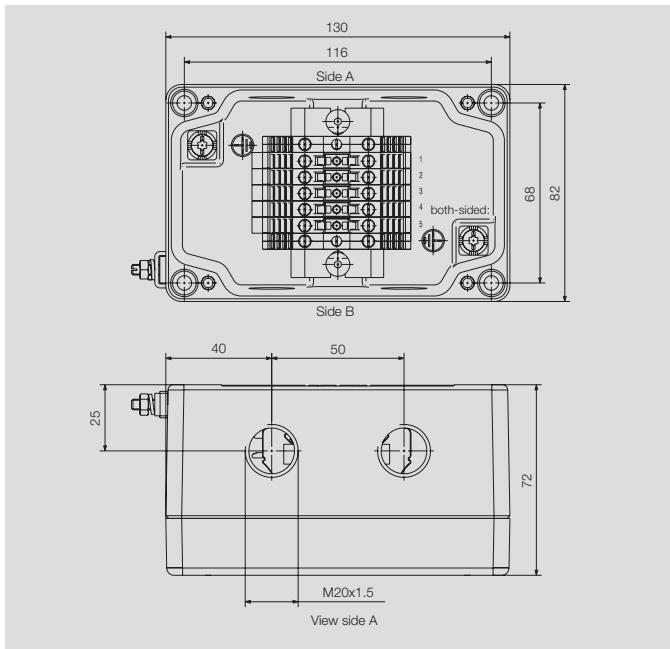
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDU 4-2/3AN	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	4	1	8000004139
WDU 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...6 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	5	2	8000004138

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M20x1.5	2 x M20x1.5	5	2	8000004216
2 x M20x1.5	2 x M20x1.5	4	1	8000004217

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35 64 Klippon K4K11	64 mm	1910060000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Aluminium enclosures

## Klippon® K41

Depth 81 mm



Height/Width/Depth

120 / 122 / 81 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529200000
Standard (silicone seal)**	1937800000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	1565270000
Standard (silicone seal)**	1939640000
Ex enclosure (silicone seal)	9526920000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M25x1.5	2 x M25x1.5	8000003446
3 x M20x1.5	3 x M20x1.5	8000003447

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

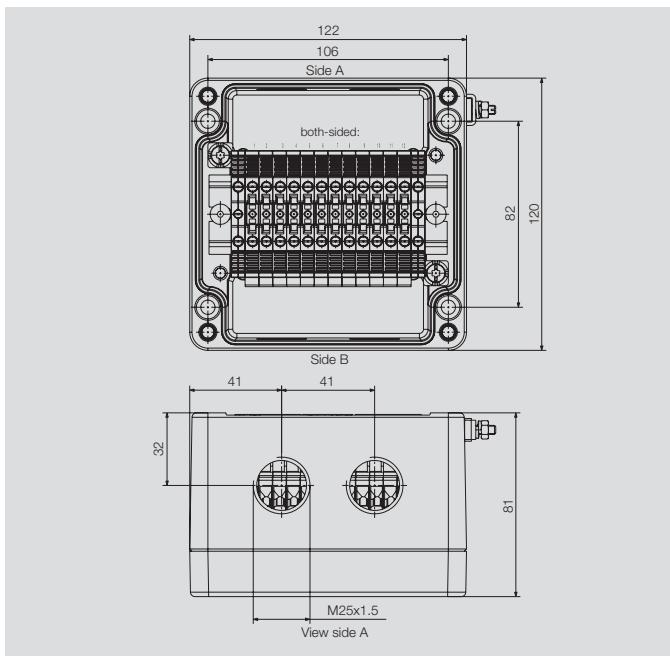
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDU 4-2/3AN	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	9	2	8000003445
WDU 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...6 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	12	2	8000003444

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
3 x M20x1.5	3 x M20x1.5	12	2	8000003591
3 x M20x1.5	3 x M20x1.5	9	2	8000003592
2 x M25x1.5	2 x M25x1.5	12	2	8000003589
2 x M25x1.5	2 x M25x1.5	9	2	8000003590

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
VG M25-EXE MS	1737230000
VG M25-EXE SW	1737300000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
VP M25-EXE MS	1737160000
VP M25-EXE SW	1737090000
Adapters	
ADAP EX M25-M16	1737550000
ADAP EX M25-M20	1737710000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35 105 Klippon K41/POK4	105 mm	1910070000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® K5

Depth 90 mm



Height/Width/Depth

130 / 170 / 90 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529210000
Standard (silicone seal)**	1937860000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	0342400000
Standard (silicone seal)**	1939650000
Ex enclosure (silicone seal)	9526930000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004158

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

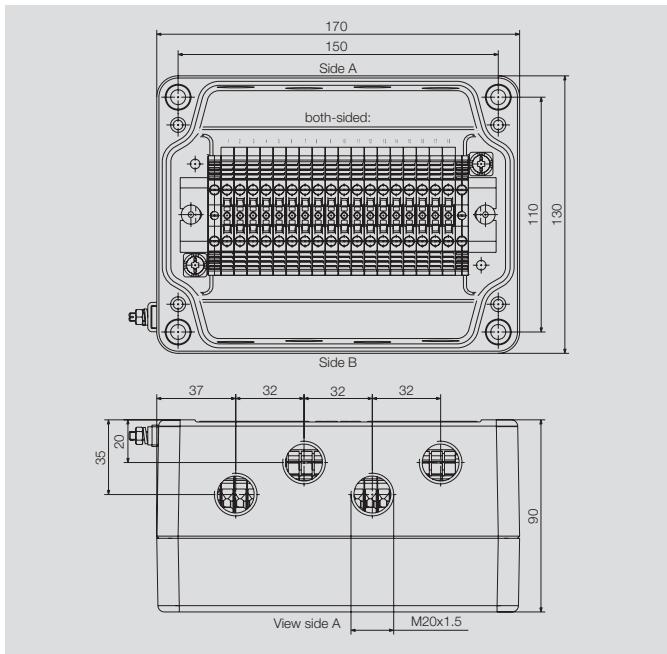
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDU 4-2/3AN	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	15	2	8000004141
WDU 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...6 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	17	2	8000004140

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	17	2	8000004218
4 x M20x1.5	4 x M20x1.5	15	2	8000004219

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35/148 KLIPPON K5 CSS	148 mm	1910080000

**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Aluminium enclosures

## Klippon® K52

Depth 91 mm



Height/Width/Depth

160 / 160 / 91 mm

## Standard empty enclosure

Powder-coated (RAL 7001)	Order No.
Standard (CR seal)	9529230000
Standard (silicone seal)**	1937740000
<b>Natural finish (unpainted)</b>	
Standard (CR seal)	1565290000
Standard (silicone seal)**	1939670000
Ex enclosure (silicone seal)	9526950000

**Note** The colours of painted enclosures may vary under certain circumstances.  
\*\*Delivery time available on request.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004159

**Note** All enclosures are natural finish (unpainted).

## Terminal block, suitable for empty enclosure

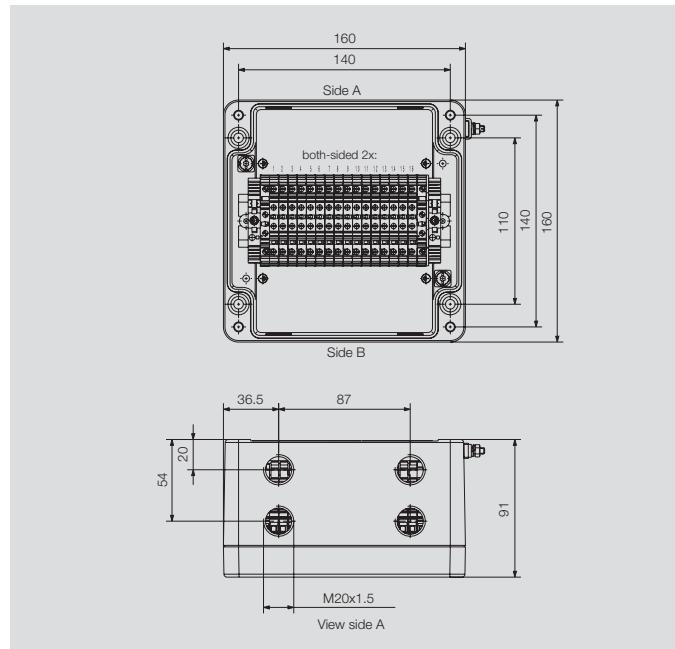
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDK 2.5	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...2.5 mm <sup>2</sup> 0.5...2.5 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	19	2	8000004143
WDK 4N	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	16	2	8000004142

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	16	2	8000004220
4 x M20x1.5	4 x M20x1.5	19	2	8000004221

**Note** All enclosures are equipped with an external earth stud connection.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue. Wall-mounting options can be found in Chapter B under Klippon® K

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35/140 Klippon K52 POK51	140 mm	1910100000



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® POK1

Depth 56 mm



Height/Width/Depth

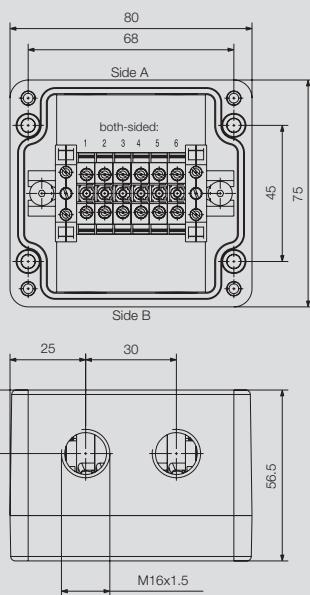
75 / 80 / 56 mm

## Standard empty enclosure

RAL 7001	Order No.
Standard	1277200000
RAL 9011	

Enclosure for hazardous areas (Ex) 9510210000

**Note** The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.



## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M16x1.5	2 x M16x1.5	8000004160

**Note** Enclosures are delivered in RAL 7001.

## Accessories

Cable glands	Order No.
VG M16-EXE MS	1737210000
VG M16-EXE SW	1737280000
Stopping plugs	
VP M16-EXE MS	1737140000
VP M16-EXE SW	1737070000

## Terminal block, suitable for empty enclosure

Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 4/E	Screw connection	Solid / stranded Flexible / flexible with wire-end ferrule	0.5...4 mm² / 1.5...4 mm² 0.5...4 mm² / 0.5...4 mm²	4	0	8000004365
AKZ 4	Screw connection	Solid / stranded Flexible / flexible with wire-end ferrule	0.5...6 mm² / 1.5...4 mm² 0.5...4 mm² / 0.5...2.5 mm²	6	2	8000004144

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M16x1.5	2 x M16x1.5	6	2	8000004223
2 x M16x1.5	2 x M16x1.5	4	0	8000004222

**Note** Enclosures are delivered in RAL 9011.  
\*DU = feed-through terminals, PE = PE terminals

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 68 Klippon POK1 CSS	68 mm	1928060000



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® - Polyester enclosures

## Klippon® POK2



Height/Width/Depth 75 / 110 / 56 mm

## Standard empty enclosure

RAL 7001	Order No.
	Standard 1277300000
RAL 9011	Enclosure for hazardous areas (Ex) 9510220000

**Note** The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
2 x M20x1.5	2 x M20x1.5	8000004161

**Note** Enclosures are delivered in RAL 7001.

## Terminal block, suitable for empty enclosure

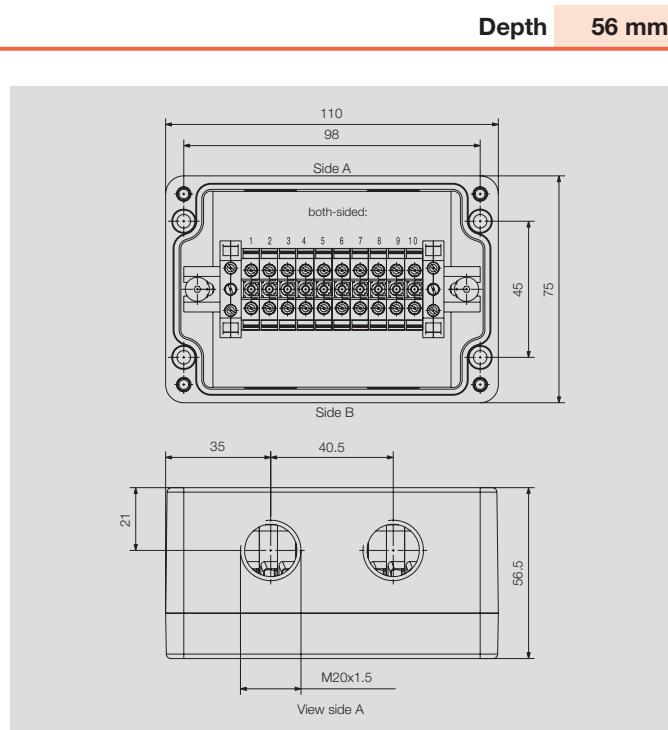
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 6/E	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	6	0	8000004366
AKZ 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...4 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	10	2	8000004145

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M20x1.5	2 x M20x1.5	10	2	8000004225
2 x M20x1.5	2 x M20x1.5	6	0	8000004224

**Note** Enclosures are delivered in RAL 9011.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue.  
Wall-mounted holders can be found in Chapter B under Klippon® POK.

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 98 Klippon POK2 CSS	98 mm	1928070000



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® POK3

Depth 56 mm



Height/Width/Depth

75 / 160 / 56 mm

## Standard empty enclosure

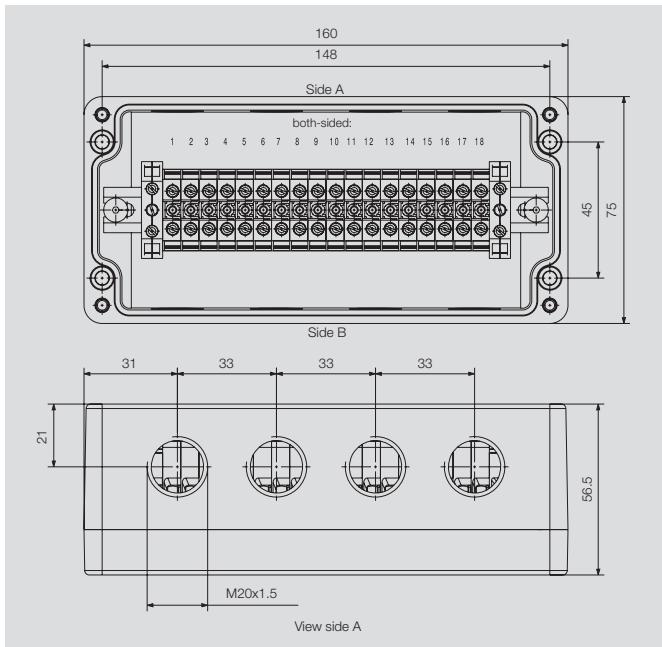
RAL 7001	Order No.
	Standard 1277400000
RAL 9011	Enclosure for hazardous areas (Ex) 9510320000

**Note** The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004162

**Note** Enclosures are delivered in RAL 7001.



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

## Terminal block, suitable for empty enclosure

Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
BK 12/E	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...4 mm² / 1.5...4 mm² 0.5...4 mm² / 0.5...4 mm²	12	0	8000004367
AKZ 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm² / 1.5...4 mm² 0.5...4 mm² / 0.5...2.5 mm²	18	2	8000004146

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	18	2	8000004228
4 x M20x1.5	4 x M20x1.5	12	0	8000004226

**Note** Enclosures are delivered in RAL 9011.  
\*DU = feed-through terminals, PE = PE terminals

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS15 147 Klippon POK3 CSS	147 mm	1928080000



**Note** Supplied with mounting screws for the mounting rail or mounting plate

## Klippon® POK4

Depth 91 mm



Height/Width/Depth

120 / 122 / 91 mm

## Standard empty enclosure

RAL 7001	Order No.
	Standard 1277500000
RAL 9011	

Enclosure for hazardous areas (Ex) 9510230000

**Note** The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
3 x M20x1.5	3 x M20x1.5	8000003448

**Note** Enclosures are delivered in RAL 7001.

## Terminal block, suitable for empty enclosure

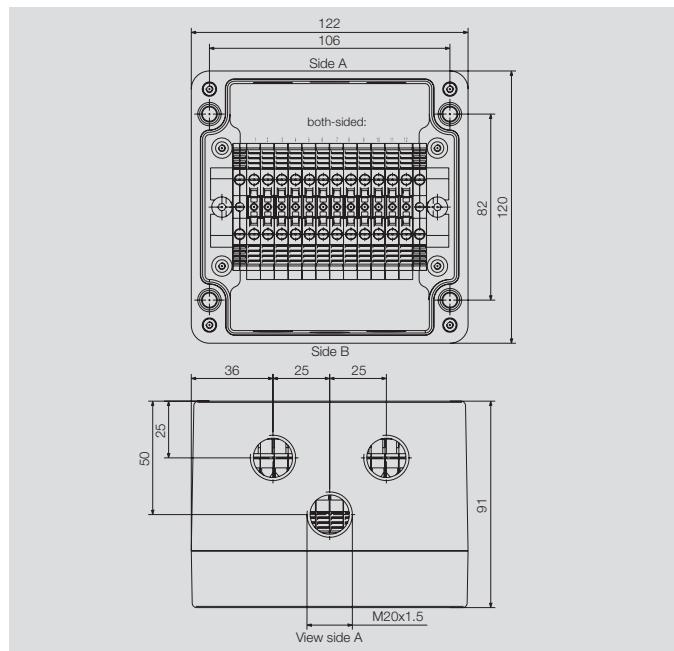
Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDU 4-2/3AN	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	9	2	8000003445
WDU 4	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...6 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	12	2	8000003444

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
3 x M20x1.5	3 x M20x1.5	12	2	8000003593
3 x M20x1.5	3 x M20x1.5	9	2	8000003594

**Note** Enclosures are delivered in RAL 9011.  
\*DU = feed-through terminals, PE = PE terminals



## Accessories

Cable glands	Order No.
VG M20-EXE MS	1737220000
VG M20-EXE SW	1737290000
Stopping plugs	
VP M20-EXE MS	1737150000
VP M20-EXE SW	1737080000
Adapters	
ADAP EX M20-M16	1737560000

**Note** You can find markers and labels in the Terminal Block Catalogue.  
Wall-mounted holders can be found in Chapter B under Klippon® POK.

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35 105 Klippon K41/POK4	105 mm	1910070000



## Klippon® POK51

Depth 90 mm



Height/Width/Depth

160 / 160 / 90 mm

## Standard empty enclosure

RAL 7001	Order No.
Standard	1565410000
RAL 9011	

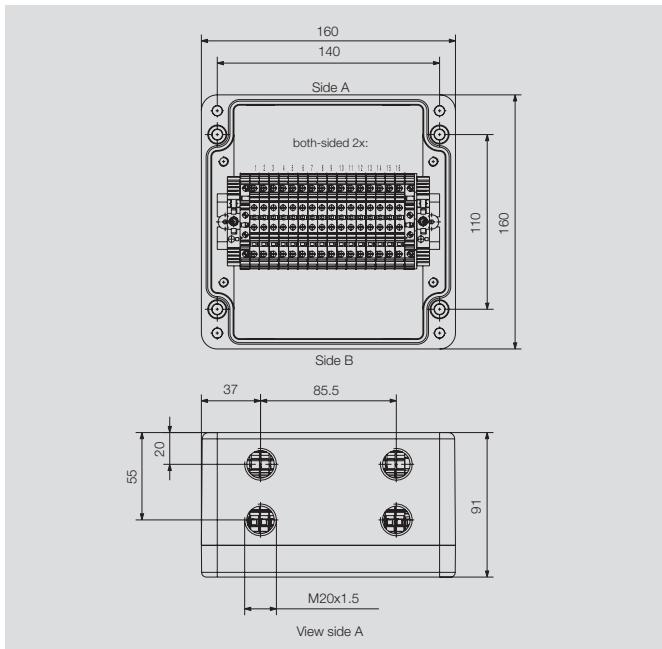
Enclosure for hazardous areas (Ex) 9510250000

**Note** The overview page lists the ambient temperatures. The colours of painted enclosures may vary under certain circumstances.

## Empty enclosure with tapped holes

Drill holes side A	Drill holes side B	Order No.
4 x M20x1.5	4 x M20x1.5	8000004164

**Note** Enclosures are delivered in RAL 7001. Space for further holes up to M40 is available.



## Terminal block, suitable for empty enclosure

Type	Type of connection	Clampable conductor	Rated cross-section	No. of DU*	No. of PE*	Order No.
ZDK 2.5	Tension clamp connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...2.5 mm <sup>2</sup> /ww 0.5...2.5 mm <sup>2</sup> / 0.5...2.5 mm <sup>2</sup>	19	2	8000004143
WDK 4N	Screw connection	Solid / stranded flexible / flexible with wire-end ferrule	0.5...6 mm <sup>2</sup> / 1.5...6 mm <sup>2</sup> 0.5...4 mm <sup>2</sup> / 0.5...4 mm <sup>2</sup>	16	2	8000004142

**Note** Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.  
\*DU = feed-through terminals, PE = PE terminals

## Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	16	2	8000004229
4 x M20x1.5	4 x M20x1.5	19	2	8000004230

**Note** Enclosures are delivered in RAL 9011.  
\*DU = feed-through terminals, PE = PE terminals

## Terminal rail / mounting plate set

Product type	Type	Length	Order No.
Mounting rail	TS35/140 Klippon K52 POK51	140 mm	1910100000

**Note** Supplied with mounting screws for the mounting rail or mounting plate



# FieldPower®

## FieldPower®

Factory automation	F.2
Building automation	F.4
FieldPower® Control/DC network	F.6
FieldPower® Control	F.7
Accessories	F.12
Help with project planning	F.16

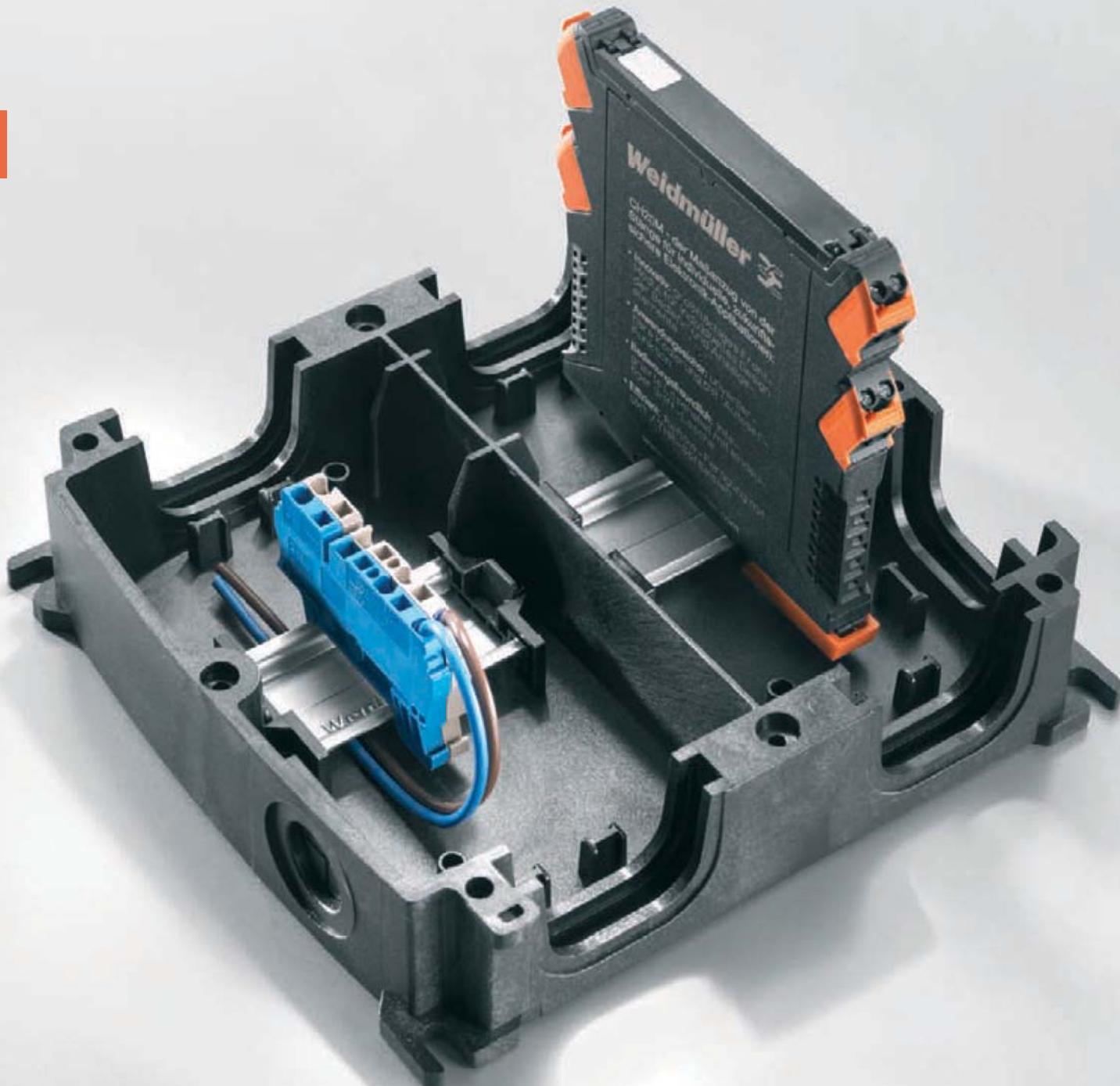
# FieldPower® Control

## Decentralised functional box on the power bus

FieldPower® Control features decentralised and modular functional components in IP65, using the ideal connection technology for AC and DC power supplies. The FieldPower® power distributor can function as a decentralised switch box by adding terminals, electronics housings and switching and protective units. Many parts of factory automation can thus be

decentralised using an arrangement of application specific modules. Simple project planning, quick installation, speedy assembly and good extensibility: these are just some of the advantages that FieldPower® Control provides for users.

F





### Modular components

FieldPower® terminals or a mounting rail can be placed as needed in the lower section in order to fit the needs of the individual application. Retractable IP65 seals allow pluggable cables to be inserted quickly. Either a flat or raised cover can be used depending on the requirements.



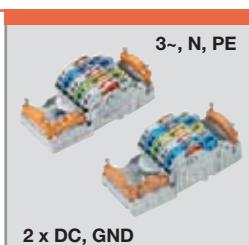
### Housing grouped together

If multiple housings are required, these can be aligned directly adjacent to each other. A seal connecting the two adjacent housings is sufficient in this case to provide IP54 protection. No line sheathing is required there. This saves time since the line needs to be stripped only once for the entire housing group.



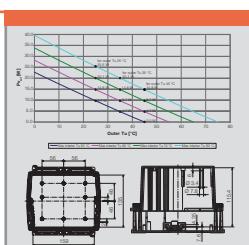
### Variable fastening mechanisms

The mounting rail provides 54 mm of installation width and can be used at two heights. This creates space for wires under the mounting rail. Mounting plates or circuit boards can easily be attached to the cover.



### Expanded voltage and current ranges

A variety of applications can be implemented with the help of the FieldPower® Terminals in the AC and DC versions up to 800 V/41 A.



### Help with project planning

Simple thermal layout using dimensioned drawings is possible (see page F.16) and by specifying the built-in power loss and optimal exploitation of available space.

### Application specific solutions

Weidmüller offers not only individual components but also complete, custom-fit functional units.



Such units include switching devices, electronic components, terminal strips, connecting plugs, hinged lids and heat sinks.

Weidmüller can also customise the internal wiring and the assembly of the connecting cables to fit customer needs.



Please send requests to KSL@weidmueller.de

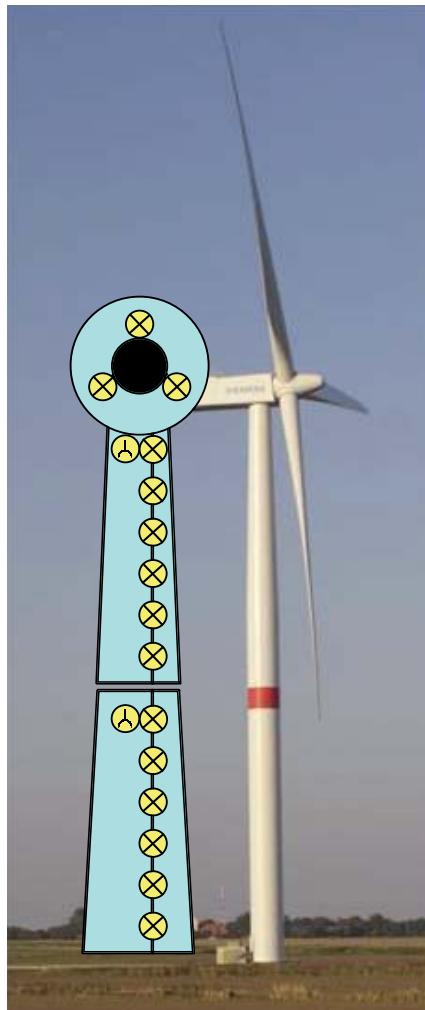
# FieldPower® Control

## Wind power and FieldPower® Box – partners that fit

The FieldPower® Box is a perfect fit for use in wind power installations. The FP Box is a sturdy and easy-to-service solution for power distribution; as such it is an ideal match for the requirements of wind power.

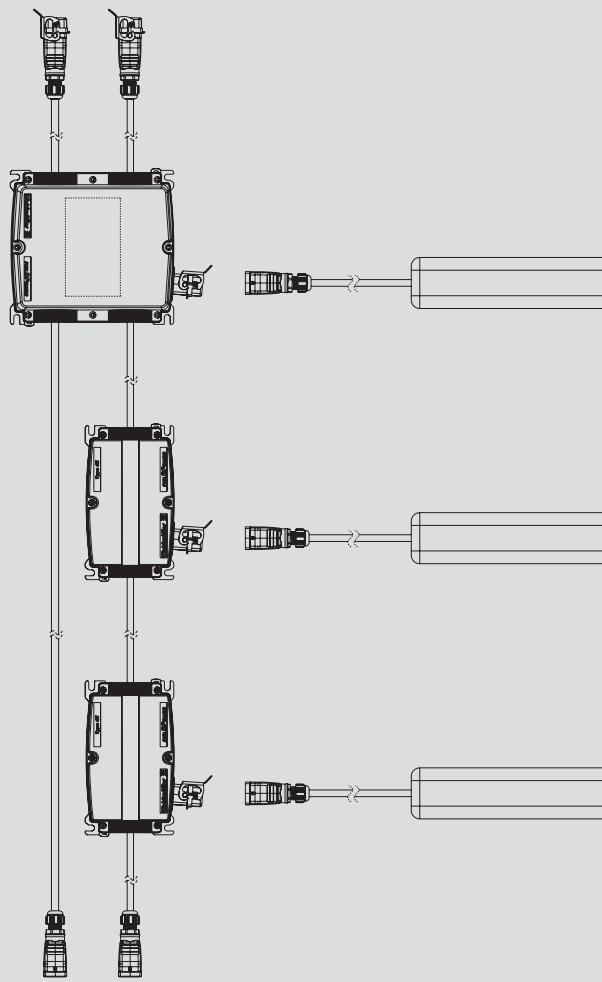
Wind turbine towers are equipped with regularly spaced outlets and lighting to facilitate maintenance work. Power generated directly at the top of the tower must then be distributed under harsh environmental conditions. The FieldPower® Box features IP65 protection and is perfectly suited for this task.

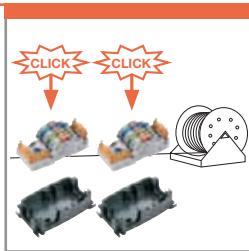
The FieldPower® Box is a particularly affordable solution for wind power facilities since it enables the entire electrical installation to be prepared ahead of time at the factory. An electrical expert is no longer needed at the construction site. The installable modules for the individual tower segments are easily put



together on site. In the same manner, pre-assembled and pre-tested connectors are used for connecting the outlets and lighting. This quick installation process is practically fault-proof and can be undertaken regardless of the ambient temperature. Later extensions – including additional branch lines – are just as simple to execute as the original installation.

Additional service functions are being added to the FieldPower® Box by our continually expanding product line. Customised applications can take advantage of the FieldPower® Control decentralised installation box. With this versatile installation platform, the outlet connection can be integrated directly into the power bus.





### Installation at different locations

Installation processes optimised for local conditions.

A winning strategy:

- Tower segments are delivered with installed lower shells.
- Cable segments are pre-assembled at the factory for a custom fit.
- The cable segments are unrolled at the construction site and the contact elements are then snapped into the lower shells.
- The electrical installation units are protected from vandalism during shipment. They can then be installed regardless of the temperature.



### Connecting tower segments

The segments can be connected in several different ways:

- An HDC connector in the cable lead
- The FieldPower® PTS 4 plug on the lower segment is inserted in the FieldPower® Box on the next segment.
- The FieldPower® Terminal is snapped into the top FieldPower® Box on the next segment and swivelled in to establish contact.

Since the voltage is supplied from below during construction and from above when operational, the last installation option is advisable. The fixed wiring ensures that all of the power supply installation is secure.

### Application specific solutions

Weidmüller offers not only individual components but also complete, custom-fit functional units. This includes outlets with FieldPower® housings and complete cable segments.



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Please send requests to KSL@weidmueller.de

### Advantages

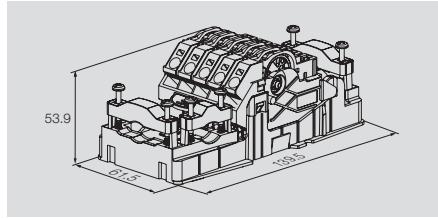
- Suitable for conventional round cables from 2.5 to 6 mm<sup>2</sup>
- Reduces installation time and installation errors
- Electricians are no longer required at the construction site
- Factory-assembled cable connections
- Improved versatility, handling and extensibility
- Can be used around the world

## FieldPower® Control/DC network

### PowerTerminal for AC/DC applications

Contact element for power distribution using uncut wires with cross-sections from 2.5 to 6 mm<sup>2</sup>. Feed-in / T-branch tap via PUSH IN connection (0.75 to 10 mm<sup>2</sup>) and/or plug-in connection (0.5 to 4 mm<sup>2</sup>). Clear wire mapping with DC labelling and coded on PE pole.

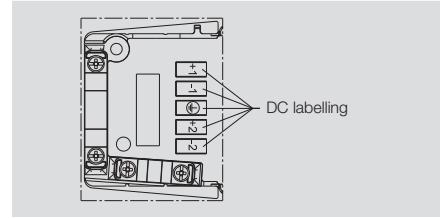
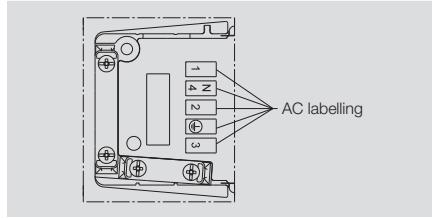
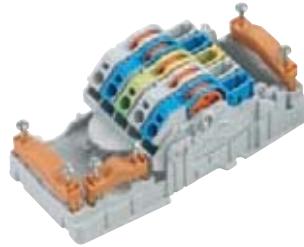
- Power supply
- Power distribution
- Power branching



### PT6 for AC applications



### PT6 DC for DC applications



### Technical data

#### Rated data according to IEC 60947-7-1

Rated cross section  
Rated voltage / Rated current  
Rated impulse voltage

#### General data

Insulation material/material colour  
UL 94 flammability rating  
free from halogens/Silicone-free  
Ingress protection class  
Assembly temperature range, min. – max.  
Operating temperature, min.-max.  
Can be coded

#### IDC connection clamping capacity - power cable

solid, min.-max.  
stranded, min.-max.  
flexible, min.-max.  
flexible, min.-max.  
Blade size

#### PUSH IN connection clamping capacity - distribution

solid, min.-max.  
stranded, min.-max.  
flexible, min.-max.  
flexible, wire end ferrule 8 mm, DIN 46228/1, min.-max.  
flexible, wire end ferrule 8 mm, DIN 46228/4, min.-max.  
flexible, wire end ferrule 12 mm, DIN 46228/1, min.-max.  
flexible, wire end ferrule 12 mm, DIN 46228/4, min.-max.  
flexible, min.-max.

Stripping length / Blade size

#### Rated data according to UL

Standard  
Rated voltage / Rated current  
AWG conductor (field wiring) min./max.  
Note

6 mm<sup>2</sup>  
800 V / 41 A  
8 kV

PA/grey  
V0  
Yes/Yes  
IP 20  
10 °C ... 40 °C  
-40 °C ... 55 °C  
Yes/Coded on PE

1.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>

0.6 x 3.5 mm  
1.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...10 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
14 mm / 0.6 x 3.5 mm

UL 1059  
600 V/30 A  
14 /10  
For use with UL-listed TC-ER cables

6 mm<sup>2</sup>  
800 V / 41 A  
8 kV

PA/grey  
V0  
Yes/Yes  
IP 20  
10 °C ... 40 °C  
-40 °C ... 55 °C  
Yes/Coded on PE

1.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
2.5 mm<sup>2</sup>...6 mm<sup>2</sup>

0.6 x 3.5 mm  
0.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...10 mm<sup>2</sup>  
0.5 mm<sup>2</sup>...6 mm<sup>2</sup>  
14 mm / 0.6 x 3.5 mm

UL 1059  
600 V/30 A  
14 /10  
For use with UL-listed TC-ER cables

#### Note

UL approval is pending.

#### Ordering data

Type	Qty.	Order No.
PT6	1	1957620000

Type	Qty.	Order No.
PT6 DC	1	1126840000

#### Note

Plug-in connector PTS 4 1952120000

Plug-in connector PTS 4 DC 1131730000

#### Accessories

#### Note

Plug-in connector PTS 4 1952120000

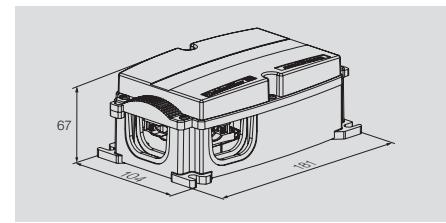
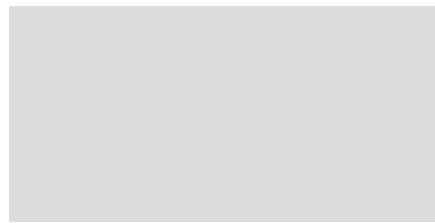
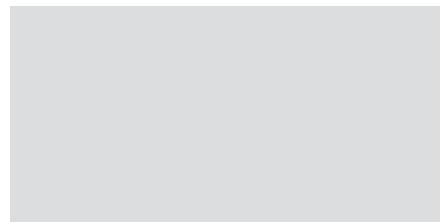
Plug-in connector PTDS 4 DC 1009990000

**FieldPower® Control housing**

The housings can be assembled in the course of the mechanical work.

The PT6... contact unit is simply snapped on with or without power bus.

Optionally, the „TS 35 PT6“ mounting rail module can be used.

**GH PT6****BG GHDE PT6****Technical data**

Insulating material

Material colour

UL 94 flammability class

Halogen-free / Silicone-free

Degree of protection when closed

Temperature range

Cover attachment

Housing attachment

PC GF 10

black

5VA

Yes / Yes

IP65

-40 °C ... 55 °C

Screws

Mounting tabs

PC GF 10

black

5VA

Yes / Yes

IP65

-40 °C ... 55 °C

Screws

F

**Note****Ordering data**

Type	Qty.	Order No.
GH PT6	10	1070140000

Type	Qty.	Order No.
BG GHDE PT6	10	1068890000

**Note****Accessories****Note**

Type	Qty.	Order No.
TS 35 PT6	10	1170690000

Usable width of 54 mm,  
can be installed in 1070140000, 1121980000, 1121990000

**FieldPower® Control housing**

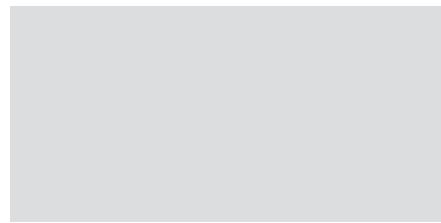
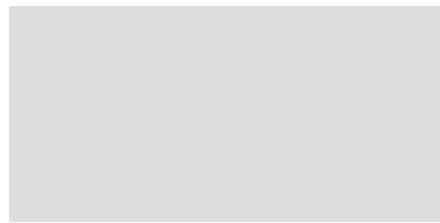
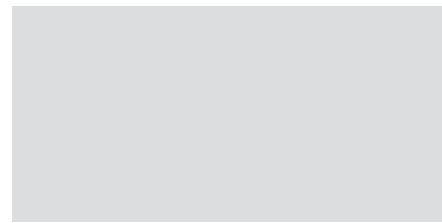
The housings can be assembled in the course of the mechanical work.

The PT6... contact unit is simply snapped on with or without power bus.

Optionally, the „TS 35 PT6“ mounting rail module can be used.

**GH 10P PT6****BG GH 10P 4XVG PT6**

With 4 additional M20 cable glands

**Technical data**

F

Insulating material
Material colour
UL 94 flammability class
Halogen-free / Silicone-free
Degree of protection when closed
Temperature range
Cover attachment
Housing attachment

PC GF 10
black
5VA
Yes / Yes
IP65
-40 °C ... 55 °C
Screws
Mounting tabs

PC GF 10
black
5VA
Yes / Yes
IP65
-40 °C ... 55 °C
Screws
Mounting tabs

**Note**

Clamping range of the cable glands 6–12 mm

**Ordering data**

Type	Qty.	Order No.
GH 10P PT6	10	1121980000

Type	Qty.	Order No.
BG GH 10P 4XVG PT6	10	1121990000

**Note**

Housing cover BG GHDE 10P PT6 1122200000  
Housing cover BG GHDE 10P HO PT6 1121950000

**Accessories****Note**

Type	Qty.	Order No.
TS 35 PT6	10	1170690000

Usable width of 54 mm,  
can be installed in 1070140000, 1121980000, 1121990000

Type	Qty.	Order No.
TS 35 PT6	10	1170690000

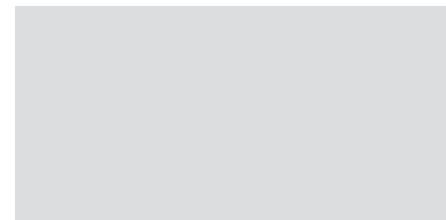
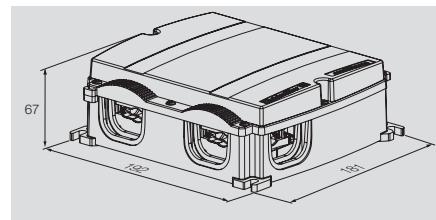
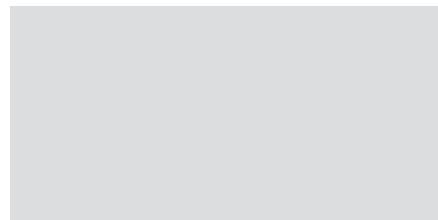
Usable width of 54 mm,  
can be installed in 1070140000, 1121980000, 1121990000

**FieldPower® Control housing**

The housings can be assembled in the course of the mechanical work.

The PT6... contact unit is simply snapped on with or without power bus.

Optionally, the „TS 35 PT6“ mounting rail module can be used.

**BG GHDE 10P PT6****BG GHDE 10P HO PT6****Technical data**

Insulating material
Material colour
UL 94 flammability class
Halogen-free / Silicone-free
Degree of protection when closed
Temperature range
Cover attachment
Housing attachment

PC GF 10
black
5VA
Yes / Yes
IP65
-40 °C ... 55 °C
Screws

PC GF 10
black
5VA
Yes / Yes
IP65
-40 °C ... 55 °C
Screws

F

**Note**

Housing height: 67 mm

Housing height: 164 mm

**Ordering data**

Type	Qty.	Order No.
BG GHDE 10P PT6	10	1122200000

Type	Qty.	Order No.
BG GHDE 10P HO PT6	10	1121950000

**Note**

Housing base section GH 10P PT6 1121980000  
Housing base section BG GH 10P 4XVG PT6 1121990000

Housing base section GH 10P PT6 1121980000  
Housing base section BG GH 10P 4XVG PT6 1121990000

**Accessories****Note**

**Cover with maintenance switch**

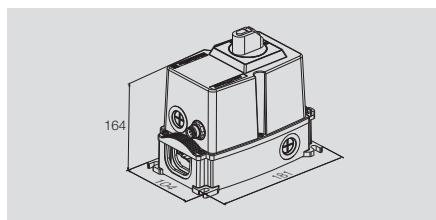
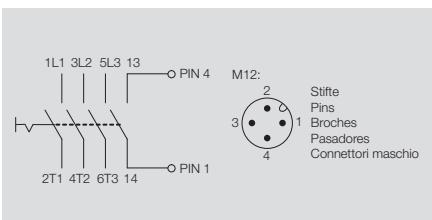
Decentralised maintenance switch (ABB) with on/off function.  
Connects to uncut power cable using a pre-assembled connector.  
Feedback signal for switch position is possible via M12 connection.

**BG GHDE HO SA UL PT6**

for AC applications

**GHDE 10P HO ON/OFF PTS4**

for AC applications

**Technical data****General data**

Insulating material / material colour  
UL 94 flammability class  
Halogen-free / silicone-free  
Protection degree  
Temperature range, assembly, min. max  
Operating temperature, min.-max.  
Can be coded

**Technical specifications switch**

Standard 60947-3  
Switch type/Auxiliary contact  
Pollution degree  
Operating voltage  
Rated current AC-23A  
Power rating AC-23A  
Clamping capacity, min.-max.  
AWG wire size, min.-max.  
Torque for terminal connections

Polycarbonate / black

5VA  
Yes / Yes  
IP 65  
10 °C ... 40 °C  
-40 °C ... 40 °C  
Yes / Coded on PE

IEC 60947-3  
ABB OT16ET3/ABB OA1G10  
3  
440 V  
16 A  
7.5 kW  
0.75 mm<sup>2</sup>...10 mm<sup>2</sup>  
AWG 18 ...AWG 8  
0.8 Nm

Polycarbonate / black

5VA  
Yes / Yes  
IP 65  
10 °C ... 40 °C  
-40 °C ... 40 °C  
Yes / Coded on PE

IEC 60947-3  
ABB OT16ET3/ABB OA1G10  
3  
440 V  
16 A  
7.5 kW  
0.75 mm<sup>2</sup>...10 mm<sup>2</sup>  
AWG 18 ...AWG 8  
0.8 Nm

**Note****Ordering data**

Type	Qty.	Order No.
BG GHDE HO SA UL PT6	1	1113120000

**Note****Accessories****Note**

Bottom section of housing GH PT6 1070140000

Lockable with up to three security locks to protect against accidental power-up.

Type	Qty.	Order No.
GHDE 10P HO ON/OFF PTS4	1	8000005211

Bottom housing section GH 10P PT6 1121980000  
Bottom housing section GH 10P 4XVG PT6 1121990000

Lockable with up to three security locks to protect against accidental power-up.



## Accessories

### Connector for AC applications

Plug-in connector for use by the pluggable output of the contact elements. Individual wires can be connected with PUSH IN method: for cross-sections from 0.5 to 4 mm<sup>2</sup>.

Can be coded and locked, with printing for trouble-free wiring.

Clear wire mapping with coding for PE connections.

### PTS 4

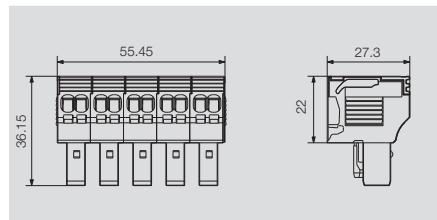
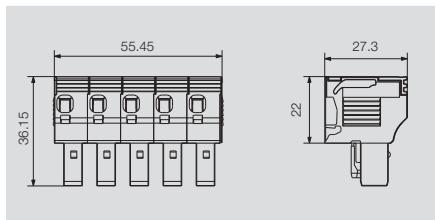
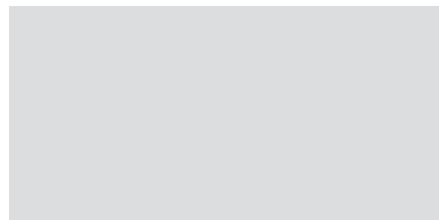
PUSH IN



### PTDS 4

2 connections per pole

PUSH IN



### Technical data

#### Rated data according to IEC 60947-7-1

Rated cross-section

Rated voltage / Rated current

Rated impulse voltage

#### General data

Type of mounting

Insulation material/material colour

UL 94 flammability rating

Continuous operating temp., min.-max.

Outgoing direction of conductor

Test point

Can be coded

Conductor connection system

No. of poles

Number of connections / pole

#### Clamping capacity, Push-In connection

Clamping range, min.-max.

Solid, min.-max.

Stranded, min.-max.

Flexible, min.-max.

Flexible, ferrule, 8 mm, DIN 46228/1, min.-max.

Flexible, ferrule, 8 mm, DIN 46228/4, min.-max.

Flexible, ferrule, 12 mm, DIN 46228/1, min.-max.

Flexible, ferrule, 12 mm, DIN 46228/4, min.-max.

Flexible, min.-max.

Stripping length/Blade size

#### Rated data acc. to UL

Standard

Rated voltage/Rated current

AWG conductor (field wiring), min./max.

4 mm<sup>2</sup>

690 V / 32 A

8 kV

Plugged

PA GF/black

V0

-50 °C ... 120 °C

90°

2 mm

Yes/Coded on PE

PUSH IN

5

1

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

12 mm / 3.0 x 0.5 mm

12 mm / 3.0 x 0.5 mm

UL 1059

600 V/20 A

16 / 12

4 mm<sup>2</sup>

690 V / 32 A

8 kV

Plugged

PA GF/black

V0

-50 °C ... 120 °C

90°

2 mm

Yes/Coded on PE

PUSH IN

5

2

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

12 mm / 3.0 x 0.5 mm

UL 1059

600 V/20 A

16 / 12

### Note

### Ordering data

Type	Qty.	Order No.
PTS 4	10	1952120000

Type	Qty.	Order No.
PTDS 4	10	1952130000

### Note

### Accessories

#### Note

ZVR ZP2.5 locking element 1816130000

ZVR ZP2.5 locking element 1816130000

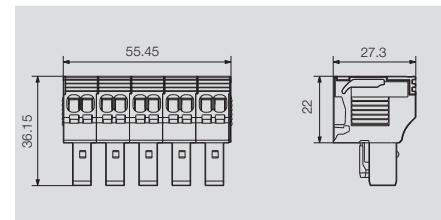
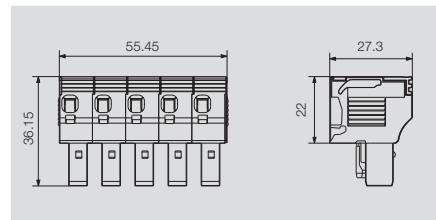
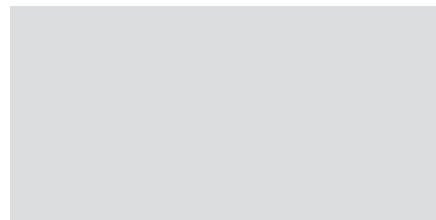
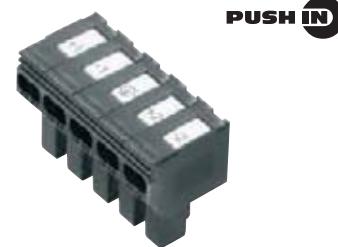
## Plug-in connectors for DC applications

Plug-in connectors for use with the pluggable outlet of the PT6 contact elements. Single-wire PUSH IN connection for wire cross-sections ranging from 0.5 to 4 mm<sup>2</sup>. Can be coded and latched down. Clear wire mapping with DC labelling and coding for PE connections.

### PTS 4 DC



### PTDS 4 DC



## Technical data

### Rated data according to IEC 60947-7-1

Rated cross-section  
Rated voltage / Rated current  
Rated impulse voltage

### General data

Type of mounting  
Insulation material/material colour  
UL 94 flammability rating  
Continuous operating temp., min.-max.  
Outgoing direction of conductor  
Test point  
Can be coded  
Conductor connection system  
No. of poles  
Number of connections / pole

### Clamping capacity, Push-In connection

Clamping range, min.-max.  
Solid, min.-max.  
Stranded, min.-max.  
Flexible, min.-max.  
Flexible, ferrule, 8 mm, DIN 46228/1, min.-max.  
Flexible, ferrule, 8 mm, DIN 46228/4, min.-max.  
Flexible, ferrule, 12 mm, DIN 46228/1, min.-max.  
Flexible, ferrule, 12 mm, DIN 46228/4, min.-max.  
Flexible, min.-max.  
Stripping length/Blade size

### Rated data acc. to UL

Standard  
Rated voltage/Rated current  
AWG conductor (field wiring), min./max.

4 mm<sup>2</sup>  
690 V / 32 A  
8 kV

Plugged  
PA GF/black  
V0  
-50 °C ... 120 °C  
90°  
2 mm  
Yes/Coded on PE  
Push In  
5  
1

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>  
12 mm / 3.0 x 0.5 mm

UL 1059  
600 V/20 A  
16 / 12

4 mm<sup>2</sup>  
690 V / 32 A  
8 kV

Plugged  
PA GF/black  
V0  
-50 °C ... 120 °C  
90°  
2 mm  
Yes/Coded on PE  
Push In  
5  
2

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>  
12 mm / 3.0 x 0.5 mm

UL 1059  
600 V/20 A  
16 / 12

### Note

UL approval is pending.

UL approval is pending.

## Ordering data

Type	Qty.	Order No.
PTS 4 DC	10	1131730000

Type	Qty.	Order No.
PTDS 4 DC	10	1009990000

### Note

ZVR ZP2.5 locking element 1816130000

ZVR ZP2.5 locking element 1816130000

## Accessories

### Note

## Accessories

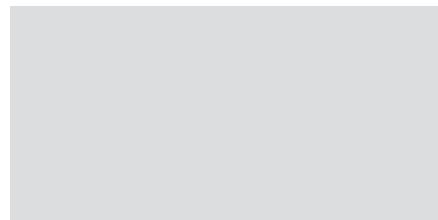
### Fuse plug

Max. power loss for G fuse terminals in accordance with IEC 60947-7-3:

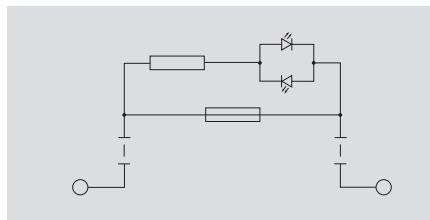
- Overload protection: 1.6 W (overload operation)
- Short-circuit protection: 2 W (rated operation)

Max. power loss per fuse at 23°C Tu.

Do not exceed the max. power loss when selecting fuse cartridges. When a fuse is defective, the subsequent circuit is not voltage free.



### PTSI 4



### Technical data

#### Rated data according to IEC 60947-7-1

Rated cross-section

Rated voltage / Rated current

Rated impulse voltage

#### General data

Cartridge fuse

Outage display

Type of mounting

Insulation material/material colour

UL 94 flammability rating

Continuous operating temp., min.-max.

Outgoing direction of conductor

Test point

Can be coded

Conductor connection system

No. of poles

Number of connections / pole

#### Clamping capacity, Push-In connection

Clamping range, min.-max.

Solid, min.-max.

Stranded, min.-max.

Flexible, min.-max.

Flexible, ferrule, 8 mm, DIN 46228/1, min-max.

Flexible, ferrule, 8 mm, DIN 46228/4, min-max.

Flexible, ferrule, 12 mm, DIN 46228/1, min-max.

Flexible, ferrule, 12 mm, DIN 46228/4, min-max.

Flexible, min.-max.

Stripping length/Blade size

#### Rated data acc. to UL

Standard

Rated voltage/Rated current

AWG conductor (field wiring), min./max.

#### Note

Safety fuse not included in delivery.  
Rated voltage and rated current with fuse are determined by the G-fuse cartridge in use.

### Ordering data

Type	Qty.	Order No.
PTSI 4/LD 400V AC	1	1961770000

#### Note

ZVR ZP2.5 locking element 1816130000

### Accessories

#### Note

### A practical tip:

Space for spare fuses

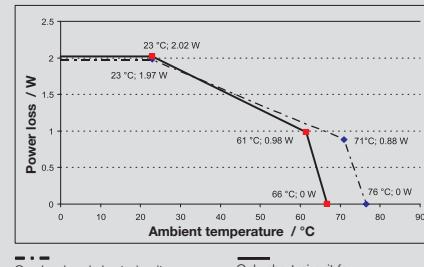


#### Fuses and power loss:

Examples	Current	1.0 A	1.6 A	2.0 A	4 A	6.3 A	8 A	10 A	12.5 A
SIBA, 189140 500 V, 440 V, 250 V T	1.0 x I <sub>N</sub>	0.35 W	0.32 W	0.36 W	0.56 W	0.69 W	0.88 W	1 W	1.25 W
	1.5 x I <sub>N</sub>	0.9 W	1.1 W	1.2 W	1.5 W	2.2 W	2.6 W	3.0 W	3.5 W
SIBA, 7006584 400 V gRL	1.0 x I <sub>N</sub>	-	-	-	-	1.2 W	1.5 W	1.8 W	1.9 W
	1.25 x I <sub>N</sub>	-	-	-	-	2.5 W	3.2 W	3.7 W	3.9 W

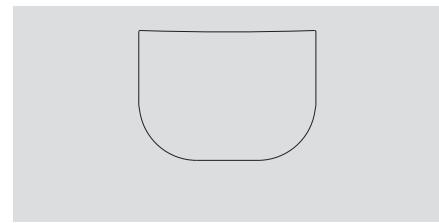
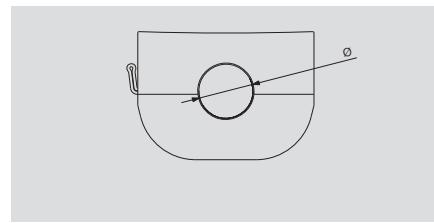
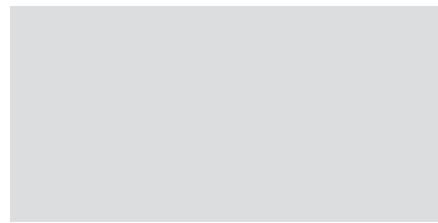
No responsibility is taken for the correctness of this information.  
Further details can be obtained from the fuse manufacturers.

#### Deratings curve according to IEC 60947-7-3



**Seals for FieldPower® Box**

IP65 enclosure seals for the FieldPower® Box modules: made from silicone-free, halogen-free plastic. The seals are slit in the middle to allow for simple installation with uncut power cables.

**Seal for round cable****Blanking seal****Technical data****General data**

Material	EPDM
UL 94 flammability class	HB
Colour	black
Thickness	18 mm
Line type	round
Free from halogens	Yes
Silicone-free	Yes
Ingress protection class	IP 65

Material	EPDM
HB	HB
black	black
18 mm	18 mm
round	round
Yes	Yes
Yes	Yes
IP 65	IP 65

Material	EPDM
HB	HB
black	black
18 mm	18 mm
round	round
Yes	Yes
Yes	Yes
IP 65	IP 65

**Note****Ordering data****Clamping range Ø**

7.5 - 9 mm
9 - 11 mm
11 - 13 mm
13 - 15 mm
15 - 17 mm

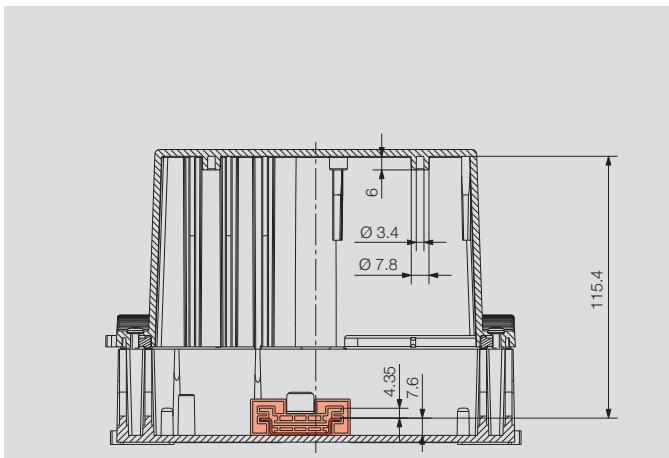
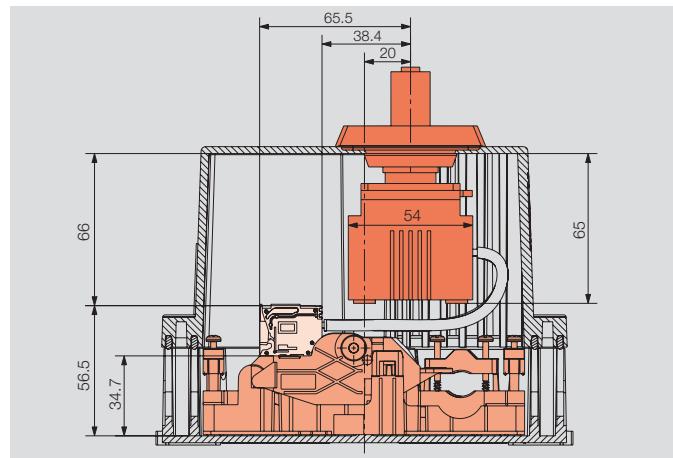
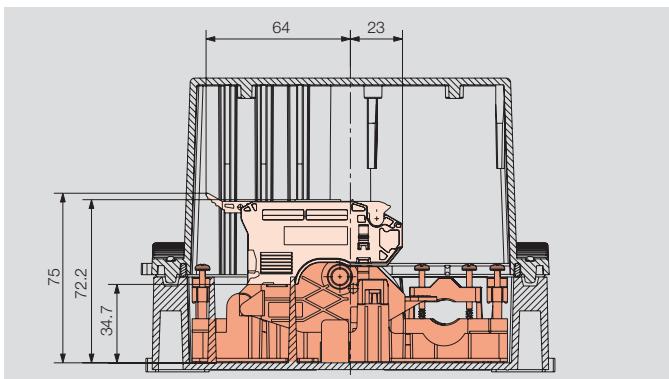
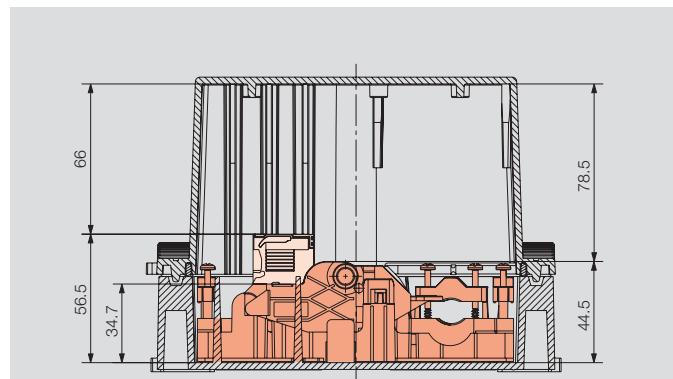
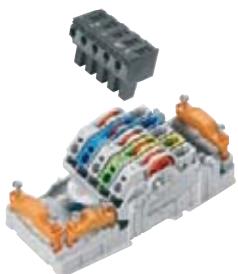
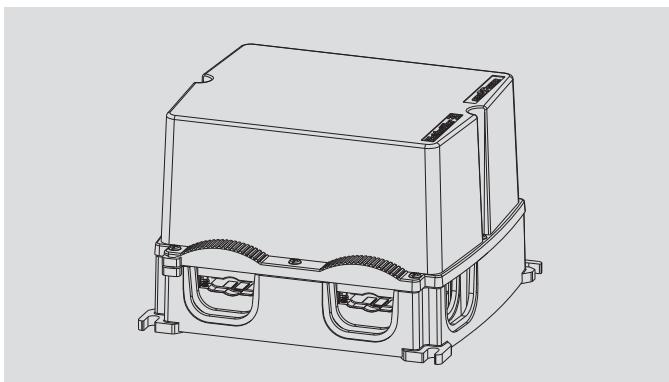
Type	Qty.	Order No.
RKDG D9 PT6	10	4329610000
RKDG D11 PT6	10	4323210000
RKDG D13 PT6	10	4323230000
RKDG D15 PT6	10	4323220000
RKDG D17 PT6	10	4324010000

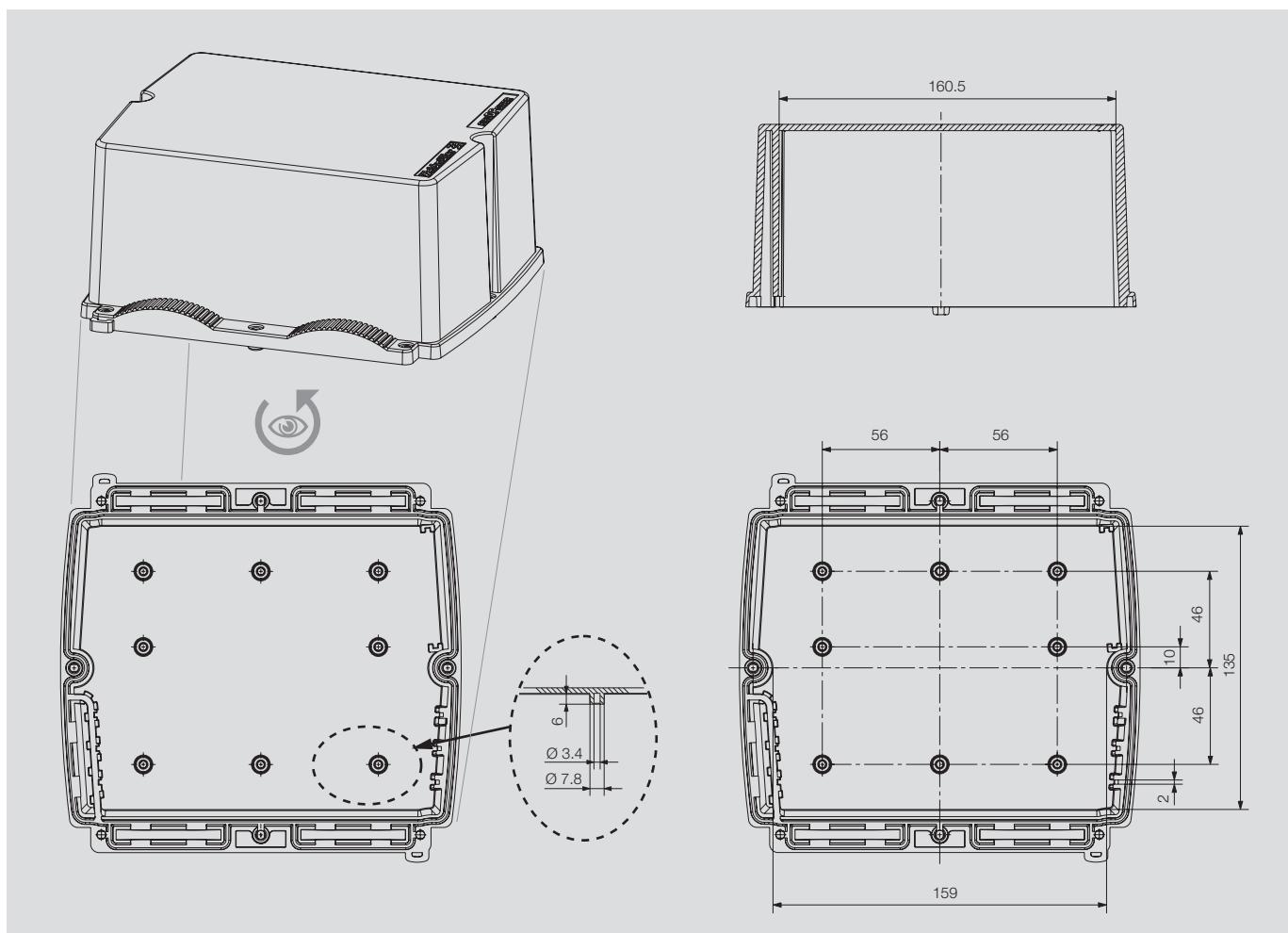
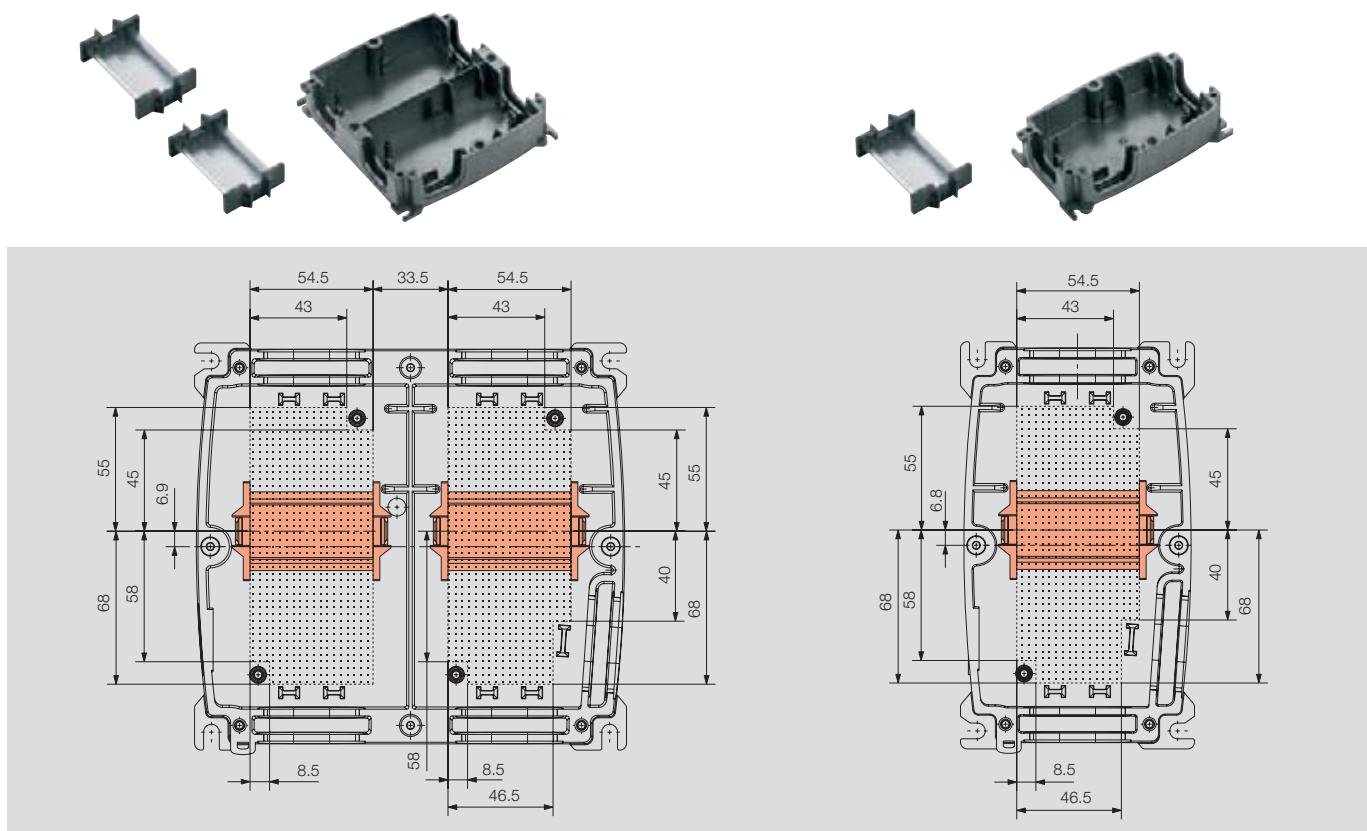
Type	Qty.	Order No.
DG D0 PT6	10	4323240000

**Note****Accessories****Note**

# Help with project planning FieldPower® Control

CAD models can be found in our online catalogue at  
<http://catalog.weidmueller.com>



**F**

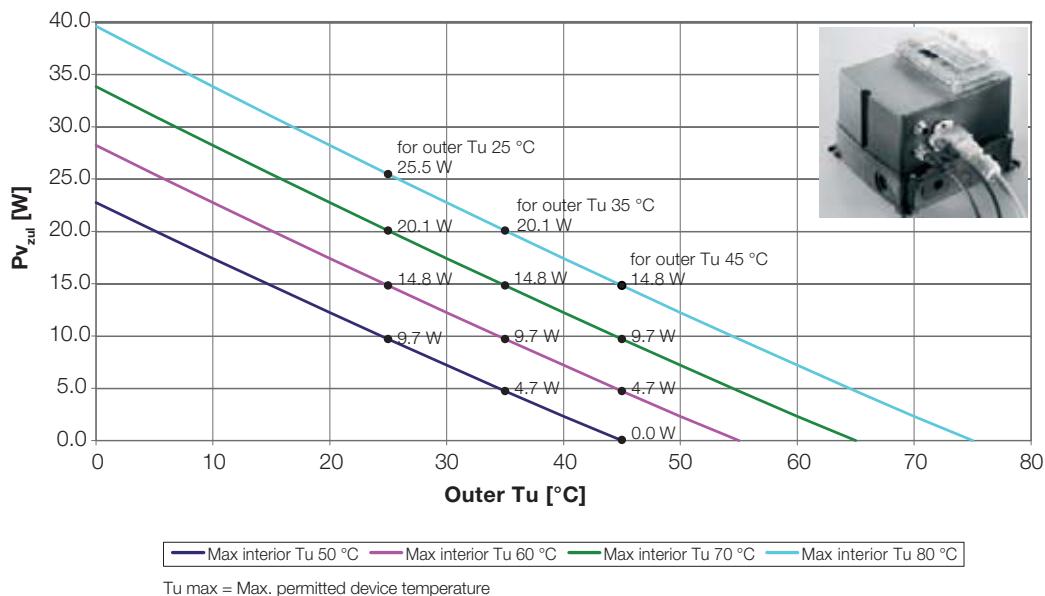
# Help with project planning

## FieldPower® Control

### Built-in power loss

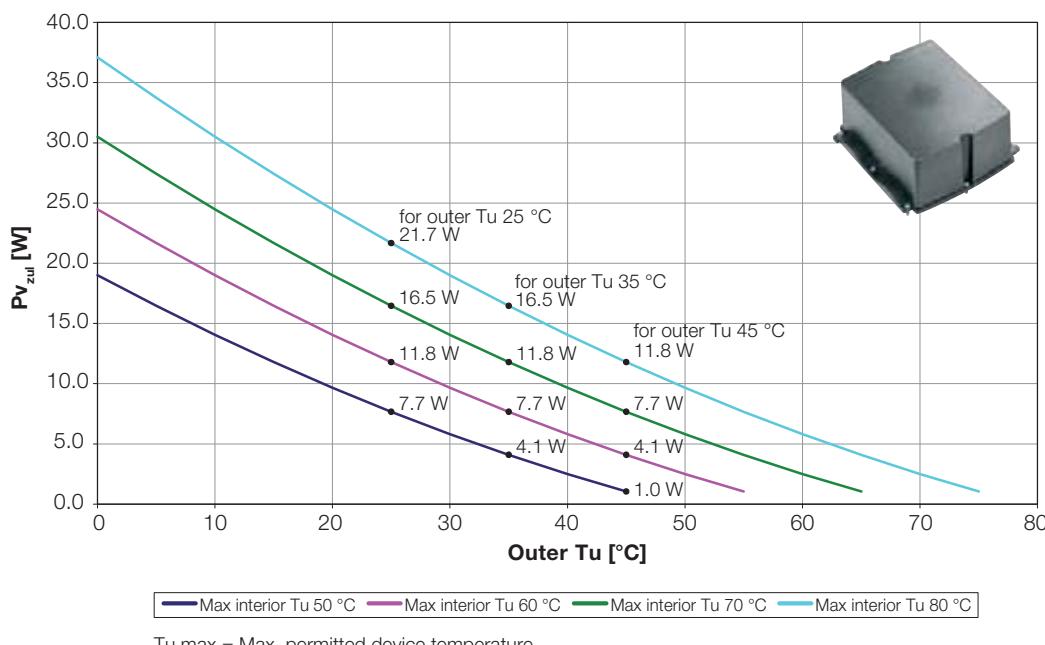
Permitted built-in power loss in relation to the external ambient temperature and the maximum ambient temperature for the components built in to the FieldPower® Box 10P HO **with hinged lid** of type Fibox

**P<sub>vzul</sub>** = Permitted built-in power loss



Permitted built-in power loss in relation to the external ambient temperature and the maximum ambient temperature for the components built in to the FieldPower® Box 10P HO **without hinged lid**

**P<sub>vzul</sub>** = Permitted built-in power loss



# Tools

## Tools

Introduction	G.2
Hole punch	G.4
Screwdrivers	G.8
Torque screwdrivers	G.10
Uninsulated torque screwdriver	G.11
VDE-insulated torque screwdriver	G.12
Cable gland tools	G.13
Screwdrivers	G.14
VDE-insulated screwdriver	G.15
Uninsulated screwdriver	G.17
Weidmüller wrench set	G.19
Pin and electrical cabinet key	G.20

# Tools

Weidmüller's professional tools are the result of an intensive development process that has been specifically focussed on the requirements of their use in practice. It is only possible to develop the perfect tool if you fully understand the applications for which it will be used and you constantly strive to improve this knowledge. Long in-service life and application-oriented functions are equally important to Weidmüller as the creation of the best working conditions. Weidmüller achieves the best prerequisites for this by perfectly matching their products and tools. At Weidmüller, everything fits together. Weidmüller offers a variety of useful tools that will assist you in working safely and precisely and in the best possible way when processing and working with enclosures. Weidmüller offers a large range of screwdrivers, for example, using the DMS Manual range you can always make sure you reach the correct torque for mounting rails, gland plates or lid screws.

G





# Hydraulic hole puncher

The IP protection classes for enclosures, cable glands, heavy-duty connectors and industrial Ethernet connectors can only be maintained under two conditions: the sheet metal must not be bent during the punching process and the size of the punched-out holes must correspond precisely with the specifications. The IE-KO-HAT hydraulic sheet metal hole puncher, together with its accessories, guarantees you the highest quality workmanship available. It ensures that the connector fits precisely with the punched-out holes so that you can fulfill the proper IP protection class requirements.



**G**  
The hydraulic hole puncher punches out precise holes for accommodating metric and PG cable glands.



Automatic centre punching at the drill points when punching out holes for heavy-duty connectors.



Punching out holes for a variety of industrial Ethernet connectors.

The table below lists the round splitting stamps and their corresponding tension screws – for manual use and for use with the hydraulic screws.

Type	Descriptions	Dimension	Order No.	Tension screw $\varnothing \times l$ in mm	Order No.	Hydraulic screw (tension bolt) $\varnothing$ in mm	Order No.
KOS M 16	Round splitting stamp for M16 cable glands	$\varnothing$ 16.2 mm	9204880000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS M 20	Round splitting stamp for M20 cable glands	$\varnothing$ 20.4 mm	9204950000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS M 25	Round splitting stamp for M25 cable glands	$\varnothing$ 25.4 mm	9204900000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS M 32	Round splitting stamp for M32 cable glands	$\varnothing$ 32.5 mm	9204910000	19.0 x 55	9205040000	19	9205010000
KOS M 40	Round splitting stamp for M40 cable glands	$\varnothing$ 40.5 mm	9204920000	19.0 x 75	9204780000	19	9205010000
KOS PG 9	Round splitting stamp for PG9 cable glands	$\varnothing$ 15.2 mm	9204930000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS PG 11	Round splitting stamp for PG11 cable glands	$\varnothing$ 18.6 mm	9204940000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS PG 13	Round splitting stamp for PG13 cable glands	$\varnothing$ 20.4 mm	9204950000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS PG 16	Round splitting stamp for PG16 cable glands	$\varnothing$ 22.5 mm	9204960000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS PG 21	Round splitting stamp for PG21 cable glands	$\varnothing$ 28.3 mm	9204970000	9.5 x 50	9205030000	19 x 9.5	9205000000
KOS PG 29	Round splitting stamp for PG29 cable glands	$\varnothing$ 37.0 mm	9204980000	19.0 x 55	9205040000	19	9205010000
KOS PG 36	Round splitting stamp for PG36 cable glands	$\varnothing$ 47.0 mm	9204990000	19.0 x 75	9204780000	19	9205010000

**Information:** Hydraulic screw included in the IE-KO-HAT set.

Tension screws only used for manual operation.

**Hydraulic hole puncher****IE-KO-HAT**

- Pressure-relief valve protects against overload
- Cylinder head angled 90°
- Angled head, 360° turnable
- Ergonomic handle springs back by itself
- Waste pieces no longer become jammed thanks to the three-way splitting
- Hydraulic punch made from high-strength aluminium (approx. 40 % weight savings)

**Technical data****Maximum steel-sheet punching performance**

Round holes up to	Ø 85 mm
Round holes up to	Ø 64 mm
Square holes up to	68 x 68 mm
Rectangular holes up to	36 x 112 mm

**Tool data**

Length / width / height	mm
Weight	kg
Punching force	kN
Max. operating pressure	bar
Including accessories (contents)	

**IE-KO-HAT**

2.0 mm F = 370 N/mm <sup>2</sup>
3.0 mm F = 370 N/mm <sup>2</sup>
2.0 mm F = 370 N/mm <sup>2</sup>
2.0 mm F = 370 N/mm <sup>2</sup>

290/120/70

1.9

75

650

- 1 hydraulic screw Ø 19.0 mm  
 1 hydraulic screw Ø 19 x 9.5 mm  
 1 HSS pre-drill Ø 10 mm  
 1 spacer nut set (3-part)  
 1 bridge

**Information**

Maximum for stainless-steel-sheet punching performance  
 on request

**Ordering data****Version**

Type	Qty.	Order No.
IE-KO-HAT	1	1966810000

**Information****Accessories**

Type	Qty.	Order No.
KOHS 19 Hydraulic screw	1	9205010000
KOHS 9 5/19 Hydraulic screw	1	9205000000
KOPD 10.0 Pre-drill	1	9205020000

**Information**

Splitting stamp on the next page

**Hole punch****Custom stamp for Industrial Ethernet connections**

Type	Description	Dimensions	Qty.	Order No.
IE-KOK-V1	Custom shape for Bajonet 01 metal	Ø 27 mm x single-sided 25.9 mm	1	1966780000
IE-KOK-V4	Custom shape for Push Pull V04 plastic	Ø 23.2 mm x double-sided 20.2 mm	1	1966790000
IE-KOK-V5	Custom shape for RockStar® V05 metal	22.0 x 22.0 mm	1	9204790000

**Rectangular splitting stamp for heavy-duty connectors**

Type	Description	Dimensions	Size	Qty.	Order No.
KOK 52 x 36	Splitting stamp for 6-pole heavy-duty connectors	52.0 x 36 mm	3	1	9204820000
KOK 65 x 36	Splitting stamp for 10-pole heavy-duty connectors	65.0 x 36 mm	4	1	9204830000
KOK 86 x 36	Splitting stamp for 16-pole heavy-duty connectors	86.0 x 36 mm	6	1	9204850000
KOK 91 x 36	Splitting stamp for 16-pole heavy-duty connectors	91.0 x 36 mm	1	1	9204860000
KOK 112 x 36	Splitting stamp for 24-pole heavy-duty connectors	112.0 x 36 mm	8	1	9204870000

**Rectangular splitting stamp for switches**

Type	Description	Dimensions	Qty.	Order No.
KOK 46 x 46	Rectangular splitting stamp for switches	46.0 x 46.0 mm	1	9204810000
KOK 68 x 68	Rectangular splitting stamp for switches	68.0 x 68.0 mm	1	9204840000

**Round splitting stamp for metric cable glands**

Type	Description	Dimensions	Qty.	Order No.
KOS M 16	Round splitting stamp for M16 cable glands	Ø 16.2 mm	1	9204880000
KOS M 20	Round splitting stamp for M20 cable glands	Ø 20.4 mm	1	9204950000
KOS M 25	Round splitting stamp for M25 cable glands	Ø 25.4 mm	1	9204900000
KOS M 32	Round splitting stamp for M32 cable glands	Ø 32.5 mm	1	9204910000
KOS M 40	Round splitting stamp for M40 cable glands	Ø 40.5 mm	1	9204920000

**Round splitting stamp for high-strength cable glands**

Type	Description	Dimensions	Qty.	Order No.
KOS PG 9	Round splitting stamp for PG9 cable glands	Ø 15.2 mm	1	9204930000
KOS PG 11	Round splitting stamp for PG11 cable glands	Ø 18.6 mm	1	9204940000
KOS PG 13	Round splitting stamp for PG13 cable glands	Ø 20.4 mm	1	9204950000
KOS PG 16	Round splitting stamp for PG16 cable glands	Ø 22.5 mm	1	9204960000
KOS PG 21	Round splitting stamp for PG21 cable glands	Ø 28.3 mm	1	9204970000
KOS PG 29	Round splitting stamp for PG29 cable glands	Ø 37.0 mm	1	9204980000
KOS PG 36	Round splitting stamp for PG36 cable glands	Ø 47.0 mm	1	9204990000

**Tension screw**

Type	Description	Dimensions	Qty.	Order No.
KOBBS	Tension screw	9.5 x 50 mm	1	9205030000
KOBBS	Tension screw	19 x 55 mm	1	9205040000
KOBBS	Tension screw	19 x 75 mm	1	9204780000



# Screwdrivers

Precisely the proper torque! It's indispensable when you require your work to be precise, effective and repeatable: for example when screwing in sensitive or expensive components, during assembly, final testing, or during quality inspection. This is the perfect job for Weidmüller's manual torque screwdriver with the ergonomic grip and the unique interchangeable bit system.

The Weidmüller screwdriver assortment is the perfect solution; it features the ergonomic design and versatility required for demanding professional applications. Weidmüller safeguards your safety, health, comfort and efficiency with our ergonomic design.

In order to establish secure manual screw connections, all Weidmüller screwdrivers and manual torque screwdrivers feature a special handle geometry, slip protection, and a special SoftFinish® zone. These qualities ensure the best handling and ensure electrical safety and hand protection during even the most critical applications.

Weidmüller offers a wide variety of electric screwdrivers, standard bits and innovative quick-change holders, the perfect additions to the manual torque screwdriver. Weidmüller electric screwdrivers are the ideal tool for achieving a high level of repetitive accuracy. This accuracy is made possible by their ergonomic design and standard integrated automatic torque control.

Weidmüller also offers innovative solutions for special applications such as cable glands or the fastening of sensor cables.





Weidmüller can supply a wide range of tools for terminating.

- Bits, bit holder and assortment of bits, 1/4" drive, E6.3
- Torque screwdriver
- IE fastening tool
- Combined terminating and cutting tool "Swifty®"
- Electrical cabinet wrench
- Screwdrivers – VDE insulated and uninsulated
- Socket wrench

G



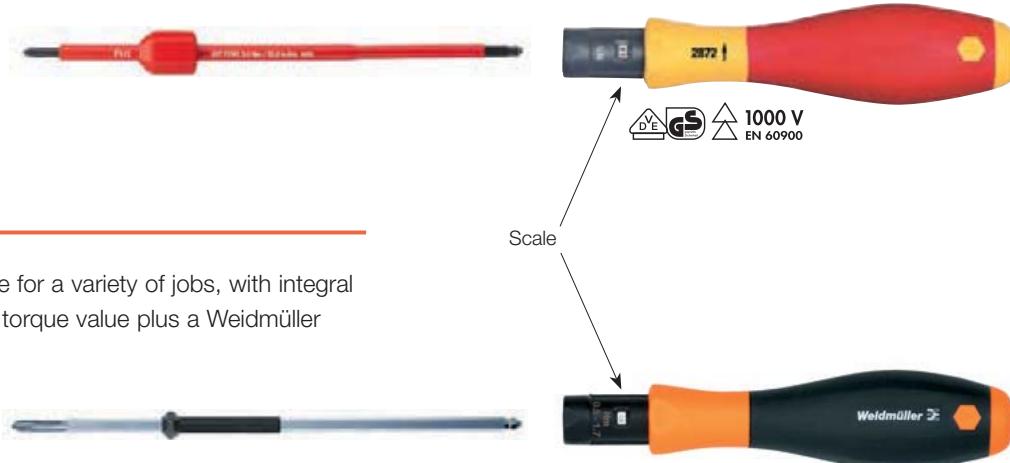
# DMS manual / DMSI manual

## Torque screwdrivers with insulation up to 1.000 V (VDE)

### DMSI manual

The “DMSI manual” with integral window scale combined with a Weidmüller 1.000 V insulated (VDE) interchangeable blade ensures controlled tightening of screws plus reliability in electrical applications.

Every 1.000 V insulated handle (VDE) and blade (VDE) is tested and provides the necessary safety up to 1.000 V AC/1.500 V DC.



### G Torque screwdrivers DMSI manual

This is a versatile tool suitable for a variety of jobs, with integral scale for easy reading of the torque value plus a Weidmüller interchangeable blade.



#### Each model is available with two torque ranges:

- 0.5 to 1.7 Nm
- 2.0 to 8.0 Nm
- setting tool included

#### Advantages:

- Compact and especially lightweight design
- Torque set with special tool (included) to ensure the right setting
- Ergonomic handle size to match the torque range
- Every tool checked and given an ID No., 100 % quality control with verification and product reference
- Audible, unmistakable click upon reaching the torque, no unnecessary effort
- Interchangeable blade made from high-quality wear-resistant tool steel
- All tools comply with the accuracy stipulations of:  
EN ISO 6798, BS EN 26789, ASME B107.14M
- Operating accuracy:  $\pm 6\%$  of set scale value

## Uninsulated torque screwdriver



## DMS manual

Torque screwdriver  
EN ISO 6798, BS EN 26789, ASME B107.14M



## WK K S

Interchangeable bits for torque screwdriver  
output acc. to DIN 5264, ISO 2380/1



## WK K PZ

Interchangeable bits for torque screwdriver  
output acc. to DIN 5260-PZ, ISO 8764/1-PZ



## WK K PH

Interchangeable bits for torque screwdriver  
output acc. to DIN 5260-PH, ISO 8764/1-PH



## WGK 1/4" C6.3 E6.3

Interchangeable bit with bit holder for torque screwdrivers  
Drive: 1/4" C6.3 and 1/4" E6.3



Type	Size / AF	a	b	c	Order No.
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DMS MANUAL 0.5-1.7	0.5 - 1.7 Nm				9918370000
DMS MANUAL 2.0-8.0	2.0 - 8.0 Nm				9918380000

WK S 0,4x2,5	max. 0.4 Nm	0.4	2,5	175	9918520000
WK S 0,5x3,0	Max. 0.6 Nm	0.5	3,0	175	9918530000
WK S 0,6x3,5	Max. 1.1 Nm	0.6	3,5	175	9918540000
WK S 0,8x4,0	Max. 2,5 Nm	0.8	4,0	175	9918550000
WK S 1,0x5,5	Max. 3,8 Nm	1,0	5,5	175	9918560000

WK K PZ0	Max. 9 Nm	175	9918600000
WK K PZ1	Max. 3,8 Nm	175	9918610000
WK K PZ2	Max. 5,5 Nm	175	9918620000

WK K PH0	Max. 9 Nm	175	9918570000
WK K PH1	Max. 3,8 Nm	175	9918580000
WK K PH2	Max. 5,5 Nm	175	9918590000

WK 1/4" C6.3 E6.3			9202510000
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## VDE-insulated torque screwdriver

### VDE-insulated torque screwdriver



#### DMSI manual

##### VDE-insulated torque screwdriver

EN ISO 6798, BS EN 26789, ASME B107.14M



Type	Size / AF	a	b	c	Order No.
DMSI MANUAL 0.5-1.7	0.5 - 1.7 Nm				9918390000
DMSI MANUAL 2.0-8.0	2.0 - 8.0 Nm				9918400000

#### WK SI

##### VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5264, ISO 2380/1



WK SI 0,4x2,5	max. 0.4 Nm	0.4	2,5	220	9918410000
WK SI 0,5x3,0	Max. 0.6 Nm	0.5	3,0	220	9918420000
WK SI 0,6x3,5	Max. 1.1 Nm	0.6	3,5	220	9918430000
WK SI 0,8x4,0	Max. 2,5 Nm	0.8	4,0	220	9918440000
WK SI 1,0x5,5	Max. 3,8 Nm	1,0	5,5	220	9918450000

## G

#### WK IK PH

##### VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5260-PH, ISO 8764/1-PH



WK IK PH0	Max. 9 Nm	220	9918460000
WK IK PH1	Max. 3.8 Nm	220	9918470000
WK IK PH2	Max. 5.5 Nm	220	9918480000

#### WK IK PZ

##### VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5260-PZ, ISO 8764/1-PZ



WK IK PZ0	Max. 9 Nm	220	9918490000
WK IK PZ1	Max. 3.8 Nm	220	9918500000
WK IK PZ2	Max. 5.5 Nm	220	9918510000

**Cable gland tools**

Tightening tool for all types of cable glands

- Can tighten or loosen several rows of cable glands
- No deforming of the cable glands

**FleCaFix 11/24**

Cable gland tool



- Spanner size: 11 to 24 AF
- Infinite adjustment of spanner size
- Ratchet function: not necessary to remove tool between turns
- Authentic one-hand tool

**FleCaFix 24/36**

Cable gland tool



- Spanner size: 24 to 36 AF
- Infinite adjustment of spanner size
- Ratchet function: not necessary to remove tool between turns
- Authentic one-hand tool

**Technical data****Tool data**

Length / Width / Height	mm	190 / 30 / 60
Weight	g	190
Distance across flats (AF)	mm	11.0...24.0

**Note****Ordering data****Version**

Type	Qty	Order No.
FLECAFIX 11/24	1	9015900000

Type	Qty	Order No.
FLECAFIX 24/36	1	9015980000

**Note**

# Screwdrivers

Weidmüller screwdrivers come in four different grip sizes, and are the result of a consistent grip concept which takes into account both the human hand and the different requirements when working.

- Perfect handling with all grip sizes
- Maximum torques
- Optimum transmission of axial force
- Complete range including all commercial sizes



## SoftFinish grip



Weidmüller's SoftFinish grip zone for use in dry conditions and for general applications offers customers a complete range of screwdrivers that enables far higher torques as well as substantially more comfort due to the soft material of the grip.

### Product benefits:

- Made of special soft material which is kind to the skin, the SoftFinish zone enables maximum torques
- Perfect ergonomic grip design for comfortable screw driving and optimum handling
- In the version with a solid steel cap, it meets the requirements for chiselling.
- You can choose from long-life extremely stressable blades in standard sizes
- ChromTop blade tip offers maximum corrosion protection and greatest possible dimensional accuracy of the blade geometry in the screw head over many years

## SoftFinish electric



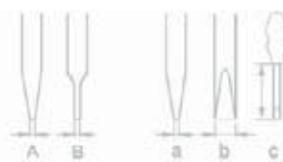
VDE-insulated screwdriver according to DIN EN 60900, IEC 900 for work on live equipment

### Product benefits:

- The protective insulation moulded directly on the screwdriver blade ensures electrical safety, even in critical applications
- Safe for working at up to 1,500 volts DC and 1,000 volts AC
- Each screwdriver is individually tested in a water bath at 10,000 volts according to DIN EN 60900
- Perfect ergonomic grip design for comfortable screw driving and optimum handling
- Made of special soft material which is kind to the skin, the SoftFinish zone prevents slipping in critical situations and at the same time enables maximum torques

**VDE-insulated screwdriver**

VDE-insulated screwdriver, for working on live parts up to 1,000 V AC and 1,500 V DC. DIN EN 60900, IEC 900, Safety tested „GS“, each piece tested. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

**SDI S**

**VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip**



Type	Blade type	Size / AF	a	b	c	Order No.
SDI 0.4X2.0X60	A	0.4	2.0	60		9205690000
SDI 0.4x2.5x75	A	0.4	2.5	75		9008370000
SDI 0.5x3.0x100	B	0.5	3.0	100		9008380000
SDI 0.6x3.5x100	B	0.6	3.5	100		9008390000
SDI 0.8x4.0x100	B	0.8	4.0	100		9008400000
SDI 1.0x4.5x125	B	1.0	4.5	125		9008410000
SDI 1.0X4.5X175	B	1.0	4.5	175		9205700000
SDI 1.0x5.5x125	B	1.0	5.5	125		9008410000
SDI 1.0X5.5X175	B	1.0	5.5	175		9205710000
SDI 1.2x6.5x150	B	1.2	6.5	150		9008420000
SDI 1,6x8,0x175	B	1.6	8.0	175		9008430000

**SDIK PH**

**VDE-insulated crosshead screwdriver, Phillips type, SDIK PH DIN 7438, ISO 8764/2-PH, output acc. to ISO 8764-PH, SoftFinish grip**



SDIK PH0	0	60	9008560000
SDIK PH1	1	80	9008570000
SDIK PH2	2	100	9008580000
SDIK PH3	3	150	9008590000

**SDIK PZ**

**VDE-insulated crosshead screwdriver Pozidrive type, SDIK PZ DIN 7438, ISO 8764/2-PZ, output acc. to ISO 8764-PZ, SoftFinish grip**



SDIK PZ1	1	80	9008900000
SDIK PZ2	2	100	9008890000

VDE-insulated screwdriver with pilot tip, for working on live parts up to 1,000 V AC and 1,500 V DC, DIN EN 60900, IEC 900, Safety tested „GS“, each piece tested. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

**SDIZ**

**VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip**

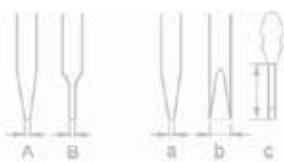


SDIZ 0.6X3.5X100	0.6	3.5	100	9008450000
SDIZ 0.8X4.0X100	0.8	4.0	100	9008460000
SDIZ 0.8X5.5 150/248				9008640000

## VDE-insulated screwdriver

### VDE-insulated screwdriver

VDE-insulated screwdriver with pilot tip, for working on live parts up to 1,000 V AC and 1,500 V DC, DIN EN 60900, IEC 900, Safety tested „GS“, each piece tested. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.



### SDIS 2.5-5.5/PH/1/2

#### 6-part set: VDE insulated slotted and crosshead PH screwdriver set



Type	Blade type	Size / AF	a	b	c	Order No.
SDI 0,4x2,5x75			0.4	2.5	80	
SDI 0,5x3,0x100			0.5	3.0	100	
SDI 0,8x4,0x100			0.8	4.0	100	
SDI 1,0x5,5x125			1.0	5.5	125	
SDI PH 1				1	80	
SDI PH 2				2	100	
SDIS 2,5-5,5/PH1/2						9009730000

### SDIS 2.5-5.5/PZ/1/2

#### Six-piece set: VDE-insulated slotted and PZ-crosshead screwdriver set



SDI 0,4x2,5x75	A	0.4	2.5	80	
SDI 0,5x3,0x100	B	0.5	3.0	100	
SDI 0,8x4,0x100	B	0.8	4.0	100	
SDI 1,0x5,5x125	B	1.0	5.5	125	
SDI PZ 1			1	80	
SDI PZ 2			2	100	
SDIS 2,5-5,5/PZ1/2					1128540000

Weidmüller SoftFinish VDE-insulated electric screwdriver for working on live components with up to 1,000 V AC and 1,500 V DC, DIN EN 60900, IEC 900. Safety tested „GS“; each product tested.

### SDIS 2.0-5.5

#### VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

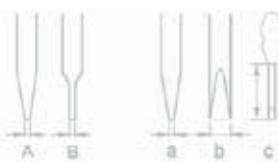


SDI 0,4x2,0x60	A	0.4	2.0	60	
SDI 0,4x2,5x75	A	0.4	2.5	75	
SDI 0,5x3,0x100	B	0.5	3.0	100	
SDI 0,6x3,5x100	B	0.6	3.5	100	
SDI 0,8x4,0x100	B	0.8	4.0	100	
SDI 1,0x5,5x125	B	1.0	5.5	125	
SDIS 2.0-5.5					9205550000

**Uninsulated screwdriver**

Weidmüller SoftFinish screwdriver for general uses, blade made from fully hardened.

High-alloy chromium-vanadium-molybdenum steel, matt chrome finish.

**SD S**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



Type	Blade type	Size / AF	a	b	c	Order No.
SD 0,4x2,0x60	B	0.4	2.0	60	9037160000	
SD 0,4x2,5x75	A	0.4	2.5	75	9009030000	
SD 0,5x3,0x80	A	0.5	3.0	80	9008320000	
SD 0,6x3,5x100	A	0.6	3.5	100	9008330000	
SD 0,6x3,5x200	A	0.6	3.5	200	9010110000	
SD 0,8x4,0x100	A	0.8	4.0	100	9008340000	
SD 0,8x4,5x125	A	0.8	4.5	125	9009020000	
SD 1,0x5,5x150	A	1.0	5.5	150	9008350000	
SD 1,2x6,5x150	A	1.2	6.5	150	9009010000	

**SDK PH**

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip



SDK PH0	0	60	9008470000
SDK PH1	1	80	9008480000
SDK PH2	2	100	9008490000
SDK PH3	3	150	9008500000

**SDK PZ**

Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip



SDK PZ0	0	60	9008520000
SDK PZ1	1	80	9008530000
SDK PZ2	2	100	9008540000
SDK PZ3	3	150	9008550000

**SD TH**

Torx® TH screwdriver with hole in tip of blade (tamper-resistant), SD TH for screwing Torx® and Torx®-TH security screws (pin in centre of Torx recess), chrome top tip, SoftFinish grip. The SD TH20 can be used with the Klippon® K enclosure series.



SD TH20	20	100	9009160000
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**SK**

The SK 10.0x125 Allen key, SK DIN 3125, drive output acc. to DIN 475/2, SoftFinish grip. It can be used with all sizes from the Klippon® TB and Klippon® STB enclosure series.



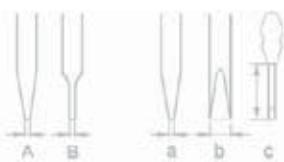
SK 10,0x125	10	125	9009070000
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## Uninsulated screwdriver

### Uninsulated screwdriver

Weidmüller SoftFinish screwdriver for general uses, blade made from fully hardened.

High-alloy chromium-vanadium-molybdenum steel, matt chrome finish.



### Set S 2.5/3.0/4.0/5.5/PH 1/2

6-part set: slotted and crosshead PH screwdriver set with circular blades



Type	Blade type	Size / AF	a	b	c	Order No.
SD 0,4x2,5x75	A	0.4	2.5	75		
SD 0,5x3,0x80	A	0.5	3.0	80		
SD 0,8x4,0x100	A	0.8	4.0	100		
SD 1,0x5,5x150	A	1.0	5.5	150		
SD PH 1		1		80		
SD PH 2		2		100		
SDS 2,5-5,5/PH1/2						9009740000

### Set S 2.0/2.5/3.0/3.5/4.0/5.5

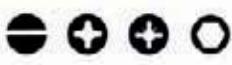
Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



SD 0,4x2,0x60	B	0.4	2.0	60		
SD 0,4x2,5x75	A	0.4	2.5	75		
SD 0,5x3,0x80	A	0.5	3.0	80		
SD 0,6x3,5x100	A	0.6	3.5	100		
SD 0,8x4,0x100	A	0.8	4.0	100		
SD 1,0x5,5x150	A	1.0	5.5	150		
SDS 2.0-5.5						9205560000

### System 11+1 S-PH-PZ-SK

12-part set of interchangeable blades for slotted head, crosshead PH/PZ and hexagon screws, SoftFinish grip



SD	0.5	3.0	140		
SD	0.8	4.0	140		
SD	1.0	5.0	140		
SD	1.2	6.0	140		
PH 1	1		140		
PH 2	2		140		
PZ 1	1		140		
PZ 2	2		140		
SK	3		140		
SK	4		140		
SK	5		140		
SYSTEM 11+1				140	9009750000

**Weidmüller wrench set**

Allen key made from fully hardened, high-alloy chromium-vanadium steel, produced acc. to DIN ISO 2936 L (DIN 911), high-quality refined surface.

**SK WSD S**

**9-piece offset screwdriver set in Prostar holder**, with **MagicRing**: holds standard screws (size 3 and larger) in any position thanks to spring steel ring, with **ball point**: for working at angles up to 25°.

**SK S****7-piece Allen key set****SK S**

**7-piece Allen key set with MagicRing and ball point**: holds standard screws (size 3 and larger) in any position thanks to spring steel ring, with ball point: for working at angles up to 25°.

**TH S****8-piece Torx®-TH screwdriver set**

with hole in the blade point (tamper-proof), for screwing Torx® and Torx®-TH tamper-proof screws (centre pin in profile)



Type	Blade type	Size / AF	a	b	c	Order No.
		1.5				
		2				
		2.5				
		3				
		4				
		5				
		6				
		8				
SK WSD-S 1,5-10,0						9008850000

2						
2.5						
3						
4						
5						
6						
8						
SKS 2,0-8,0						9008860000

2						
2.5						
3						
4						
5						
6						
8						
SKS 2,0-8,0 MR						9008870000

9						
10						
15						
20						
25						
27						
30						
40						
TH-S 9-40						9008880000

## Pin and electrical cabinet key

### IS 4 / IS 6 / IS 8

#### Wrench with pegged pilot tip

Hexagon screwdriver with cross-grip made from high-quality plastics

- Surface nickel-plated
- Made from hardened chromium-vanadium steel
- According to DIN 6911
- Designed for screws acc. to DIN 6912

#### Ordering data

Type	Qty	Order No.
IS 4 DIN 6911	1	0485100000
IS 6 DIN 6911	1	0407900000
IS 8 DIN 6911	1	0235000000



### IS 2 KG / IS 3 KG / IS 4 KG

#### Socket wrench

Hexagon screwdriver with cross-grip made from high-quality plastics

- Surface nickel-plated
- Made from hardened chromium-vanadium steel
- According to DIN 6911
- Designed for screws acc. to DIN 6912

#### Ordering data

Type	Qty	Order No.
IS 2 KG	1	1806630000
IS 3 KG	1	1806650000
IS 4 KG	1	1806660000



## Cross-Key Master

### Universal key

- With bit holder and reversible bit (drives - refer to symbols)
- Material: die cast zinc
- Dimensions: 62 x 90 mm

#### Applications:

For almost all commercial locking systems in buildings including: doors, window handles, radiator bleed valves, sanitary installations, HVAC, gas and water supply.

#### Ordering data

Type	Qty	Order No.
CROSS-KEY MASTER	1	9918150000



## Cross-Key Universal

### Universal electrical cabinet key

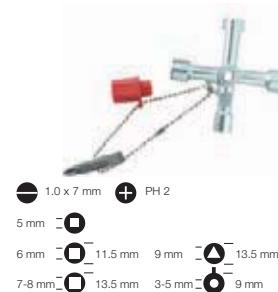
- With bit holder and reversible bit (drives - refer to symbols)
- Material: die cast zinc
- Dimensions: 72 x 72 mm

#### Applications:

For locking systems used in electrical engineering, fits all standard electrical cabinet locks.

#### Ordering data

Type	Qty	Order No.
CROSS-KEY UNIVERSAL	1	9918130000



## Cross-Key Universal S

### Universal mini electrical cabinet key

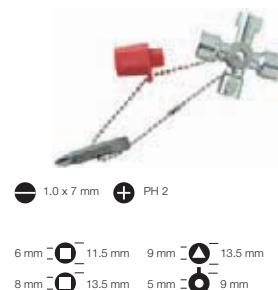
- With bit holder and reversible bit (drives - refer to symbols)
- Material: die cast zinc
- Dimensions: 42 x 42 mm

#### Applications:

For locking systems used in electrical engineering, fits all standard electrical cabinet locks.

#### Ordering data

Type	Qty	Order No.
CROSS-KEY UNIVERSAL S	1	9918140000



# Weidmüller Solutions & Service

## Weidmüller Solutions & Service

Customer specific solutions: best advice, best solutions

V.2

Digital support: RailDesigner®, Product Assistant for Distribution Boxes,  
Online product catalogue, M-Print® PRO label designer

V.8

**Customer specific solutions**

# Application specific solutions – Your requirements are our motivation

Each industry has its own requirements calling for more and more individual solutions aside from standard products. Your new product might have to contend with severe conditions. Many applications are subjected to high mechanical strains – through vibration or directly applied forces. Extreme temperature conditions or the application in hazardous areas are further factors your product must be able to comply with. We offer you our competent and target-oriented support for the selection of ideal products for any application. Feel free to contact us!

Individual product development, customer-specific assembly or application-specific products that are ready for use – with an individual and perfect solution we want to help you to optimise working processes and to ensure your company's sustained efficiency today as well as for the future.

**Individual product development**

In co-operation with you we will develop individual and future-oriented products on the highest technological level – tailored to your application.

**Customer-specific assembly**

According to your specifications we use our great production expertise and our broad product portfolio to set up the solution meeting your requirements.

**Application-specific products**

Our cross-industrial solutions set standards: Set up for your application, instantly ready for use and available from stock.



# Individual product development for your success

## We have a passion for simple, innovative solutions

Together we will develop innovative and future-oriented products tailored to your application. Our philosophy "One customer – one product" serves as background. It is not the product that is the starting point, but you, your technical specifications and your requirements.

## A connecting partnership

For the development of individual products both parties contribute their utmost experience and competence. We consider any challenge with our professional project management giving it a quality approach – from the idea and design phase via the development phase to the implementation and production. We place our complete knowledge in the field of electrical connectivity, enclosure and sealing technology as well as signal conditioning at your disposal.

## Benefit from a reliable partner:

- **Increasing the efficiency of your development and production processes**

The particular outsourcing of development and production of your components will shorten the time-to-market phase. It will minimise your efforts thus allowing you to concentrate on your core competences.

- **Taking benefit from our application and production know-how**

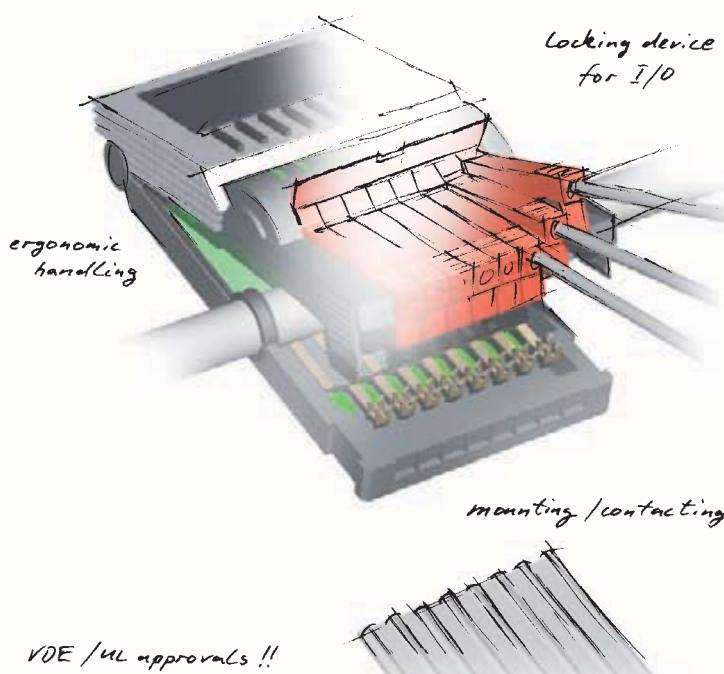
Take profit from the expertise of our application engineers and our specialists in the fields of connection technology, enclosure and surface technology as well as metal and plastic processing.

- **Increasing safety through professional project management**

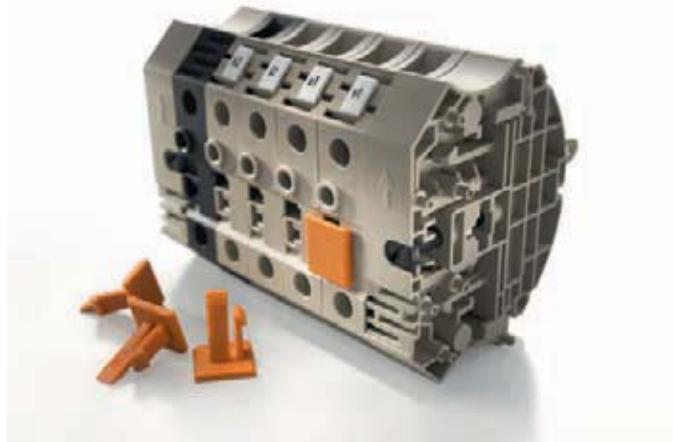
Through innovation workshops, feasibility studies and profitability analyses we define a requirement profile forming the basis for the further development process. This makes sure that you will decide for the best possible product.

*all technical  
data achieved?*

*functional tests*



# Application specific products – solutions for industries and markets



Industries and applications often have similar or even identical requirements for products or product assemblies. Application specific products that are based on earlier realised solutions are now directly available from stock.

**Your advantage:** You get a suitable and cost efficient solution within a minimum of time!

## Cross industrial solutions as standard

It is our aim to develop real solutions for you that offer the additional advantage of a advantage of a truly flexible design. This means that an application specific product might have a supplementary input or a terminal you don't need. The adaptation for you, however, would in any case be much cheaper than the complete unrolling of an individual job. Thus you cannot only save time but also money!

## Take multiple profit:

- **High availability**

Application specific products are available from stock without delay. So you can rely on the delivery of your products in due time.

- **Advice from application engineers**

Take profit from our application engineers' expertise. They develop real solutions with added value for your applications.

- **Supportive software**

Project planning and evaluation made easy, with our software solutions such as NetCalc, RailDesigner® or Softclinic.

- **Worldwide application centres**

We stay in constant dialogue with our application centres thus enhancing our application know how and being at your disposal anywhere you need us.



# Customer specific assembly, tailored configuration

You want to bring costs down and increase your efficiency. You would like to fully concentrate on your core competences. You are looking for a partner who will set up intelligent solutions for you, suiting your special requirements. We dispose of the application know how and the capacities to set up tailored solutions for you, fast, flexible and economically advantageous.

We offer co-operative support and advice for all of your questions and together with you we define the job assignment. In the further process we select the ideal components from a broad product portfolio composing them to a tailored solution.



## Take multiple profit:

- **Simplification of ordering and stockholding**

One solution – one item number! It will no longer be necessary to order single components. Article variety and stockholding will be reduced.

- **Professional assembly**

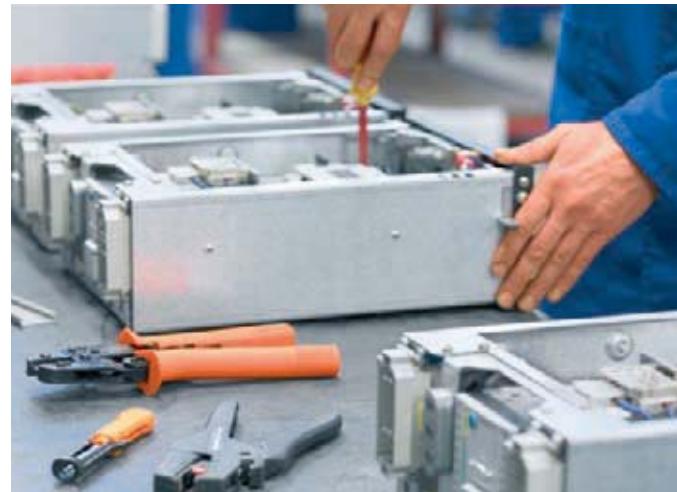
All individual components will be pre-assembled thus reducing your assembly time. This will save your time and money.

## Highest level of professional production

Take profit from our professional project management and our high level of production know how, e.g. in the ATEX area. We offer you a comprehensive portfolio of customer specific assemblies, from simple assembly to the modification of existing electronics products.

Our services include:

- Adaptation and assembly of enclosures for all IP protection classes
- ATEX solutions for hazardous areas
- Assembly of heavy duty connectors
- Assembly of terminal strips
- Customer specific electronics solutions
- Cable assembly



- **Less costs for documentation**

Our RailDesigner® software will facilitate the generation of parts lists or drawings.

- **Modern processing of enclosures**

Our CNC processing centres adapt the enclosures to suit your tailored solution.

**Customer specific solutions**

# Customer specific assembly – consultation, product, development and production all come from one source

Our application and manufacturing expertise has a decisive effect on all sections of modern connection technology. Their use therefore forms an integral part of every solution.

**Enclosures**

Perfect protection and safety

- Enclosures for all IP protection classes
- ATEX enclosures for hazardous areas
- Placement of inspection glasses, drill holes and threads
- Elaborate machining operations like the milling of contours
- Class C5 welding, according to DIN 6700, for stainless steel and sheet steel enclosures
- Surface coating as and when required
- Individual device and system markers

**Heavy duty connectors**

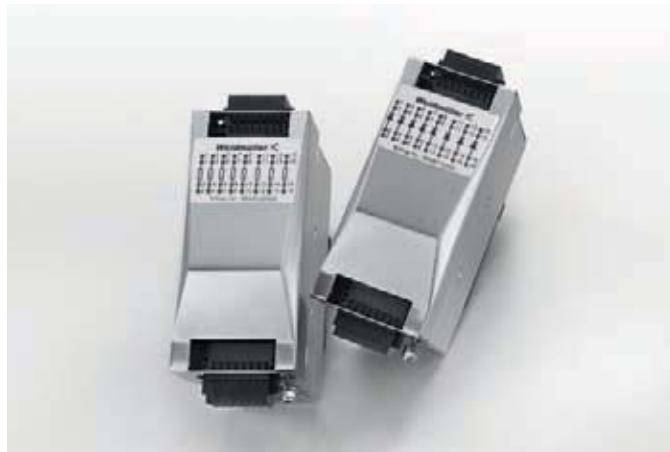
Perfect connection with system

- Placement of drill holes and cable glands
- Equipped with plug-and-play components
- Wiring of subassemblies
- Cable assembly
- All housings are available with individual laser marking

**Terminal strips**

Configuration made to measure

- Machining of mounting rails
- Snapping components onto terminal rails
- Placement of cross connections
- Mounting of standard conductors
- Marking of terminals, devices, conductors and cables



### Electronics

Individual solution from the beginning

- Modular terminal blocks, component plugs, snap on bases, enclosures for electronics: integration of relevant electronic components
- Snap-on base: Component carrier design or simple wiring of the modules
- Interface units
- Modification of existing electronic products: Modification of the circuitry or specific calibration
- Combination of components: Relays or optocouplers in combination with other components



### Cable assembly

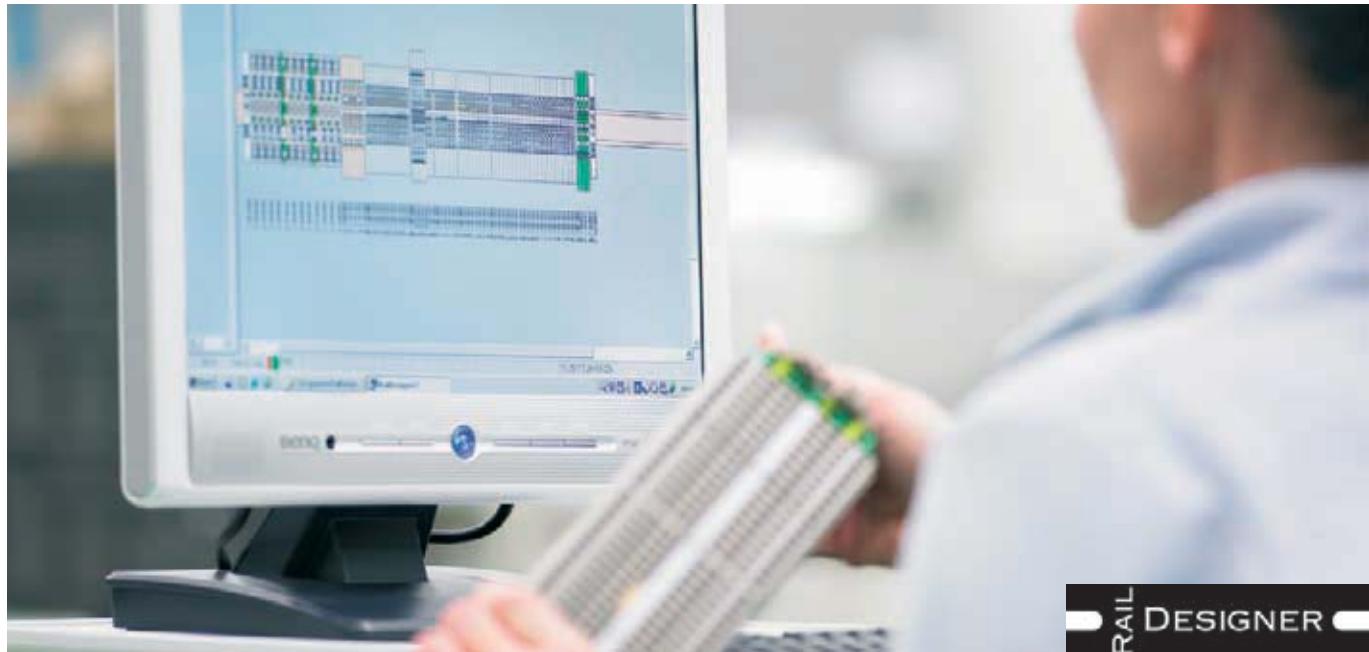
Our special service

- Pre cutting of cables and conductors
- Installation of
  - Heavy duty connectors
  - PCB connectors or DIN connectors
- Conditioning of wire ends
- Mounting of wire end ferrules and cable lugs
- Connection of conductors to terminal rails

**Digital support**

## RailDesigner®

# A faster way to configure and order terminal strips

**RAIL DESIGNER**

These days, time and cost efficiency are of the essence when it comes to working in planning and production. RailDesigner®, our free configuration and purchasing software, uses its virtual assembly of mounting rails (assembled or unassembled) to help you with the design of your own completely personal solution.

**RailDesigner® brings you substantial benefits:****Less time required**

It speeds up the process of acquiring quotations and placing orders because, for example, all processes can be initiated directly from the software. You configure your projects and the rest virtually takes care of itself!

**User friendly operation**

Any potential errors are prevented by automatic installation tips and clear project processing and management. So that you can plan your project realistically, RailDesigner® offers both 2D and 3D displays.

**Wide selection from the current product portfolio**

"You can easily download software updates for RailDesigner® from the internet.

This means that you will always have access to the latest version of our product database."

**Project planning that is compatible with your software**

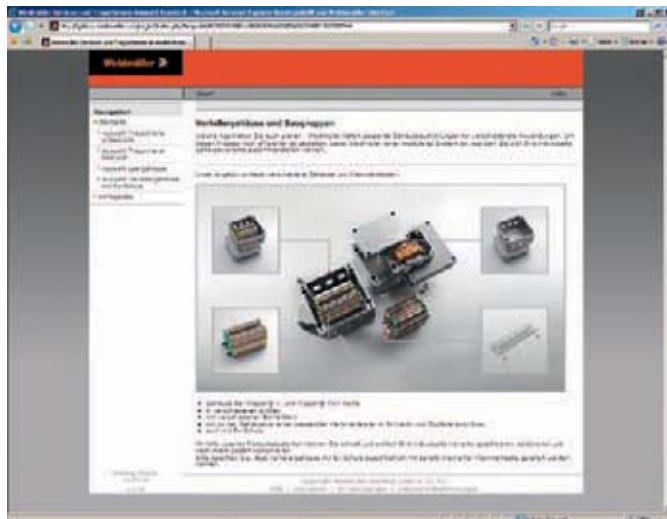
Plan and design your projects easily using your usual CAE software. With the integrated interface, transferring data from your CAE system has never been so simple. You can export component lists and terminal strip designs in various formats. Marking data is automatically transferred to the M-Print® Pro labelling software.

**Simple purchasing of terminal strips**

Once you have completed the planning stages of your projects in RailDesigner®, you can choose to send all of your data to us by email. We then take over the assembly and deliver the required configuration to you, along with anything else that you still require for your project.

Download the software for free and discover the advantages to using RailDesigner® at  
[www.raildesigner.de](http://www.raildesigner.de)

# Product assistant for distribution boxes and assemblies – The perfect solution, in the shortest time



You can easily and quickly select, combine and purchase the required components, all with the help of the Weidmüller product assistant for distribution boxes and assemblies. This means that you can quickly obtain your individual enclosure solution. Your solution may include the following components:

#### **Empty enclosures without holes**

Empty enclosures in various sizes of the Klippon® K and Klippon® POK series (aluminium and plastic) with matching mounting rails.

#### **Empty enclosures with pre-threaded holes**

Empty enclosures in different sizes from the Klippon® K and Klippon® POK series (aluminium and plastic), that are already equipped with metric threaded holes.

#### **Mounting rails**

Exactly tailored mounting rails for the enclosure sizes on offer.

#### **Terminal strips**

Mounting rails, which also perfectly match the offered enclosure sizes and are pre-fitted with terminals, optionally with screw or tension clamp connection.

#### **Distribution boxes with Ex-protection**

Enclosures that are already assembled with a terminal strip and already equipped with metric threaded holes.

#### **Numerous possible combinations**

Enclosures with Ex-protection are supplied exclusively with terminal strips that are already fitted. The product assistant offers you various approaches for industry variants so that you can create the right enclosure variant.

You can start off with any of the listed components and then add further components to the combination. This means that, for example, you can select the required terminal strip and the product assistant will then offer the matching enclosure variants. Or, you can start with the enclosure, and matching terminal strips or mounting rails will then be chosen. The selected products can then be directly included in the query list.

#### **Provision of all relevant data**

During the selection, you can choose filters for the terminal strips, such as length, connection technology or dimensional cross-section and, for the enclosure, you can choose material, size, holes etc. If a product is then selected and combined, the user can view all of the relevant data, including drawings and pictures. This means that you can extensively plan how the enclosure will be integrated into the customer's application.

The product assistant is available at

<http://galaxy.weidmueller.com>

# Weidmüller Service



## Online product catalogue

For questions about the data and details of all our products, also outside our normal office hours or on weekends, our online catalogue is available.

<http://catalog.weidmueller.com>

It is a perfect source of information; available around the clock, 365 days of the year. The online catalogue contains the product features and article numbers as well as much additional information on all the product groups.

More info, offers and points of contact can be found on the Weidmüller website:

[www.weidmueller.com](http://www.weidmueller.com)

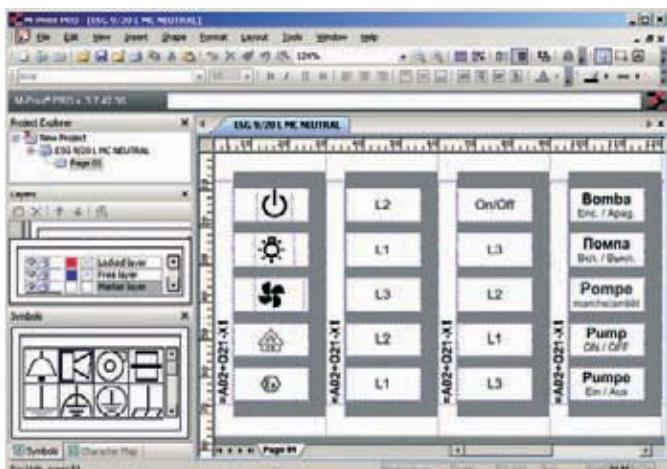


## PART Server

CAD drawings of the Klippon® enclosures can be found directly under the part server as well as in the online catalogue

<http://portal-de.partcommunity.com/>

where they can be downloaded in various formats.



## M-Print® PRO Label Designer

A part of Weidmüller's comprehensive offering of services is the M-Print® PRO software.

This professional Windows®-based software is used for printing and ordering Weidmüller's labels and markers. It is designed to work best on the current printing systems and labelling materials.

You can create labelling materials quickly and professionally using M-Print® PRO. This can be with text, frames, lines, graphics, bar codes, serial numbers, and photographs. All the configured data can be transferred via the interface to RailDesigner® or to your CAE system.

# Technical appendix

## Technical appendix

ATEX directive 1999/92/EC	W.2
ATEX directive 94/9/EC	W.4
IECEx scheme	W.5
Classification of explosive groups in gas Ex protection	W.6
Classification of zones and equipment categories	W.6
Ratings plate of an empty enclosure	W.8
IP class of protection	W.9

# ATEX directive 1999/92/EC

Article 137 of the European Community Formation Treaty set out the minimum standards in order to improve workers' health and safety, this can also be put at risk by explosive atmospheres. An explosive atmosphere is a mixture of air and flammable gasses, vapours, mists or dust under atmospheric conditions where, following successful ignition, the burning process will propagate throughout the whole unburned mixture.

The ATEX directive 1999/92/EC was transferred into national law. Compliance with the minimum standards contained in this directive does not guarantee that all relevant national laws are met. It is possible for local regulators to introduce more stringent requirements.

The employer is required, according to the ATEX directive 1999/92/EC, to take measures to ensure the health and safety of the employees. One measure is the division of the area into zones where explosive atmospheres could be present.

Unless the risk analysis conducted by the employer indicates otherwise, all areas where an explosive atmosphere may be present must be equipped with devices and protective systems that meet the relevant category of the ATEX directive 94/9/EC. In particular in these zones the following categories of equipment should be used, as long as they are suitable for use with gases, vapours, mists or dusts:

- In Zone 0 or Zone 20: category 1 devices,
- In Zone 1 or Zone 21: category 1 or category 2 devices,
- In Zone 2 or Zone 22: category 1, category 2 or category 3 devices.

## Zoning according to the ATEX directive 1999/92/EC

### Zone 0

An area which has a potentially explosive atmosphere that is a mixture of air and **flammable gases, vapours or mists**. The mixture is either permanently present or frequently present over long periods of time.

### Zone 1

An area in which during normal operations a potentially explosive atmosphere of air and **flammable gases, vapours or mists** can occasionally form.

### Zone 2

An area for which during normal operations there is at most only a short-term occurrence of a potentially explosive atmosphere of mixtures of air and **flammables gases, vapours or mists**.

### Zone 20

An area where a potentially explosive atmosphere is present in the form of a **flammable dust** cloud in the air. This cloud is either permanently present or frequently present over long periods of time.

### Zone 21

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air can occasionally form.

### Zone 22

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air is not normally present or only present for a short time.

For the risk assessment and as well as the zoning concept described above, Ex devices themselves can be considered in an alternative process which uses the equipment protection level (EPL). These protective levels determine the internal ignition risk of a device where the sort of applied protection does not play a role.

The system of EPL classifications is shown below.

### **Firedamp (methane) risk mines (Group I)**

#### **EPL Ma**

Equipment for installation in a mine with a very high level of protection. Has sufficient safety that ensure there is no source of ignition even when the device is operated following an outbreak of gas.

#### **EPL Mb**

Equipment for installation in a mine with a high level of protection. Has sufficient safety to ensure that there is no source of ignition in the period of time between the outbreak of gas and the time the equipment is switched off.

### **Gases (Group II)**

#### **EPL Ga**

Equipment for explosive-risk gas atmospheres with a very high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Gb**

Equipment for explosive-risk gas atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Gc**

Equipment for explosive-risk gas atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

### **Dust (Group III)**

#### **EPL Da**

Equipment for combustible dust atmospheres with a very high level of protection. No source of ignition is present during normal operation or in very rare faults.

#### **EPL Db**

Equipment for combustible dust atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

#### **EPL Dc**

Equipment for combustible dust atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

# ATEX directive 94/9/EC

Article 95 of the European Community Formation Treaty deals with the equalization of laws of the Member States. The ATEX directive 94/9/EC sets out the basic requirements for health and safety protection as a directive following the new concept. It is aimed at manufacturers of equipment and components designed for used in potentially explosive atmosphere areas.

The ATEX directive 94/9/EC was transferred into national law. For Germany these are:

1. German Equipment and Product Safety Act (GPSG),  
06/01/2004, Federal Law Gazette Part I, 09/01/2004 p. 2.
2. Eleventh supplementary regulation to the GPSG (11th  
GPSGV), 12/12/1996, Federal Law Gazette I, p. 1914, last  
amended by Article 18 of the Act on the restructuring of the  
safety of technical equipment and consumer products,  
06/01/2004 , Federal Law Gazette Part I, 09/01/2004 p. 17.

This directive sets out the requirements for the products depending on their equipment group and category. This is the category as set down by the ATEX directive 1999/92/EC applicable for each appropriate zone.

To prove conformity with the basic health and safety regulations, harmonised standards are used. If the requirements as laid out in the Official Journal of the EU are met, then it will be in compliance with the standard requirements for conformity (presumption of conformity). Various, mostly equivalent, protection types have been standardised harmoniously (see table)

This conformity assessment process of the directives sets out different procedures. For device category 3, the manufacturer can perform the conformity assessment itself. For devices of categories 1 and 2, this conformity check must be carried out at a notified body in the form of a EC type-examination. In addition, quality assurance must be monitored for the devices of categories 1 and 2.

Weidmüller has devices and components in its product range. Empty enclosures are components and are certified at the factory as such. Installing certified components does not create a certified equipment. To do this, additional tests must be carried out.

Weidmüller offers customer-specific devices available as certified solutions. The production of assembled enclosures is monitored by a notified body.

# IECEx scheme

The IECEx scheme is an international certification scheme for products which meet the requirements of the international standards, e.g. the technical committee TC31's IEC standards.

The certificates awarded in this scheme are published on the IECEx website ([www.iecex.com](http://www.iecex.com)) as an electronic certificate. They can be viewed online and printed out.

A Certificate of Conformity (CoC) refers to a test report (Ex Test Report ExTR) and on an assessment of the quality assessment report from the manufacturer (QAR).

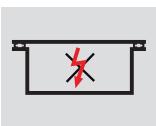
The standards used for the production of the test report correspond almost entirely to the harmonised standards in Europe. Recent EN standards were initially adopted as IEC standards.

## Protection concepts

The zoning described above provides the basis for the selection of the type of ignition protection. So, as an example, in the ATEX applicable areas, only ignition protection devices meeting Ex ia for Zone 0 (highest probability of an explosive atmosphere being present) are allowed.

### Increased safety Ex e

#### No sparks and a surface temperature limited to a safe level

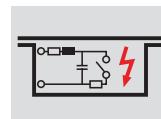


Increased safety is for products where there are no sparks produced during normal operation or in case of a failure. The surface temperature of the relevant parts is limited to a value below the ignition temperature. Increased safety is achieved by reducing the current load and raising the isolation properties and by maintaining clearance and creepage distances above the value in an industrial application. The highest voltage permitted for this protection scheme is 11 kV (D.C. or A.C. rms).

This protection scheme is usually used for distribution cabinets.

### Intrinsically safe Ex i

#### Limited to a safe level of ignition energy



Intrinsic safety is for products where electrical energy which flows into the product, or is stored in the product, is not sufficient to ignite the surrounding explosive atmosphere.

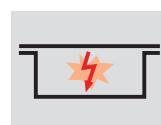
This also applies in fault conditions. The methods that achieve intrinsic safety mean that it is important that not only the devices installed in direct contact with the explosive atmosphere are constructed correctly, but also the electrical devices to which they are connected.

Intrinsically safe equipment and intrinsically safe parts of the associated equipment are divided into protection levels: ia (for zones 0, 1, and 2), ib (for zones 1 and 2), and ic (only for zone 2).

A typical application area are control and display circuits with low voltage and current.

### Pressure-resistant Ex d encapsulation

#### Limits the explosion to the inside of the enclosure



Pressure-resistant encapsulated enclosures are designed for devices where sparks are generated or which have hot surfaces which are a source of ignition during normal operation. Similarly, industrial components for use in potentially explosive atmospheres are often made suitable by encapsulating them in a pressure-resistant enclosure which otherwise could not be used.

The surrounding possibly explosive atmosphere can enter the enclosure and will produce an internal explosion during the equipment's lifespan.

The enclosure must therefore be stable enough to ensure that it is not deformed or destroyed by the pressure created. All connections of the enclosure are sized so that they cannot transmit an explosion from inside to the surrounding atmosphere. These connections are known as ignition gaps.

For this sort of ignition protection the explosion groups apply (IIA, IIB, IIC). Devices using this protection principle may not be installed in Zone 0.

## Allocation of explosion groups, zones and equipment categories

### Classification of explosive groups in gas Ex protection

Flammable gases, vapours or mists are divided according to their ignition resistance capacity into the explosive groups IIA, IIB and IIC. This classification is based on the respective maximum experimental safe gap (MESG) and the minimum ignition current of the gases. The lower this value, the higher the danger presented by the gases. The danger of the gas increases from IIA to IIC so that all equipment certified for use in IIC areas may also be used in IIA and IIB areas.

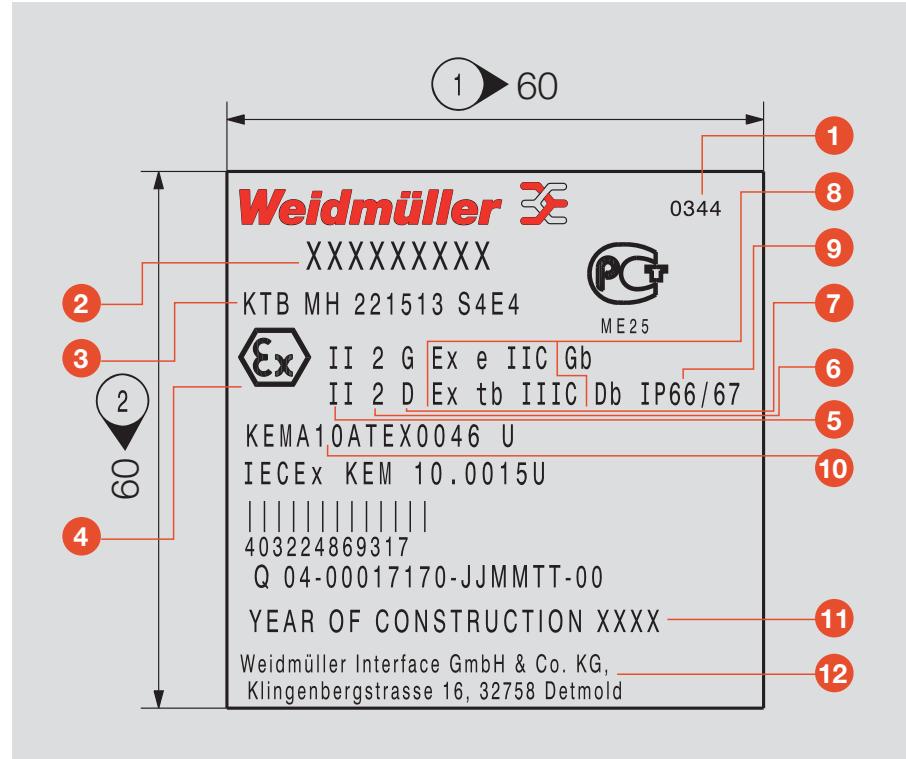
Explosion group	Maximum experimental safe gap (MESG)	Minimum ignition current
IIA	> 0.9 mm	> 0.8
IIB	0.5 mm to 0.9 mm	0.45 to 0.8
IIC	< 0.9 mm	< 0.45

### Classification of zones and equipment categories

Combustible ingredients	Explosive atmospheres	Zone division	Identification	
			Equipment group	Device category
Gas, mist, vapours/fumes (G)	permanent, long-term	Zone 0	II	1G
	occasionally	Zone 1	II	2G
	unlikely, short-term	Zone 2	II	3G
Dusts (D)	permanent, long-term	Zone 20	II	1D
	occasionally	Zone 21	II	2D
	unlikely, short-term	Zone 22	II	3D

# Ratings plate of an Ex-certified empty enclosure

- 1** • Number of the notified body
- 2** • Part No.
- 3** • Part designation
- 4** • Ex marking
- 5** • Equipment group
- 6** • Device category
- 7** • G Gas (gas)  
D flammable dust
- 8** • Explosion protection type
- 9** • IP ingress protection class
- 10** • EC type-examination certificate
- 11** • Year of manufacture
- 12** • Name and address of manufacturer



# IP class of protection to DIN EN 60529

The class of protection is indicated by a code consisting of the two letters IP and two digits representing the class of protection.

## Protection against intrusion of external particle matter (1st digit)

Digit	
0	No protection
1	Protection against ingress of large solid bodies with diameter > 50 mm. (Protection to prevent dangerous parts being touched with the back of the hand.)
2	Protection against ingress of large solid bodies with diameter > 12.5 mm. (Protection to prevent dangerous parts being touched with the fingers.)
3	Protection against ingress of large solid bodies with diameter > 2.5 mm. (Protection to prevent dangerous parts being touched with a tool.)
4	Protection against ingress of large solid bodies with diameter > 1 mm. (Protection to prevent dangerous parts being touched with a piece of wire.)
5	Protection against harmful deposits of dust, which cannot enter in an amount sufficient to interfere with satisfactory operation.
6	Complete protection against ingress of dust.

Example: **I P 6 5**

2nd digit: protection from liquids  
1st digit: protection from solid bod

## Protection against penetration of liquids (2nd digit)

Digit	
0	No protection
1	Protection against drops of condensed water falling vertically.
2	Protection against drops of liquid falling at an angle of 15° with respect to the vertical.
3	Protection against drops of liquid falling at an angle of 60° with respect to the vertical.
4	Protection against liquids splashed from any direction.
5	Protection against water jets projected by a nozzle from any direction.
6	Protection against water from heavy sea on ships' decks.
7	Protection against immersion in water under defined conditions of pressure and time.
8	Protection against indefinite immersion in water under defined conditions of pressure (which must be agreed between manufacturer and user and must be more adverse than number 7).

# IP class of protection – Definition of the protection degrees according to NEMA, UL and CSA

Type	NEMA	UL	CSA
Designation	National Electrical Manufacturers Association NEMA 250-1991	Underwriters Laboratories Inc. UL 50 and UL 508.	Canadian Standards Association CSA-C22.2 No. 94-M91
<b>Type 1</b>	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure for general use. Protection against accidental contact with live components.
<b>Type 2</b>	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure for indoor use. Protection against non-corrosive drops/splashes of liquid and foreign bodies.
<b>Type 3</b>	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
<b>Type 3R</b>	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
<b>Type 3S</b>	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure for indoor or outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.
<b>Type 4</b>	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, snow, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
<b>Type 4X</b>	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
<b>Type 6</b>	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.
<b>Type 12</b>	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid drips, without pre-formed openings.
<b>Type 13</b>	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid sprays including oil and coolants.



# Index

## Index

Index Type	X.2
Index Order No.	X.8
Addresses worldwide	X.14

Index

X

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
<b>A</b>			ADAP EX M40-M20	1737690000	C.59	Cabrite KT 12	1826550000	D.3	CROSS-KEY UNIVERSAL S	9918140000	G.20
ADAP EX 1 1/2-1 1/2NPT	1738910000	C.58	ADAP EX M40-M25	1737850000	C.59	Cabrite KT 12 b	1827890000	D.3	<b>D</b>		
ADAP EX 1 1/2NPT-1 1/4	1738800000	C.58	ADAP EX M40-M32	1737990000	C.59	Cabrite KT 13	1826560000	D.3	DAE M12 PA long	1868570000	C.60
ADAP EX 1 1/2NPT-1/2NPT	1738370000	C.58	ADAP EX M40-M40	1738110000	C.59	Cabrite KT 13 b	1827900000	D.3	DAE M12 PA short	1868560000	C.60
ADAP EX 1 1/2NPT-1NPT	1738680000	C.58	ADAP EX M50-1 1/4NPT	1738850000	C.59	Cabrite KT 14	1826570000	D.3	DAE M12 SS	1868550000	C.61
ADAP EX 1 1/2NPT-3/4NPT	1738530000	C.58	ADAP EX M50-1/2NPT	1738440000	C.59	Cabrite KT 15	1826580000	D.3	DG D0 PT6	4323240000	F.15
ADAP EX 1 1/4-1 1/4NPT	1738810000	C.58	ADAP EX M50-1NPT	1738730000	C.59	Cabrite KT 15 b	1827920000	D.3	DMS MANUELL 0,5-1,7	9918370000	G.11
ADAP EX 1 1/4NPT-1/2	1738920000	C.58	ADAP EX M50-3/4NPT	1738660000	C.59	Cabrite KT 16	1825950000	D.3	DMS MANUELL 2,0-8,0	9918380000	G.11
ADAP EX 1 1/4NPT-1/2NPT	1738380000	C.58	ADAP EX M50-M16	1737520000	C.59	Cabrite KT 16 b	1827950000	D.3	DMSI MANUELL 0,5-1,7	9918390000	G.12
ADAP EX 1 1/4NPT-1NPT	1738690000	C.58	ADAP EX M50-M20	1737680000	C.59	Cabrite KT 17	1826300000	D.3	DMSI MANUELL 2,0-8,0	9918400000	G.12
ADAP EX 1 1/4NPT-3/4NPT	1738540000	C.58	ADAP EX M50-M32	1737980000	C.59	Cabrite KT 18	1826310000	D.3			
ADAP EX 1 2/2NPT-3/4NPT	1738570000	C.58	ADAP EX M50-M40	1738100000	C.59	Cabrite KT 18 b	1827970000	D.3			
ADAP EX 1 2/2NPT-M16	1737490000	C.58	ADAP EX M50-M63	1738280000	C.59	Cabrite KT 19	1826320000	D.3			
ADAP EX 1/2NPT-M20	1737650000	C.58	ADAP EX M63-1 1/2NPT	1738940000	C.59	Cabrite KT 19 b	1827980000	D.3			
ADAP EX 1/2NPT-M25	1737810000	C.58	ADAP EX M63-1 1/4NPT	1738840000	C.59	Cabrite KT 2/4	1826620000	D.3			
ADAP EX 1NPT-1 1/4NPT	1738820000	C.58	ADAP EX M63-1/2NPT	1738430000	C.59	Cabrite KT 2/4 b	1828130000	D.3			
ADAP EX 1NPT-1/2NPT	1738390000	C.58	ADAP EX M63-1NPT	1738720000	C.59	Cabrite KT 2/5	1826630000	D.3			
ADAP EX 1NPT-1NPT	1738700000	C.58	ADAP EX M63-2 1/2NPT	1739080000	C.59	Cabrite KT 2/5 b	1828140000	D.3			
ADAP EX 1NPT-3/4NPT	1738550000	C.58	ADAP EX M63-3/4NPT	1738590000	C.59	Cabrite KT 2/6	1826640000	D.3			
ADAP EX 1NPT-M20	1737630000	C.58	ADAP EX M63-M16	1737510000	C.59	Cabrite KT 2/6 b	1828150000	D.3			
ADAP EX 1NPT-M25	1737790000	C.58	ADAP EX M63-M20	1737670000	C.59	Cabrite KT 20	1826330000	D.3			
ADAP EX 1NPT-M40	1738070000	C.58	ADAP EX M63-M25	1737830000	C.59	Cabrite KT 20 b	1827990000	D.3			
ADAP EX 2 1/2-2 1/2NPT	1739050000	C.58	ADAP EX M63-M32	1737970000	C.59	Cabrite KT 21	1826340000	D.3			
ADAP EX 2 1/2NPT-1 1/2	1738890000	C.58	ADAP EX M63-M40	1738090000	C.59	Cabrite KT 21 b	1828000000	D.3			
ADAP EX 2 1/2NPT-1 1/4	1738780000	C.58	ADAP EX M63-M50	1738190000	C.59	Cabrite KT 22	1826350000	D.3			
ADAP EX 2 1/2NPT-1/2	1738350000	C.58	ADAP EX M63-M75	1738330000	C.59	Cabrite KT 22 b	1828010000	D.3			
ADAP EX 2 1/2NPT-1NPT	1738660000	C.58	ADAP EX M75-1 1/2NPT	1738930000	C.59	Cabrite KT 23	1826360000	D.3			
ADAP EX 2 1/2NPT-2NPT	1738980000	C.58	ADAP EX M75-1 1/4NPT	1738830000	C.59	Cabrite KT 23 b	1828020000	D.3			
ADAP EX 2 1/2NPT-3/4NPT	1738510000	C.58	ADAP EX M75-1/2NPT	1738420000	C.59	Cabrite KT 24	1826370000	D.3			
ADAP EX 2 1/2NPT-3NPT	1739100000	C.58	ADAP EX M75-1NPT	1738710000	C.59	Cabrite KT 24 b	1828030000	D.3			
ADAP EX 2 1/2NPT-M16	1737430000	C.58	ADAP EX M75-2 1/2NPT	1739070000	C.59	Cabrite KT 25	1826380000	D.3			
ADAP EX 2 1/2NPT-M20	1737590000	C.58	ADAP EX M75-2NPT	1739100000	C.59	Cabrite KT 25 b	1828040000	D.3			
ADAP EX 2 1/2NPT-M25	1737750000	C.58	ADAP EX M75-3/4NPT	1738580000	C.59	Cabrite KT 26	1826390000	D.3			
ADAP EX 2 1/2NPT-M32	1737900000	C.58	ADAP EX M75-3NPT	1739110000	C.59	Cabrite KT 26 b	1828050000	D.3			
ADAP EX 2 1/2NPT-M40	1738030000	C.58	ADAP EX M75-M16	1737500000	C.59	Cabrite KT 27	1826400000	D.3			
ADAP EX 2 1/2NPT-M50	1738140000	C.58	ADAP EX M75-M20	1737660000	C.59	Cabrite KT 27 b	1828060000	D.3			
ADAP EX 2 1/2NPT-M63	1738230000	C.58	ADAP EX M75-M25	1737820000	C.59	Cabrite KT 28	1826410000	D.3			
ADAP EX 2 1/2NPT-M75	1738300000	C.58	ADAP EX M75-M32	1737960000	C.59	Cabrite KT 28 b	1828070000	D.3			
ADAP EX 2 NPT-1 1/2NPT	1738900000	C.58	ADAP EX M75-M40	1738080000	C.59	Cabrite KT 29	1826420000	D.3			
ADAP EX 2 NPT-1 1/4NPT	1738790000	C.58	ADAP EX M75-M50	1738180000	C.59	Cabrite KT 29 b	1828080000	D.3			
ADAP EX 2 NPT-1/2NPT	1738360000	C.58	ADAP EX M75-M63	1738260000	C.59	Cabrite KT 3	1826460000	D.3			
ADAP EX 2 NPT-1NPT	1738670000	C.58	ADAPAP EX 1/2NPT-1/2NPT	1738410000	C.58	Cabrite KT 3 b	1827790000	D.3			
ADAP EX 2 NPT-2 1/2NPT	1739060000	C.58				Cabrite KT 30	1826430000	D.3			
ADAP EX 2NPT-2NPT	1738990000	C.58				Cabrite KT 30 b	1828090000	D.3			
ADAP EX 2NPT-3/4NPT	1738520000	C.58				Cabrite KT 32	1826440000	D.3			
ADAP EX 2NPT-M16	1737440000	C.58				Cabrite KT 34	1826510000	D.3			
ADAP EX 2NPT-M20	1737600000	C.58				Cabrite KT 34 b	1828110000	D.3			
ADAP EX 2NPT-M25	1737770000	C.58				Cabrite KT 4	1826470000	D.3			
ADAP EX 2NPT-M32	1737910000	C.58				Cabrite KT 4 b	1827800000	D.3			
ADAP EX 2NPT-M40	1738040000	C.58				Cabrite KT 4/5	1826650000	D.3			
ADAP EX 2NPT-M50	1738150000	C.58				Cabrite KT 4/5 b	1828160000	D.3			
ADAP EX 2NPT-M63	1738240000	C.58				Cabrite KT 5	1826480000	D.3			
ADAP EX 2NPT-M75	1738310000	C.58				Cabrite KT 5 b	1827810000	D.3			
ADAP EX 3/4NPT-1/2NPT	1738400000	C.58				Cabrite KT 6	1826490000	D.3			
ADAP EX 3/4NPT-3/4NPT	1738560000	C.58				Cabrite KT 6 b	1827830000	D.3			
ADAP EX 3/4NPT-M20	1737640000	C.58				Cabrite KT 7	1826550000	D.3			
ADAP EX 3/4NPT-M25	1737780000	C.58				Cabrite KT 7 b	1827840000	D.3			
ADAP EX 3NPT-1 1/2NPT	1738880000	C.58				Cabrite KT 8	1826510000	D.3			
ADAP EX 3NPT-1 1/4NPT	1738870000	C.58				Cabrite KT 8 b	1827850000	D.3			
ADAP EX 3NPT-1/2NPT	1738830000	C.58				Cabrite KT 9	1826520000	D.3			
ADAP EX 3NPT-1NPT	1738850000	C.58				Cabrite KT 9 b	1827860000	D.3			
ADAP EX 3NPT-2 1/2NPT	1739040000	C.58				Cabrite KT ASI	1826610000	D.3			
ADAP EX 3NPT-2NPT	1738970000	C.58				Cabrite KT ASI b	1828120000	D.3			
ADAP EX 3NPT-3/4NPT	1738500000	C.58				Cabrite KT BTG b	1828210000	D.3			
ADAP EX 3NPT-3NPT	1739090000	C.58				Cabrite KT BTk b	1828200000	D.3			
ADAP EX 3NPT-M16	1737420000	C.58				Cabrite KT 16	1826590000	D.3			
ADAP EX 3NPT-M20	1737580000	C.58				Cabrite KT 16 b	1827930000	D.3			
ADAP EX 3NPT-M25	1737740000	C.58				Cabrite KTs 17	1826600000	D.3			
ADAP EX 3NPT-M32	1737890000	C.58				Cabrite KTs 17 b	1827940000	D.3			
ADAP EX 3NPT-M40	1738020000	C.58				Cabrite KVT 25	1826660000	D.10			
ADAP EX 3NPT-M50	1738130000	C.58				Cabrite KVT 32	1826670000	D.10			
ADAP EX 3NPT-M63	1738220000	C.58				Cabrite KVT 63/1	1828240000	D.10			
ADAP EX 3NPT-M75	1738290000	C.58				Cabrite KVT 63/4	1828230000	D.10			
ADAP EX M16-M20	1737730000	C.59				CABITE KEL-B1	1048170000	D.6			
ADAP EX M20-1/2NPT	1737840000	C.59				CABITE KEL-B4	1048180000	D.6			
ADAP EX M30-3/4NPT	1738640000	C.59				CABITE KEL-DP 24/14	1039850000	D.7			
ADAP EX M20-M16	1737560000	E.10				CABITE KEL-DP 32/17	1040310000	D.7			
ADAP EX M20-M20	1737720000	C.59				CABITE KEL-DP 32/10	1039870000	D.7			
ADAP EX M20-M25	1737880000	C.59				CABITE KEL-DP 24/17	1039870000	D.7			
ADAP EX M25-1NPT	1738760000	C.59				CABITE KEL-DP 24/19	1039890000	D.7			
ADAP EX M25-3/4NPT	1738630000	C.59				CABITE KEL-DP 24/26	1039930000	D.7			
ADAP EX M25-M16	1737550000	E.16				CABITE KEL-DP 24/48	1039940000	D.7			
ADAP EX M25-M20	1737710000	C.59				CABITE KEL-DP 24/50	1039950000	D.7			
ADAP EX M25-M32	1738010000	C.59				CABITE KEL-DP 32/10	1040310000	D.7			
ADAP EX M32-1 1/4NPT	1738870000	C.59				CABITE KEL-DP 32/10/2	1040310000	D.7			
ADAP EX M32-1/2NPT	1738460000	C.59				CABITE KEL-DP 50/12	1040160000	D.7			
ADAP EX M32-1NPT	1738710000	C.59				CABITE KEL-DP 50/16	1040350000	D.7			
ADAP EX M32-M16	1737710000	C.59				CABITE KEL-DP 50/16/2	1040180000	D.7			
ADAP EX M32-M32	1738010000	C.59				CABITE KEL-DP 50/18	1040360000	D.7			
ADAP EX M32-M40	1738120000	C.59				CABITE KEL-DP 50/18/2	1040210000	D.7			
ADAP EX M32-M16	1737550000	C.59				CABITE KEL-DP 50/20	1040370000	D.7			
ADAP EX M25-M20	1737710000	E.16				CABITE KEL-DP 50/					

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
GWDR PG36-PO	1719510000	C.42	KDSU M63 BN O SC 1 G63S	1076200000	C.21	KDSW M50 BN L NI 1 G50S	1074890000	C.30	KDSX M50 BS O SC 1 G50S	1135780000	C.31
GWDR PG42-NP	1719620000	C.43	KDSU M63 BN O SC 2 G63	1909370000	C.21	KDSW M50 BN L NI 2 G50	1074930000	C.30	KDSX M50 BS O SC 2 G50	1135810000	C.31
GWDR PG42-PO	1719520000	C.42	KDSU M63 BN O SC 2 G63S	1909360000	C.21	KDSW M50 BN L NI 2 G50S	1074910000	C.30	KDSX M50 BS O SC 2 G50S	1135790000	C.31
GWDR PG48-NP	1719630000	C.43	KDSU M63 BS O NI 1 G63	1137050000	C.24	KDSW M50 BN L SC 1 G50	1076400000	C.29	KDSX M63 BS O NI 1 G63	1136090000	C.32
GWDR PG48-PO	1719530000	C.42	KDSU M63 BS O NI 1 G63S	1137030000	C.24	KDSW M50 BN L SC 1 G50S	1076380000	C.29	KDSX M63 BS O NI 1 G63S	1136070000	C.32
GWDR PG7-NP	1719540000	C.43	KDSU M63 BS O NI 2 G63	0930091222	C.24	KDSW M50 BN L SC 2 G50	1076410000	C.29	KDSX M63 BS O NI 2 G63	1136110000	C.32
GWDR PG7-PO	1719440000	C.42	KDSU M63 BS O NI 2 G63S	1137040000	C.24	KDSW M50 BN L SC 2 G50S	1076390000	C.29	KDSX M63 BS O NI 2 G63S	1136080000	C.32
GWDR PG9-NP	1719550000	C.43	KDSU M63 BS O SC 1 G63	1136940000	C.23	KDSW M50 BN O NI 1 G50	1075180000	C.26	KDSX M63 BS O SC 1 G63	1135840000	C.31
GWDR PG9-PO	1719450000	C.42	KDSU M63 BS O SC 1 G63S	1136920000	C.23	KDSW M50 BN O NI 1 G50S	1075160000	C.26	KDSX M63 BS O SC 1 G63S	1135820000	C.31
<b>H</b>											
HG FPC	9535990000	B.132	KDSU M63 BS O SC 2 G63	1136950000	C.23	KDSW M50 BN O NI 2 G50	1075190000	C.26	KDSX M63 BS O SC 2 G63	1135850000	C.31
HG K-POK	1508360000	B.78	KDSU M75 BN O NI 1 G75	1083420000	C.22	KDSW M50 BN O NI 2 G50S	1075170000	C.26	KDSX M63 BS O SC 2 G63S	1135830000	C.31
HG MPC	9535590000	B.124	KDSU M75 BN O NI 1 G75S	1083400000	C.22	KDSW M50 BN O SC 1 G50	1074640000	C.25	KDSX M75 BS O NI 1 G75S	1136140000	C.32
<b>I</b>											
IE-KO-HAT	1966810000	G.5	KDSU M75 BN O NI 1 G75S	1083410000	C.22	KDSW M50 BN O SC 2 G50	1074650000	C.25	KDSX M75 BS O NI 2 G75S	1136150000	C.32
IE-KOK-V1	1966780000	G.6	KDSU M75 BN O NI 1 G75S	1137060000	C.24	KDSW M50 BN O SC 2 G50S	1074630000	C.25	KDSX M75 BS O NI 2 G75S	1136130000	C.32
IE-KOK-V4	1966790000	G.6	KDSU M75 BN O NI 1 G75S	1137070000	C.24	KDSW M50 BN O SC 1 G50	1136510000	C.27	KL SET 10A 4 S	8000004145	E.7
IE-KOK-V5	9204790000	G.6	KDSU M75 BN O NI 1 G75S	1136980000	C.23	KDSW M50 BN O SC 1 G50S	1136280000	C.27	KL SET 12W 4 S	8000003444	E.5
IS 2 KG	1806630000	G.20	KDSU M75 BN O SC 1 G75S	1136990000	C.23	KDSW M50 BN O SC 2 G50	1136320000	C.27	KL SET 13A 4 S	8000004134	E.5
IS 3 KG	1806650000	G.20	KDSU M75 BN O SC 1 G75S	1136980000	C.23	KDSW M50 BN O SC 2 G50S	1136290000	C.27	KL SET 14Z 2.5 S	8000004133	E.5
IS 4 DIN 6911	0485100000	G.20	KDSU M75 BN O SC 1 G75S	1136960000	C.23	KDSW M63 BN L NI 1 G63S	1074940000	C.30	KL SET 1524 S	8000004141	E.5
IS 4 KG	1806660000	G.20	KDSU M75 BN O SC 2 G75	0930111212	C.23	KDSW M63 BN L NI 2 G63	1074970000	C.30	KL SET 18A 4 S	8000004146	E.7
IS 6 DIN 6911	0407900000	G.20	KDSU M75 BN O SC 2 G75S	1136970000	C.23	KDSW M63 BN L NI 2 G63S	1074950000	C.30	KL SET 18W 4 S	8000004140	E.5
IS 8 DIN 6911	0235000000	G.20	KDSU M20 BN L NI 1 G16	1083280000	C.22	KDSW M63 BN L NI 2 G63S	1074640000	C.29	KL SET 21A 4 S	8000004137	E.5
<b>K</b>											
KDSU M20 BN O NI 1 G16	1083280000	C.22	KDSU M20 BN L NI 1 G16	1083320000	C.22	KDSW M63 BN L NI 1 G63	1075230000	C.26	KL SET 21W 4 S	8000004138	E.5
KDSU M20 BN O NI 1 G20	1083320000	C.22	KDSU M20 BN L NI 1 G20S	1083290000	C.22	KDSW M63 BN L NI 1 G63S	1075210000	C.26	KL SET 22Z 5 S	8000004130	E.5
KDSU M20 BN O NI 2 G16	1911380000	C.22	KDSU M20 BN O NI 2 G20	1911400000	C.22	KDSW M63 BN L NI 2 G63	1075220000	C.26	KL SET 644 S	8000004144	E.7
KDSU M20 BN O NI 2 G20	1911400000	C.22	KDSU M20 BN O NI 2 G20S	1911390000	C.22	KDSW M63 BN L NI 2 G63S	1074730000	C.25	KL SET 924 S	8000003445	E.5
KDSU M20 BN O SC 1 G16	1076120000	C.21	KDSU M20 BN L SC 2 G20	1076310000	C.29	KDSW M63 BN L SC 2 G63	1074750000	C.25	KL SET KLIPPON POK1 BK4	8000004365	E.7
KDSU M20 BN O SC 1 G20	1076140000	C.21	KDSU M20 BN L SC 2 G20S	1076290000	C.29	KDSW M63 BN L SC 2 G63S	1074710000	C.25	KL SET KLIPPON POK2 BK6	8000004366	E.7
KDSU M20 BN O SC 1 G20S	1076130000	C.21	KDSU M20 BN L SC 2 G20S	1074740000	C.30	KDSW M63 BN O NI 1 G63S	1136630000	C.27	KL SET KLIPPON POK3BK12	8000004367	E.7
KDSU M20 BN O SC 1 G20S	1076130000	C.21	KDSU M20 BN L SC 1 G16	1076250000	C.29	KDSW M63 BN O NI 1 G63S	1075240000	C.26	KLIPPON K MF KIT 16	9529080000	B.86
KDSU M20 BN O SC 2 G16	1909260000	C.21	KDSU M20 BN L SC 1 G20	1076300000	C.29	KDSW M63 BN O NI 1 G63S	1136580000	C.28	KLIPPON KO	0573200000	B.74
KDSU M20 BN O SC 2 G20	1909300000	C.21	KDSU M20 BN L SC 1 G20S	1075050000	C.26	KDSW M63 BN O NI 2 G63	1075220000	C.26	KLIPPON KO EX	9526810000	B.74
KDSU M20 BN O SC 2 G20S	1909290000	C.21	KDSU M20 BN O NI 1 G16	1075040000	C.26	KDSW M63 BN O SC 1 G63S	1074760000	C.25	KLIPPON RAL7001	9529090000	B.74
KDSU M20 BN O NI 1 G16	0930001221	C.24	KDSU M20 BN O NI 2 G20	1075080000	C.26	KDSW M63 BN O SC 1 G63	1136350000	C.27	KLIPPON RVMQ	1939760000	B.72
KDSU M20 BN O NI 1 G20	0930021221	C.24	KDSU M20 BN O NI 2 G20S	1075060000	C.26	KDSW M63 BN O SC 1 G63S	1136330000	C.27	KLIPPON VMQ RAL7001	1937920000	B.74
KDSU M20 BN O NI 2 G20S	0930012221	C.24	KDSU M20 BN O SC 1 G16	1074480000	C.25	KDSW M63 BN O SC 2 G63	1136360000	C.27	KLIPPON K01	1565240000	E.4
KDSU M20 BN O NI 2 G20S	0930012221	C.24	KDSU M20 BN O SC 1 G20	1074520000	C.25	KDSW M63 BN O SC 2 G63S	1136340000	C.27	KLIPPON K01	1565240000	E.75
KDSU M20 BN O NI 2 G20S	0930021222	C.24	KDSU M20 BN O SC 1 G20S	1074500000	C.25	KDSW M75 BN L NI 1 G75	1075010000	C.30	KLIPPON K01 1M16AB CSS	8000004184	E.5
KDSU M20 BN O NI 2 G20S	0930011224	C.24	KDSU M20 BN O SC 2 G20	1074530000	C.25	KDSW M75 BN L NI 2 G75	1074980000	C.30	KLIPPON K01 EX	9526820000	E.8
KDSU M20 BN O SC 1 G16	0930001211	C.23	KDSU M20 BN O SC 2 G20S	1074510000	C.25	KDSW M75 BN L NI 2 G75	1075020000	C.30	KLIPPON K01 EX	9526820000	E.75
KDSU M20 BN O SC 1 G20	0930021211	C.23	KDSU M20 BN O NI 1 G16	1074610000	C.23	KDSW M75 BN L NI 2 G75S	1074990000	C.30	KLIPPON K01 RAL7001	9529100000	E.8
KDSU M20 BN O SC 1 G20S	0930011213	C.23	KDSU M20 BN O NI 1 G20	1074640000	C.23	KDSW M75 BN L NI 1 G75	1076460000	C.29	KLIPPON K01 RAL7001	9529100000	E.75
KDSU M20 BN O SC 2 G16	0930001212	C.23	KDSU M20 BN O NI 1 G20S	1074630000	C.28	KDSW M75 BN L SC 1 G75S	1076460000	C.29	KLIPPON K01 VMQ	1939540000	B.72
KDSU M20 BN O SC 2 G20	0930021212	C.24	KDSU M20 BN O NI 2 G16	1074620000	C.28	KDSW M75 BN L SC 2 G75	1076490000	C.29	KLIPPON K01 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G20S	0930011214	C.24	KDSU M20 BN O NI 2 G20	1074530000	C.25	KDSW M75 BN L SC 2 G75S	1076470000	C.29	KLIPPON K01 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 1 G16	0930001211	C.23	KDSU M20 BN O NI 2 G20S	1074510000	C.25	KDSW M75 BN L NI 1 G75	1075270000	C.26	KLIPPON K02	1565250000	B.76
KDSU M20 BN O SC 1 G20	0930021211	C.23	KDSU M20 BN O NI 1 G16	1074610000	C.23	KDSW M75 BN L NI 1 G75S	1074790000	C.25	KLIPPON K02 EX	9526830000	B.76
KDSU M20 BN O SC 1 G20S	0930031212	C.23	KDSU M20 BN O NI 1 G20	1074740000	C.23	KDSW M75 BN L NI 1 G75S	1075260000	C.26	KLIPPON K02 RAL7001	9529100000	E.8
KDSU M20 BN O NI 1 G20	1911420000	C.22	KDSU M20 BN O NI 1 G20S	1136410000	C.23	KDSW M75 BN L NI 2 G75	1075260000	C.26	KLIPPON K02 VMQ	1939510000	B.75
KDSU M20 BN O SC 1 G25	1076150000	C.21	KDSU M20 BN O SC 1 G20S	1136430000	C.28	KDSW M75 BN L SC 1 G75	1076460000	C.29	KLIPPON K02 VMQ RAL7001	1937870000	B.76
KDSU M20 BN O SC 2 G25	1076150000	C.21	KDSU M20 BN O NI 1 G20S	1136400000	C.28	KDSW M75 BN L SC 1 G75S	1076460000	C.29	KLIPPON K02 VMQ RAL7001	1937870000	B.76
KDSU M20 BN O SC 2 G25	1076160000	C.21	KDSU M20 BN O NI 1 G20S	1136410000	C.28	KDSW M75 BN L SC 2 G75	1076490000	C.29	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076160000	C.21	KDSU M20 BN O NI 1 G20S	1136420000	C.28	KDSW M75 BN L SC 2 G75S	1076470000	C.29	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136410000	C.28	KDSW M75 BN L SC 2 G75	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136400000	C.28	KDSW M75 BN L SC 2 G75S	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136410000	C.28	KDSW M75 BN L SC 2 G75	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136420000	C.28	KDSW M75 BN L SC 2 G75S	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136430000	C.28	KDSW M75 BN L SC 2 G75	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136440000	C.28	KDSW M75 BN L SC 2 G75S	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136450000	C.28	KDSW M75 BN L SC 2 G75	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136460000	C.28	KDSW M75 BN L SC 2 G75S	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136470000	C.28	KDSW M75 BN L SC 2 G75	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	B.75
KDSU M20 BN O SC 2 G25	1076170000	C.21	KDSU M20 BN O NI 1 G20S	1136480000	C.28	KDSW M75 BN L SC 2 G75S	1075270000	C.26	KLIPPON K02 VMQ RAL7001	1937850000	E.8
KDSU M20 BN O SC 2 G25	1076170000	C.2									

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
KLIPPON K2 VMQ RAL7001	1937930000	E.11	KLIPPON K52 RAL7001	9529230000	B.88	KLIPPON STB 4 SS	1002710000	B.69	KSP L65 S	0930700006	C.49
KLIPPON K2 VMQ RAL7001	1937930000	B.79	KLIPPON K52 VMQ	1939670000	E.18	KLIPPON STB 4 SS E	1058860000	B.69	KSP L80	1736630000	C.48
KLIPPON K21	0573400000	E.4	KLIPPON K52 VMQ	1939670000	B.72	KLIPPON STB 5 MS HT	1025040000	B.70	KSP L80 S	0930700007	C.49
KLIPPON K21	0573400000	B.80	KLIPPON K52 VMO RAL7001	1937740000	E.18	KLIPPON STB 5 SS	1002700000	B.70	KSP L90	1736640000	C.48
KLIPPON K21 3M16AB CSS	8000004152	E.5	KLIPPON K52 VMO RAL7001	1937740000	B.88	KLIPPON STB 5 SS E	1058880000	B.70	KSP L90 S	0930700008	C.49
KLIPPON K21 EX	9526870000	E.12	KLIPPON K6 EX	0342500000	B.89	KLIPPON STB 6 MS HT	1025050000	B.71	KSPA M16 BNI	0887490000	C.55
KLIPPON K21 EX	9526870000	B.80	KLIPPON K6 EX	0342500000	B.89	KLIPPON STB 6 SS	1002760000	B.71	KSPA M20 BNI	0886670000	C.55
KLIPPON K21 M16ACSS EX	8000004212	E.5	KLIPPON K6 RAL7001	9529240000	B.89	KLIPPON STB 6 SS E	1058870000	B.71	KSPA M25 BNI	0886680000	C.55
KLIPPON K21 M16ZCSS EX	8000004211	E.5	KLIPPON K6 VMQ	1939690000	B.72	KOBBS 19X55	9205040000	G.4	KSPA M32 BNI	0886690000	C.55
KLIPPON K21 RAL7001	9529150000	E.12	KLIPPON K6 VMQ RAL7001	1937870000	B.89	KOBBS 19X75	9204780000	G.4	KSPA M40 BNI	0886700000	C.55
KLIPPON K21 RAL7001	9529150000	B.80	KLIPPON K61	0573600000	B.90	KOBBS 9.5X50	9205030000	G.4	KSPA M50 BNI	0886710000	C.55
KLIPPON K21 VMQ	1939590000	E.12	KLIPPON K61 EX	9526970000	B.90	KOHS 19	9205010000	G.4	KSPA M63 BNI	1075370000	C.55
KLIPPON K21 VMQ	1939590000	B.72	KLIPPON K61 RAL7001	9529250000	B.90	KOHS 5.9+19	9205000000	G.4	KSPA M75 BNI	1075380000	C.55
KLIPPON K21 VMO RAL7001	1937830000	E.12	KLIPPON K61 VMQ	1939700000	B.72	KOK-112X36	9204870000	G.6	KSPM M16 BSC	0887490000	C.56
KLIPPON K21 VMO RAL7001	1937830000	B.80	KLIPPON K61 VMQ RAL7001	1937730000	B.90	KOK-46X46	9204810000	G.6	KSPM M16 PL	1209890000	C.57
KLIPPON K3	0342200000	E.4	KLIPPON K7	0342600000	B.91	KOK-52X36	9204820000	G.6	KSPM M16 SSC	0887500000	C.56
KLIPPON K3	0342200000	B.81	KLIPPON K7 EX	9526980000	B.91	KOK-65X36	9204830000	G.6	KSPM M20 BSC	0885410000	C.56
KLIPPON K3 4M20AB CSS	8000004153	E.5	KLIPPON K7 RAL7001	9529260000	B.91	KOK-68X68	9204840000	G.6	KSPM M20 PL	1209910000	C.57
KLIPPON K3 EX	9526880000	E.13	KLIPPON K7 VMQ	1939710000	B.72	KOK-86X36	9204850000	G.6	KSPM M25 BSC	0885420000	C.56
KLIPPON K3 EX	9526880000	B.81	KLIPPON K7 VMQ RAL7001	1937880000	B.91	KOK-91X36	9204860000	G.6	KSPM M25 PL	1209920000	C.57
KLIPPON K3 M20BCSS EX	8000004213	E.5	KLIPPON K71	0573700000	B.92	KOPD 10.0	9205020000	G.5	KSPM M25 SSC	0886730000	C.56
KLIPPON K3 RAL7001	9529160000	E.13	KLIPPON K71 EX	9526990000	B.92	KOS PG 13/M20	9204950000	G.4	KSPM M32 BSC	0885430000	C.56
KLIPPON K3 RAL7001	9529160000	B.81	KLIPPON K71 RAL7001	9529270000	B.92	KOS-M16	9204880000	G.4	KSPM M32 PL	1209930000	C.57
KLIPPON K3 VMQ	1939600000	E.13	KLIPPON K71 VMQ	1939730000	B.72	KOS-M25	9204900000	G.4	KSPM M32 SSC	0886740000	C.56
KLIPPON K3 VMQ	1939600000	B.72	KLIPPON K71 VMQ RAL7001	1937720000	B.92	KOS-M32	9204910000	G.4	KSPM M40 BSC	0885440000	C.56
KLIPPON K3 VMQ RAL7001	1937900000	E.13	Klippon POK 1	1277200000	E.6	KOS-M40	9204920000	G.4	KSPM M40 PL	1209940000	C.57
KLIPPON K3 VMQ RAL7001	1937900000	B.81	Klippon POK 1	1277200000	B.96	KOS-PG11	9204940000	G.4	KSPM M40 SSC	0886750000	C.56
KLIPPON K31	0573500000	E.4	Klippon POK 1 Ex	9510210000	E.19	KOS-PG16	9204960000	G.4	KSPM M50 BSC	0885450000	C.56
KLIPPON K31	0573500000	B.82	Klippon POK 1 Ex	9510210000	B.96	KOS-PG21	9204970000	G.4	KSPM M50 PL	1209950000	C.57
KLIPPON K31 4M20AB CSS	8000004154	E.5	Klippon POK 10	1565440000	B.110	KOS-PG29	9204980000	G.4	KSPM M50 SSC	1075510000	C.56
KLIPPON K31 EX	9526890000	E.14	Klippon POK 10 Ex	9510310000	B.110	KOS-PG36	9204990000	G.4	KSPM M63 BSC	1075480000	C.56
KLIPPON K31 EX	9526890000	B.82	Klippon POK 11	9510530000	B.111	KOS-PG9	9204930000	G.4	KSPM M63 SSC	1075630000	C.56
KLIPPON K31 M20ACSS EX	8000004215	E.5	Klippon POK 11 Ex	9510360000	B.111	KSG M20 BN O NI 2 G16	1911510000	C.33	KSPM M75 BSC	1075490000	C.56
KLIPPON K31 M20ZCSS EX	8000004214	E.5	Klippon POK 12	9510540000	B.112	KSG M20 BN O NI 2 G20	1911560000	C.33	KSPM M75 SSC	1075530000	C.56
KLIPPON K31 RAL7001	9529170000	E.14	Klippon POK 12 Ex	9510370000	B.112	KSG M20 BN O NI 2 G20S	1911540000	C.33	KSWF M16	1076680000	C.45
KLIPPON K31 RAL7001	9529170000	B.82	Klippon POK 2	1277300000	E.6	KSG M20 BN O SC 2 G16	1909380000	C.33	KSWF M20	0899750000	C.45
KLIPPON K31 VMQ	1939610000	E.14	Klippon POK 2	1277300000	B.97	KSG M20 BN O SC 2 G20	1909410000	C.33	KSWF M25	0899770000	C.45
KLIPPON K31 VMQ	1939610000	B.72	Klippon POK 2 Ex	9510220000	E.20	KSG M20 BN O SC 2 G20S	1909400000	C.33	KSWF M32	1076690000	C.45
KLIPPON K31 VMQ RAL7001	1937820000	E.14	Klippon POK 2 Ex	9510220000	B.97	KSG M20 BS O NI 2 G16	0930481222	C.34	KSWF M40	1076710000	C.45
KLIPPON K31 VMQ RAL7001	1937820000	B.82	Klippon POK 3	1277400000	E.6	KSG M20 BS O NI 2 G20	0930501222	C.34	KSWF M50	1076720000	C.45
KLIPPON K32	1565260000	B.83	Klippon POK 3 Ex	9510320000	E.21	KSG M20 BS O NI 2 G20S	0930491224	C.34	KSWF M63	1076730000	C.45
KLIPPON K32 EX	9526900000	B.83	Klippon POK 4	1277500000	E.6	KSG M20 BS O SC 2 G16	0930492122	C.34	KSWF M75	1076740000	C.45
KLIPPON K32 RAL7001	9529180000	B.83	Klippon POK 4 Ex	9510230000	E.22	KSG M20 BS O SC 2 G20	0930501212	C.34	KSWF M96	1192820000	C.45
KLIPPON K32 VMQ	1939620000	B.72	Klippon POK 4 Ex	9510230000	B.101	KSG M20 BS O SC 2 G20S	1136720000	C.34	KSWN M16	1076630000	C.44
KLIPPON K32 VMQ RAL7001	1937810000	B.83	Klippon POK 5	1277600000	B.102	KSG M25 BN O NI 2 G25	0930510222	C.34	KSWN M20	0930730002	C.44
KLIPPON K4	0342300000	E.4	Klippon POK 32 Ex	9510340000	B.100	KSG M25 BN O SC 2 G25	1909420000	C.33	KSWN M25	1076640000	C.44
KLIPPON K4	0342300000	B.84	Klippon POK 4	1277500000	E.6	KSG M25 BS O NI 2 G25	0930511222	C.34	KSWN M32	1076650000	C.44
KLIPPON K4 2M20AB CSS	8000004155	E.5	Klippon POK 4	1277500000	B.101	KSG M25 BS O SC 2 G25	0930511212	C.34	KSWN M40	0899780000	C.44
KLIPPON K4 EX	9526910000	E.15	Klippon POK 4 Ex	9510230000	B.101	KSG M32 BN O NI 2 G32	1911580000	C.33	KSWN M50	0900660000	C.44
KLIPPON K4 EX	9526910000	B.84	Klippon POK 4 Ex	9510230000	B.101	KSG M32 BN O SC 2 G32	1909430000	C.33	KSWN M63	1076660000	C.44
KLIPPON K4 M20WCSS EX	8000004216	E.5	Klippon POK 5	1277600000	B.102	KSG M32 BS O NI 2 G32	0930521222	C.34	KSWN M75	1076700000	C.44
KLIPPON K4 M20ZCSS EX	8000004217	E.5	Klippon POK 5 Ex	9510240000	B.102	KSG M32 BS O NI 2 G50	1909320000	C.33	KTB MH 221513 S4E1	1194560000	B.13
KLIPPON K4 RAL7001	9529190000	E.15	Klippon POK 51	1565410000	E.6	KSG M40 BN O NI 2 G40	1911590000	C.33	KTB MH 221513 S4E2	1194570000	B.13
KLIPPON K4 RAL7001	9529190000	B.84	Klippon POK 51	1565410000	B.103	KSG M40 BN O SC 2 G40	1909440000	C.33	KTB MH 221513 S4E3	1194580000	B.13
KLIPPON K4 VMQ	1939630000	E.15	Klippon POK 51 Ex	9510250000	E.23	KSG M40 BS O NI 2 G40	0930531222	C.34	KTB MH 221513 S4E4	1194590000	B.13
KLIPPON K4 VMQ	1939630000	B.72	Klippon POK 51 Ex	9510250000	B.103	KSG M40 BS O SC 2 G40	0930531212	C.34	KTB MH 262615 S4E1	1194610000	B.14
KLIPPON K4 VMQ RAL7001	1937890000	E.15	Klippon POK 6	1277700000	B.104	KSG M50 BN O NI 2 G50	1911600000	C.33	KTB MH 262615 S4E2	1194620000	B.14
KLIPPON K4 VMQ RAL7001	1937890000	B.84	Klippon POK 6 Ex	9510260000	B.104	KSG M50 BN O NI 2 G50S	1911600000	C.33	KTB MH 262615 S4E3	1194630000	B.14
KLIPPON K41	1565270000	E.4	Klippon POK 7	1277800000	B.105	KSG M50 BN O SC 2 G50	1909460000	C.33	KTB MH 262615 S4E4	1194640000	B.14
KLIPPON K41	1565270000	B.85	Klippon POK 7 Ex	9510270000	B.105	KSG M50 BN O SC 2 G50S	1909450000	C.33	KTB MH 262620 S4E1	1194650000	B.15
KLIPPON K41 EX	1565270000	E.85	Klippon POK 71	9510520000	B.106	KSG M50 BS O NI 2 G50	1136670000	C.34	KTB MH 262620 S4E2	1194660000	B.15
KLIPPON K41 EX	1565270000	B.85	Klippon POK 71 Ex	9510350000	B.106	KSG M50 BS O NI 2 G50S	1136660000	C.34	KTB MH 262620 S4E3	1194680000	B.15
KLIPPON K41 EX	1565270000	B.85	Klippon POK 8	1565420000	B.107	KSG M50 BS O SC 2 G50	0930551212	C.34	KTB MH 262620 S4E4	1194690000	B.15
KLIPPON K41 EX	1565270000	B.85	Klippon POK 8 Ex	9510280000	B.107	KSG M50 BS O SC 2 G50S	0930531200	C.34	KTB MH 303015 S4E1	1194710000	B.16
KLIPPON K41 EX	1565270000	B.85	Klippon POK 9	1565430000	B.108	KSG M63 BN O NI 2 G63	1911630000	C.33	KTB MH 303015 S4E2	1194720000	B.16
KLIPPON K41 M20ZCSS EX	8000003591	E.5	Klippon POK 9 Ex	9510290000	B.108	KSG M63 BN O NI 2 G63S	1911620000	C.33	KTB MH 303015 S4E3	1194730000	B.16
KLIPPON K41 M25WCSS EX	8000003592	E.5	Klippon POK 91	9510470000	B.109	KSG M63 BN O SC 2 G63	1909480000	C.33	KTB MH 303015 S4E4	1194740000	B.16
KLIPPON K41 M25ZCSS EX	8000003593	E.5	Klippon POK 91 Ex	9510300000	B.109	KSG M63 BN O SC 2 G63S	1909470000	C.33	KTB MH 303020 S4E1	1194760000	B.17
KLIPPON K41 RAL7001	9529200000	E.16	Klippon POK1 2M16AB CSS	8000004160	E.7	KSG M63 BS O NI 2 G63	1136690000	C.34	KTB MH 303020 S4E2	1194770000	B.17
KLIPPON K41 RAL7001	9529200000	B.85	Klippon POK1 2M16ACSS EX	8000004223	E.7	KSG M63 BS O SC 2 G63	1136680000	C.34	KTB MH 303020 S4E3	1194780000	B.17
KLIPPON K41 VMQ	1939640000	E.16	Klippon POK1 2M20AB CSS	8000004222	E.7	KSG M63 BS O SC 2 G63	1136750000	C.34	KTB MH 303020 S4E4	1194790000	B.17
KLIPPON K41 VMQ	1939640000	B.72									

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
KTB MH 484820 S4E2	1195170000	B.25	KTB QL 624515 S4E2	1200680000	B.54	MOPL K41 STAHL	3073070000	B.85	MPC 17/25/10 trsp	9535480000	B.128
KTB MH 484820 S4E3	1195180000	B.25	KTB QL 624515 S4E3	1200690000	B.54	MOPL K5 STAHL	3073080000	B.86	MPC 17/25/15 7035	9535490000	B.122
KTB MH 484820 S4E4	1195190000	B.25	KTB QL 624515 S4E4	1200710000	B.54	MOPL K51 STAHL	3073090000	B.87	MPC 17/25/15 trsp	9535500000	B.122
KTB MH 553515 S4E1	1195210000	B.26	KTB QL 624520 S4E1	1200730000	B.55	MOPL K52 STAHL	3073100000	B.88			
KTB MH 553515 S4E2	1195220000	B.26	KTB QL 624520 S4E2	1200740000	B.55	MOPL K6 STAHL	3073110000	B.89			
KTB MH 553515 S4E3	1195230000	B.26	KTB QL 624520 S4E3	1200750000	B.55	MOPL K61 STAHL	3073120000	B.90			
KTB MH 553515 S4E4	1195240000	B.26	KTB QL 624520 S4E4	1200760000	B.55	MOPL K7 STAHL	3073130000	B.91			
KTB MH 553520 S4E1	1195260000	B.27	KTB QL 676015 S4E1	1200780000	B.56	MOPL K71 STAHL	3073140000	B.92			
KTB MH 553520 S4E2	1195270000	B.27	KTB QL 676015 S4E2	1200790000	B.56	MOPL KTB 2215 MSZN	1193930000	B.13			
KTB MH 553520 S4E3	1195280000	B.27	KTB QL 676015 S4E3	1200810000	B.56	MOPL KTB 2215 S2N	1193810000	B.13			
KTB MH 553520 S4E4	1195290000	B.27	KTB QL 676015 S4E4	1200820000	B.56	MOPL KTB 2626 MSZN	1193950000	B.14			
KTB MH 624515 S4E1	1195310000	B.28	KTB QL 676020 S4E1	1200840000	B.57	MOPL KTB 2626 S2N	1193820000	B.14			
KTB MH 624515 S4E2	1195320000	B.28	KTB QL 676020 S4E2	1200850000	B.57	MOPL KTB 3030 MSZN	1193960000	B.16			
KTB MH 624515 S4E3	1195330000	B.28	KTB QL 676020 S4E3	1200860000	B.57	MOPL KTB 3030 S2N	1193880000	B.16			
KTB MH 624515 S4E4	1195340000	B.28	KTB QL 676020 S4E4	1200870000	B.57	MOPL KTB 3526 MSZN	1193970000	B.18			
KTB MH 624520 S4E1	1195360000	B.28	KTB QL 916115 S4E1	1200890000	B.58	MOPL KTB 3526 S2N	1193980000	B.18			
KTB MH 624520 S4E2	1195370000	B.29	KTB QL 916115 S4E2	1200910000	B.58	MOPL KTB 4030 MSZN	1193980000	B.20			
KTB MH 624520 S4E3	1195380000	B.29	KTB QL 916115 S4E3	1200920000	B.58	MOPL KTB 4030 S2N	1193850000	B.20			
KTB MH 624520 S4E4	1195390000	B.29	KTB QL 916115 S4E4	1200930000	B.58	MOPL KTB 4538 MSZN	1193990000	B.22			
KTB MH 765015 S4E1	1195410000	B.30	KTB QL 916120 S4E1	1200950000	B.59	MOPL KTB 4538 S2N	1193860000	B.22			
KTB MH 765015 S4E2	1195420000	B.30	KTB QL 916120 S4E2	1200960000	B.59	MOPL KTB 4848 MSZN	1194000000	B.24			
KTB MH 765015 S4E3	1195430000	B.30	KTB QL 916120 S4E3	1200970000	B.59	MOPL KTB 4848 S2N	1193870000	B.24			
KTB MH 765015 S4E4	1195440000	B.30	KTB QL 916120 S4E4	1200980000	B.59	MOPL KTB 5535 MSZN	1194010000	B.26			
KTB MH 765020 S4E1	1195460000	B.31	KTB QL 987420 S4E1	1201010000	B.60	MOPL KTB 5535 S2N	1193880000	B.26			
KTB MH 765020 S4E2	1195470000	B.31	KTB QL 987420 S4E2	1201020000	B.60	MOPL KTB 6245 MSZN	1194020000	B.28			
KTB MH 765020 S4E3	1195480000	B.31	KTB QL 987420 S4E3	1201030000	B.60	MOPL KTB 6245 S2N	1193890000	B.28			
KTB MH 765020 S4E4	1195490000	B.31	KTB QL 987420 S4E4	1201040000	B.60	MOPL KTB 7650 MSZN	1194030000	B.30			
KTB MH 916115 S4E1	1195510000	B.32	KUB 20 BOS N O NI 1 G16	1095100000	C.36	MOPL KTB 7650 S2N	1193990000	B.30			
KTB MH 916115 S4E2	1195520000	B.32	KUB 20 BOS N O NI 1 G20	1095140000	C.36	MOPL KTB 9161 MSZN	1194040000	B.32			
KTB MH 916115 S4E3	1195530000	B.32	KUB 20 BOS N O NI 1 G20S	1095120000	C.36	MOPL KTB 9161 S2N	1193910000	B.32			
KTB MH 916115 S4E4	1195540000	B.32	KUB 20 BOS N O NI 2 G16	1095110000	C.36	MOPL KTB 9874 MSZN	1194050000	B.34			
KTB MH 916120 S4E1	1195560000	B.33	KUB 20 BOS N O NI 2 G20	1095150000	C.36	MOPL KTB 9874 S2N	1193920000	B.34			
KTB MH 916120 S4E2	1195570000	B.33	KUB 20 BOS N O NI 2 G20S	1095130000	C.36	MOPL SET BK12 S	8000004135	E.5			
KTB MH 916120 S4E3	1195580000	B.33	KUB 20 BOS N O SC 1 G16	1095340000	C.35	MOPL SET BK4 S	8000004124	E.5			
KTB MH 916120 S4E4	1195590000	B.33	KUB 20 BOS N O SC 1 G20	1095380000	C.35	MOPL SET BK6 S	8000004132	E.5			
KTB MH 987420 S4E1	1195610000	B.34	KUB 20 BOS N O SC 1 G20S	1095360000	C.35	MP FPC 20/20	9535920000	B.132			
KTB MH 987420 S4E2	1195620000	B.34	KUB 20 BOS N O SC 2 G16	1095350000	C.35	MP FPC 20/30	9535930000	B.132			
KTB MH 987420 S4E3	1195630000	B.34	KUB 20 BOS N O SC 2 G20	1095390000	C.35	MP FPC 20/40	9535940000	B.133			
KTB MH 987420 S4E4	1195640000	B.34	KUB 20 BOS N O SC 2 G20S	1095370000	C.35	MP FPC 30/30	9535950000	B.133			
KTB QL 221513 S4E1	1199860000	B.39	KUB M25 BOS N O NI 1 G25	1095160000	C.36	MP FPC 30/40	9535960000	B.134			
KTB QL 221513 S4E2	1199870000	B.39	KUB M25 BOS N O NI 2 G25	1095170000	C.36	MP FPC 40/60	9535980000	B.134			
KTB QL 221513 S4E3	1199880000	B.39	KUB M25 BOS N O SC 1 G25	1095400000	C.35	MP MPC 07/12	9535540000	B.124			
KTB QL 221513 S4E4	1199890000	B.39	KUB M25 BOS N O SC 2 G25	1095410000	C.35	MP MPC 12/12	9535550000	B.125			
KTB QL 262615 S4E1	1199910000	B.40	KUB M32 BOS N O NI 1 G32	1095180000	C.36	MP MPC 12/17	9535560000	B.125			
KTB QL 262615 S4E2	1199920000	B.40	KUB M32 BOS N O NI 2 G32	1095190000	C.36	MP MPC 17/17	9535570000	B.127			
KTB QL 262615 S4E3	1199930000	B.40	KUB M32 BOS N O SC 1 G32	1095420000	C.35	MP MPC 17/25	9535580000	B.128			
KTB QL 262615 S4E4	1199940000	B.40	KUB M32 BOS N O SC 2 G32	1095430000	C.35	MP POK 1	9510570000	B.96			
KTB QL 262620 S4E1	1199960000	B.41	KUB M40 BOS N O NI 1 G40	1095200000	C.36	MP POK 10	9510670000	B.110			
KTB QL 262620 S4E2	1199970000	B.41	KUB M40 BOS N O NI 2 G40	1095210000	C.36	MP POK 3	9510680000	B.98			
KTB QL 262620 S4E3	1199980000	B.41	KUB M40 BOS N O SC 1 G40	1095440000	C.35	MP POK 31	9510690000	B.99			
KTB QL 262620 S4E4	1199990000	B.41	KUB M40 BOS N O SC 2 G40	1095450000	C.35	MP POK 32	9510700000	B.100			
KTB QL 303015 S4E1	1200020000	B.42	KUB M50 BOS N O NI 1 G50	1095250000	C.36	MP POK 4	9510590000	B.101			
KTB QL 303015 S4E2	1200030000	B.42	KUB M50 BOS N O NI 1 G50	1095240000	C.36	MP POK 5	9510600000	B.102			
KTB QL 303015 S4E3	1200040000	B.42	KUB M50 BOS N O NI 1 G50S	1095220000	C.36	MP POK 51	9510610000	B.103			
KTB QL 303015 S4E4	1200050000	B.42	KUB M50 BOS N O NI 2 G50S	1095230000	C.36	MP POK 6	9510620000	B.104			
KTB QL 303020 S4E1	1200070000	B.43	KUB M50 BOS N O SC 1 G50	1095480000	C.35	MP POK 7	9510630000	B.105			
KTB QL 303020 S4E2	1200080000	B.43	KUB M50 BOS N O SC 1 G50S	1095460000	C.35	MP POK 71	9510710000	B.106			
KTB QL 303020 S4E3	1200090000	B.43	KUB M50 BOS N O SC 2 G50	1095490000	C.35	MP POK 8+11	9510640000	B.107			
KTB QL 303020 S4E4	1200100000	B.43	KUB M50 BOS N O SC 2 G50S	1095470000	C.35	MP POK 9+12	9510650000	B.108			
KTB QL 352615 S4E1	1200120000	B.44	KUB M63 BOS N O NI 1 G63	1095280000	C.36	MP POK 91	9510660000	B.109			
KTB QL 352615 S4E2	1200130000	B.44	KUB M63 BOS N O NI 1 G63S	1095290000	C.36	MP TBF 19/15	9502720000	B.116			
KTB QL 352615 S4E3	1200140000	B.44	KUB M63 BOS N O NI 2 G63	1095290000	C.36	MP TBF 20/19	3018950000	B.116			
KTB QL 352615 S4E4	1200150000	B.44	KUB M63 BOS N O NI 2 G63S	1095270000	C.36	MP TBF 30/30	9502730000	B.117			
KTB QL 352620 S4E1	1200170000	B.45	KUB M63 BOS N O SC 1 G63	1095520000	C.35	MP TBF 37/30	9502740000	B.117			
KTB QL 352620 S4E2	1200180000	B.45	KUB M63 BOS N O SC 1 G63S	1095500000	C.35	MP TBF 49/30	9500960000	B.118			
KTB QL 352620 S4E3	1200190000	B.45	KUB M63 BOS N O SC 2 G63	1095530000	C.35	MP TBF 56/30	9500956000	B.118			
KTB QL 352620 S4E4	1200210000	B.45	KUB M63 BOS N O SC 2 G63S	1095510000	C.35	MP TBF 60/30	9502750000	B.119			
KTB QL 403015 S4E1	1200230000	B.46	KUB M75 BOS N O NI 1 G75	1095320000	C.36	MP TBF 60/37	9502910000	B.120			
KTB QL 403015 S4E2	1200240000	B.46	KUB M75 BOS N O NI 1 G75S	1095300000	C.36	MP TBF 60/60	9502920000	B.120			
KTB QL 403015 S4E3	1200250000	B.46	KUB M75 BOS N O NI 2 G75	1095310000	C.36	MP TBF 7/12/07 7035	9535170000	B.124			
KTB QL 403015 S4E4	1200260000	B.46	KUB M75 BOS N O NI 2 G75S	1095300000	C.36	MP TBF 7/12/07 trsp	9535180000	B.124			
KTB QL 403020 S4E1	1200280000	B.47	KUB M75 BOS N O SC 1 G75	1095560000	C.35	MP TBF 7/12/10 7035	9535190000	B.122			
KTB QL 403020 S4E2	1200290000	B.47	KUB M75 BOS N O SC 1 G75S	1095540000	C.35	MP TBF 7/12/10 trsp	9535200000	B.122			
KTB QL 403020 S4E3	1200310000	B.47	KUB M75 BOS N O SC 2 G75	1095570000	C.35	MP TBF 7/12/12 7035	9535210000	B.124			
KTB QL 403020 S4E4	1200320000	B.47	KUB M75 BOS N O SC 2 G75S	1095550000	C.35	MP TBF 7/12/12 trsp	9535220000	B.124			
KTB QL 453815 S4E1	1200410000	B.49	KUB M75 BOS N O SC 2 G75S	1095530000	C.35	MP TBF 7/12/17 7035	9535230000	B.125			
KTB QL 453820 S4E2	1200420000	B.49	KUB M75 BOS N O SC 2 G75S	1095520000	C.35	MP TBF					

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SKMU M20 K SW	1736930000	C.38	TS15 114 Klippon K21 CSS	1910020000	E.12	VG 42-EXE SW	1491200000	C.18	VG M40 - K 68	1772330000	C.7
SKMU M20 MS	1737000000	C.39	TS15 114 Klippon K21 CSS	1910020000	B.80	VG 42-EXI BL	1492000000	C.19	VG M40 - MS 1/EMV	1909540000	C.16
SKMU M20 MS SC	0930640002	C.40	TS15 147 Klippon POK3 CSS	1928080000	E.21	VG 42-K68	1569050000	C.7	VG M40 - MS 68	1772250000	C.11
SKMU M25 - K GR	1772470000	C.37	TS15 147 Klippon POK3 CSS	1928080000	B.98	VG 42-MS54	0497700000	C.9	VG M40-1/K68	1909890000	C.7
SKMU M25 K SW	1736940000	C.38	TS15 155 Klippon K3 CSS	1910030000	E.13	VG 42-MS54-ZE	1718880000	C.12	VG M40-1/MS68	1909940000	C.11
SKMU M25 MS	1737010000	C.39	TS15 155 Klippon K3 CSS	1910030000	B.81	VG 42-MS68	1569140000	C.11	VG M40-EXE MS	1737250000	C.20
SKMU M25 MS SC	0930640003	C.40	TS15 164 Klippon K31 CSS	1910040000	E.14	VG 42-SS 68 KB 30-38	1009820000	C.17	VG M40-EXE SW	1737320000	C.18
SKMU M32 - K GR	1772480000	C.37	TS15 164 Klippon K31 CSS	1910040000	B.82	VG 48-EXE MS	1719080000	C.20	VG M40-EXI BL	1737390000	C.19
SKMU M32 K SW	1736950000	C.38	TS15 160 Klippon K1 CSS	1909980000	E.9	VG 48-EXE SW	1718970000	C.18	VG M40-K67	1909730000	C.6
SKMU M32 MS	1737020000	C.39	TS15 60 KLIPPON K1 CSS	1909980000	B.77	VG 48-EXI BL	1718980000	C.19	VG M40-MS54 ZR 23-30	1009590000	C.10
SKMU M32 MS SC	0930640004	C.40	TS15 64 Klippon K11	1909990000	E.10	VG 48-K68	1718770000	C.7	VG M50 - K 68	1772340000	C.7
SKMU M40 - K GR	1772490000	C.37	TS15 64 Klippon K11	1909990000	B.78	VG 48-MS54	1718780000	C.9	VG M50 - MS 1/EMV	1909550000	C.16
SKMU M40 K SW	1736960000	C.38	TS15 68 Klippon POK1 CSS	1928060000	E.19	VG 48-MS54-ZE	1718890000	C.12	VG M50-1/K68	1909900000	C.7
SKMU M40 MS	1737030000	C.39	TS15 68 Klippon POK1 CSS	1928060000	B.97	VG 48-MS68	1718790000	C.11	VG M50-1/MS68	1909950000	C.11
SKMU M40 MS SC	0930640005	C.40	TS15 68 Klippon POK1 CSS	1928060000	B.96	VG 48-SS 68 KB 34-44	1009830000	C.17	VG M50-EXE MS	1737260000	C.20
SKMU M50 - K GR	1772500000	C.37	TS15 90 Klippon K2 CSS	1910010000	E.11	VG 7-EXE MS	1718990000	C.20	VG M50-EXE SW	1737330000	C.18
SKMU M50 K SW	1736970000	C.38	TS15 90 Klippon K2 CSS	1910010000	B.79	VG 7-EXE SW	1569360000	C.18	VG M50-EXI BL	1737400000	C.19
SKMU M50 MS	1737040000	C.39	TS15 98 Klippon POK2 CSS	1928070000	E.20	VG 7-K68	1569370000	C.19	VG M50-K67	1909740000	C.6
SKMU M50 MS SC	0930640006	C.40	TS15/215 POK 32	1928100000	B.100	VG 7-MS54	0521500000	C.9	VG M50-MS54 ZR 32-40	1009600000	C.10
SKMU M63 - K GR	1772510000	C.37	TS35 105 Klippon K41/POK4	1910070000	E.6	VG 7-MS54-ZE	1718880000	C.12	VG M63 - MS 1/EMV	1909560000	C.16
SKMU M63 K SW	1736980000	C.38	TS35 105 Klippon K41/POK4	1910070000	E.16	VG 7-MS68	1569600000	C.11	VG M63 - MS 68	1772270000	C.11
SKMU M63 MS	1737050000	C.39	TS35 105 Klippon K41/POK4	1910070000	B.85	VG 7-SS 68 KB 3-6.5	1009740000	C.17	VG M63-1/K68	1772350000	C.7
SKMU M63 MS SC	0930640007	C.40	TS35 64 Klippon K4K11	1910060000	E.15	VG 9-EXE MS	1719000000	C.20	VG M63-EXE MS	1737270000	C.20
SKMU M75 MS	1737060000	C.39	TS35 64 Klippon K4K11	1910060000	B.84	VG 9-EXE SW	1490500000	C.18	VG M63-EXE SW	1737340000	C.18
SKMU M75 MS SC	0930640008	C.40	TS35 POK4 Set	1928110000	B.101	VG 9-EXI BL	1491300000	C.19	VG M63-K67	1909750000	C.6
SKMU M80 MS SC	0930640009	C.40	TS35 POK51 Set	1928130000	B.103	VG 9-K68	1568990000	C.7	VG EMV 1M8X1.5	1706920000	C.15
SKMU M85 MS SC	0930640010	C.40	TS35/140 Klippon K52 POK51	1910100000	E.6	VG EMV 1M8X1.5	1706940000	C.15	VG PG11-K67	1909780000	C.6
SKMU M90 MS SC	0930640011	C.40	TS35/140 Klippon K52 POK51	1910100000	E.18	VG EMV 9-K68 SKS	1720480000	C.8	VG PG13.5-K67	1909790000	C.6
SKMU PG 13.5-K GR	1697470000	C.37	TS35/140 Klippon K52 POK51	1910100000	B.88	VG 9-MS54	0261500000	C.9	VG PG16-K67	1909800000	C.6
SKMU PG11-K GR	1697460000	C.37	TS35/148 KLIPPON K5 CSS	1910080000	E.17	VG 9-MS54-ZE	1718810000	C.12	VG PG16-MS54 ZR 7.5-15	1009620000	C.10
SKMU PG11-K SW	1719120000	C.38	TS35/148 KLIPPON K5 CSS	1910080000	B.86	VG 9-M568	1569700000	C.11	VG PG21-K67	1909810000	C.6
SKMU PG11-MS	1694090000	C.39	TS35/172 KLIPPON K6 CSS	1910100000	B.89	VG 9-SS 68 KB 4-8	1009750000	C.17	VG PG21-MS54 ZR 10-19	1009630000	C.10
SKMU PG13.5-K SW	1719130000	C.38	TS35/203 KLIPPON K51 POK5	1910090000	B.87	VG EMV 1M8X1.5	1706920000	C.15	VG PG29-K67	1909820000	C.6
SKMU PG13.5-MS	1694100000	C.39	TS35/204 POK 5	1928120000	B.102	VG EMV 2M0X1.5	1706940000	C.15	VG PG29-MS54 ZR 18-27	1009640000	C.10
SKMU PG16-K GR	1697480000	C.37	TS35/235 KLIPPON K32 CSS	1910050000	B.83	VG EMV 2M4X1.5	1706930000	C.15	VG PG36-K67	1909830000	C.6
SKMU PG16-K SW	1719140000	C.38	TS35/235 POK 8+11	1928170000	B.107	VG EMV M25X1.5	1706950000	C.15	VG PG36-MS54 ZR 24-33	1009650000	C.10
SKMU PG16-MS	1694110000	C.39	TS35/239 KLIPPON K61 POK6	1910210000	B.90	VG EMV PG 11	1706870000	C.15	VG PG42-K67	1909840000	C.6
SKMU PG21-K GR	1698220000	C.37	TS35/240 POK 6	1928140000	B.104	VG EMV PG 13.5	1706880000	C.15	VG PG42-MS54 ZR 30-39	1009670000	C.10
SKMU PG21-K SW	1719150000	C.38	TS35/260 KLIPPON K71 CSS	1910140000	B.92	VG EMV PG 16 K14	1706890000	C.15	VG PG48-K67	1909850000	C.6
SKMU PG21-MS	1719200000	C.39	TS35/324 KLIPPON K7 CSS	1910130000	B.91	VG EMV PG 16 K18	1713880000	C.15	VG PG7-K67	1909760000	C.6
SKMU PG29-K GR	1698230000	C.37	TS35/340 POK 7	1928150000	B.105	VG EMV PG 21 K18	1706900000	C.15	VG PG9-K67	1909770000	C.6
SKMU PG29-K SW	1719160000	C.38	TS35/380 POK 9+10+12	1928180000	B.108	VG EMV PG 29 K26	1706910000	C.15	VG M12-MS54 ZE BS4-10	1776700000	C.8
SKMU PG29-MS	1719210000	C.39	TS35/540 POK 71	1928160000	B.106	VG EMV PG 29 K29	1713900000	C.15	VG M12-MS54 KB 5.0-7.0	1778410000	C.9
SKMU PG36-K GR	1698240000	C.37	TS35/580 POK 9+91	1928190000	B.109	VG EMV PG 7/9	1713870000	C.15	VG M12-MS54 KB 6.0-8.0	1778400000	C.9
SKMU PG36-K SW	1719170000	C.38				VG EMV PG 9/11	1706860000	C.15	VG M12-MS54 ZE 5.0-7.0	1778420000	C.12
SKMU PG36-MS	1719220000	C.39				VG EMV PG K28	1713890000	C.15	VG M12-SS 68 KB 3-6.5	1009840000	C.17
SKMU PG42-K GR	1698250000	C.37				VG EMV PG K32-27	1770410000	C.15	VG M16-K68 SKS	1776710000	C.8
SKMU PG42-K SW	1719180000	C.38				VG H 20 M20 S	1921720000	C.14	VG M16-MS54 ZE	1778390000	C.9
SKMU PG42-MS	1719230000	C.39				VG H 25 MS	1921740000	C.14	VG M16-MS54 ZE BS4-10	1005190000	C.13
SKMU PG48-K GR	1719090000	C.37				VG H 32 MS	1921760000	C.14	VG M16-MS54 ZE BS4-12	1005200000	C.13
SKMU PG48-K SW	1719190000	C.38				VG H M40 MS	1921770000	C.14	VG M16-MS54 ZE BS6.5-12.5	1005200000	C.13
SKMU PG48-MS	1719240000	C.39				VG H 11-K68	1569900000	C.7	VG M16-SS 68 KB 4-8	1009850000	C.17
SKMU PG7-K GR	1697440000	C.37				VG H 11-MS54	0260700000	C.9	VG M20-K68 SKS 10.0-14.0	1776720000	C.8
SKMU PG7-K SW	1719100000	C.38				VG H 11-MS54-ZE	1718820000	C.12	VG M20-K68 SKS 6.0-12.0	1778860000	C.8
SKMU PG7-MS	1694070000	C.39				VG H 11-M568	1569080000	C.11	VG M20-MS54 KB 10.0-12.0	1778370000	C.9
SKMU PG9-K GR	1697450000	C.37				VG H 11-SS 68 KB 5-10	1009760000	C.17	VG M20-MS54 KB 8.0-10.0	1778380000	C.9
SKMU PG9-K SW	1719110000	C.38				VG H 13-EXE MS	1719020000	C.20	VG M20-MS54 ZE 5.0-7.0	1778420000	C.12
SKMU PG9-MS	1694080000	C.39				VG H 13-EXE SW	1718830000	C.12	VG M20-MS54 ZE 6.0-13.5	1778460000	C.12
SKS 2.0-8.0	9008860000	G.19				VG H 13-EXI BL	1491500000	C.19	VG M20-MS54 ZE BS1	1005210000	C.13
SKS 2.0-8.0 MR	9008870000	G.19				VG H 13-MS54	1569090000	C.7	VG M20-MS54 ZE BS6.5-15	1005220000	C.13
SP 15	3896100000	B.99				VG H 13-MS54-ZE	1718840000	C.12	VG M20-MS54 ZE BS4-10	1005190000	C.13
SP 20	3896200000	B.99				VG H 13-MS54-ZE	1718830000	C.11	VG M20-MS54 ZE BS6.5-12.5	1005200000	C.13
SP 30	3896300000	B.99				VG H 13-MS54-ZE	1718830000	C.12	VG M20-MS54 ZE BS6.5-12.5	1005200000	C.13
SP 30 M	3896310000	B.13				VG H 13-MS568	1569090000	C.11	VG M20-MS54 ZE BS6.5-12.5	1005200000	C.13
SP M6 15 KLIPPON TB	0935150000	B.13				VG H 13-MS568	0261400000	C.9	VG M20-MS54 ZE BS1	1005240000	C.13
SP M6 15 KLIPPON TB	0935150000	B.13				VG H 13-MS568	1569090000	C.11	VG M20-MS54 ZE BS6.5-15	1005220000	C.13
SP M6 20 KLIPPON TB	0935130000	B.13				VG H 13-MS568	1569090000	C.12	VG M20-MS54 ZE BS4-10	1005190000	C.13
SP M6 30 KLIPPON TB	0935140000	B.13				VG H 13-MS568	1569090000	C.11	VG M20-MS54 ZE BS6.5-12.5	1005200000	C.13
SP TBF 15	9503170000	B.116				VG H 13-EXI BL	1491600000	C.19	VG M20-MS54 ZE BS6.5-12.5	1005200000	C.13
SYSTEM 11+1	9009750000	G.18				VG H 16-K68	1569010000	C.7	VG M20-MS54 ZE BS17-27	1005240000	C.13
SZS M16	1736300000	C.50				VG H 16-K68 SKS	1720510000	C.8	VG M20-MS54 ZE BS 13-18	1009880000	C.17
SZS M20	1736310000	C.50				VG H 16-MS54	0261400000	C.9	VG M40-MS54	1778330000	C.9
SZS M25	1736320000	C.50				VG H 16-MS54-ZE	1718840000	C.12	VG M40-MS54 ZE BS9-19	1005230000	C.13
SZS M32	1736330000	C.50				VG H 16-M568	1569100000	C.11	VG M20-SS 68 KB 10-14	177835000	

Type	Order No.	Page
VP 29-K54	0501160000	C.51
VP 29-MS65	0501100000	C.52
VP 36-EXE MS	1719410000	C.54
VP 36-EXE SW	1719310000	C.53
VP 36-K54	0501260000	C.51
VP 36-MS65	0501200000	C.52
VP 42-EXE MS	1719420000	C.54
VP 42-EXE SW	1719320000	C.53
VP 42-K54	0501360000	C.51
VP 42-MS65	0501300000	C.52
VP 48-EXE MS	1719430000	C.54
VP 48-EXE SW	1719330000	C.53
VP 48-K54	1719260000	C.51
VP 48-MS65	1719270000	C.52
VP 7-EXE MS	1719340000	C.54
VP 7-EXE SW	1719280000	C.53
VP 7-K54	1719250000	C.51
VP 7-MS65	0521600000	C.52
VP 9-EXE MS	1719350000	C.54
VP 9-EXE SW	1719290000	C.53
VP 9-K54	0294760000	C.51
VP 9-MS65	0294700000	C.52
VP M12 EXE MS	1210880000	C.54
VP M12 K54	1776930000	C.51
VP M12-MS65	1777720000	C.52
VP M16 EXE MS	1210890000	C.54
VP M16 K54	1776920000	C.51
VP M16-EXE MS	1737140000	E.8
VP M16-EXE SW	1737070000	E.8
VP M16-EXE SW	1737070000	C.53
VP M16-MS65	1777730000	C.52
VP M20 EXE MS	1210900000	C.54
VP M20 K54	1776910000	C.51
VP M20-EXE MS	1737150000	E.9
VP M20-EXE SW	1737080000	E.9
VP M20-EXE SW	1737080000	C.53
VP M20-MS65	1777740000	C.52
VP M25 EXE MS	1210910000	C.54
VP M25 K54	1776900000	C.51
VP M25-EXE SW	1737090000	E.16
VP M25-EXE SW	1737090000	C.53
VP M25-MS65	1777750000	C.52
VP M32 EXE MS	1210920000	C.54
VP M32 K54	1776940000	C.51
VP M32-EXE SW	1737100000	C.53
VP M32-MS65	1777760000	C.52
VP M40 EXE MS	1210930000	C.54
VP M40 K54	1776950000	C.51
VP M40-EXE SW	1737110000	C.53
VP M40-MS65	1777770000	C.52
VP M50 EXE MS	1210940000	C.54
VP M50 K54	1776960000	C.51
VP M50-EXE SW	1737120000	C.53
VP M50-MS65	1777780000	C.52
VP M63 EXE MS	1210950000	C.54
VP M63 K54	1776970000	C.51
VP M63-EXE SW	1737130000	C.53
VP M63-MS65	1777790000	C.52
VP M75 EXE MS	1210960000	C.54

**W**

WK 1/4" C6,3 E6,3	9202510000	G.11
WK IK PH0	9918460000	G.12
WK IK PH1	9918470000	G.12
WK IK PH2	9918480000	G.12
WK IK PZ0	9918490000	G.12
WK IK PZ1	9918500000	G.12
WK IK PZ2	9918510000	G.12
WK K PH0	9918570000	G.11
WK K PH1	9918580000	G.11
WK K PH2	9918590000	G.11
WK K PZ0	9918600000	G.11
WK K PZ1	9918610000	G.11
WK K PZ2	9918620000	G.11
WK S 0,4x2,5	9918520000	G.11
WK S 0,5x3,0	9918530000	G.11
WK S 0,6x3,5	9918540000	G.11
WK S 0,8x4,0	9918550000	G.11
WK S 1,0x5,5	9918560000	G.11
WK SI 0,4x2,5	9918410000	G.12
WK SI 0,5x3,0	9918420000	G.12
WK SI 0,6x3,5	9918430000	G.12
WK SI 0,8x4,0	9918440000	G.12
WK SI 1,0x5,5	9918450000	G.12

Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page
<b>0230000000</b>			<b>0880000000</b>			<b>1000000000</b>			<b>1060000000</b>		
0235000000 IS 8 DIN 6911		G.20	0885410000 KSPM M20 BSC	C.56		1002690000 KLIPPON STB 1 SS	B.64		1058850000 KLIPPON STB 3 SS E	B.68	
<b>0260000000</b>			0885420000 KSPM M25 BSC	C.56		1002700000 KLIPPON STB 5 SS	B.70		1058860000 KLIPPON STB 4 SS E	B.69	
0260700000 VG 11-MS54	C.9		0885430000 KSPM M32 BSC	C.56		1002710000 KLIPPON STB 4 SS	B.69		1058870000 KLIPPON STB 6 SS E	B.71	
0260800000 VG 13,5-MS54	C.9		0885440000 KSPM M40 BSC	C.56		1002720000 KLIPPON STB 3 SS	B.68		1058880000 KLIPPON STB 5 SS E	B.70	
0260900000 VG 21-MS54	C.9		0886690000 KSPA M20 BNI	C.55		1002730000 KLIPPON STB 2,1 SS	B.67				
0261000000 VG 29-MS54	C.9		0886700000 KSPA M32 BNI	C.55		1002740000 KLIPPON STB 2 SS	B.66				
0261400000 VG 16-MS54	C.9		0886710000 KSPA M40 BNI	C.55		1002750000 KLIPPON STB 1,1 SS	B.65				
0261500000 VG 9-MS54	C.9		0886730000 KSPM M50 BNI	C.55		1002760000 KLIPPON STB 6 SS	B.71				
<b>0290000000</b>			0886740000 KSPM M25 SSC	C.56		1005190000 VGM16-MS54ZE BS4-10	C.13				
0294700000 VP 9-MS65	C.52		0886750000 KSPM M40 SSC	C.56		1005200000 VGM16-MS54ZE BS6,5-12,5	C.13				
0294760000 VP 9-K54	C.51		0887480000 KSPM M16 BSC	C.56		1005210000 VGM20-MS54ZE BS1	C.13				
0294800000 VP 11-MS65	C.52		0887490000 KSPA M16 BNI	C.55		1005220000 VGM20-MS54ZE BS6,5-15	C.13				
0294860000 VP 11-K54	C.51		0887500000 KSPM M16 SSC	C.56		1005230000 VGM25-MS54ZE BS9-19	C.13				
0294900000 VP 13,5-MS65	C.52		<b>0890000000</b>			1005240000 VGM32-MS54ZE BS17-27	C.13				
0294960000 VP 13,5-K54	C.51		0899750000 KSWF M20	C.45		1009560000 VG M20-MS54 ZR 4-13	C.10				
0295000000 VP 16-MS65	C.52		0899770000 KSWF M25	C.45		1009570000 VG M25-MS54 ZR 8,5-18	C.10				
0295060000 VP 16-K54	C.51		0899780000 KSWN M40	C.44		1009580000 VG M32-MS54 ZR 16-26	C.10				
0295100000 VP 21-MS65	C.52		<b>0900000000</b>			1009590000 VG M40-MS54 ZR 23-30	C.10				
0295160000 VP 21-K54	C.51		0900660000 KSWN M50	C.44		1009600000 VG M50-MS54 ZR 32-40	C.10				
<b>0340000000</b>			0900670000 VGPG13-MS54ZR7,5-12,5	C.10		1009610000 VGPG15-MS54ZR7,5-12,5	C.10				
0342000000 KLIPPON K1	E.4		0900680000 VGPG21-MS54 ZR 10-19	C.10		1009620000 VG PG16-MS54 ZR 7,5-15	C.10				
0342000000 KLIPPON K1	B.77		0900690000 VGPG21-MS54 ZR 18-27	C.10		1009630000 VG PG21-MS54 ZR 10-19	C.10				
0342100000 KLIPPON K2	E.4		0900700000 VPG42-MS54 ZR 24-33	C.10		1009640000 VG PG29-MS54 ZR 18-27	C.10				
0342100000 KLIPPON K2	B.79		0900710000 VPG42-MS54 ZR 30-39	C.10		1009650000 VPG43-MS54 ZR 24-33	C.10				
0342200000 KLIPPON K3	E.4		1009740000 VG 7-SS 68 KB 3-6,5	C.17		1009660000 VPG44-MS54 ZR 30-39	C.10				
0342200000 KLIPPON K3	B.81		1009750000 VG 9-SS 68 KB 4-8	C.17		1009670000 VPG45-MS54 ZR 30-39	C.10				
0342300000 KLIPPON K4	E.4		1009760000 VG 11-SS 68 KB 5-10	C.17		1009680000 VPG46-MS54 ZR 30-39	C.10				
0342300000 KLIPPON K4	B.84		1009770000 VG 13-SS 68 KB 6-12	C.17		1009690000 VPG47-MS54 ZR 30-39	C.10				
0342400000 KLIPPON K5	E.4		1009780000 VG 16-SS 68 KB 10-14	C.17		1009700000 VPG48-MS54 ZR 30-39	C.10				
0342400000 KLIPPON K5	B.86		1009790000 VG 21-SS 68 KB 13-18	C.17		1009710000 VPG49-MS54 ZR 30-39	C.10				
0342500000 KLIPPON K6	B.89		1009800000 VG 29-SS 68 KB 18-25	C.17		1009720000 VPG50-MS54 ZR 30-39	C.10				
0342600000 KLIPPON K7	B.91		1009810000 VG 36-SS 68 KB 22-32	C.17		1009730000 VPG51-MS54 ZR 30-39	C.10				
<b>0360000000</b>			1009820000 VG 42-SS 68 KB 30-38	C.17		1009740000 VPG52-MS54 ZR 30-39	C.10				
0360100000 TBF 19/15/14 7035	B.116		1009830000 VG 48-SS 68 KB 34-44	C.17		1009750000 VPG53-MS54 ZR 30-39	C.10				
0360200000 TBF 30/19/18 7035	B.116		1009840000 VGM12-SS 68 KB 3-6,5	C.17		1009760000 VPG54-MS54 ZR 30-39	C.10				
0360300000 TBF 30/30/18 7035	B.117		1009850000 VGM16-SS 68 KB 4-8	C.17		1009770000 VPG55-MS54 ZR 30-39	C.10				
0360400000 TBF 37/30/18 7035	B.117		1009860000 VGM20-SS 68 KB 6-12	C.17		1009780000 VPG56-MS54 ZR 30-39	C.10				
0360500000 TBF 60/30/18 7035	B.119		1009870000 VGM25-SS 68 KB 10-14	C.17		1009790000 VPG57-MS54 ZR 30-39	C.10				
0360800000 MF TBF	B.116		1009880000 VGM32-SS 68 KB 13-18	C.17		1009800000 VPG58-MS54 ZR 30-39	C.10				
<b>0400000000</b>			1009890000 VGM40-SS 68 KB 18-25	C.17		1009810000 VPG59-MS54 ZR 30-39	C.10				
0407900000 IS 6 DIN 6911	G.20		1009900000 VGM50-SS 68 KB 22-32	C.17		1009820000 VPG60-MS54 ZR 30-39	C.10				
<b>0430000000</b>			1009910000 VGM63-SS 68 KB 34-44	C.17		1009990000 PTDS 4 DC	F.13				
0433500000 SFNS5 VKMU M5 SW15	B.64		<b>1020000000</b>								
<b>0480000000</b>			1024970000 KLIPPON STB 1 MS HT	B.64							
0485100000 IS 4 DIN 6911	G.20		1024980000 KLIPPON STB 1,1 MS HT	B.65							
<b>0490000000</b>			1024990000 KLIPPON STB 2 MS HT	B.66							
0497600000 VG 36-MS54	C.9		1025010000 KLIPPON STB 2,1 MS HT	B.67							
0497700000 VG 42-MS54	C.9		1025020000 KLIPPON STB 3 MS HT	B.68							
<b>0500000000</b>			1025030000 KLIPPON STB 4 MS HT	B.69							
0500500000 TBF 19/15/14 trsp	B.116		1025040000 KLIPPON STB 5 MS HT	B.70							
0500600000 TBF 30/19/18 trsp	B.116		1025050000 KLIPPON STB 6 MS HT	B.71							
0500700000 TBF 30/30/18 trsp	B.117		<b>1030000000</b>								
0500800000 TBF 37/30/18 trsp	B.117		1039850000 CABITTE KEL-DP 24/14	D.7							
0500900000 TBF 60/30/21 trsp	B.119		1039870000 CABITTE KEL-DP 24/17	D.7							
0501000000 VP 29-MS56	C.52		1039890000 CABITTE KEL-DP 24/19	D.7							
0501160000 VP 29-K54	C.51		1039930000 CABITTE KEL-DP 24/26	D.7							
0501200000 VP 36-MS65	C.52		1039940000 CABITTE KEL-DP 24/48	D.7							
0501260000 VP 36-K54	C.51		1039950000 CABITTE KEL-DP 24/50	D.7							
0501300000 VP 42-MS65	C.52		1039960000 CABITTE KEL-DP 24/52	D.7							
0501360000 VP 42-K54	C.51		1039970000 CABITTE KZL 140 TS35	D.9							
<b>0520000000</b>			1039970000 CABITTE KZL 80 TS35	D.9							
0521500000 VG 7-MS54	C.9		1039990000 CABITTE KZL 39 TS35	D.9							
0521600000 VP 7-MS65	C.52		<b>1040000000</b>								
<b>0570000000</b>			1040030000 CABITTE KZL 140 C	D.9							
0573200000 KLIPPON K0	B.74		1040060000 CABITTE KZL 80 C	D.9							
0573300000 KLIPPON K11	E.4		1040080000 CABITTE KZL 39 C	D.9							
0573300000 KLIPPON K11	B.78		1040120000 CABITTE KEL-DP 32/10/2	D.7							
0573400000 KLIPPON K21	E.4		1040130000 CABITTE KEL-DP 50/9/2	D.7							
0573400000 KLIPPON K21	B.80		1040160000 CABITTE KEL-DP 50/12/2	D.7							
0573500000 KLIPPON K31	E.4		1040180000 CABITTE KEL-DP 50/16/2	D.7							
0573500000 KLIPPON K31	B.82		1040210000 CABITTE KEL-DP 50/18/2	D.7							
0573600000 KLIPPON K61	B.90		1040240000 CABITTE KEL-DP 50/20/2	D.7							
0573700000 KLIPPON K71	B.92		1040310000 CABITTE KEL-DP 32/10	D.7							
<b>1050000000</b>			1040320000 CABITTE KEL-DP 50/9	D.7							
0501700000 EA-RING MS/M32 SC	C.47		1040330000 CABITTE KEL-DP 50/12	D.7							
0503700000 KSP L24 S	C.49		1040400000 CABITTE KEL-DP 50/16	D.7							
0503700000 KSP L30 S	C.49		10404360000 CABITTE KEL-DP 50/18	D.7							
0503700000 KSP L38 S	C.49		10404370000 CABITTE KEL-DP 50/20	D.7							
0503700000 KSP L46 S	C.49		10404810000 CABITTE KEL-B1	D.6							
0503700005 KSP L55 S	C.49		10404818000 CABITTE KEL-B4	D.6							
0503700006 KSP L65 S	C.49		10404819000 CABITTE KEL-SNAP B4	D.6							
0503700007 KSP L80 S	C.49		<b>1050000000</b>								
0503700008 KSP L90 S	C.49		1040530000 CABITTE KEL-DP 50/16	D.7							
0503710001 EA-RING MS/M16 SC	C.47		1040560000 KSPM M63 BNI	C.55							
0503710002 EA-RING MS/M20 SC	C.47		1040570000 KSPM M75 BNI	C.55							
0503710003 EA-RING MS/M25 SC	C.47		1040580000 KSPM M63 BSC	C.56							
0503710004 EA-RING MS/M32 SC	C.47		1040590000 KSPM M75 BSC	C.56							
0503710005 EA-RING MS/M40 SC	C.47		1040600000 KSPM M50 SSC	C.56							
0503710006 EA-RING MS/M50 SC	C.47		1040620000 KSPM M63 SSC	C.56							
0503710007 EA-RING MS/M63 SC	C.47		1040630000 KSPM M75 SSC	C.56							
0503710008 EA-RING MS/M75 SC	C.47		1040640000 KSPM M75 BNI	C.55							
0503730002 KSWN M20	C.44		1040650000 KSPM M75 BNI	C.55							
0935110000 SP M6 10 KLIPPON TB	B.13		1040660000 KSPM M75 BNI	C.55							
0935120000 SP M6 15 KLIPPON TB	B.13		1040670000 KSPM M75 BNI	C.55							

Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page
1076170000	KDSU M40 BN O SC 1 G40	C.21	1095410000	KUB M25 BS O SC 2 G25	C.35	1136340000	KDSW M63 BS O SC 2 G63S	C.27	1194570000	KTB MH 221513 S4E2	B.13
1076180000	KDSU M50 BN O SC 1 G50S	C.21	1095420000	KUB M32 BS O SC 1 G32	C.35	1136350000	KDSW M63 BS O SC 1 G63	C.27	1194580000	KTB MH 221513 S4E3	B.13
1076190000	KDSU M50 BN O SC 1 G50	C.21	1095430000	KUB M32 BS O SC 2 G32	C.35	1136360000	KDSW M63 BS O SC 2 G63	C.27	1194590000	KTB MH 221513 S4E4	B.13
1076200000	KDSU M63 BN O SC 1 G63S	C.21	1095440000	KUB M40 BS O SC 1 G40	C.35	1136370000	KDSW M75 BS O SC 1 G75S	C.27	1194610000	KTB MH 262615 S4E1	B.14
1076210000	KDSU M63 BN O SC 1 G63	C.21	1095450000	KUB M40 BS O SC 2 G40	C.35	1136380000	KDSW M75 BS O SC 2 G75S	C.27	1194620000	KTB MH 262615 S4E2	B.14
1076220000	KDSU M75 BN O SC 1 G75S	C.21	1095460000	KUB M50 BS O SC 1 G50S	C.35	1136390000	KDSW M75 BS O SC 1 G75	C.27	1194630000	KTB MH 262615 S4E3	B.14
1076230000	KDSU M75 BN O SC 2 G75S	C.21	1095470000	KUB M50 BS O SC 2 G50S	C.35	1136400000	KDSW M75 BS O SC 2 G75	C.27	1194640000	KTB MH 262615 S4E4	B.14
1076240000	KDSU M75 BN O SC 1 G75	C.21	1095480000	KUB M50 BS O SC 1 G50	C.35	1136410000	KDSW M20 BS O N1 G16	C.28	1194660000	KTB MH 262620 S4E1	B.15
1076250000	KDSW M20 BN L SC 1 G16	C.29	1095490000	KUB M50 BS O SC 2 G50	C.35	1136420000	KDSW M20 BS O N1 G16	C.28	1194670000	KTB MH 262620 S4E2	B.15
1076260000	KDSU M75 BN O SC 2 G75	C.21	1095500000	KUB M63 BS O SC 1 G63S	C.35	1136430000	KDSW M20 BS O N1 G20S	C.28	1194680000	KTB MH 262620 S4E3	B.15
1076270000	KDSU M20 BN L SC 2 G16	C.29	1095510000	KUB M63 BS O SC 2 G63S	C.35	1136440000	KDSW M20 BS O N1 G20S	C.28	1194690000	KTB MH 262620 S4E4	B.15
1076280000	KDSW M20 BN L SC 1 G20S	C.29	1095520000	KUB M63 BS O SC 1 G63	C.35	1136450000	KDSW M20 BS O N1 G20	C.28	1194710000	KTB MH 303015 S4E1	B.16
1076290000	KDSW M20 BN L SC 2 G20S	C.29	1095530000	KUB M63 BS O SC 2 G63	C.35	1136460000	KDSW M20 BS O N1 G20	C.28	1194720000	KTB MH 303015 S4E2	B.16
1076300000	KDSW M20 BN L SC 1 G20	C.29	1095540000	KUB M75 BS O SC 1 G75S	C.35	1136470000	KDSW M25 BS O N1 G25	C.28	1194730000	KTB MH 303015 S4E3	B.16
1076310000	KDSW M20 BN L SC 2 G20	C.29	1095550000	KUB M75 BS O SC 2 G75S	C.35	1136480000	KDSW M25 BS O N1 G25	C.28	1194740000	KTB MH 303015 S4E4	B.16
1076320000	KDSW M25 BN L SC 1 G25	C.29	1095560000	KUB M75 BS O SC 1 G75	C.35	1136490000	KDSW M32 BS O N1 G32	C.28	1194760000	KTB MH 303020 S4E1	B.17
1076330000	KDSW M25 BN L SC 2 G25	C.29	1095570000	KUB M75 BS O SC 2 G75	C.35	1136510000	KDSW M32 BS O N1 G32	C.28	1194770000	KTB MH 303020 S4E2	B.17
1076340000	KDSW M32 BN L SC 1 G32	C.29				1136520000	KDSW M40 BS O N1 G40	C.28	1194780000	KTB MH 303020 S4E3	B.17
1076350000	KDSW M32 BN L SC 2 G32	C.29				1136530000	KDSW M40 BS O N1 G40	C.28	1194790000	KTB MH 303020 S4E4	B.17
1076360000	KDSW M40 BN L SC 1 G40	C.29				1136540000	KDSW M50 BS O N1 G50S	C.28	1194810000	KTB MH 352615 S4E1	B.18
1076370000	KDSW M40 BN L SC 2 G40	C.29				1136550000	KDSW M50 BS O N1 G50S	C.28	1194820000	KTB MH 352615 S4E2	B.18
1076380000	KDSW M50 BN L SC 1 G50S	C.29				1136560000	KDSW M50 BS O N1 G50	C.28	1194830000	KTB MH 352615 S4E3	B.18
1076390000	KDSW M50 BN L SC 2 G50S	C.29				1136570000	KDSW M50 BS O N1 G50	C.28	1194840000	KTB MH 352615 S4E4	B.18
1076400000	KDSW M50 BN L SC 1 G50	C.29				1136580000	KDSW M63 BS O N1 G63S	C.28	1194860000	KTB MH 352620 S4E1	B.19
1076410000	KDSW M50 BN L SC 2 G50	C.29				1136590000	KDSW M63 BS O N1 G63S	C.28	1194870000	KTB MH 352620 S4E2	B.19
1076420000	KDSW M63 BN L SC 1 G63S	C.29				1136600000	KDSW M63 BS O N1 G63	C.28	1194880000	KTB MH 352620 S4E3	B.19
1076430000	KDSW M63 BN L SC 2 G63S	C.29				1136610000	KDSW M63 BS O N1 G63	C.28	1194890000	KTB MH 352620 S4E4	B.19
1076440000	KDSW M63 BN L SC 1 G63	C.29				1136620000	KDSW M75 BS O N1 G75S	C.28	1194910000	KTB MH 403015 S4E1	B.20
1076450000	KDSW M63 BN L SC 2 G63	C.29				1136630000	KDSW M75 BS O N1 G75S	C.28	1194920000	KTB MH 403015 S4E2	B.20
1076460000	KDSW M75 BN L SC 1 G75S	C.29				1136640000	KDSW M75 BS O N1 G75	C.28	1194930000	KTB MH 403015 S4E3	B.20
1076470000	KDSW M75 BN L SC 2 G75S	C.29				1136650000	KDSW M75 BS O N1 G75	C.28	1194940000	KTB MH 403015 S4E4	B.20
1076480000	KDSW M75 BN L SC 1 G75	C.29				1136660000	KSG M50 BS O N1 G50S	C.34	1194960000	KTB MH 403020 S4E1	B.21
1076490000	KDSW M75 BN L SC 2 G75	C.29				1136670000	KSG M50 BS O N1 G50	C.34	1194970000	KTB MH 403020 S4E2	B.21
1076300000	KSWN M16	C.44				1136680000	KSG M63 BS O N1 G63S	C.34	1194980000	KTB MH 403020 S4E3	B.21
1076640000	KSWN M25	C.44				1136690000	KSG M63 BS O N1 G63	C.34	1194990000	KTB MH 403020 S4E4	B.21
1076650000	KSWN M32	C.44				1136700000	KSG M75 BS O N1 G75S	C.34	1195010000	KTB MH 453815 S4E1	B.22
1076660000	KSWN M63	C.44				1136710000	KSG M75 BS O N1 G75	C.34	1195020000	KTB MH 453815 S4E2	B.22
1076670000	KSWN M75	C.44				1136720000	KSG M20 BS O SC 2 G20S	C.34	1195030000	KTB MH 453815 S4E3	B.22
1076680000	KSWF M16	C.45				1136730000	KSG M50 BS O SC 2 G20S	C.34	1195040000	KTB MH 453815 S4E4	B.22
1076690000	KSWF M32	C.45				1136740000	KSG M63 BS O SC 2 G63S	C.34	1195060000	KTB MH 453820 S4E1	B.23
1076710000	KSWF M40	C.45				1136750000	KSG M63 BS O SC 2 G63	C.34	1195070000	KTB MH 453820 S4E2	B.23
1076720000	KSWF M50	C.45				1136760000	KSG M75 BS O SC 2 G75S	C.34	1195080000	KTB MH 453820 S4E3	B.23
1076730000	KSWF M63	C.45				1136770000	KSG M75 BS O SC 2 G75	C.34	1195090000	KTB MH 453820 S4E4	B.23
1076740000	KSWF M75	C.45				1136870000	KDSU M40 BS O SC 1 G40	C.23	1195110000	KTB MH 484815 S4E1	B.24
1076750000	KSPF EL46	C.48				1136880000	KDSU M50 BS O SC 2 G50S	C.23	1195120000	KTB MH 484815 S4E2	B.24
1076760000	KSPF EL55	C.48				1136890000	KDSU M50 BS O SC 1 G50	C.23	1195130000	KTB MH 484815 S4E3	B.24
1076770000	KSPF EL65	C.48				1136910000	KDSU M50 BS O SC 2 G50	C.23	1195140000	KTB MH 484815 S4E4	B.24
1076780000	KSPF EL80	C.48				1136920000	KDSU M63 BS O SC 1 G63S	C.23	1195160000	KTB MH 484820 S4E1	B.25
1076790000	KSPF EL90	C.48				1136930000	KDSU M63 BS O SC 2 G63S	C.23	1195170000	KTB MH 484820 S4E2	B.25
						1136940000	KDSU M63 BS O SC 1 G63	C.23	1195180000	KTB MH 484820 S4E3	B.25
						1136950000	KDSU M63 BS O SC 2 G63	C.23	1195190000	KTB MH 484820 S4E4	B.25
						1136960000	KDSU M75 BS O SC 1 G75S	C.23	1195200000	KTB MH 484820 S4E5	B.25
						1136970000	KDSU M75 BS O SC 2 G75S	C.23	1195210000	KTB MH 553515 S4E1	B.26
						1136980000	KDSU M75 BS O SC 1 G75	C.23	1195220000	KTB MH 553515 S4E2	B.26
						1136990000	KDSU M40 BS O N1 G40	C.24	1195230000	KTB MH 553515 S4E3	B.26
						1137000000	KDSU M50 BS O N1 G50S	C.24	1195240000	KTB MH 553515 S4E4	B.26
						1137010000	KDSU M50 BS O N1 G50	C.24	1195250000	KTB MH 553520 S4E1	B.27
						1137020000	KDSU M50 BS O N1 G50	C.24	1195260000	KTB MH 553520 S4E2	B.27
						1137030000	KDSU M63 BS O N1 G63S	C.24	1195270000	KTB MH 553520 S4E3	B.27
						1137040000	KDSU M63 BS O N1 G63S	C.24	1195280000	KTB MH 553520 S4E4	B.27
						1137050000	KDSU M63 BS O N1 G63	C.24	1195290000	KTB MH 624515 S4E1	B.28
						1137060000	KDSU M75 BS O N1 G75S	C.24	1195300000	KTB MH 624515 S4E2	B.28
						1137070000	KDSU M75 BS O N1 G75S	C.24	1195310000	KTB MH 624515 S4E3	B.28
						1137080000	KDSU M75 BS O N1 G75	C.24	1195320000	KTB MH 624515 S4E4	B.28
						1137090000	KDSU M75 BS O N1 G75	C.24	1195330000	KTB MH 624515 S4E5	B.28
						1135800000	KDSU M50 BS O SC 1 G50	C.31	1195340000	KTB MH 624515 S4E6	B.28
						1135810000	KDSU M50 BS O SC 2 G50	C.31	1195350000	KTB MH 624520 S4E1	B.29
						1135820000	KDSU M50 BS O SC 1 G50	C.31	1195360000	KTB MH 624520 S4E2	B.29
						1135830000	KDSU M50 BS O SC 2 G50	C.31	1195370000	KTB MH 624520 S4E3	B.29
						1135840000	KDSU M50 BS O SC 1 G50	C.31	1195380000	KTB MH 624520 S4E4	B.29
						1135850000	KDSU M50 BS O SC 2 G50	C.31	1195390000	KTB MH 624520 S4E5	B.29
						1135860000	KDSU M50 BS O SC 1 G50	C.31	1195400000	KTB MH 765015 S4E1	B.30
						1135870000	KDSU M50 BS O SC 2 G50	C.31	1195410000	KTB MH 765015 S4E2	B.30
						1135880000	KDSU M50 BS O SC 1 G50	C.31	1195420000	KTB MH 765015 S4E3	B.30
						1135890000	KDSU M50 BS O SC 2 G50	C.31	1195430000	KTB MH 765015 S4E4	B.30
						1135900000	KDSU M50 BS O SC 1 G50	C.31	1195440000	KTB MH 765015 S4E5	B.30
						1135910000	KDSU M50 BS O SC 2 G50	C.31	1195450000	KTB MH 765020 S4E1	B.31
						1135920000	KDSU M50 BS O SC 1 G50	C.31	1195460000	KTB MH 765020 S4E2	B.31
						1135930000	KDSU M50 BS O SC 2 G50	C.31	1195470000	KTB MH 765020 S4E3	B.31
						1135940000	KDSU M50 BS O SC 1 G50	C.31	1195480000	KTB MH 765020 S4E4	B.31
						1135950000	KDSU M50 BS O SC 2 G50	C.31	1195490000	KTB MH 765020 S4E5	B.31
						1135960000	KDSU M50 BS O SC 1 G50	C.3			



Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page
1737370000	VG M25-EXI BL	C.19	1738580000	ADAP EX M75-3/4NPT	C.59	1777730000	VP M16-MS65	C.52	1827830000	Cabite KT 6 b	D.3
1737380000	VG M32-EXI BL	C.19	1738590000	ADAP EX M63-3/4NPT	C.59	1777740000	VP M20-MS65	C.52	1827840000	Cabite KT 7 b	D.3
1737390000	VG M40-EXI BL	C.19	1738600000	ADAP EX M50-3/4NPT	C.59	1777750000	VP M25-MS65	C.52	1827850000	Cabite KT 8 b	D.3
1737400000	VG M50-EXI BL	C.19	1738610000	ADAP EX M40-3/4NPT	C.59	1777760000	VP M32-MS65	C.52	1827860000	Cabite KT 9 b	D.3
1737410000	VG M63-EXI BL	C.19	1738630000	ADAP EX M25-3/4NPT	C.59	1777770000	VP M40-MS65	C.52	1827870000	Cabite KT 10 b	D.3
1737420000	ADAP EX 3/NPT-M16	C.58	1738640000	ADAP EX M20-3/4NPT	C.59	1777780000	VP M50-MS65	C.52	1827880000	Cabite KT 11 b	D.3
1737430000	ADAP EX 2 1/2NPT-M16	C.58	1738650000	ADAP EX 3/NPT-1NPT	C.58	1777790000	VP M63-MS65	C.52	1827890000	Cabite KT 12 b	D.3
1737440000	ADAP EX 2NPT-M16	C.58	1738660000	ADAP EX 2 1/2NPT-1NPT	C.58	1777920000	GWDR M12-PO	C.42	1827900000	Cabite KT 13 b	D.3
1737490000	ADAP EX 1/2NPT-M16	C.58	1738670000	ADAP EX 2NPT-1NPT	C.58	1777930000	GWDR M16-PO	C.42	1827910000	Cabite KT 14 b	D.3
1737500000	ADAP EX M75-M16	C.59	1738680000	ADAP EX 1 1/2NPT-1NPT	C.58	1777940000	GWDR M20-PO	C.42	1827920000	Cabite KT 15 b	D.3
1737510000	ADAP EX M63-M16	C.59	1738690000	ADAP EX 1 1/4NPT-1NPT	C.58	1777950000	GWDR M25-PO	C.42	1827930000	Cabite KTs 16 b	D.3
1737520000	ADAP EX M50-M16	C.59	1738700000	ADAP EX 1NPT-1NPT	C.58	1777960000	GWDR M32-PO	C.42	1827940000	Cabite KTs 17 b	D.3
1737530000	ADAP EX M40-M16	C.59	1738710000	ADAP EX M75-1NPT	C.59	1777970000	GWDR M40-PO	C.42	1827950000	Cabite KT 16 b	D.3
1737540000	ADAP EX M32-M16	C.59	1738720000	ADAP EX M63-1NPT	C.59	1777980000	GWDR M50-PO	C.42	1827960000	Cabite KT 17 b	D.3
1737550000	ADAP EX M25-M16	E.16	1738730000	ADAP EX M50-1NPT	C.59	1777990000	GWDR M63-PO	C.42	1827970000	Cabite KT 18 b	D.3
1737550000	ADAP EX M25-M16	C.59	1738740000	ADAP EX M40-1NPT	C.59	1778000000	VGM63-MS54	C.9	1827980000	Cabite KT 19 b	D.3
1737560000	ADAP EX M20-M16	E.10	1738750000	ADAP EX M32-1NPT	C.59	1778310000	VGM50-MS54 KB 39,0-41,0	C.9	1827990000	Cabite KT 20 b	D.3
1737560000	ADAP EX M20-M16	C.59	1738760000	ADAP EX M25-1NPT	C.59	1778320000	VGM50-MS54 KB 31,0-33,0	C.9	1828000000	Cabite KT 21 b	D.3
1737580000	ADAP EX 3/NPT-M20	C.58	1738770000	ADAP EX 3NPT-1 1/4NPT	C.58	1778330000	VGM40-MS54	C.9	1828010000	Cabite KT 22 b	D.3
1737590000	ADAP EX 2 1/2NPT-M20	C.58	1738780000	ADAP EX 2 1/2NPT-1 1/4	C.58	1778340000	VGM32-MS54	C.9	1828020000	Cabite KT 23 b	D.3
1737600000	ADAP EX 2NPT-M20	C.58	1738790000	ADAP EX 2NPT-1 1/4NPT	C.58	1778350000	VGM25-MS54 KB 15,0-17,0	C.9	1828030000	Cabite KT 24 b	D.3
1737630000	ADAP EX 1NPT-M20	C.58	1738800000	ADAP EX 1 1/2NPT-1 1/4	C.58	1778360000	VGM25-MS54 KB 12,0-14,0	C.9	1828040000	Cabite KT 25 b	D.3
1737640000	ADAP EX 3/4NPT-M20	C.58	1738810000	ADAP EX 1 1/4-1 1/4NPT	C.58	1778370000	VGM20-MS54 KB 10,0-12,0	C.9	1828050000	Cabite KT 26 b	D.3
1737650000	ADAP EX 1/2NPT-M20	C.58	1738820000	ADAP EX 1NPT-1 1/4NPT	C.58	1778380000	VGM20-MS54 KB 8,0-10,0	C.9	1828060000	Cabite KT 27 b	D.3
1737660000	ADAP EX M75-M20	C.59	1738830000	ADAP EX M75-1 1/4NPT	C.59	1778390000	VGM16-MS54	C.9	1828070000	Cabite KT 28 b	D.3
1737670000	ADAP EX M63-M20	C.59	1738840000	ADAP EX M63-1 1/4NPT	C.59	1778400000	VGM12-MS54 KB 6,0-8,0	C.9	1828080000	Cabite KT 29 b	D.3
1737680000	ADAP EX M50-M20	C.59	1738850000	ADAP EX M50-1 1/4NPT	C.59	1778410000	VGM12-MS54 KB 5,0-7,0	C.9	1828090000	Cabite KT 30 b	D.3
1737690000	ADAP EX M40-M20	C.59	1738870000	ADAP EX M32-1 1/4NPT	C.59	1778420000	VGM12-MS54 ZE 5,0-7,0	C.12	1828100000	Cabite KT 32 b	D.3
1737700000	ADAP EX M32-M20	C.59	1738880000	ADAP EX 3NPT-1 1/2NPT	C.58	1778440000	VGM16-MS54 ZE	C.12	1828110000	Cabite KT 34 b	D.3
1737710000	ADAP EX M25-M20	E.16	1738890000	ADAP EX 2 1/2NPT-1 1/2	C.58	1778450000	VGM20-MS54 ZE	C.12	1828120000	Cabite KT ASI b	D.3
1737710000	ADAP EX M25-M20	C.59	1738900000	ADAP EX 2NPT-1 1/2NPT	C.58	1778460000	VGM20-MS54 ZE 6,0-13,5	C.12	1828130000	Cabite KT 2/4 b	D.3
1737720000	ADAP EX M20-M20	C.59	1738910000	ADAP EX 1 1/2-1 1/2NPT	C.58	1778480000	VGM25-MS54 ZE	C.12	1828140000	Cabite KT 2/5 b	D.3
1737730000	ADAP EX M16-M20	C.59	1738920000	ADAP EX 1 1/4NPT-1 1/2	C.58	1778490000	VGM32-MS54 ZE	C.12	1828150000	Cabite KT 2/6 b	D.3
1737740000	ADAP EX 3NPT-M25	C.58	1738930000	ADAP EX M75-1 1/2NPT	C.59	1778500000	VGM40-MS54 ZE	C.12	1828160000	Cabite KT 4/5 b	D.3
1737750000	ADAP EX 2 1/2NPT-M25	C.58	1738940000	ADAP EX M63-1 1/2NPT	C.59	1778520000	VGM50-MS54 ZE	C.12	1828170000	Cabite BTK	D.3
1737760000	ADAP EX 2NPT-M25	C.58	1738970000	ADAP EX 3NPT-2NPT	C.58	1778530000	VGM63-MS54 ZE	C.12	1828180000	Cabite BTG	D.3
1737790000	ADAP EX 1NPT-M25	C.58	1738980000	ADAP EX 2 1/2NPT-2NPT	C.58	1778660000	VGM20-K68 SKS 6,0-12,0	C.8	1828190000	Cabite ATG	D.3
1737800000	ADAP EX 3/4NPT-M25	C.58	1738990000	ADAP EX 2NPT-2NPT	C.58				1828200000	Cabite KT BTK b	D.3
1737810000	ADAP EX 1/2NPT-M25	C.58	1739010000	ADAP EX M75-2NPT	C.59				1828210000	Cabite KT BTG b	D.3
1737820000	ADAP EX M75-M25	C.59	1739040000	ADAP EX 3NPT-2 1/2NPT	C.58				1828220000	Cabite ATG black	D.3
1737830000	ADAP EX M63-M25	C.59	1739050000	ADAP EX 2 1/2-2 1/2NPT	C.58				1828230000	Cabite KVT 63/4	D.10
1737840000	ADAP EX M50-M25	C.59	1739060000	ADAP EX NPT-2 1/2NPT	C.58				1828240000	Cabite KVT 63/1	D.10
1737850000	ADAP EX M40-M25	C.59	1739070000	ADAP EX M75-2 1/2NPT	C.59				1828250000	Cabite SUBD9	D.10
1737860000	ADAP EX M32-M25	C.59	1739080000	ADAP EX M63-2 1/2NPT	C.59						
1737880000	ADAP EX M20-M25	C.59	1739090000	ADAP EX 3NPT-3NPT	C.58						
1737890000	ADAP EX 3NPT-M32	C.58	1739100000	ADAP EX 2 1/2NPT-3NPT	C.58						
1737910000	ADAP EX 2NPT-M32	C.58	1739110000	ADAP EX M75-3NPT	C.59						
1737950000	ADAP EX 3NPT-M32	C.58									
1737960000	ADAP EX M75-M32	C.59									
1737970000	ADAP EX M63-M32	C.59									
1737980000	ADAP EX M50-M32	C.59									
1737990000	ADAP EX M40-M32	C.59									
1738000000	ADAP EX M25-M32	C.59									
1738020000	ADAP EX 3NPT-M40	C.58									
1738030000	ADAP EX 2 1/2NPT-M40	C.58									
1738040000	ADAP EX 2NPT-M40	C.58									
1738070000	ADAP EX 1NPT-M40	C.58									
1738080000	ADAP EX M75-M40	C.59									
1738090000	ADAP EX M63-M40	C.59									
1738100000	ADAP EX M50-M40	C.59									
1738110000	ADAP EX M40-M40	C.59									
1738120000	ADAP EX M32-M40	C.59									
1738130000	ADAP EX 3NPT-M50	C.58									
1738140000	ADAP EX 2 1/2NPT-M50	C.58									
1738150000	ADAP EX 2NPT-M50	C.58									
1738180000	ADAP EX M75-M50	C.59									
1738190000	ADAP EX M63-M50	C.59									
1738210000	ADAP EX M40-M50	C.59									
1738220000	ADAP EX 3NPT-M63	C.58									
1738230000	ADAP EX 2 1/2NPT-M63	C.58									
1738240000	ADAP EX 2NPT-M63	C.58									
1738260000	ADAP EX M75-M63	C.59									
1738280000	ADAP EX M50-M63	C.59									
1738290000	ADAP EX 3NPT-M75	C.58									
1738300000	ADAP EX 2 1/2NPT-M75	C.58									
1738310000	ADAP EX 2NPT-M75	C.58									
1738330000	ADAP EX M63-M75	C.59									
1738340000	ADAP EX 3NPT-1/2NPT	C.58									
1738350000	ADAP EX 2 1/2NPT-1/2NPT	C.58									
1738360000	ADAP EX 2NPT-1/2NPT	C.58									
1738370000	ADAP EX 1 1/2NPT-1/2NPT	C.58									
1738380000	ADAP EX 1NPT-1/2NPT	C.58									
1738390000	ADAP EX 1NPT-1/2NPT	C.58									
1738400000	ADAP EX 3NPT-1/2NPT	C.58									
1738410000	ADAP EX 2 1/2NPT-1/2NPT	C.58									
1738420000	ADAP EX M75-1/2NPT	C.59									
1738430000	ADAP EX M63-1/2NPT	C.59									
1738440000	ADAP EX M50-1/2NPT	C.59									
1738450000	ADAP EX M40-1/2NPT	C.59									
1738460000	ADAP EX M32-1/2NPT	C.59									
1738480000	ADAP EX M20-1/2NPT	C.59									
1738500000	ADAP EX 3NPT-3/4NPT	C.58									
1738510000	ADAP EX 2 1/2NPT-3/4NPT	C.58									
1738520000	ADAP EX 2NPT-3/4NPT	C.58									
1738530000	ADAP EX 1 1/2NPT-3/4NPT	C.58									

Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page
1909730000	VG M40-K67	C.6	<b>19300000000</b>			<b>38900000000</b>			<b>90000000000</b>		
1909740000	VG M50-K67	C.6	1937630000	KLIPPON K1 VMQ RAL7001	E.9	3896100000	SP 15	B.99	9008320000	SD 0,5x3,0x80	G.17
1909750000	VG M63-K67	C.6	1937630000	KLIPPON K1 VMQ RAL7001	B.77	3896200000	SP 20	B.99	9008330000	SD 0,6x3,5x100	G.17
1909760000	VG PG7-K67	C.6	1937720000	KLIPPON K71 VMQ RAL7001	B.92	3896300000	SP 30	B.99	9008340000	SD 0,8x4,0x100	G.17
1909770000	VG PG9-K67	C.6	1937730000	KLIPPON K61 VMQ RAL7001	B.90				9008350000	SD 1,0x5,5x150	G.17
1909780000	VG PG11-K67	C.6	1937740000	KLIPPON K52 VMQ RAL7001	E.18				9008370000	SDI 0,4x2,5x75	G.15
1909790000	VG PG13,5-K67	C.6	1937740000	KLIPPON K52 VMQ RAL7001	B.88				9008380000	SDI 0,5x3,0x100	G.15
1909800000	VG PG16-K67	C.6	1937750000	KLIPPON K1 VMQ RAL7001	B.87	4323210000	RKDG D11 PT6	F.15	9008390000	SDI 0,6x3,5x100	G.15
1909810000	VG PG21-K67	C.6	1937800000	KLIPPON K41 VMQ RAL7001	E.16	4323220000	RKDG D15 PT6	F.15	9008400000	SDI 0,8x4,0x100	G.15
1909820000	VG PG29-K67	C.6	1937800000	KLIPPON K41 VMQ RAL7001	B.85	4323230000	RKDG D13 PT6	F.15	9008410000	SDI 1,0x5,5x125	G.15
1909830000	VG PG36-K67	C.6	1937810000	KLIPPON K32 VMQ RAL7001	B.83	4323240000	DG DO PT6	F.15	9008420000	SDI 1,2x6,5x150	G.15
1909840000	VG PG42-K67	C.6	1937820000	KLIPPON K31 VMQ RAL7001	E.14	4324010000	RKDG D17 PT6	F.15	9008430000	SDI 1,6x8,0x175	G.15
1909850000	VG PG48-K67	C.6	1937820000	KLIPPON K31 VMQ RAL7001	B.82	4329610000	RKDG D9 PT6	F.15	9008450000	SDIZ 0,6X3,5X100	G.15
1909860000	VG M16-1/K68	C.7	1937830000	KLIPPON K21 VMQ RAL7001	E.12				9008460000	SDIZ 0,8X4,0X100	G.15
1909870000	VG M25-1/K68	C.7	1937830000	KLIPPON K21 VMQ RAL7001	B.80				9008470000	SDK PH0	G.17
1909880000	VG M32-1/K68	C.7	1937840000	KLIPPON K02 VMQ RAL7001	B.76				9008480000	SDK PH1	G.17
1909890000	VG M40-1/K68	C.7	1937850000	KLIPPON K01 VMQ RAL7001	E.8				9008490000	SDK PH2	G.17
1909900000	VG M50-1/K68	C.7	1937850000	KLIPPON K01 VMQ RAL7001	B.75				9008500000	SDK PH3	G.17
1909910000	VG M16-1/MS68	C.11	1937860000	KLIPPON K5 VMO RAL7001	E.17				9008520000	SDK PZO	G.17
1909930000	VG M32-1/MS68	C.11	1937860000	KLIPPON K5 VMO RAL7001	B.86				9008530000	SDK PZ1	G.17
1909940000	VG M40-1/MS68	C.11	1937870000	KLIPPON K6 VMO RAL7001	B.89				9008540000	SDK PZ2	G.17
1909950000	VG M50-1/MS68	C.11	1937880000	KLIPPON K7 VMO RAL7001	B.91				9008550000	SDK PZ3	G.17
1909980000	TS15 60 Klippon K1 CSS	E.9	1937890000	KLIPPON K4 VMO RAL7001	E.15				9008560000	SDK PH0	G.15
1909980000	TS15 60 Klippon K1 CSS	B.77	1937890000	KLIPPON K4 VMO RAL7001	B.84				9008570000	SDK PH1	G.15
1909990000	TS15 64 Klippon K11	E.10	1937900000	KLIPPON K3 VMO RAL7001	E.13				9008580000	SDK PH2	G.15
1909990000	TS15 64 Klippon K11	B.78	1937900000	KLIPPON K3 VMO RAL7001	B.81				9008590000	SDK PH3	G.15
<b>1910000000</b>											
1910010000	TS15 90 Klippon K2 CSS	E.11	1937910000	KLIPPON K11 VMO RAL7001	E.10				9008640000	SDIZ 0,8X5,5 150/248	G.15
1910010000	TS15 90 Klippon K2 CSS	B.79	1937910000	KLIPPON K11 VMO RAL7001	B.78				9008850000	SKS WSD-S 1,5-10,0	G.19
1910020000	TS15 114 Klippon K21 CSS	E.12	1937920000	KLIPPON K0 VMO RAL7001	B.74				9008860000	SKS 2,0-8,0	G.19
1910020000	TS15 114 Klippon K21 CSS	B.80	1937930000	KLIPPON K2 VMO RAL7001	E.11				9008880000	TH-S 9-40	G.19
1910030000	TS15 155 Klippon K3 CSS	E.13	1937940000	KLIPPON K01 VMO	B.72	8000004129	MOPL SET BK4 S	E.5	9008890000	SDK PZ2	G.15
1910030000	TS15 155 Klippon K3 CSS	B.81	1937950000	KLIPPON K2 VMO	E.9	8000004130	KL SET 522,5 S	E.5	9008900000	SDK PZ1	G.15
1910040000	TS15 164 Klippon K31 CSS	E.14	1937950000	KLIPPON K1 VMO	B.72	8000004131	KL SET 54A 5 S	E.5	9008910000	SDI 1,0x4,5x125	G.15
1910040000	TS15 164 Klippon K31 CSS	B.82	1937960000	KLIPPON K3 VMO	E.10	8000004132	MOPL SET BK6 S	E.5	9009100000	SDI 1,2x6,5x150	G.17
1910050000	TS35/235 KLIPPON K32 CSS	B.83	1937960000	KLIPPON K3 VMO	B.72	8000004133	KL SET 142,5 S	E.5	9009020000	SDI 0,8x4,5x125	G.17
1910060000	TS35 64 Klippon K4K11	E.15	1937970000	KLIPPON K2 VMO	E.11	8000004134	KL SET 134A S	E.5	9009030000	SDI 0,4x2,5x75	G.17
1910060000	TS35 64 Klippon K4K11	B.84	1937980000	KLIPPON K2 VMO	B.72	8000004135	MOPL SET BK12 S	E.5	9009070000	SK 10,0x125	G.17
1910070000	TS35 105 Klippon K41/POK4	E.6	1937990000	KLIPPON K2 VMO	E.12	8000004136	KL SET 242,5 S	E.5	9009070000	SK 10,0x125	B.64
1910070000	TS35 105 Klippon K41/POK4	B.77	1938000000	KLIPPON K2 VMO	B.72	8000004137	KL SET 214A S	E.5	9009160000	SD TH20	G.17
1910080000	TS35/148 KLIPPON K5 CSS	E.17	1938010000	KLIPPON K2 VMO	E.15	8000004138	KL SET 5W4 S	E.5	9009160000	SD TH20	B.74
1910080000	TS35/148 KLIPPON K5 CSS	B.86	1938020000	KLIPPON K3 VMO	B.72	8000004139	KL SET 424 S	E.5	9009730000	SDIS 2,5-5,5/PH1/2	G.16
1910090000	TS35/203 KLIPPON K51POK5	E.87	1938030000	KLIPPON K3 VMO	E.13	8000004140	KL SET 18W4 S	E.5	9009740000	SDS 2,5-5,5/PH1/2	G.18
1910100000	TS35/140 Klippon K52 POK51	E.6	1938040000	KLIPPON K41 VMO	E.14	8000004141	KL SET 15Z4 S	E.5	9009750000	SYSTEM 11+1	G.18
1910100000	TS35/140 Klippon K52 POK51	B.88	1938050000	KLIPPON K2 VMO	B.72	8000004142	KL SET 32W4 S	E.5			
1910110000	TS35/172 Klippon K6 CSS	B.89	1938060000	KLIPPON K3 VMO	B.72	8000004143	KL SET 38Z2,5 S	E.5			
1910120000	TS35/239 KLIPPON K61POK6	B.90	1938070000	KLIPPON K5 VMO	E.17	8000004144	KL SET 6A4 S	E.5			
1910130000	TS35/324 KLIPPON K7 CSS	B.91	1938080000	KLIPPON K5 VMO	B.72	8000004145	KL SET 6A4 S	E.5			
1910140000	TS35/260 Klippon K71 CSS	B.92	1938090000	KLIPPON K51 VMO	E.15	8000004146	KL SET 10A4 S	E.5			
1911380000	KDSU M20 BN O N1 2 G16	C.22	1938100000	KLIPPON K52 VMO	B.72	8000004147	KL SET 18W4 S	E.5			
1911390000	KDSU M20 BN O N1 2 G20S	C.22	1938110000	KLIPPON K52 VMO	E.16	8000004148	KL SET 15Z4 S	E.5			
1911400000	KDSU M20 BN O N1 2 G20	C.22	1938120000	KLIPPON K41 VMO	B.72	8000004149	KLIPPON K1 1,5M16AB CSS	E.5			
1911420000	KDSU M25 BN O N1 2 G25	C.22	1938130000	KLIPPON K5 VMO	E.17	8000004150	KLIPPON K1 2M20AB CSS	E.5			
1911430000	KDSU M32 BN O N1 2 G32	C.22	1938140000	KLIPPON K5 VMO	E.15	8000004151	KLIPPON K2 2M20AB CSS	E.5			
1911440000	KDSU M40 BN O N1 2 G40	C.22	1938150000	KLIPPON K41 VMO	B.72	8000004152	KLIPPON K21 3M16AB CSS	E.5			
1911450000	KDSU M50 BN O N1 2 G50S	C.22	1938160000	KLIPPON K6 VMO	B.72	8000004153	KLIPPON K3 4M20AB CSS	E.5			
1911460000	KDSU M50 BN O N1 2 G50	C.22	1938170000	KLIPPON K61 VMO	B.72	8000004154	KLIPPON K3 1M20AB CSS	E.5			
1911480000	KDSU M63 BN O N1 2 G63	C.22	1938180000	KLIPPON K7 VMO	B.72	8000004155	KLIPPON K4 2M20AB CSS	E.5			
1911500000	KSG M20 BN O N1 2 G16	C.33	1938190000	KLIPPON K5 VMO	B.72	8000004156	KLIPPON K4 2M20AB CSS	E.5			
1911540000	KSG M20 BN O N1 2 G20S	C.33	1938200000	KLIPPON K51 VMO	B.72	8000004158	KLIPPON K4M 5M20AB CSS	E.5			
1911560000	KSG M20 BN O N1 2 G20	C.33	1938210000	KLIPPON K51 VMO	E.18	8000004159	KLIPPON K52 4M20AB CSS	E.5			
1911570000	KSG M25 BN O N1 2 G25	C.33	1938220000	KLIPPON K52 VMO	B.72	8000004160	KLIPPON POK1 2M16AB CSS	E.5			
1911580000	KSG M32 BN O N1 2 G32	C.33	1938230000	KLIPPON K5 VMO	B.72	8000004161	KLIPPON POK2 2M20AB CSS	E.5			
1911590000	KSG M40 BN O N1 2 G40	C.33	1938240000	KLIPPON K6 VMO	E.17	8000004162	KLIPPON POK3 4M20AB CSS	E.5			
1911600000	KSG M50 BN O N1 2 G50S	C.33	1938250000	KLIPPON K7 VMO	B.72	8000004164	KLIPPON POK1 4M20ABCSS	E.5			
1911610000	KSG M50 BN O N1 2 G50	C.33	1938260000	KLIPPON K8 VMO	E.6	8000004184	KLIPPON K01 1M16AB CSS	E.5			
1911620000	KSG M63 BN O N1 2 G63S	C.33	1938270000	KLIPPON K7 VMO	B.72	8000004188	KLIPPON K1 M16BCSS EX	E.5			
1911630000	KSG M63 BN O N1 2 G63	C.33	1938280000	KLIPPON K7 VMO	B.72	8000004190	KLIPPON K2 M20BCSS EX	E.5			
1913320000	GWDR M12-NP	C.43	1938290000	KLIPPON K7 VMO	B.72	8000004191	KLIPPON K21 M16ZCSS EX	E.5			
<b>1920000000</b>											
1921720000	VG H M20 MS	C.14	<b>19500000000</b>			<b>30100000000</b>			<b>90300000000</b>		
1921740000	VG H M25 MS	C.14	1961770000	PTSI 4/LD 400V AC	F.14	3018950000	MP TBF 30/19	B.116	9031760000	SD 0,4x2,0x60	G.17
1921760000	VG H M32 MS	C.14	1966780000	IE-EOK-V1	F.12						
1921760000	VG H M32 MS	C.14	1966790000	IE-EOK-V4	F.12						
1921770000	VG H M40 MS	C.14	1966810000	IE-KO-HAT	F.6						
1928060000	TS15 68 Klippon POK1 CSS	E.19				<b>30700000000</b>			<b>92000000000</b>		
1928060000	TS15 68 Klippon POK1 CSS	B.97				3073000000	MOPL K1 STAHL	B.78	9202510000	WK 1/4 C6.3 E6.3	G.11
1928060000	TS15 68 Klippon POK1 CSS	B.96				3073020000	MOPL K2 STAHL	B.80	9204780000	KOBBS 19X75	G.4
1928060000	TS15 68 Klippon POK1 CSS	E.20				3073040000	MOPL K3 STAHL	B.82	9204790000	IE-KOK-V5	G.6
1928080000	TS15 98 Klippon POK2 CSS	E.21				3073050000	MOPL K32 STAHL	B.83	9204810000	KOK-46X46	G.6
1928080000	TS15 147 Klippon POK3 CSS	B.98				3073070000	MOPL K4 STAHL	B.85	9204820000	KOK-52X36	G.6
1928100000	TS15/215 POK 32	B.100				3073080000	MOPL K5 STAHL	B.86	9204830000	KOK-65X36	G.6
1928110000	TS35 POK4 Set	B.101				3073090000	MOPL K51 STAHL	B.87	9204840000	KOK-68X60	G.6
1928120000	TS35/204 POK 5	B.102				3073100000	MOPL K6 STAHL	B.88	9204850000	KOK-86X36	G.6
1928130000	TS35 POK5 Set	B.103				3073120000	MOPL K61 STAHL	B.90	9204860000	KOK-91X36	G.6
1928140000	TS35/240 POK 6	B.104				3073130000	MOPL K7 STAHL	B.91	9204870000	KOK-112X36	G.6
1928150000	TS35/340 POK 7	B.105				3073140000	MOPL K7 STAHL	B.92	9204880000	KOS-M16	G.4
1928160000	TS35/540 POK 7	B.106				3073150000	MOPL K7 STAHL	B.92	9204900000	KOS-M25	G.4
1928170000	TS35/235 POK 8+11	B.107				3073160000	MOPL K7 STAHL	B.92	9204910000	KOS-M32	G.4
1928180000	TS35/380 POK 9+10+12	B.108				3073					

Order No.	Type	Page	Order No.	Type	Page	Order No.	Type	Page
9502750000	MP TBF 60/30	B.119	9526870000	KLIPPON K21 EX	B.80	9535740000	FPC 30/30/13 trsp	B.133
9502800000	TBF 49/30/18 7035	B.118	9526880000	KLIPPON K3 EX	E.13	9535750000	FPC 30/30/13 7035	B.133
9502810000	TBF 56/30/18 7035	B.118	9526880000	KLIPPON K3 EX	B.81	9535760000	FPC 30/40/13 trsp	B.134
9502820000	TBF 60/37/18 7035	B.120	9526890000	KLIPPON K31 EX	E.14	9535770000	FPC 30/40/13 7035	B.134
9502830000	TBF 60/60/18 7035	B.120	9526890000	KLIPPON K31 EX	B.82	9535810000	FPC 40/60/13 7035	B.134
9502840000	TBF 49/30/21 trsp	B.118	9526900000	KLIPPON K32 EX	B.83	9535820000	FPC 40/60/13 trsp	B.134
9502850000	TBF 56/30/21 trsp	B.118	9526910000	KLIPPON K4 EX	E.15	9535920000	MP FPC 20/20	B.132
9502860000	TBF 60/37/21 trsp	B.120	9526910000	KLIPPON K4 EX	B.84	9535930000	MP FPC 20/30	B.132
9502870000	TBF 60/60/21 trsp	B.120	9526920000	KLIPPON K41 EX	E.16	9535940000	MP FPC 20/40	B.133
9502910000	MP TBF 60/37	B.120	9526920000	KLIPPON K41 EX	B.85	9535950000	MP FPC 30/30	B.133
9502920000	MP TBF 60/60	B.120	9526930000	KLIPPON K5 EX	E.17	9535960000	MP FPC 30/40	B.134
9502930000	EF TBF 19/15	B.116	9526930000	KLIPPON K5 EX	B.86	9535980000	MP FPC 40/60	B.134
9502950000	EF TBF 30/30	B.117	9526940000	KLIPPON K51 EX	B.87	9535990000	HG FPC	B.132
9502960000	EF TBF 37/30	B.117	9526950000	KLIPPON K52 EX	E.18	9536040000	MF FPC	B.132
9502990000	EF TBF 60/30	B.119	9526950000	KLIPPON K52 EX	B.88			
9503000000	EF TBF 60/37	B.120						
9503010000	EF TBF 60/60	B.120						
9503170000	SP TBF 15	B.116						
9505240000	ES TBF M6 ss	B.116						

**9510000000**

9510210000	Klippon POK 1 Ex	E.19	9529100000	KLIPPON K01 RAL7001	B.74			
9510210000	Klippon POK 1 Ex	B.96	9529100000	KLIPPON K01 RAL7001	E.8			
9510220000	Klippon POK 2 Ex	E.20	9529100000	KLIPPON K01 RAL7001	B.75			
9510220000	Klippon POK 2 Ex	B.97	9529110000	KLIPPON K02 RAL7001	B.76			
9510230000	Klippon POK 4 Ex	E.22	9529120000	KLIPPON K1 RAL7001	E.9			
9510230000	Klippon POK 4 Ex	B.101	9529120000	KLIPPON K1 RAL7001	B.77			
9510240000	Klippon POK 5 Ex	B.102	9529130000	KLIPPON K11 RAL7001	E.10			
9510250000	Klippon POK 51 Ex	E.23	9529130000	KLIPPON K11 RAL7001	B.78			
9510250000	Klippon POK 51 Ex	B.103	9529140000	KLIPPON K2 RAL7001	E.11			
9510260000	Klippon POK 6 Ex	B.104	9529140000	KLIPPON K2 RAL7001	B.79			
9510270000	Klippon POK 7 Ex	B.105	9529150000	KLIPPON K21 RAL7001	E.12			
9510280000	Klippon POK 8 Ex	B.107	9529160000	KLIPPON K3 RAL7001	E.13			
9510290000	Klippon POK 9 Ex	B.108	9529160000	KLIPPON K3 RAL7001	B.81			
9510300000	Klippon POK 91 Ex	B.109	9529170000	KLIPPON K31 RAL7001	E.14			
9510310000	Klippon POK 10 Ex	B.110	9529170000	KLIPPON K31 RAL7001	B.82			
9510320000	Klippon POK 3 Ex	E.21	9529180000	KLIPPON K32 RAL7001	E.83			
9510320000	Klippon POK 3 Ex	B.98	9529190000	KLIPPON K4 RAL7001	E.15			
9510330000	Klippon POK 31 Ex	B.99	9529190000	KLIPPON K4 RAL7001	B.84			
9510340000	Klippon POK 32 Ex	B.100	9529200000	KLIPPON K41 RAL7001	E.16			
9510350000	Klippon POK 71 Ex	B.106	9529200000	KLIPPON K41 RAL7001	B.85			
9510360000	Klippon POK 11 Ex	B.111	9529210000	KLIPPON K5 RAL7001	E.17			
9510370000	Klippon POK 12 Ex	B.112	9529220000	KLIPPON K51 RAL7001	B.87			
9510470000	Klippon POK 91	B.109	9529230000	KLIPPON K52 RAL7001	E.18			
9510510000	Klippon POK 32	B.100	9529230000	KLIPPON K52 RAL7001	B.88			
9510520000	Klippon POK 71	B.106	9529240000	KLIPPON K6 RAL7001	B.89			
9510530000	Klippon POK 11	B.111	9529250000	KLIPPON K61 RAL7001	B.90			
9510540000	Klippon POK 12	B.112	9529260000	KLIPPON K7 RAL7001	B.91			
9510570000	MP POK 1	B.96	9529270000	KLIPPON K71 RAL7001	B.92			
9510590000	MP POK 4	B.101						
9510600000	MP POK 5	B.102						
9510610000	MP POK 51	B.103						
9510620000	MP POK 6	B.104						
9510630000	MP POK 7	B.105						
9510640000	MP POK 8+11	B.107						
9510650000	MP POK 9+12	B.108						
9510660000	MP POK 91	B.109						
9510670000	MP POK 10	B.110						
9510680000	MP POK 3	B.98						
9510690000	MP POK 31	B.99						
9510700000	MP POK 32	B.100						
9510710000	MP POK 71	B.106						
9510900000	MP POK small	B.96						
9510910000	MP POK big	B.101						
9510990000	COPL POK 1	B.96						
9511010000	COPL POK 3	B.98						
9511020000	COPL POK 31	B.99						
9511030000	COPL POK 32	B.100						
9511040000	COPL POK 4	B.101						
9511050000	COPL POK 5	B.102						
9511060000	COPL POK 51	B.103						
9511070000	COPL POK 6	B.104						
9511080000	COPL POK 7	B.105						
9511090000	COPL POK 71	B.106						
9511100000	COPL POK 8+11	B.107						
9511110000	COPL POK 9+12	B.108						
9511120000	COPL POK 91	B.109						
9511130000	COPL POK 10	B.110						
9511190000	EB K7/POK10	B.92						
9511200000	EB K41/POK	B.85						
9511210000	EB K51/POK5	B.87						
9511220000	EB K52/POK	B.86						
9511230000	EB K61/POK6	B.90						

**9520000000**

9525020000	ESCH K6 HEB 6POLE	B.89	9535170000	MPC 07/12/07 7035	B.124
9525030000	ESCH K7 HEB 8POLE	B.91	9535180000	MPC 07/12/07 trsp	B.124
9526810000	KLIPPON K0 EX	B.74	9535190000	MPC 07/12/10 7035	B.122
9526820000	KLIPPON K01 EX	E.8	9535200000	MPC 07/12/10 trsp	B.122
9526830000	KLIPPON K02 EX	B.76	9535210000	MPC 07/12/12 7035	B.124
9526840000	KLIPPON K1 EX	E.9	9535220000	MPC 07/12/12 trsp	B.124
9526850000	KLIPPON K1 EX	B.77	9535230000	MPC 12/12/07 7035	B.125
9526850000	KLIPPON K11 EX	E.10	9535240000	MPC 12/12/07 trsp	B.125
9526860000	KLIPPON K11 EX	B.78	9535250000	MPC 12/12/10 7035	B.122
9526860000	KLIPPON K2 EX	E.11	9535260000	MPC 12/12/10 trsp	B.122
9526860000	KLIPPON K2 EX	B.79	9535270000	MPC 12/12/12 7035	B.127
9526870000	KLIPPON K21 EX	E.12	9535280000	MPC 12/17/10 7035	B.126
			9535290000	MPC 12/17/10 trsp	B.126
			9535300000	MPC 12/17/12 7035	B.126
			9535310000	MPC 12/17/10 7035	B.126
			9535320000	MPC 12/17/10 trsp	B.126
			9535330000	MPC 12/17/12 7035	B.126
			9535340000	MPC 12/17/12 trsp	B.126
			9535350000	MPC 12/17/15 7035	B.122
			9535360000	MPC 12/17/15 trsp	B.122
			9535370000	MPC 17/17/07 7035	B.127
			9535380000	MPC 17/17/07 trsp	B.127
			9535390000	MPC 17/17/10 7035	B.122
			9535400000	MPC 17/17/10 trsp	B.122
			9535410000	MPC 17/17/12 7035	B.122
			9535420000	MPC 17/17/12 trsp	B.122
			9535430000	MPC 17/17/15 7035	B.128
			9535440000	MPC 17/17/15 trsp	B.128
			9535450000	MPC 17/17/07 7035	B.122
			9535460000	MPC 17/25/07 7035	B.122
			9535470000	MPC 17/25/10 7035	B.128
			9535480000	MPC 17/25/10 trsp	B.128
			9535490000	MPC 17/25/15 7035	B.122
			9535500000	MPC 17/25/15 trsp	B.122
			9535540000	MP MPC 07/12	B.124
			9535550000	MP MPC 12/12	B.125
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			9535580000	MP MPC 17/25	B.128
			9535590000	HG MPC	B.124
			9535600000	MP MPC	B.124
			9535680000	FPC 20/20/13 trsp	B.132
			9535690000	FPC 20/20/13 7035	B.132
			9535700000	FPC 20/30/13 trsp	B.132
			9535710000	FPC 20/30/13 7035	B.132
			9535720000	FPC 20/40/13 trsp	B.133
			9535730000	FPC 20/40/13 7035	B.133

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9918140000	CROSS-KEY UNIVERSAL S	G.20
9918150000	CROSS-KEY MASTER	G.20
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9918380000	DMS MANUELL 2,0-8,0	G.11
9918390000	DMSI MANUELL 0,5-1,7	G.12
9918400000	DMSI MANUELL 2,0-8,0	G.12
9918410000	WK SI 0,4x2,5	G.12
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