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Enclosures and cable glands

Catalogue 2013/2014

Let's connect.

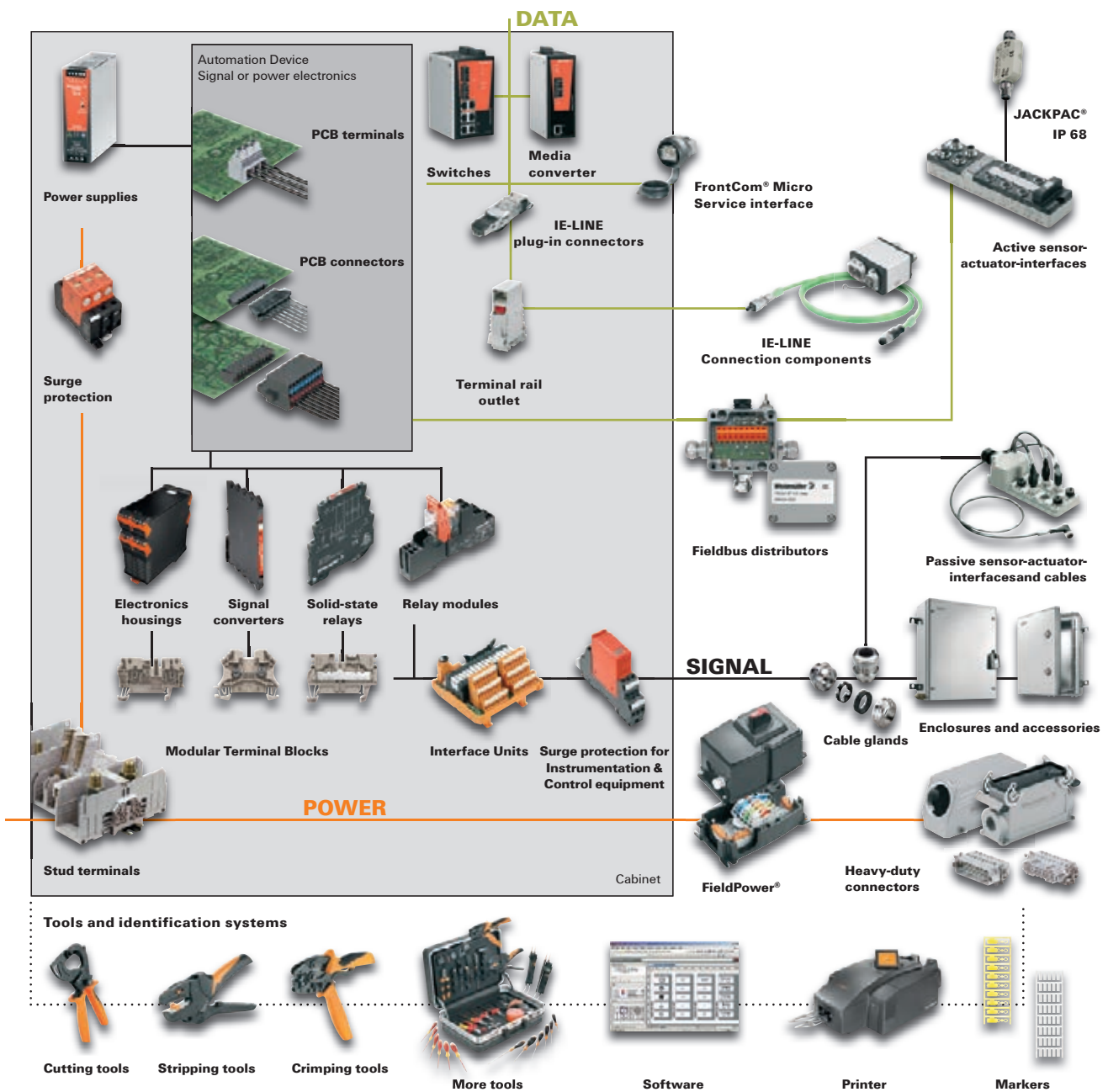
Klippon® - enclosure system



Weidmüller 

The World of Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. Immerse yourself in our world of Industrial Connectivity. Let's connect.



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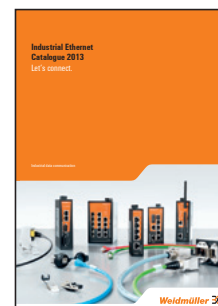
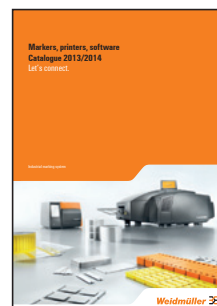
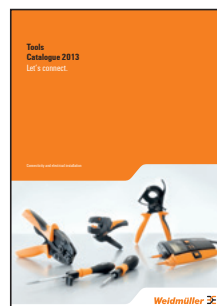
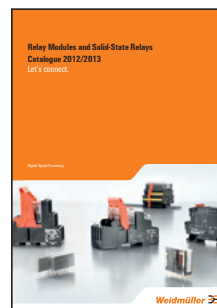
The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via you web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



Enclosures and Cable Glands

Catalogue 5

Enclosures and Cable Glands

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Enclosures and Cable Glands

Enclosures and Cable Glands

Introduction

A.2

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 a range of steel enclosures from the Klippon® TB range, available in Multi-Hinge (MH), Quarter-Lock (QL) and Fixing-Screw (FS) versions, and from the new Klippon® TBi range, available in Quarter-Lock (QL) and Fixing-Screw (FS) versions, as well as the Klippon® STB range and the aluminium enclosures

of the Klippon® K range. The portfolio is complimented by the polyester enclosures of the Klippon® POK range 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 Section 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 range is one of the first products to be approved and certified as being compliant with IEC /EN 60079. This range of standards provides a harmonised approach to the development and manufacture of equipment for use in potentially explosive atmospheres.

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 potentially explosive atmospheres and have further certifications for use in standard industrial applications. 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 EX for application-specific solutions

Weidmüller's Customer-specific Solutions division offers application-specific EX solutions. 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. This is regulated by the ATEX European Community directives 1999/92/EC and 94/9/EC, which classify the various areas of danger and associated selection of explosion-protected equipment 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.

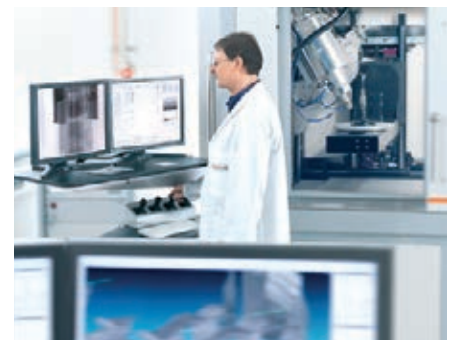


When quality is the key

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 potentially explosive atmospheres 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)

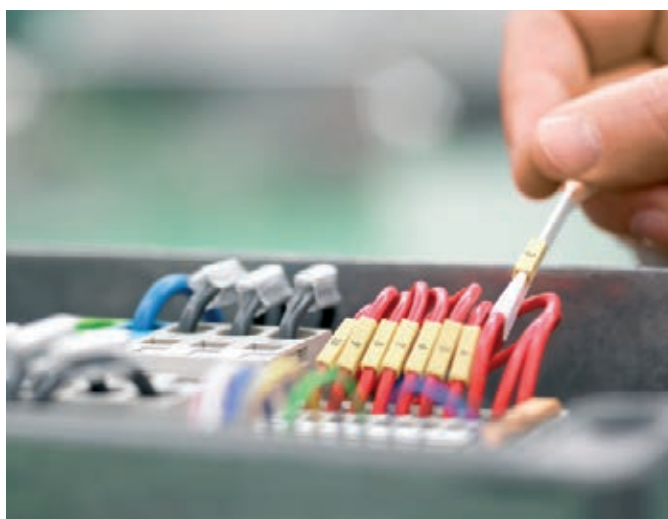
Application specific solutions – your requirements are our motivation

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 potentially explosive atmospheres 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.

Highest level manufacturing expertise

A 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 range. 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



Enclosures

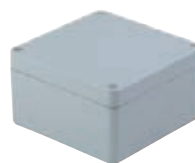
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Metal enclosures



	Klippon® TB MH 	Klippon® TB QL 	Klippon® TB FS 	Klippon® TBi QL
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material Specification	Stainless steel 1.4404 (316L) 1.50 mm	Stainless steel 1.4404 (316L), enclosure 1.50 mm	Stainless steel 1.4404 (316L), enclosure 1.50 mm	Stainless steel 1.4301 (304), enclosure 1.50 mm
Sea water resistance	very good	very good	very good	very good
UV resistance	very good	very good	very good	very good
Halogen free / cadmium free	x / x	x / x	x / x	x / x
Surface finish	electropolished	electropolished	electropolished	electropolished
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	Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry	Machine construction, transport, power
Dimensions				
L x W x H (min.) in mm	229x152x133	229x152x133	229x152x133	300x200x150
L x W x H (max) in mm	987x740x200	987x740x200	987x740x200	800x600x220
Geometry	3 standard depths	3 standard depths	3 standard depths	2 standard depths
Specific characteristics				
Gland plates	0,1,2,3,4	0,1,2,3,4	0,1,2,3,4	0,1
Type of gasket	Flat gasket	Flat gasket	Flat gasket	Flat gasket
Seal material	Silicone	Silicone	Silicone	Neoprene
Enclosure attachment	4 mounting feet with 11 mm hole size	4 mounting feet with 11 mm hole size	4 mounting feet with 11 mm hole size	Direct mounting (11 mm mounting holes on rear wall) or via mounting feet (optionally available) Welded mounting bracket
Installation mounting	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	4 or 6 mounting bolts with M6 threaded holes	
Temperature range	-60 °C...+135 °C	-60 °C...+135 °C	-60 °C...+135 °C	-40 °C...+85 °C
Impact resistance	10 J Industrial applications 7 J ATEX applications	10 J Industrial applications 7 J ATEX applications	10 J Industrial applications 7 J ATEX applications	10 J Industrial applications
IP - protection class	IP 66, IP 67 /	IP 66 /	IP 66, IP 67 /	IP 66 /
NEMA protection class	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 5
Flammability rating				
Surface resistance (in ohms)				
Approvals				
ATEX	x	x	x	
EN 60079-7 Increased safety	x	x	x	
EN 60079-11 Intrinsic safety	x	x	x	
EN 60079-31 Dust ignition protection	x	x	x	
IEC Ex	x	x	x	
IEC60079-7 Increased safety	x	x	x	
IEC60079-11 Intrinsic safety	x	x	x	
EN 60079-31 Dust ignition protection	x	x	x	
RMR / LR / GL	x / - / x	x / - / x	x / - / x	- / - / x
GOST Ex	x	x	x	
cULus	x	x	x	x
CCOE / INMETRO	x / *	- / *	x / *	
AEX	*	*	*	
Configuration	Lid hinges Removable lid Gland plates Welded mounting feet Fitting for a padlock	Lid hinges Gland plates Welded mounting feet Quarter lock	Removable lid Gland plates Welded mounting feet	Lid hinges Gland plates Direct mounting, Optional mounting feet Quarter lock

* Approvals are pending



	Klippon® TBi FS	Klippon® STB		Klippon® K	
Material	Stainless steel	Stainless steel	Sheet steel	Aluminium	
Material Specification	Stainless steel 1.4301 (304), enclosure 1.50 mm	Stainless steel 1.4404 (316L) 1.50 mm	Powder-coated steel sheet 1.0330	High quality aluminium alloy (Al-Si12)	
Sea water resistance	very good	very good	good	good	
UV resistance	very good	very good	insufficient	very good	
Halogen free / cadmium free	x / x	x / x	x / x	x / x	
Surface finish	electropolished	electropolished, Mirror-polish	powder-coated	neutral, powder-coated	
Intended use	Machine construction, transport, power	Ex areas, packing industry, railways, shipping, process industry	Packing industry, railways, shipping, process industry	Ex-areas, process industry, transport, railways, shipping, port facilities, packaging, mechanical engineering	
Dimensions					
L x W x H (min.) in mm	300x200x150	120x120x80		50x45x30	
L x W x H (max) in mm	800x600x220	250x400x130		230x280x111	
Geometry	2 standard depths	5 standard depths		11 standard depths	
Specific characteristics		Ex-version	Industrial version	Ex-version	Industrial version
Gland plates	0,1	none	none	none	none
Type of gasket	Flat gasket	Flat gasket	Flat gasket	Shaped gasket	Shaped gasket
Seal material	Neoprene	Silicone	Silicone	Silicone	Chloroprene, Silicone
Enclosure attachment	Direct mounting (11 mm mounting holes on rear wall) or via mounting feet (optionally available)	External holders with 8 mm holes	External holders with 8 mm holes	4 holes for M4 to M6 screws	4 holes for M4 to M6 screws
Installation mounting	Welded mounting bracket	20 mm C-rail welded to the enclosure	20 mm C-rail welded to the enclosure	M4 to M6 threaded holes	M4 to M6 threaded holes
Temperature range	-40 °C...+85 °C	-60 °C...100 °C	-60 °C...120 °C	-50 °C...135 °C	-40 °C...+80 °C (CR); 50 °C...+135 °C (VMQ)
Impact resistance	10 J Industrial applications	7 J	10 J	7 J	10 J
IP - protection class	IP 66 /	IP 66	IP 66	IP 66, IP 67 /	IP 66, IP 67, IP 68 /
NEMA protection class	Nema 3, Nema 4x, Nema 5			Nema 4x	Nema 4x
Flammability rating					
Surface resistance (in ohms)					
Approvals					
ATEX		x		x	
EN 60079-7 Increased safety		x		x	
EN 60079-11 Intrinsic safety		x		x	
EN 60079-31 Dust ignition protection		x		x	
IEC Ex		x		x	
IEC60079-7 Increased safety		x		x	
IEC60079-11 Intrinsic safety		x		x	
EN 60079-31 Dust ignition protection		x		x	
RMR / LR / GL	- / - / x	- / x / x	- / x / -	x / - / x	x / - / x
GOST Ex		x		x	
cULus	x	x			x
CCOE / INMETRO		- / *			
AEX		*			
Configuration					
	Removable lid Gland plates Direct mounting, Optional mounting feet	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
Halogen free / cadmium free	x / x		x / x	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
Dimensions					
L x W x H (min.) in mm	75x80x55		186x151x139	125x75x75	200x200x130
L x W x H (min.) in mm	250x400x160		603x603x175/210	250x175x150	600x400x130
Geometry	6 standard depths		3 standard depths	4 standard depths	1 standard depth
Specific characteristics	Ex version (Black)	Industrial version (grey)			
Gland plates	none	none	none	none	none
Type of gasket	Sealing	Sealing	O-ring	Foam seal	Foam seal
Seal material	Silicone	Chloroprene	Polyurethane	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)	4 holes or external mounting brackets (accessory)
Installation mounting	M4 to M6 threaded holes	M4 to M6 threaded holes	4 or 6 clamping screws M4	Self-tapping screws	Self-tapping screws
Temperature range	-55 °C...+100 °C	-40 °C...+100 °C	-50 °C...+150 °C (grey); -50 °C...+130 °C (transparent)	-50 °C...+130 °C	-50 °C...+130 °C
Impact resistance	7 J	7 J	4 J (grey lid) 7 J (transparent lid)	7J	7J
IP - protection class	IP 66	IP 66	IP 66 (transparent lid) IP 67 (grey lid)	IP 66, IP 67	IP 66, IP 67
Flammability rating	UL94 V0	UL94 V0	UL94 HB (grey), V2 (transparent)	V2	V2
Surface resistance (in ohms)	<10 ⁹	10 ¹²	10 ¹²	10 ¹⁶	10 ¹⁶
Approvals					
ATEX	x				
EN 60079-7 Increased safety	x				
EN 60079-11 Intrinsic safety	x				
EN 60079-31 Dust ignition protection	x				
IEC Ex					
IEC60079-7 Increased safety					
IEC60079-11 Intrinsic safety					
EN 60079-31 Dust ignition protection					
RMR / LR / GL	x / - / -	x / x / -			
GOST Ex	x				
cULus		x			
CCOE / INMETRO					
AEX					
Configuration					
	Fastening screws for the mounting plate		grey or transparent lid	grey or transparent lid	grey or transparent lid

* Approvals are pending

Overview of dimensions

Klippon® TB MH – Multi Hinge / Klippon® TB QL – Quarter Lock / Klippon® TB FS – Fixing Screw



		Dimensions in mm Height x width x depth	Weight [g]			
			1 Gland plate	2 Gland plates	3 Gland plates	4 Gland plates
	Klippon® TB MH	229 x 152 x 133	3060	3360	3740	4060
	Klippon® TB QL		3060	3360	3740	4060
	Klippon® TB FS		3754	2988	3429	3816
	Klippon® TB MH	260 x 260 x 150	4840	5510	5780	6680
	Klippon® TB QL		4840	5510	5780	6680
	Klippon® TB FS		4320	4959	5148	6012
	Klippon® TB MH	260 x 260 x 200	5620	6400	6840	8200
	Klippon® TB QL		5620	6400	6840	8200
	Klippon® TB FS		4950	5760	6570	7380
	Klippon® TB MH	306 x 306 x 150	5960	6580	7060	7660
	Klippon® TB QL		5960	6580	7060	7660
	Klippon® TB FS		4860	5670	6300	6930
	Klippon® TB MH	306 x 306 x 200	6800	7720	8320	9180
	Klippon® TB QL		6800	7720	8320	9180
	Klippon® TB FS		6120	6570	7470	8379
	Klippon® TB MH	350 x 260 x 150	5780	6700	7600	9700
	Klippon® TB QL		5780	6700	7600	9700
	Klippon® TB FS		5400	6030	6840	8730
	Klippon® TB MH	350 x 260 x 200	6700	7700	8380	10100
	Klippon® TB QL		6700	7700	8380	10100
	Klippon® TB FS		6030	6930	8010	9090
	Klippon® TB MH	400 x 300 x 150	7200	8300	8380	11100
	Klippon® TB QL		7200	8300	8380	11100
	Klippon® TB FS		6480	7470	8730	9990
	Klippon® TB MH	400 x 300 x 200	7900	9200	10400	11300
	Klippon® TB QL		7900	9200	10400	11300
	Klippon® TB FS		7290	8280	9360	10170
	Klippon® TB MH	458 x 382 x 150	9000	9900	10700	12700
	Klippon® TB QL		9000	9900	10700	12700
	Klippon® TB FS		7650	8910	10170	11430
	Klippon® TB MH	458 x 382 x 200	10240	10830	12500	14110
	Klippon® TB QL		10240	10830	12500	14110
	Klippon® TB FS		8460	9747	11250	12699
	Klippon® TB MH	480 x 480 x 150	11900	13800	15200	17600
	Klippon® TB QL		11900	13800	15200	17600
	Klippon® TB FS		10710	12420	13680	15840
	Klippon® TB MH	480 x 480 x 200	12420	15900	17700	16080
	Klippon® TB QL		12420	15900	17700	16080
	Klippon® TB FS		12600	14310	15930	17550
	Klippon® TB MH	550 x 350 x 150	8500	9500	10800	12100
	Klippon® TB QL		8500	9500	10800	12100
	Klippon® TB FS		7650	8550	9720	10890
	Klippon® TB MH	550 x 350 x 200	11060	11500	13800	14720
	Klippon® TB QL		11060	11500	13800	14720
	Klippon® TB FS		9090	10350	12150	13950
	Klippon® TB MH	620 x 450 x 150	12800	14100	15600	17100
	Klippon® TB QL		12800	14100	15600	17100
	Klippon® TB FS		11520	12690	14040	15390
	Klippon® TB MH	620 x 450 x 200	14240	15830	17360	20350
	Klippon® TB QL		14240	15830	17360	20350
	Klippon® TB FS		12654	14247	16281	18315
	Klippon® TB MH	762 x 508 x 150	17100	18600	19700	20800
	Klippon® TB QL		17100	18600	19700	20800
	Klippon® TB FS		15390	16740	17730	18720
	Klippon® TB MH	762 x 508 x 200	18120	19800	21200	22700
	Klippon® TB QL		18120	19800	21200	22700
	Klippon® TB FS		16020	17820	19080	20430

Note

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

Klippon® TB MH – Multi Hinge / Klippon® TB QL – Quarter Lock / Klippon® TB FS – Fixing Screw










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		Dimensions in mm Height x width x depth	Weight [g]			
			1 Gland plate	2 Gland plates	3 Gland plates	4 Gland plates
	Klippon® TB MH	914 x 610 x 150	20700	22200	24100	26000
	Klippon® TB QL		20700	22200	24100	26000
	Klippon® TB FS		18630	19980	21690	23400
	Klippon® TB MH	914 x 610 x 200	23840	24600	26400	28200
	Klippon® TB QL		23840	24600	26400	28200
	Klippon® TB FS		19890	22140	23760	25380
	Klippon® TB MH	980 x 740 x 200	34800	36300	36100	39900
	Klippon® TB QL		34800	36300	36100	39900
	Klippon® TB FS		31320	32670	34200	35910

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

Klippon® TBi FS - Fixing Screw / Klippon® TBi QL - Quarter Lock

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		Dimensions in mm Height x width x depth	Weight [g]	
			0 Gland plates	1 Gland plate
	Klippon® TBi QL	300 x 200 x 150	3871.1	3432.1
	Klippon® TBi FS		4454	5220
	Klippon® TBi QL	300 x 300 x 150	4768.1	6700
	Klippon® TBi FS		5719.6	5493.9
	Klippon® TBi QL		5768.7	5320.7
	Klippon® TBi FS	300 x 300 x 220	7451.8	7036.8
	Klippon® TBi QL		5943.9	6503.9
	Klippon® TBi FS		6980	6754.3
	Klippon® TBi QL	400 x 300 x 150	7111.5	6655.5
	Klippon® TBi FS		8927.1	8519.4
	Klippon® TBi QL		8696.5	8072.5
	Klippon® TBi FS	400 x 300 x 220	10653.6	10085.7
	Klippon® TBi QL		10279.3	9647.3
	Klippon® TBi FS		12482.9	11915.1
	Klippon® TBi QL	500 x 400 x 220	12920.3	11264.3
	Klippon® TBi FS		14571.8	13829.2
	Klippon® TBi QL	500 x 500 x 220	11872.1	11240.1
	Klippon® TBi FS		14239.5	13664.4
	Klippon® TBi QL	600 x 400 x 220	15992.1	
	Klippon® TBi FS		18842.4	17947
	Klippon® TBi QL	600 x 600 x 220	20127.7	19143.7
	Klippon® TBi FS		23349.7	22440

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

Overview of dimensions

Klippon® STB







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

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

Klippon® K














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		Dimensions in mm Height x width x depth	Weight [g]
	unpainted Ex (S)	45 x 50 x 30	89
	unpainted (CR)		78.4
	RAL 7001 (CR)		79.2
	RAL 7001 (S)		83.6
	unpainted Ex (S)	64 x 58 x 34	184
	unpainted (CR)		148.1
	RAL 7001 (CR)		153.6
	RAL 7001 (S)		149.4
	unpainted Ex (S)	64 x 98 x 34	254
	unpainted (CR)		207
	RAL 7001 (CR)		211.2
	RAL 7001 (S)		217
	unpainted Ex (S)	70 x 70 x 45	272
	unpainted (CR)		247.5
	RAL 7001 (CR)		251.5
	RAL 7001 (S)		255.9
	unpainted Ex (S)	80 x 75 x 57	328
	unpainted (CR)		318
	RAL 7001 (CR)		322
	RAL 7001 (S)		319.6
	unpainted Ex (S)	70 x 100 x 45	319
	unpainted (CR)		314.4
	RAL 7001 (CR)		309.9
	RAL 7001 (S)		316

The weights given are net weights.

Klippon® K













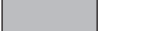

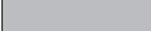


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		Dimensions in mm Height x width x depth	Weight [g]
	unpainted Ex (S)	80 x 125 x 57	472
	unpainted (CR)		446
	RAL 7001 (CR)		466
	RAL 7001 (S)		471
	unpainted Ex (S)	70 x 165 x 45	500
	unpainted (CR)		454.6
	RAL 7001 (CR)		452
	RAL 7001 (S)		469.2
	unpainted Ex (S)	80 x 175 x 57	600
	unpainted (CR)		569.6
	RAL 7001 (CR)		576.6
	RAL 7001 (S)		583.2
	unpainted Ex (S)	80 x 250 x 55	874
	unpainted (CR)		784
	RAL 7001 (CR)		794
	RAL 7001 (S)		752.8
	unpainted Ex (S)	82 x 130 x 72	663
	unpainted (CR)		633
	RAL 7001 (CR)		644
	RAL 7001 (S)		669
	unpainted Ex (S)	120 x 122 x 81	986
	unpainted (CR)		935
	RAL 7001 (CR)		955
	RAL 7001 (S)		938
	unpainted Ex (S)	130 x 170 x 90	1432
	unpainted (CR)		1386
	RAL 7001 (CR)		1420
	RAL 7001 (S)		1616
	unpainted Ex (S)	120 x 220 x 81	1428
	unpainted (CR)		1423
	RAL 7001 (CR)		1399
	RAL 7001 (S)		1411
	unpainted Ex (S)	160 x 160 x 91	1699
	unpainted (CR)		1676
	RAL 7001 (CR)		1613
	RAL 7001 (S)		1616
	unpainted Ex (S)	160 x 200 x 100	1872
	unpainted (CR)		1800
	RAL 7001 (CR)		1820
	RAL 7001 (S)		2080
	unpainted Ex (S)	160 x 260 x 91	2249
	unpainted (CR)		2160
	RAL 7001 (CR)		2240
	RAL 7001 (S)		2150
	unpainted Ex (S)	160 x 350 x 100	2863
	unpainted (CR)		2828
	RAL 7001 (CR)		3116
	RAL 7001 (S)		3094
	unpainted Ex (S)	230 x 280 x 111	3420
	unpainted (CR)		3377
	RAL 7001 (CR)		3395
	RAL 7001 (S)		3274

The weights given are net weights.

Klippon® POK









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		Dimensions in mm Height x width x depth	Weight [g]
	RAL 7001	75 x 80 x 56	273
	RAL 9011		289
	RAL 7001	75 x 110 x 55	345
	RAL 9011		350
	RAL 7001	75 x 160 x 55	450
	RAL 9011		461
	RAL 7001	75 x 190 x 55	499
	RAL 9011		530
	RAL 7001	75 x 230 x 55	612
	RAL 9011		628
	RAL 7001	120 x 122 x 91	768
	RAL 9011		769
	RAL 7001	120 x 220 x 91	1094
	RAL 9011		1110
	RAL 7001	160 x 160 x 91	1302
	RAL 9011		1326
	RAL 7001	160 x 260 x 91	1771
	RAL 9011		1767
	RAL 7001	160 x 360 x 91	2210
	RAL 9011		2291
	RAL 7001	160 x 560 x 91	3327
	RAL 9011		3320
	RAL 7001	250 x 255 x 121	2817
	RAL 9011		2841
	RAL 7001	250 x 400 x 121	3693
	RAL 9011		3771
	RAL 7001	250 x 600 x 121	5420
	RAL 9011		5580
	RAL 7001	405 x 400 x 121	5740
	RAL 9011		5580
	RAL 7001	250 x 255 x 161	3458
	RAL 9011		3600
	RAL 7001	250 x 400 x 161	4390
	RAL 9011		4408

The weights given are net weights.

TBF

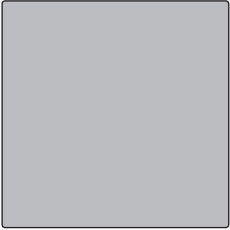
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		Dimensions in mm Height x width x depth	Weight [g]
	grey lid (RAL7035)	186 x 151 x 140	1061
	transparent lid		810
	grey lid (RAL7035)	302 x 186 x 175	1857
	transparent lid		1520
	grey lid (RAL7035)	302 x 302 x 175	2420
	transparent lid		2000
	grey lid (RAL7035)	372 x 302 x 175	2829
	transparent lid		2465
	grey lid (RAL7035)	488 x 302 x 175 488 x 302 x 210	3688
	transparent lid		3220
	grey lid (RAL7035)	558 x 302 x 175 558 x 302 x 210	4420
	transparent lid		3660
	grey lid (RAL7035)	603 x 302 x 175 603 x 302 x 210	4900
	transparent lid		3900
	grey lid (RAL7035)	603 x 372 x 175 603 x 372 x 210	5000
	transparent lid		5000










The weights given are net weights.

Overview of dimensions







TBF Page B.192

		Dimensions in mm Height x width x depth	Weight [g]
	grey lid (RAL7035)	603 x 605 x 175	7220
	transparent lid	603 x 605 x 210	7480

MPC Page B.200

		Dimensions in mm Height x width x depth	Weight [g]
	grey lid (RAL7035) transparent lid	125 x 75 x 75	214
	grey lid (RAL7035) transparent lid	125 x 75 x 125	306 304
	grey lid (RAL7035) transparent lid	125 x 125 x 75	295 294
	grey lid (RAL7035) transparent lid	175 x 125 x 75	373 368
	grey lid (RAL7035) transparent lid	175 x 125 x 100	464 448
	grey lid (RAL7035) transparent lid	175 x 125 x 125	523 525
	grey lid (RAL7035) transparent lid	175 x 175 x 75	489 491
	grey lid (RAL7035) transparent lid	175 x 175 x 150	184 731
	grey lid (RAL7035) transparent lid	250 x 175 x 100	760 753

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		Dimensions in mm Height x width x depth	Weight [g]
	grey lid (RAL7035) transparent lid	200 x 200 x 132	1230 1260
	grey lid (RAL7035) transparent lid	200 x 300 x 132	1616 1589
	grey lid (RAL7035) transparent lid	200 x 400 x 132	2000 1984
	grey lid (RAL7035) transparent lid	300 x 300 x 132	2097 2103
	grey lid (RAL7035) transparent lid	300 x 400 x 132	2624 2620
	grey lid (RAL7035) transparent lid	400 x 600 x 132	3964 4500

The weights given are net weights.

The weights given are net weights.

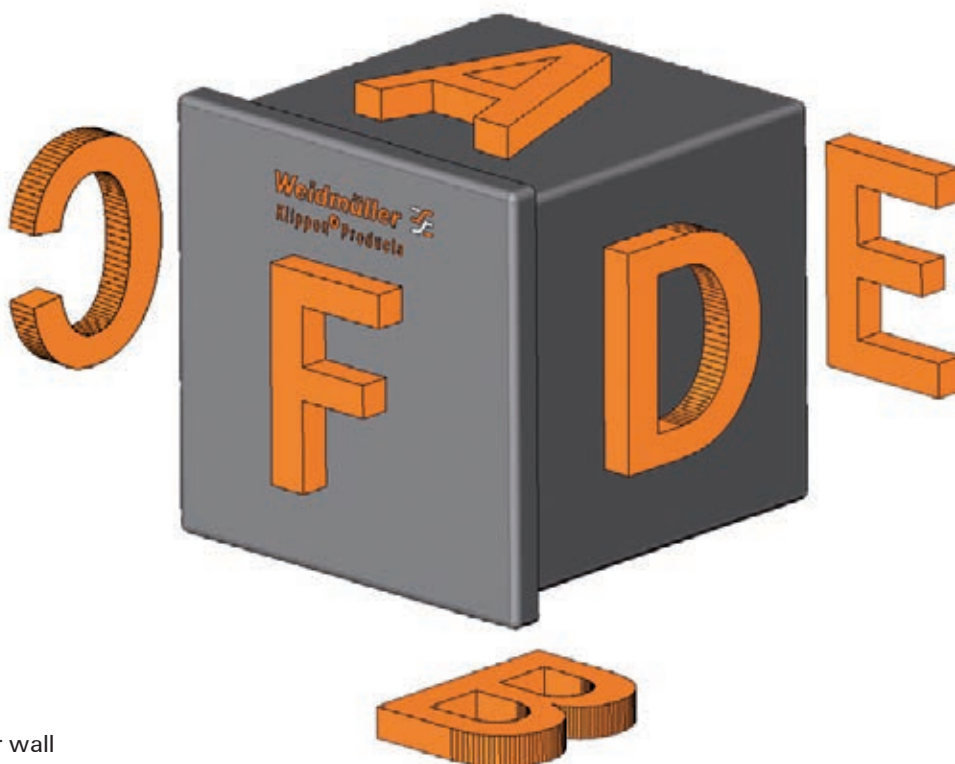
Drawing design – For chapter B

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

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** shows the interior surface of the enclosure (rear wall of the enclosure with the cover removed).
- 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 front view of the enclosure interior with the cover removed (enclosure rear wall).

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 rear wall
- F** = Enclosure lid