

## Klippon® Protect - Safety and Protection for Connection Solutions



# Klippon® Protect Enclosures – Safe. Robust. Functional.

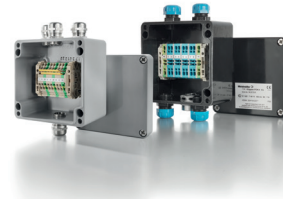
The flexible Klippon® Protect enclosure system is the perfect addition to our Klippon® Connect range of modular terminal blocks. Rely on our enclosures that are optimized for your requirements and provide excellent protection. With Klippon® Protect, you can choose from a wide range of universal and application-specific enclosures. The enclosures cover all relevant approvals required for use in industrial or explosive risk zones.



**Klippon® FPC, MPC & TBF**  
Polycarbonate and Polyester Enclosures



**Klippon® K Aluminum Enclosures**



**POK Glass-fiber Reinforced**  
Polyester Enclosures



**Klippon® KTB & STB**  
Stainless Steel Enclosures

## Cable Entry Systems and Components

Weidmüller offers a variety of add-on components for a multitude of purposes and applications to complement its extensive Klippon® Protect range. In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalizing elements, adapters and relevant accessories available – such as lock nuts, flat gaskets, flat washers and earthing rings. To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalizing elements and accessories are manufactured and certified according to the following standards:



- Single Orientation Clamping System
- Installation with no reversible components
- Deluge proof - no additional seals or boots required
- Built-in Interface seal
- Displacement seal on inner sheath minimizes damage
- IP66 & IP68 to 50 meters
- Ex db; Ex eb; Ex nR; Ex ta; Class 1 Div 2 Grps A,B,C,D; Class II Div I E,F,G; Class III Type 4X; Class I Zone 1 Ex d IIC/ Ex e II; Class II Zone 20 Aex ta IIC da; Aex e; Aex ta
- Certifications: ATEX, IECEx, CEC, NEC - USA, EAC, INMETRO, CCC, KCS, ABS, LLOYD'S
- Standards: UL514B; UL1203; UL2225; UL50E; ANSI/UL 60079-0/7; ISA 60079-31; C22.2; CAN/CSA 60079-0/1/7
- EN60079-0, EN60079-1, EN60079-78, EN60079-15, EN 60079-31;
- IEC 60079-0, IEC 60079-1, IEC60079-7, IEC60079-31, IEC 60529



### Other Accessories Available for Enclosure Modifications



Conduit Hub



Liquid Tight

Contact Weidmüller for availability.

# Klippon® TB Enclosure Series

## Stainless Steel Enclosures for Use Within Hazardous Areas

The Klippon® TB enclosure series offers excellent performance characteristics and meets the stricter requirements of hazardous areas.

- Options available in 31 sizes and 3 depths
- 316L Stainless steel (304SS available upon request)
- IP66/IP67 Rating
- Seamless one piece high-temp silicone gasket
- Corrosion resistant electro-polished surface
- Railway approved
- Custom sizes and modifications available
- Meets EN62208 & EN 60079 standards

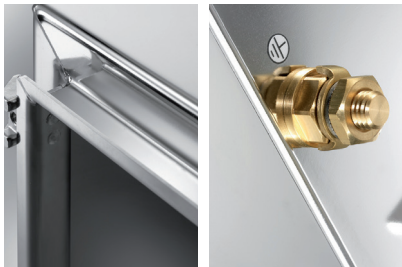
### Temperature and Sealing Characteristics

The enclosures come standard with a silicone seal for use under extreme temperatures.



### Safe Protection

An integrated dust and moisture channel prevents dirt and moisture from penetrating when the enclosure is opened. The external earthing stud is equipped with an IP66/67 certified sealing mechanism and is protected against twisting.



### Versatile Installation Options

Mounting bolts are located within the enclosure for installing rails and mounting plates. Welded-on mounting feet provide for a fast, secure and stable wall mounting.



### Safety and Stability

The different sealing systems prevent unauthorized access to the enclosure. Inner thread sockets (which are welded on) provide a stable attachment mechanism for gland plates and protect against leaks.



### Easy installation

The enclosures are delivered with up to four gland plates so that cable glands can be easily and quickly installed and attached.



### Klippon® Cable Glands

Our complete series of IP66 and IP68 cable glands and accessories are an excellent complement to the Klippon® TB enclosure series. Cable glands enable the connection of Armored and Unarmored cables from M20 to M75.



### Approvals

The Klippon® TB range of enclosures has been awarded international approvals.



# Klippon® TB MH – Multi-Hinge

## 316L Stainless Steel enclosures for use in industrial and in potentially explosive atmospheres

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

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.

### Features:

- Available in 31 sizes and 3 standard depths with customer-specific sizes on request
- The high temperature silicone gasket protects against corrosion
- Completely removable padlock tab
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Reversible cover can be removed without a tool
- Welded mounting feet
- International approvals
- Available in 304 stainless steel upon request



Class 1 Div 2 A,B,C,D, Zone 1, Zone 2, 21, 22; AEx eb, AEx ta; Ex eb, Ex tb



Discover more  
in our Weidmüller Configurator:  
[www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)

### Technical Overview

#### Technical Data

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Enclosure material*                 | Stainless steel 1.4404 (316L) 1.5 mm                                                                    |
| Surface finish                      | electropolished                                                                                         |
| IP protection class                 | IP66 / IP67 to DIN EN 60529                                                                             |
| 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 thickness 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 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail              |
| Enclosure attachment                | 4 or 6 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                                              |
| Impact resistance                   | 7 J to IEC 60079-0, IK 09 (10J) to DIN EN 50102                                                         |
| Gasket material                     | Silicone                                                                                                |
| Operating temperature range         | -60 °C...+105 °C (IP66/IP67), -60 °C...+135 °C (IP66)                                                   |
| Torque - lid and gland plate screws | 2.5 Nm                                                                                                  |
| <b>Note</b>                         | * Painted enclosures are available on request.                                                          |

### Approvals for empty enclosures

|                   |                                                                                                   |               |                                             |
|-------------------|---------------------------------------------------------------------------------------------------|---------------|---------------------------------------------|
| ATEX certificate  | IBExU14ATEX1028 U                                                                                 | EAC           | C-DE.HB07.B.00089/20 / C-DE.AD54.B.00251/19 |
| ATEX marking      | II 2G Ex eb IIC Gb<br>II 2D Ex tb IIIC Db                                                         | cULus         | E243298                                     |
| IECEx certificate | IECEx IBE 14.0004U                                                                                | DNV GL        | TAE000013S                                  |
| IECEx marking     | Ex eb IIC Gb<br>Ex tb IIIC Db                                                                     | CCOE          | In preparation                              |
| CCCEx certificate | 2020322303002357                                                                                  | INMETRO       | IEx 17.0020U                                |
| CCCEx marking     | Ex e IIC Gb, Ex tD A21 IP66/67                                                                    | AEx           | E223792                                     |
|                   |                                                                                                   | Miscellaneous | EN 45545, DIN EN 15085-2/CL2                |
| <b>Note</b>       | The Klippon® TB enclosure range can be pre-fitted in our customer specific production department. |               |                                             |

# Klippon® TB Multi-Hinge Enclosures

## KTB MH 316L SS Hinged Screw Cover

|     | Model               | H x W x D<br>(in Inches) | H x W x D (in mm) | 0 Gland Plates | 1 Gland Plate<br>(below) | 2 Gland Plates<br>(above +<br>below) | 3 Gland plates<br>(below + sides) | 4 Gland plates<br>(all sides) | ***Mounting<br>Plates Steel | ***Mounting<br>Plates Steel<br>Pre-drilled | ***Mounting<br>Plates 304SS | ***Mounting<br>Plates 304SS<br>Pre-drilled |
|-----|---------------------|--------------------------|-------------------|----------------|--------------------------|--------------------------------------|-----------------------------------|-------------------------------|-----------------------------|--------------------------------------------|-----------------------------|--------------------------------------------|
|     | KTB MH 221513 S4E_* | 9 x 6 x 5                | 229 x 152 x 133   | 1194550000     | 1194560000               | 1194570000                           | 1194580000                        | 1194590000                    | 1193930000                  | 2022050000                                 | 1193810000                  | 1257650000                                 |
|     | KTB MH 262615 S4E_* | 10 x 10 x 6              | 260 x 260 x 150   | 1194600000     | 1194610000               | 1194620000                           | 1194630000                        | 1194640000                    | 1193950000                  | 2022060000                                 | 1193820000                  | 1257660000                                 |
|     | KTB MH 262620 S4E_* | 10 x 10 x 8              | 260 x 260 x 200   | 1194650000     | 1194660000               | 1194670000                           | 1194680000                        | 1194690000                    | 1193950000                  | 2022060000                                 | 1193820000                  | 1257660000                                 |
| New | KTB MH 302015 S4E_* | 12 x 8 x 6               | 306 x 203 x 150   | 8000108831     | 8000108832               |                                      | 8000108833                        |                               | 8000110193                  | 8000115913                                 | 8000115923                  | 8000115902                                 |
|     | KTB MH 303015 S4E_* | 12 x 12 x 6              | 306 x 306 x 150   | 1194700000     | 1194710000               | 1194720000                           | 1194730000                        | 1194740000                    | 1193960000                  | 2022190000                                 | 1193830000                  | 1257670000                                 |
|     | KTB MH 303020 S4E_* | 12 x 12 x 8              | 306 x 306 x 200   | 1194750000     | 1194760000               | 1194770000                           | 1194780000                        | 1194790000                    | 1193960000                  | 2022190000                                 | 1193830000                  | 1257670000                                 |
|     | KTB MH 352615 S4E_* | 14 x 10 x 6              | 350 x 260 x 150   | 1194800000     | 1194810000               | 1194820000                           | 1194830000                        | 1194840000                    | 1193970000                  | 2022230000                                 | 1193840000                  | 1257680000                                 |
|     | KTB MH 352620 S4E_* | 14 x 10 x 8              | 350 x 260 x 200   | 1194850000     | 1194860000               | 1194870000                           | 1194880000                        | 1194890000                    | 1193970000                  | 2022230000                                 | 1193840000                  | 1257680000                                 |
| New | KTB MH 353515 S4E_* | 14 x 14 x 6              | 350 x 350 x 150   | 8000108834     | 8000108835               |                                      | 8000108836                        |                               | 8000110194                  | 8000115914                                 | 8000115924                  | 8000115903                                 |
| New | KTB MH 353520 S4E_* | 14 x 14 x 8              | 350 x 350 x 200   | 8000108837     | 8000108838               |                                      | 8000108839                        |                               | 8000110194                  | 8000115914                                 | 8000115924                  | 8000115903                                 |
|     | KTB MH 403015 S4E_* | 16 x 12 x 6              | 400 x 300 x 150   | 1194900000     | 1194910000               | 1194920000                           | 1194930000                        | 1194940000                    | 1193980000                  | 2022420000                                 | 1193850000                  | 1257690000                                 |
|     | KTB MH 403020 S4E_* | 16 x 12 x 8              | 400 x 300 x 200   | 1194950000     | 1194960000               | 1194970000                           | 1194980000                        | 1194990000                    | 1193980000                  | 2022420000                                 | 1193850000                  | 1257690000                                 |
| New | KTB MH 404015 S4E_* | 16 x 16 x 6              | 406 x 406 x 150   | 8000108840     | 8000108841               |                                      | 8000108842                        |                               | 8000110195                  | 8000115915                                 | 8000115925                  | 8000115904                                 |
| New | KTB MH 404020 S4E_* | 16 x 16 x 8              | 406 x 406 x 200   | 8000108843     | 8000108844               |                                      | 8000108845                        |                               | 8000110195                  | 8000115915                                 | 8000115925                  | 8000115904                                 |
|     | KTB MH 453815 S4E_* | 18 x 15 x 6              | 458 x 382 x 150   | 1195000000     | 1195010000               | 1195020000                           | 1195030000                        | 1195040000                    | 1193990000                  | 2022590000                                 | 1193860000                  | 1257700000                                 |
|     | KTB MH 453820 S4E_* | 18 x 15 x 8              | 458 x 382 x 200   | 1195050000     | 1195060000               | 1195070000                           | 1195080000                        | 1195090000                    | 1193990000                  | 2022590000                                 | 1193860000                  | 1257700000                                 |
|     | KTB MH 484815 S4E_* | 19 x 19 x 6              | 480 x 480 x 150   | 1195100000     | 1195110000               | 1195120000                           | 1195130000                        | 1195140000                    | 1194000000                  | 2022610000                                 | 1193870000                  | 1257710000                                 |
|     | KTB MH 484820 S4E_* | 19 x 19 x 8              | 480 x 480 x 200   | 1195150000     | 1195160000               | 1195170000                           | 1195180000                        | 1195190000                    | 1194000000                  | 2022610000                                 | 1193870000                  | 1257710000                                 |
| New | KTB MH 504015 S4E_* | 20 x 16 x 6              | 508 x 406 x 150   | 8000108846     | 8000108847               |                                      | 8000108848                        |                               | 8000110196                  | 8000115916                                 | 8000115926                  | 8000115905                                 |
| New | KTB MH 504020 S4E_* | 20 x 16 x 8              | 508 x 406 x 200   | 8000108849     | 8000108850               |                                      | 8000108851                        |                               | 8000110196                  | 8000115916                                 | 8000115926                  | 8000115905                                 |
|     | KTB MH 553515 S4E_* | 21 x 14 x 6              | 550 x 350 x 150   | 1195200000     | 1195210000               | 1195220000                           | 1195230000                        | 1195240000                    | 1194010000                  | 2022650000                                 | 1193880000                  | 1257720000                                 |
|     | KTB MH 553520 S4E_* | 21 x 14 x 8              | 550 x 350 x 200   | 1195250000     | 1195260000               | 1195270000                           | 1195280000                        | 1195290000                    | 1194010000                  | 2022650000                                 | 1193880000                  | 1257720000                                 |
|     | KTB MH 355520 S4E_* | 14 x 21 x 8              | 350 x 550 x 200   | 2698040000     | 2698050000               |                                      |                                   |                               | 2715560000                  | 2716090000                                 |                             |                                            |
| New | KTB MH 624020 S4E_* | 24 x 16 x 8              | 620 x 406 x 200   | 8000108852     | 8000108853               |                                      | 8000108854                        |                               | 8000110198                  | 8000115917                                 | 8000115927                  | 8000115906                                 |
|     | KTB MH 624515 S4E_* | 24 x 18 x 6              | 620 x 450 x 150   | 1195300000     | 1195310000               | 1195320000                           | 1195330000                        | 1195340000                    | 1194020000                  | 2022670000                                 | 1193890000                  | 1257740000                                 |
|     | KTB MH 624520 S4E_* | 24 x 18 x 8              | 620 x 450 x 200   | 1195350000     | 1195360000               | 1195370000                           | 1195380000                        | 1195390000                    | 1194020000                  | 2022670000                                 | 1193890000                  | 1257740000                                 |
|     | KTB MH 456220 S4E_* | 18 x 24 x 8              | 450 x 620 x 200   | 2698060000     | 2698070000               |                                      |                                   |                               | 2716100000                  | 2716110000                                 |                             |                                            |
| New | KTB MH 625015 S4E_* | 24 x 20 x 6              | 620 x 508 x 150   | 8000108855     | 8000108856               |                                      | 8000108857                        |                               | 8000110199                  | 8000115918                                 | 8000115928                  | 8000115907                                 |
| New | KTB MH 625020 S4E_* | 24 x 20 x 8              | 620 x 508 x 200   | 8000108858     | 8000108859               |                                      | 8000108860                        |                               | 8000110199                  | 8000115918                                 | 8000115928                  | 8000115907                                 |
| New | KTB MH 626215 S4E_* | 24 x 24 x 6              | 620 x 620 x 150   | 8000108861     | 8000108862               |                                      |                                   | 8000108863                    | 8000110200                  | 8000115919                                 | 8000115929                  | 8000115908                                 |
| New | KTB MH 626220 S4E_* | 24 x 24 x 8              | 620 x 620 x 200   | 8000108864     | 8000108865               |                                      |                                   | 8000108866                    | 8000110200                  | 8000115919                                 | 8000115929                  | 8000115908                                 |
|     | KTB MH 765015 S4E_* | 30 x 20 x 6              | 762 x 508 x 150   | 1195400000     | 1195410000               | 1195420000                           | 1195430000                        | 1195440000                    | 1194030000                  | 2022680000                                 | 1193900000                  | 1257750000                                 |
|     | KTB MH 765020 S4E_* | 30 x 20 x 8              | 762 x 508 x 200   | 1195450000     | 1195460000               | 1195470000                           | 1195480000                        | 1195490000                    | 1194030000                  | 2022680000                                 | 1193900000                  | 1257750000                                 |
|     | KTB MH 507620 S4E_* | 20 x 30 x 8              | 508 x 762 x 200   | 2698080000     | 2698090000               |                                      |                                   |                               | 2716120000                  | 2716130000                                 |                             |                                            |
| New | KTB MH 766215 S4E_* | 30 x 24 x 6              | 762 x 620 x 150   | 8000108867     | 8000108868               |                                      | 8000108869                        |                               | 8000110201                  | 8000115920                                 | 8000115930                  | 8000115909                                 |
| New | KTB MH 766220 S4E_* | 30 x 24 x 8              | 762 x 620 x 200   | 8000108870     | 8000108872               |                                      | 8000108873                        |                               | 8000110201                  | 8000115920                                 | 8000115930                  | 8000115909                                 |
|     | KTB MH 916115 S4E_* | 36 x 24 x 6              | 914 x 610 x 150   | 1195500000     | 1195510000               | 1195520000                           | 1195530000                        | 1195540000                    | 1194040000                  | 2022740000                                 | 1193910000                  | 1257760000                                 |
|     | KTB MH 916120 S4E_* | 36 x 24 x 8              | 914 x 610 x 200   | 1195550000     | 1195560000               | 1195570000                           | 1195580000                        | 1195590000                    | 1194040000                  | 2022740000                                 | 1193910000                  | 1257760000                                 |
| New | KTB MH 917620 S4E_* | 36 x 30 x 8              | 914 x 762 x 200   | 8000108875     | 8000108877               |                                      | 8000108879                        |                               | 8000116040                  | 8000115921                                 | 8000115931                  | 8000115910                                 |
| New | KTB MH 919120 S4E_* | 36 x 36 x 8              | 914 x 914 x 200   | 8000108880     | 8000108882               |                                      | 8000108884                        |                               | 8000116041                  | 8000115922                                 | 8000115932                  | 8000115911                                 |
|     | KTB MH 987420 S4E_* | 40 x 30 x 8              | 980 x 740 x 200   | 1195600000     | 1195610000               | 1195620000                           | 1195630000                        | 1195640000                    | 1194050000                  | 2022760000                                 | 1193920000                  | 1257770000                                 |

Note: \* Placeholder for number of gland plates (0, 1, 2, 3, 4). \*\*Mounting plate screws sold separately – Order # 0642600000 (set of 4). \*\*\* Mounting Plates Sold Separately.  
Klippon® TB enclosures w/ 2 & 4 gland plates are subject to minimum order quantities.

# Klippon® TB QL – Quarter Lock

## Stainless steel enclosures for industrial areas and potentially explosive atmospheres

The potentially explosive atmospheres of process industry and power generation plants are subject to difficult environmental conditions and growing safety requirements. With their outstanding performance features, Klippon® TB enclosures are ideally suited to meet these challenges. The tried-and-tested and market-leading product range has now been improved in a number of ways. We manufacture and deliver the enclosures according to your individual requirements – fully assembled with terminal blocks, electronic components and cable glands.

### Features:

- 316L Stainless Steel (304 Stainless available upon request)
- Available in 28 standard sizes with 3 standard depths
- Custom sizes available on request
- Equipped with up to four flange plates
- High temperature silicone gasket with compression protection
- Reversible cover with quick release and slot
- Improved temperature performance
- High IP66 protection class
- Integrated earth studs in the cover and lower section
- Welded mounting feet



Class 1 Div 2 A,B,C,D, Zone 1, Zone 2, 21, 22; AEx eb, AEx ta; Ex eb, Ex tb



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### Technical Overview

#### Technical Data

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Enclosure material*                 | Stainless steel 1.4404 (316L) 1.5 mm                                                                    |
| Surface finish                      | electropolished                                                                                         |
| IP protection class                 | IP66 to DIN EN 60529                                                                                    |
| 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 thickness 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 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail              |
| Enclosure attachment                | 4 or 6 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                    | Quarter-turn lock with slotted insert (other inserts available on request)                              |
| Impact resistance                   | 7 J to IEC 60079-0, IK 09 (10J) to DIN EN 50102                                                         |
| Gasket material                     | Silicone                                                                                                |
| Operating temperature range         | -60 °C...+135 °C                                                                                        |
| Torque - lid and gland plate screws | 2.5 Nm                                                                                                  |
| <b>Note</b>                         | * Painted enclosures are available on request.                                                          |

### Approvals for empty enclosures

|                   |                                                                                                   |                 |                                             |
|-------------------|---------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|
| ATEX certificate  | IBExU14ATEX1028 U                                                                                 | EAC             | C-DE.HB07.B.00089/20 / C-DE.AQ54.B.00251/19 |
| ATEX marking      | II 2G Ex eb IIC Gb<br>II 2D Ex tb IIIC Db                                                         | cULus<br>DNV GL | E243298<br>TAE000013S                       |
| IECEx certificate | IECEx IBE 14.0004U                                                                                |                 |                                             |
| IECEx marking     | Ex eb IIC Gb<br>Ex tb IIIC Db                                                                     | CCOE<br>INMETRO | In preparation<br>IEEx 17.0020U             |
| CCCEX certificate | 2020322303002357                                                                                  | AEx             | E223792                                     |
| CCCEX marking     | Ex e IIC Gb, Ex tD A21 IP66/67                                                                    | Miscellaneous   | EN 45545, DIN EN 15085-2/CL2                |
| <b>Note</b>       | The Klippon® TB enclosure range can be pre-fitted in our customer specific production department. |                 |                                             |

Klippon® TB Quarter Turn Lock Enclosures

KTBL QL 316SS QTL

| Model                                                                                                                                                                                                                                                                         |                        | H x W x D<br>(inches) | H x W x D<br>(mm) | 0 Gland<br>Plates | 1 Gland Plate<br>(below) | 2 Gland Plates<br>(above +<br>below) | 3 Gland<br>plates<br>(below +<br>sides) | 4 Gland<br>plates<br>(all sides) | ***Mounting<br>Plates Steel | ***Mounting<br>Plates Steel<br>Pre-drilled | ***Mounting<br>Plates 304SS | ***Mounting<br>Plates 304SS<br>Pre-drilled |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-------------------|--------------------------|--------------------------------------|-----------------------------------------|----------------------------------|-----------------------------|--------------------------------------------|-----------------------------|--------------------------------------------|
|                                                                                                                                                                                                                                                                               | KTBL QL 221513 S4E_*   | 9 x 6 x 5             | 229 x 152 x 133   | 1199850000        | 1199860000               | 1199870000                           | 1199880000                              | 1199890000                       | 1193930000                  | 2022050000                                 | 1193810000                  | 1257650000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 262615 S4E_*   | 10 x 10 x 6           | 260 x 260 x 150   | 1199900000        | 1199910000               | 1199920000                           | 1199930000                              | 1199940000                       | 1193950000                  | 2022060000                                 | 1193820000                  | 1257660000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 262620 S4E_*   | 10 x 10 x 8           | 260 x 260 x 200   | 1199950000        | 1199960000               | 1199970000                           | 1199980000                              | 1199990000                       | 1193950000                  | 2022060000                                 | 1193820000                  | 1257660000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 302015 S4E_*   | 12 x 8 x 6            | 306 x 203 x 150   | 8000109883        | 8000109885               |                                      | 8000109886                              |                                  | 8000110193                  | 8000115913                                 | 8000115923                  | 8000115902                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 303015 S4E_*   | 12 x 12 x 6           | 306 x 306 x 150   | 1200010000        | 1200020000               | 1200030000                           | 1200040000                              | 1200050000                       | 1193960000                  | 2022190000                                 | 1193830000                  | 1257670000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 303020 S4E_*   | 12 x 12 x 8           | 306 x 306 x 200   | 1200060000        | 1200070000               | 1200080000                           | 1200090000                              | 1200100000                       | 1193960000                  | 2022190000                                 | 1193830000                  | 1257670000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 352615 S4E_*   | 14 x 10 x 6           | 350 x 260 x 150   | 1200110000        | 1200120000               | 1200130000                           | 1200140000                              | 1200150000                       | 1193970000                  | 2022230000                                 | 1193840000                  | 1257680000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 352620 S4E_*   | 14 x 10 x 8           | 350 x 260 x 200   | 1200160000        | 1200170000               | 1200180000                           | 1200190000                              | 1200210000                       | 1193970000                  | 2022230000                                 | 1193840000                  | 1257680000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 353515 S4E_*   | 14 x 14 x 6           | 350 x 350 x 150   | 8000109887        | 8000109888               |                                      | 8000109889                              |                                  | 8000110194                  | 8000115914                                 | 8000115924                  | 8000115903                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 353520 S4E_*   | 14 x 14 x 8           | 350 x 350 x 200   | 8000109890        | 8000109891               |                                      | 8000109892                              |                                  | 8000110194                  | 8000115914                                 | 8000115924                  | 8000115903                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 403015 S4E_*   | 16 x 12 x 6           | 400 x 300 x 150   | 1200220000        | 1200230000               | 1200240000                           | 1200250000                              | 1200260000                       | 1193980000                  | 2022420000                                 | 1193850000                  | 1257690000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 403020 S4E_*   | 16 x 12 x 8           | 400 x 300 x 200   | 1200270000        | 1200280000               | 1200290000                           | 1200310000                              | 1200320000                       | 1193980000                  | 2022420000                                 | 1193850000                  | 1257690000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 404015 S4E_*   | 16 x 16 x 6           | 400 x 400 x 150   | 8000109893        | 8000109894               |                                      | 8000109895                              |                                  | 8000110195                  | 8000115915                                 | 8000115925                  | 8000115904                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 404020 S4E_*   | 16 x 16 x 8           | 400 x 400 x 200   | 8000109896        | 8000109897               |                                      | 8000109898                              |                                  | 8000110195                  | 8000115915                                 | 8000115925                  | 8000115904                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 453815 S4E_*   | 18 x 15 x 6           | 458 x 382 x 150   | 1200330000        | 1200340000               | 1200350000                           | 1200360000                              | 1200370000                       | 1193990000                  | 2022590000                                 | 1193860000                  | 1257700000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 453820 S4E_*   | 18 x 15 x 8           | 458 x 382 x 200   | 1200380000        | 1200390000               | 1200410000                           | 1200420000                              | 1200430000                       | 1193990000                  | 2022590000                                 | 1193860000                  | 1257700000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 484815 S4E_*   | 19 x 19 x 6           | 480 x 480 x 150   | 1200440000        | 1200450000               | 1200460000                           | 1200470000                              | 1200480000                       | 1194000000                  | 2022610000                                 | 1193870000                  | 1257710000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 484820 S4E_*   | 19 x 19 x 8           | 480 x 480 x 200   | 1200490000        | 1200510000               | 1200520000                           | 1200530000                              | 1200540000                       | 1194000000                  | 2022610000                                 | 1193870000                  | 1257710000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 504015 S4E3    | 20 x 16 x 6           | 508 x 406 x 150   | 8000109899        | 8000109900               |                                      | 8000109901                              |                                  | 8000110196                  | 8000115916                                 | 8000115926                  | 8000115905                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 504020 S4E0    | 20 x 16 x 8           | 508 x 406 x 200   | 8000109902        | 8000109903               |                                      | 8000109904                              |                                  | 8000110196                  | 8000115916                                 | 8000115926                  | 8000115905                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 553515 S4E_*   | 21 x 14 x 6           | 550 x 350 x 150   | 1200550000        | 1200560000               | 1200570000                           | 1200580000                              | 1200590000                       | 1194010000                  | 2022650000                                 | 1193880000                  | 1257720000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 553520 S4E_*   | 21 x 14 x 8           | 550 x 350 x 200   | 1200610000        | 1200620000               | 1200630000                           | 1200640000                              | 1200650000                       | 1194010000                  | 2022650000                                 | 1193880000                  | 1257720000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 624020 S4E_*   | 24 x 16 x 8           | 620 x 406 x 200   | 8000109905        | 8000109906               |                                      | 8000109907                              |                                  | 8000110198                  | 8000115917                                 | 8000115927                  | 8000115906                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 624515 S4E_*   | 24 x 18 x 6           | 620 x 450 x 150   | 1200660000        | 1200670000               | 1200680000                           | 1200690000                              | 1200710000                       | 1194020000                  | 2022670000                                 | 1193890000                  | 1257740000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 624520 S4E_*   | 24 x 18 x 8           | 620 x 450 x 200   | 1200720000        | 1200730000               | 1200740000                           | 1200750000                              | 1200760000                       | 1194020000                  | 2022670000                                 | 1193890000                  | 1257740000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 625015 S4E_*   | 24 x 20 x 6           | 620 x 508 x 150   | 8000109908        | 8000109909               |                                      | 8000109910                              |                                  | 8000110199                  | 8000115918                                 | 8000115928                  | 8000115907                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 625020 S4E_*   | 24 x 20 x 8           | 620 x 508 x 200   | 8000109911        | 8000109912               |                                      | 8000109913                              |                                  | 8000110199                  | 8000115918                                 | 8000115928                  | 8000115907                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 626215 S4E_*   | 24 x 24 x 6           | 620 x 620 x 150   | 8000109914        | 8000109915               |                                      | 8000109916                              |                                  | 8000110200                  | 8000115919                                 | 8000115929                  | 8000115908                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 626220 S4E_*   | 24 x 24 x 8           | 620 x 620 x 200   | 8000109917        | 8000109918               |                                      | 8000109919                              |                                  | 8000110200                  | 8000115919                                 | 8000115929                  | 8000115908                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 765015 S4E_*   | 30 x 20 x 6           | 762 x 508 x 150   | 1200770000        | 1200780000               | 1200790000                           | 1200810000                              | 1200820000                       | 1194030000                  | 2022680000                                 | 1193900000                  | 1257750000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 765020 S4E_*   | 30 x 20 x 8           | 762 x 508 x 200   | 1200830000        | 1200840000               | 1200850000                           | 1200860000                              | 1200870000                       | 1194030000                  | 2022680000                                 | 1193900000                  | 1257750000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 766215 S4E_*   | 30 x 24 x 6           | 762 x 620 x 150   | 8000109920        | 8000109921               |                                      | 8000109922                              |                                  | 8000110201                  | 8000115920                                 | 8000115930                  | 8000115909                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 766220 S4E_*   | 30 x 24 x 8           | 762 x 620 x 200   | 8000109923        | 8000109924               |                                      | 8000109925                              |                                  | 8000110201                  | 8000115920                                 | 8000115930                  | 8000115909                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 916115 S4E_*   | 36 x 24 x 6           | 914 x 610 x 150   | 1200940000        | 1200890000               | 1200910000                           | 1200920000                              | 1200930000                       | 1194040000                  | 2022740000                                 | 1193910000                  | 1257760000                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 916120 S4E_*   | 36 x 24 x 8           | 914 x 610 x 200   | 1200880000        | 1200950000               | 1200960000                           | 1200970000                              | 1200980000                       | 1194040000                  | 2022740000                                 | 1193910000                  | 1257760000                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 917620 S4E_*   | 36 x 30 x 8           | 914 x 762 x 200   | 8000109926        | 8000109927               |                                      | 8000109928                              |                                  | 8000116040                  | 8000115921                                 | 8000115931                  | 8000115910                                 |
| New                                                                                                                                                                                                                                                                           | KTBL QL 919120 S4E_*   | 36 x 36 x 8           | 914 x 914 x 200   | 8000109929        | 8000109930               |                                      | 8000109931                              |                                  | 8000116041                  | 8000115922                                 | 8000115932                  | 8000115911                                 |
|                                                                                                                                                                                                                                                                               | KTBL QL 987420 S4E_*   | 40 x 30 x 8           | 980 x 740 x 200   | 1200990000        | 1201010000               | 1201020000                           | 1201030000                              | 1201040000                       | 1194050000                  | 2022760000                                 | 1193920000                  | 1257770000                                 |
| KTBL QL<br>Large<br>316SS QTL                                                                                                                                                                                                                                                 | KTBLQL1005030S4B1 LL1  | 40 x 20 x 12          | 1000 x 500 x 300  |                   | 2698400000               |                                      |                                         |                                  | **Included                  |                                            |                             |                                            |
|                                                                                                                                                                                                                                                                               | KTBLQL1258040S4B1 LL1  | 50 x 31 x 16          | 1250 x 800 x 400  |                   | 2698420000               |                                      |                                         |                                  | **Included                  |                                            |                             |                                            |
|                                                                                                                                                                                                                                                                               | KTBLQL15010050S4B1 LL1 | 60 x 40 x 20          | 1500 x 1000 x 500 |                   | 2698430000               |                                      |                                         |                                  | **Included                  |                                            |                             |                                            |
| Note: * KTB Large enclosures are offered in 1 GP version only as standard item. Custom design available. **Mounting plate screws sold separately # 0642600000 (4).<br>*** Mounting Plates Sold Separately; Klippon® TB QL enclosures are subject to minimum order quantities. |                        |                       |                   |                   |                          |                                      |                                         |                                  |                             |                                            |                             |                                            |

# Klippon® TB FS – Fixing Screw

## Stainless steel enclosures for industrial areas and potentially explosive atmospheres

Klippon® TB enclosures have special performance features for growing safety requirements and challenging environmental conditions in the potentially explosive atmospheres of process industry and power generation plants. The Klippon® TB FS enclosure series complements our Klippon® TB MH and Klippon® TB QL standard enclosures. On request, we manufacture and deliver these enclosures custom-assembled with terminal blocks, electronic components and cable glands.

### Features:

- Available in 12 sizes and 3 standard depths
- Equipped with up to four flange plates
- Gasket with compression protection
- Cover lock outside the sealed zone
- Improved temperature performance
- High protection classes: IP66 and IP67
- Integrated earth studs in the cover and lower section
- Welded mounting feet



### Ordering Data

| Description         | Height x Width x Depth<br>in inches | Height x Width x Depth<br>in mm | 0 Gland Plates | 1 Gland Plate<br>(below) | 2 Gland Plates<br>(above + below) | 3 Gland plates<br>(below + sides) | 4 Gland plates<br>(all sides) |
|---------------------|-------------------------------------|---------------------------------|----------------|--------------------------|-----------------------------------|-----------------------------------|-------------------------------|
| KTb FS 221513 S4E_* | 9 x 6 x 5                           | 229 x 152 x 133                 | 1195650000     | 1195660000               | 1195670000                        | 1195680000                        | 1195690000                    |
| KTb FS 262615 S4E_* | 10 x 10 x 6                         | 260 x 260 x 150                 | 1195700000     | 1195710000               | 1195720000                        | 1195730000                        | 1195740000                    |
| KTb FS 262620 S4E_* | 10 x 10 x 8                         | 260 x 260 x 200                 | 1195750000     | 1195760000               | 1195770000                        | 1195780000                        | 1195790000                    |
| KTb FS 303015 S4E_* | 12 x 8 x 6                          | 306 x 203 x 150                 | 1195800000     | 1195810000               | 1195820000                        | 1195830000                        | 1195840000                    |
| KTb FS 303020 S4E_* | 12 x 12 x 6                         | 306 x 306 x 150                 | 1195850000     | 1195860000               | 1195870000                        | 1195880000                        | 1195890000                    |
| KTb FS 352615 S4E_* | 12 x 12 x 8                         | 306 x 206 x 200                 | 1195900000     | 1195910000               | 1195920000                        | 1195930000                        | 1195940000                    |
| KTb FS 352620 S4E_* | 14 x 10 x 6                         | 350 x 260 x 150                 | 1195950000     | 1195960000               | 1195970000                        | 1195980000                        | 1195990000                    |
| KTb FS 403015 S4E_* | 16 x 12 x 6                         | 400 x 300 x 150                 | 1196000000     | 1196010000               | 1196020000                        | 1196030000                        | 1196040000                    |
| KTb FS 403020 S4E_* | 16 x 12 x 8                         | 400 x 300 x 200                 | 1196050000     | 1196060000               | 1196070000                        | 1196080000                        | 1196090000                    |
| KTb FS 453815 S4E_* | 18 x 15 x 6                         | 458 x 382 x 150                 | 1196100000     | 1196110000               | 1196120000                        | 1196130000                        | 1196140000                    |
| KTb FS 453820 S4E_* | 18 x 15 x 8                         | 458 x 382 x 200                 | 1196150000     | 1196160000               | 1196170000                        | 1196180000                        | 1196190000                    |
| KTb FS 484815 S4E_* | 19 x 19 x 6                         | 480 x 480 x 150                 | 1196200000     | 1196210000               | 1196220000                        | 1196230000                        | 1196240000                    |
| KTb FS 484820 S4E_* | 19 x 19 x 8                         | 480 x 480 x 200                 | 1196250000     | 1196260000               | 1196270000                        | 1196280000                        | 1196290000                    |
| KTb FS 553515 S4E_* | 21 x 14 x 6                         | 550 x 350 x 150                 | 1196300000     | 1196310000               | 1196320000                        | 1196330000                        | 1196340000                    |
| KTb FS 553520 S4E_* | 21 x 14 x 8                         | 550 x 350 x 200                 | 1196350000     | 1196360000               | 1196370000                        | 1196380000                        | 1196390000                    |
| KTb FS 624515 S4E_* | 24 x 18 x 6                         | 620 x 450 x 150                 | 1196400000     | 1196410000               | 1196420000                        | 1196430000                        | 1196440000                    |
| KTb FS 624520 S4E_* | 24 x 18 x 8                         | 620 x 450 x 200                 | 1196450000     | 1196460000               | 1196470000                        | 1196480000                        | 1196490000                    |
| KTb FS 765015 S4E_* | 30 x 20 x 6                         | 762 x 508 x 150                 | 1196500000     | 1196510000               | 1196520000                        | 1196530000                        | 1196540000                    |
| KTb FS 765020 S4E_* | 30 x 20 x 8                         | 762 x 508 x 200                 | 1196550000     | 1196560000               | 1196570000                        | 1196580000                        | 1196590000                    |
| KTb FS 916115 S4E_* | 36 x 24 x 6                         | 914 x 610 x 150                 | 1196600000     | 1196610000               | 1196620000                        | 1196630000                        | 1196640000                    |
| KTb FS 916120 S4E_* | 36 x 24 x 8                         | 914 x 610 x 200                 | 1196650000     | 1196660000               | 1196670000                        | 1196680000                        | 1196690000                    |
| KTb FS 987420 S4E_* | 40 x 30 x 8                         | 980 x 740 x 200                 | 1196700000     | 1196710000               | 1196720000                        | 1196730000                        | 1196740000                    |

**Note** \* Placeholder for the number of gland plates (0, 1, 2, 3, 4). The Klippon® TB FS enclosures are subject to minimum order quantities.

### Technical Data

|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Enclosure material*                 | Stainless steel 1.4404 (316L) 1.5 mm                                                       |
| Surface finish                      | electropolished                                                                            |
| IP protection class                 | IP66 / IP67 to DIN EN 60529                                                                |
| 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 thickness 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 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail |
| Enclosure attachment                | 4 or 6 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                                          |
| Cover attachment                    | M6 hexagonal slotted screws AF 10                                                          |
| Impact resistance                   | 7J to IEC 60079-0, IK 09 (10J) to DIN EN 50102                                             |
| Gasket material                     | Silicone                                                                                   |
| Operating temperature range         | -60 °C...+105 °C (IP66/IP67), -60 °C...+135 °C (IP66)                                      |
| Torque – lid and gland plate screws | 2.5 Nm                                                                                     |

**Note** \*Painted enclosures are available on request.

# Klippon® STB – Small Terminal Box

## 316L Stainless Steel Enclosures

Ideally suited for the energy, process and transportation industries, the Klippon® STB range is the perfect complement to our existing Klippon® enclosure product line. Our enclosures comply with international standards.

Some of the many advantages of these cases are:

- Available in stainless steel or in powder-coated painted steel
- Higher temperature resistant seals than the standard
- Flexible options when mounting the internal rail
- The gasket is protected against compression; ensuring 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 a sturdy enclosure installation



Class 1 Div 2 A,B,C,D, Zone 1, Zone 2, 21, 22; AEx eb, AEx ta; Ex eb, Ex tb



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[www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)

## Ordering Data

| Description      | Height x Width x Depth in inches | Height x Width x Depth in mm | Mirror-polish | Electropolished | Powder-coated (RAL7032) |
|------------------|----------------------------------|------------------------------|---------------|-----------------|-------------------------|
| Klippon® STB 1   | 4.75 x 4.75 x 3.15               | 120 x 120 x 80               | 1002690000    | 1058810000      | 1024970000              |
| Klippon® STB 1.1 | 5.90 x 4.75 x 3.15               | 150 x 120 x 80               | 1002750000    | 1058820000      | 1024980000              |
| Klippon® STB 2   | 5.90 x 5.90 x 3.51               | 150 x 150 x 90               | 1002740000    | 1058830000      | 1024990000              |
| Klippon® STB 2.1 | 7.50 x 5.90 x 3.51               | 190 x 150 x 90               | 1002730000    | 1058840000      | 1025010000              |
| Klippon® STB 3   | 7.50 x 7.50 x 3.95               | 190 x 190 x 100              | 1002720000    | 1058850000      | 1025020000              |
| Klippon® STB 4   | 8.42 x 8.42 x 4.75               | 250 x 250 x 120              | 1002710000    | 1058860000      | 1025030000              |
| Klippon® STB 5   | 6.30 x 14.96 x 4.75              | 160 x 380 x 120              | 1002700000    | 1058880000      | 1025040000              |
| Klippon® STB 6   | 7.50 x 15.75 x 5.12              | 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 standards

**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) in 1.50 mm                                                    | Steel sheet 1.0330 in 1.50 mm                                                               |
| Surface finish        | Mirror-polished, electropolished                                                            | Powder-coated RAL 7032                                                                      |
| IP protection class   | IP 66                                                                                       | IP 66                                                                                       |
| NEMA Rating           | 4, 4x, 6, 6P                                                                                |                                                                                             |
| Earthing              | Enclosure base part: internal / external M6 stainless steel<br>Lid: M6 x 10 stainless steel | Enclosure base part: internal / external M6 stainless steel<br>Lid: M6 x 10 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 in accordance with IEC 60079-0                                                           | 10J industrial version in accordance with DIN EN 50102                                      |
| Gasket material       | Silicone -60 °C...+100 °C *                                                                 | Silicone -60 °C...+120 °C                                                                   |
| Lid screws, torque    | 2.5 Nm                                                                                      | 2.5 Nm                                                                                      |
| <b>Note</b>           | * +120 °C only for industrial applications                                                  |                                                                                             |

### Approvals for empty enclosures

|                   | Stainless steel                                                    | Sheet steel                                 |
|-------------------|--------------------------------------------------------------------|---------------------------------------------|
| ATEX certificate  | IBExU07ATEX1147 U                                                  |                                             |
| ATEX marking      | Ⓔ II 2G Ex eb IIC Gb , Ⓔ II 1G Ex ia IIC Ga, Ⓔ II 2D Ex tb IIIC Db |                                             |
| IECEx certificate | IECEx IBE 09.0018U                                                 |                                             |
| IECEx marking     | Ex eb IIC Gb, Ex ia IIC Ga, Ex tb IIIC Db                          |                                             |
| AEx               | E223792                                                            |                                             |
| cULus             | E197061 and E256877                                                |                                             |
| Lloyds Register   | 08/20032                                                           | 08/20032                                    |
| INMETRO           | in preparation                                                     |                                             |
| EAC               | C-DE.HB07.B.00089/20 / C-DE.AQ54.B.00251/19                        | C-DE.HB07.B.00089/20 / C-DE.AQ54.B.00251/19 |

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

# Klippon® K – Aluminium Enclosures

Klippon® K-Series aluminium enclosures can be used in a variety of applications, e.g. for the assembly of modular terminal blocks, 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 manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.



Discover more in our Weidmüller Configurator:

[www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)



Ex enclosures are Class 1 Div 2 A,B,C,D, Zone 1, Zone 2, 21, 22; AEx eb, AEx ta; Ex eb, Ex tb

## Ordering Data

| Description   | Height x Width x Depth<br>in inches | Height x Width x Depth<br>in mm | Powder-coated (RAL 7001)*                                                                                                |                            |                          | Unpainted          |                            |                          |
|---------------|-------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|--------------------|----------------------------|--------------------------|
|               |                                     |                                 | Standard                                                                                                                 |                            | Ex Enclosure**           | Standard           |                            | Ex enclosure**           |
|               |                                     |                                 | CR<br>moulded seal                                                                                                       | Silicone<br>moulded seal** | Silicone<br>moulded seal | CR<br>moulded seal | Silicone<br>moulded seal** | Silicone<br>moulded seal |
| Klippon® K 0  | 1.77 x 1.97 x 1.18                  | 45 x 50 x 30                    | 9529090000                                                                                                               | 1937920000                 |                          | 0573200000         | 1939760000                 |                          |
| Klippon® K 01 | 2.52 x 2.28 x 1.34                  | 64 x 58 x 34                    | 9529100000                                                                                                               | 1937850000                 |                          | 1565240000         | 1939540000                 |                          |
| Klippon® K 02 | 2.52 x 3.86 x 1.34                  | 64 x 98 x 34                    | 9529110000                                                                                                               | 1937840000                 |                          | 1565250000         | 1939550000                 |                          |
| Klippon® K 1  | 2.75 x 2.75 x 1.77                  | 70 x 70 x 45                    | 9529120000                                                                                                               | 1937630000                 | 1329630000               | 0342000000         | 1939560000                 | 9526840000               |
| Klippon® K 11 | 3.15 x 2.95 x 2.25                  | 80 x 75 x 57                    | 9529130000                                                                                                               | 1937910000                 | 1329640000               | 0573300000         | 1939570000                 | 9526850000               |
| Klippon® K 2  | 2.75 x 3.94 x 1.77                  | 70 x 100 x 45                   | 9529140000                                                                                                               | 1937930000                 | 1329650000               | 0342100000         | 1939580000                 | 9526860000               |
| Klippon® K 21 | 3.15 x 4.92 x 2.25                  | 80 x 125 x 57                   | 9529150000                                                                                                               | 1937830000                 | 1328120000               | 0573400000         | 1939590000                 | 9526870000               |
| Klippon® K 3  | 2.75 x 6.94 x 1.77                  | 70 x 165 x 45                   | 9529160000                                                                                                               | 1937900000                 | 1329670000               | 0342200000         | 1939600000                 | 9526880000               |
| Klippon® K 31 | 3.15 x 6.89 x 2.25                  | 80 x 175 x 57                   | 9529170000                                                                                                               | 1937820000                 | 1329680000               | 0573500000         | 1939610000                 | 9526890000               |
| Klippon® K 32 | 3.15 x 9.84 x 2.16                  | 80 x 250 x 55                   | 9529180000                                                                                                               | 1937810000                 | 1329690000               | 1565260000         | 1939620000                 | 9526900000               |
| Klippon® K 4  | 3.23 x 5.12 x 2.83                  | 82 x 130 x 72                   | 9529190000                                                                                                               | 1937890000                 | 1329700000               | 0342300000         | 1939630000                 | 9526910000               |
| Klippon® K 41 | 4.72 x 4.80 x 3.15                  | 120 x 122 x 81                  | 9529200000                                                                                                               | 1937800000                 | 1329710000               | 1565270000         | 1939640000                 | 9526920000               |
| Klippon® K 5  | 5.12 x 6.69 x 3.54                  | 130 x 170 x 90                  | 9529210000                                                                                                               | 1937860000                 | 1329720000               | 0342400000         | 1939650000                 | 9526930000               |
| Klippon® K 51 | 4.72 x 8.66 x 3.19                  | 120 x 220 x 81                  | 9529220000                                                                                                               | 1937750000                 | 1328130000               | 1565280000         | 1939660000                 | 9526940000               |
| Klippon® K 52 | 6.30 x 6.30 x 3.58                  | 160 x 160 x 91                  | 9529230000                                                                                                               | 1937740000                 | 1329730000               | 1565290000         | 1939670000                 | 9526950000               |
| Klippon® K 6  | 6.30 x 7.87 x 3.94                  | 160 x 200 x 100                 | 9529240000                                                                                                               | 1937870000                 | 1329740000               | 0342500000         | 1939690000                 | 9526960000               |
| Klippon® K 61 | 6.30 x 10.24 x 3.58                 | 160 x 260 x 91                  | 9529250000                                                                                                               | 1937730000                 | 1328140000               | 0573600000         | 1939700000                 | 9526970000               |
| Klippon® K 7  | 6.30 x 13.78 x 3.94                 | 160 x 350 x 100                 | 9529260000                                                                                                               | 1937880000                 | 1329750000               | 0342600000         | 1939710000                 | 9526980000               |
| Klippon® K 71 | 9.06 x 11.02 x 4.37                 | 230 x 280 x 111                 | 9529270000                                                                                                               | 1937720000                 | 1329770000               | 0573700000         | 1939730000                 | 9526990000               |
| <b>Note</b>   |                                     |                                 | *Colour variations may occur under certain circumstances, **Delivery time on request, Ex enclosures available on request |                            |                          |                    |                            |                          |

## Technical Overview

### Features

- Two surfaces: natural and powder-coated
- High IP protection up to IP68
- 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

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

### Approvals for empty enclosures

|                           | Ex                                                                                                                                            | Standard                                    |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| ATEX certificate          | IBExU12ATEX1144 U                                                                                                                             |                                             |
| ATEX marking              | II 2G Ex e IIC Gb or II 2G Ex eb IIC<br>II 2D Ex t IIC Db or II 2D Ex tb IIC                                                                  |                                             |
| IECEx certificate         | IECEx IBE 13.0001U                                                                                                                            |                                             |
| IECEx marking             | Ex e IIC Gb or Ex eb IIC<br>Ex tb IIC Db or Ex tb IIC                                                                                         |                                             |
| EAC                       | C-DE.HB07.B.00089/20                                                                                                                          | C-DE.HB07.B.00089/20 / C-DE.AQ54.B.00251/19 |
| cULus                     | cULus E197061 (Ord. Loc.)                                                                                                                     | E197061                                     |
| Russian Maritime Register | 19.00108.272                                                                                                                                  | 19.00108.272                                |
| DNV GL                    | TAE00002SM                                                                                                                                    | TAE00002SM                                  |
| Installation              | The Klippon® K enclosure range can be pre-fitted in our customer specific production department according to your wishes.                     |                                             |
| <b>Note</b>               | This enclosure range is component certified. If other electrical components are inserted into the case, additional certification is required. |                                             |

# Klippon® POK – Fiberglass Reinforced Polyester Enclosures

The Klippon® POK range of polyester enclosures is designed to protect and integrate with general purpose electrical and electronic equipment as well as control components in harsh environments or potentially explosive atmospheres. Our customer-specific assembly service can provide a fully customized enclosure solution.

## Features:

- For use in potentially explosive atmospheres and industrial applications
- Extremely robust with a high impact resistance
- Approved to the latest international standards
- M4 or M6 mounting elements integrated into enclosure body for installation of mounting plates, mounting rails, printed circuit boards etc.
- Material: UV Resistant Fiberglass Reinforced Polyester
- IP Rating: IP66/IP67 NEMA 4/4X
- Temperature Rating: -50C to 130C (Gray Cover)
- Flame Rating: UL94V0



Ex enclosures are Class 1 Div 2 A,B,C,D, Zone 1,  
Zone 2, 21, 22; AEx eb, AEx ta; Ex eb, Ex tb

## Ordering Data

| Description         | Height x Width x Depth in inches | Height x Width x Depth in mm | Standard (grey finish) | Ex Enclosures (black finish) | Reference Product |
|---------------------|----------------------------------|------------------------------|------------------------|------------------------------|-------------------|
| Klippon® POK 080806 | 2.95 x 3.15 x 2.17               | 75 x 80 x 55                 | 1305810000             | 1306000000                   | Klippon® POK 1    |
| Klippon® POK 081106 | 2.95 x 4.33 x 2.21               | 75 x 110 x 56                | 1305820000             | 1306010000                   | Klippon® POK 2    |
| Klippon® POK 081606 | 2.95 x 6.30 x 2.21               | 75 x 160 x 56                | 1305830000             | 1306020000                   | Klippon® POK 3    |
| Klippon® POK 081906 | 2.95 x 7.48 x 2.17               | 75 x 190 x 55                | 1305840000             | 1306030000                   | Klippon® POK 31   |
| Klippon® POK 082306 | 2.95 x 9.06 x 2.21               | 75 x 230 x 56                | 1305850000             | 1306040000                   | Klippon® POK 32   |
| Klippon® POK 121209 | 4.72 x 4.80 x 3.54               | 120 x 122 x 90               | 1305870000             | 1306050000                   | Klippon® POK 4    |
| Klippon® POK 122209 | 4.72 x 8.66 x 3.54               | 120 x 220 x 90               | 1305880000             | 1306070000                   | Klippon® POK 5    |
| Klippon® POK 161609 | 6.30 x 6.30 x 3.54               | 160 x 160 x 90               | 1305890000             | 1306080000                   | Klippon® POK 51   |
| Klippon® POK 162609 | 6.30 x 10.24 x 3.54              | 160 x 260 x 90               | 1305900000             | 1306090000                   | Klippon® POK 6    |
| Klippon® POK 163609 | 6.30 x 14.17 x 3.54              | 160 x 360 x 90               | 1305910000             | 1306100000                   | Klippon® POK 7    |
| Klippon® POK 165609 | 6.30 x 22.01 x 3.54              | 160 x 560 x 90               | 1305920000             | 1306110000                   | Klippon® POK 71   |
| Klippon® POK 252512 | 9.84 x 10.04 x 4.72              | 250 x 255 x 120              | 1305930000             | 1306120000                   | Klippon® POK 8    |
| Klippon® POK 252516 | 9.84 x 10.04 x 6.30              | 250 x 255 x 160.5            | 1305980000             | 1306170000                   | Klippon® POK 9    |
| Klippon® POK 254012 | 9.84 x 15.75 x 4.72              | 250 x 400 x 120              | 1305940000             | 1306130000                   | Klippon® POK 91   |
| Klippon® POK 254016 | 9.84 x 15.75 x 6.30              | 250 x 400 x 160.5            | 1305990000             | 1306180000                   | Klippon® POK 10   |
| Klippon® POK 256012 | 9.84 x 23.62 x 4.72              | 250 x 600 x 120              | 1305950000             | 1306140000                   | Klippon® POK 11   |
| Klippon® POK 404012 | 15.75 x 15.75 x 4.72             | 405 x 400 x 120              | 1305970000             | 1306150000                   | Klippon® POK 12   |

## 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 to DIN EN 60529                                             | IP 66 to DIN EN 60529                                  |
| NEMA Rating                  | 4, 4x                                                             | 4, 4x                                                  |
| 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 screw                             |
| Lid fixing                   | M4/M6 slothead / crosshead screws from stainless steel            | M4/M6 slothead / crosshead screws from stainless steel |
| Impact Resistance            | 7J to IEC 60079-0                                                 | IK08 (5J) to DIN EN 50102                              |
| Gasket material              | Silicone (VMQ)                                                    | Chloroprene                                            |
| Temperature range            | -55 °C...+100 °C                                                  | -40 °C...+100 °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                                           |
| Surface resistance (in ohms) | < 10 <sup>9</sup> Ohm                                             | 10 <sup>12</sup> Ohm                                   |
| Flammability                 | UL 94 V0, self extinguishing                                      | UL 94 V0, self extinguishing                           |
| Toxicity                     | Halogen and cadmium-free                                          |                                                        |

## Approvals for empty enclosures

|                           | Ex                                                                                      | Standard                                    |
|---------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------|
| ATEX certificate          | IBExU13ATEX1003 U                                                                       |                                             |
| ATEX marking              | Ⓔ II 2G Ex e IIC Gb or Ⓔ II 2G Ex eb IIC<br>Ⓔ II 2D Ex tb IIIC Db or Ⓔ II 2D Ex tb IIIC |                                             |
| IECEx certificate         | IECEx IBE 13.0003U                                                                      |                                             |
| IECEx marking             | Ex e IIC Gb or Ex eb IIC<br>Ex tb IIIC Db or Ex tb IIIC                                 |                                             |
| EAC                       | C-DE.HB07.B.00089/20                                                                    | C-DE.HB07.B.00089/20 / C-DE.AQ54.B.00251/19 |
| cULus                     | E256877                                                                                 | E256877                                     |
| Lloyd's Register          | 14/20001                                                                                | 14/20001                                    |
| Russian Maritime Register | 19.00109.272                                                                            |                                             |
| DNV GL                    | TAE00002R2                                                                              | TAE00002R2                                  |
| AEx                       | E223792                                                                                 |                                             |
| CCCEX                     | 2020322303003288                                                                        |                                             |

# Cable Glands & Accessories

## Features:

- Glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta
- Approved for Zone 1 and 2 for Gas Groups IIA, IIB and IIC, Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC
- Certified for Zone and Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC
- "Stuffing glands" provide a controlled pull resistant environmental displacement seal on the cable outer sheath, minimizing damage to cables that exhibit "cold flow" characteristics.
- Maintains IP66 & IP68 to 50 meters
- IP O-ring seal as standard on metric entry threads
- Material: Nickel Plated Brass w/ Neoprene O-Ring/Gasket
- Temperature Rating: -35°C to 90°C
- The "A2L" version is designed to accommodate Unarmored and Armored cables where sealing and retention is required only on the outer sheath.

## Compliance Standards:

- EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
- IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529
- C22.2, CAN/CSA 60079-0/1/7/31
- UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

## Approvals



## Cable Glands



Fig. 1: Nickel Plated Brass Gland Kit for Unarmored Cable



Fig. 2: Fully Nickel Plated Brass Marine Shipboard Gland Kit for Unarmored Cable



Fig. 3: Brass Marine Shipboard Barrier Gland Kit for Armored, Jacketed or Non-Jacketed Cable

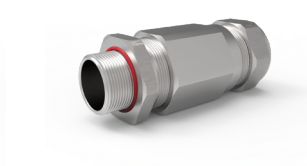


Fig. 4: Universal Nickel Plated Brass Gland Kit IP66 & 68 for Armored Cable



Fig. 5: Nylon Cable Glands - Industrial - Non-Hazardous

## Accessories

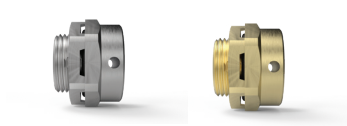


Fig. 6: Stainless Steel & Brass Breather Drains



Fig. 7: Earth Tags



Fig. 8: Locknuts



Fig. 9: Stopping Plugs

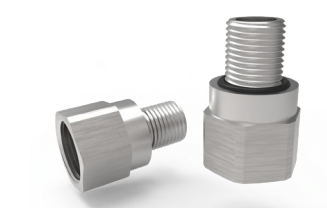


Fig. 10: Adaptors & Reducers



Fig. 11: Serrated Washers



Fig. 12: Shrouds



Fig. 13: Nylon Sealing Washers

# Cable Glands

Approvals



**Nickel Plated Brass Gland Kit for Unarmored Cable IP66 & 68 c/w Locknut & Nylon Sealing Washer, Class 1 Div 2 A,B,C,D, Zone 1, Zone 2, 21, 22; AEx e, AEx ta; Ex db, Ex eb, Ex nR, Ex ta**

| Order Number | Model                                                                                           | Description                        | Box Qty | Gland | Entry Thread Size |              | Thread     | Outer Sheath (D) mm |      | Nominal               | Dimensions       |                | Weight | Shroud        |
|--------------|-------------------------------------------------------------------------------------------------|------------------------------------|---------|-------|-------------------|--------------|------------|---------------------|------|-----------------------|------------------|----------------|--------|---------------|
|              |  Fig. 1 Pg. 11 |                                    |         | Size  | Metric            | NPT          | Length (B) | Min                 | Max  | Protrusion Length (L) | Across Flats (A) | Across Corners | (kgs)  | Size (Metric) |
| 2880570000   | A2LBFK1/NP/16/050NPT                                                                            | ½" NPT Cable OD range .158-.331"   | 40      | 16    | M20 x 1.5         | ½" or ¾"     | 16         | 4                   | 8.4  | 33                    | 25.4             | 28             | 0.104  | L24**         |
| 2880580000   | A2LBFK1/NP/20/050NPT                                                                            | ½" NPT Cable OD range .370-.551"   | 30      | 20    | M20 x 1.5         | ½" or ¾"     | 16         | 9.4                 | 14   | 33                    | 30               | 33             | 0.127  | L30           |
| 2880590000   | A2LBFK1/NP/20/075NPT                                                                            | ¾" NPT Cable OD range .370-.551"   | 30      | 20    | M20 x 1.5         | ½" or ¾"     | 16         | 9.4                 | 14   | 33                    | 30               | 33             | 0.127  | L30           |
| 2880600000   | A2LBFK1/NP/25/075NPT                                                                            | ¾" NPT Cable OD range .532-m.787"  | 20      | 25    | M25 x 1.5         | ¾" or 1"     | 16         | 13.5                | 20   | 33                    | 37.6             | 41.4           | 0.166  | L38           |
| 2880610000   | A2LBFK1/NP/32/100NPT                                                                            | 1" NPT Cable OD range .768-1.04"   | 10      | 32    | M32 x 1.5         | 1" or 1 ¼"   | 16         | 19.5                | 26.3 | 33                    | 46               | 50.6           | 0.244  | L46           |
| 2880620000   | A2LBFK1/NP/40/150NPT                                                                            | 1-½" NPT Cable OD range .906-1.27" | 10      | 40    | M40 x 1.5         | 1 ¼" or 1 ½" | 16         | 23                  | 32.2 | 37                    | 55               | 60.5           | 0.396  | L55           |
| 2880630000   | A2LBFK1/NP/50/200NPT                                                                            | 2" NPT Cable OD range 1.30-1.74"   | 6       | 50    | M50 x 1.5         | 2"           | 16         | 33.1                | 44.1 | 37                    | 65               | 71.5           | 0.438  | L65           |
| 2881760000   | A2LBF/NP/16/M16                                                                                 | M16 Cable. OD range 4.0-8.4mm      | 104     | 16    | M16 x 1.5         | ⅜" or ½"     | 16         | 4                   | 8.4  | 33                    | 25.4             | 28             | 0.097  | L24           |
| 1911560000   | A2LBF/NP/20/M20                                                                                 | M20 Cable. OD range 9.4-14.0mm     | 68      | 20    | M20 x 1.5         | ½" or ¾"     | 16         | 9.4                 | 14   | 33                    | 30               | 33             | 0.127  | L30           |
| 1911570000   | A2LBF/NP/25/M20                                                                                 | M25 Cable. OD range 13.5-20.0mm    | 45      | 25    | M25 x 1.5         | ¾" or 1"     | 16         | 13.5                | 20   | 33                    | 37.6             | 41.4           | 0.166  | L38           |
| 1911580000   | A2LBF/NP/32/M32                                                                                 | M32 Cable. OD range 19.5-26.3mm    | 30      | 32    | M32 x 1.5         | 1" or 1 ¼"   | 16         | 19.5                | 26.3 | 33                    | 46               | 50.6           | 0.244  | L46           |
| 1911590000   | A2LBF/NP/40/M40                                                                                 | M40 Cable. OD range 23.0-32.2mm    | 18      | 40    | M40 x 1.5         | 1 ¼" or 1 ½" | 16         | 23                  | 32.2 | 37                    | 55               | 60.5           | 0.396  | L55           |

**Fully Nickel Plated Brass Marine Shipboard Gland Kit for Unarmored Cable c/w Locknut and Nylon Washer – Temp Rating: -40°C to 135°C – Gasket: Silicone Seal with Nylon Washer – Nema 4X, IP66, IP68; Class 1 Div 2 A,B,C,D; Class II Div1; Class III; Zone 1, Zone 2, 20,21, 22; AEx d, AEx e, AEx ta; Ex db, Ex eb, Ex nR, Ex ta**

| Order Number                                                                                         | Model                | Description                              | Box Qty | Gland | Entry             | ISO Thread    | NPT           | Cable Inner Sheath       |    |       | Cable Outer Sheath |       | Protrusion | Dimensions   |                | Weight | Shroud |
|------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|---------|-------|-------------------|---------------|---------------|--------------------------|----|-------|--------------------|-------|------------|--------------|----------------|--------|--------|
| <br>Fig. 2 Pg. 11 |                      |                                          |         | Size  | Thread Size (In.) | Thread Length | Thread Length | # of Cores<br>IEC    NEC |    | Max   | Min                | Max   | Length     | Across Flats | Across Corners | lbs    | Size   |
| 2880640000                                                                                           | UL-UBK1/NP/16/050NPT | ½" NPT Cable<br>OD range 0.134-0.331in   | 25      | 16    | ½" or ¾"          | 0.63          | 0.783 - 0.795 | 15                       | 1  | 0.409 | 0.134              | 0.331 | 2.717      | 1.00         | 1.102          | 0.602  | EL24*  |
| 2880650000                                                                                           | UL-UBK1/NP/25/075NPT | ¾" NPT Cable<br>OD range 0.461-0.787in   | 14      | 25    | ¾" or 1"          | 0.63          | 0.795 - 0.985 | 60                       | 16 | 0.701 | 0.461              | 0.787 | 2.953      | 1.48         | 1.63           | 1.12   | EL38   |
| 2880660000                                                                                           | UL-UBK1/NP/32/100NPT | 1" NPT Cable<br>OD range 0.713-1.035in   | 14      | 32    | 1" or 1 ¼"        | 0.63          | 0.985 - 1.008 | 80                       | 30 | 0.925 | 0.713              | 1.035 | 3.425      | 1.81         | 1.992          | 1.797  | EL46   |
| 2880670000                                                                                           | UL-UBK1/NP/40/150NPT | 1-½" NPT Cable<br>OD range 0.890-1.268in | 10      | 40    | 1 ¼" or 1 ½"      | 0.63          | 1.008 - 1.024 | 130                      | 60 | 1.134 | 0.89               | 1.268 | 3.543      | 2.17         | 2.832          | 2.577  | EL55   |
| 2880680000                                                                                           | UL-UBK1/NP/50/200NPT | 2" NPT Cable<br>OD range 1.303-1.736in   | 6       | 50    | 2"                | 0.63          | 1.059         | 400                      | 5  | 1.551 | 1.303              | 1.736 | 3.937      | 2.56         | 2.815          | 3.263  | EL65   |

**Brass Marine Shipboard Barrier Gland Kit for Armored, Jacketed or Non-Jacketed Cable (w/ Locknut, Earth Tag & Nylon Sealing Washer) – Temp. Rating: -40°C to 135°C – Gasket: Internal Silicone Seal w/ Nylon Washer – Nema 4X, IP66, IP68; Class 1 Div 1 A,B,C,D; Class II Div1; Class III; Zone 1, Zone 2, 20,21, 22; AEx d, AEx e, AEx ta; Ex db, Ex eb, Ex nR, Ex ta**

| Order Number                                                                                         | Model      | Description          | Box Qty                                           | Gland | Entry             | ISO Thread    | NPT           | Cable Inner Sheath       |     |     | Cable Outer Sheath |       | Protrusion | Dimensions   |                | Weight | Shroud |       |
|------------------------------------------------------------------------------------------------------|------------|----------------------|---------------------------------------------------|-------|-------------------|---------------|---------------|--------------------------|-----|-----|--------------------|-------|------------|--------------|----------------|--------|--------|-------|
| <br>Fig. 3 Pg. 11 |            |                      |                                                   | Size  | Thread Size (In.) | Thread Length | Thread Length | # of Cores<br>IEC    NEC |     | Max | Min                | Max   | Length     | Across Flats | Across Corners | lbs    | Size   |       |
|                                                                                                      | 2880770000 | UL-CBK1/NP/16/050NPT | ½" NPT Cable. Max ID 0.461".<br>OD .362-0.531"    | 25    | 16                | ½" or ¾"      | 0.63          | 0.783 - 0.795            | 15  | 1   | 0.409              | 0.134 | 0.331      | 2.717        | 1.00           | 1.102  | 0.602  | EL24* |
|                                                                                                      | 2880780000 | UL-CBK1/NP/25/075NPT | ¾" NPT Cable. Max ID 0.787".<br>OD 0.799-1.079"   | 20    | 25                | ¾" or 1"      | 0.63          | 0.795 - 0.985            | 60  | 16  | 0.701              | 0.461 | 0.787      | 2.953        | 1.48           | 1.63   | 1.12   | EL38  |
|                                                                                                      | 2880790000 | UL-CBK1/NP/32/100NPT | 1" NPT Cable. Max ID 1.035".<br>OD 1.035-1.051"   | 14    | 32                | 1" or 1 ¼"    | 0.63          | 0.985 - 1.008            | 80  | 30  | 0.925              | 0.713 | 1.035      | 3.425        | 1.81           | 1.992  | 1.797  | EL46  |
|                                                                                                      | 2880800000 | UL-CBK1/NP/40/150NPT | 1-½" NPT Cable. Max ID 1.268".<br>OD 1.299-1.598" | 10    | 40                | 1 ¼" or 1 ½"  | 0.63          | 1.008 - 1.024            | 130 | 60  | 1.134              | 0.89  | 1.268      | 3.543        | 2.17           | 2.832  | 2.577  | EL55  |
|                                                                                                      | 2880810000 | UL-CBK1/NP/50/200NPT | 2" NPT Cable. Max ID 1.736".<br>OD 1.799-2.094"   | 6     | 50                | 2"            | 0.63          | 1.059                    | 400 | 5   | 1.551              | 1.303 | 1.736      | 3.937        | 2.56           | 2.815  | 3.263  | EL65  |

# Cable Glands

Universal Nickel Plated Brass Gland Kit IP66 & 68 for Armored Cable (c/w locknut, earth tag, nylon sealing washer)  
Flameproof; Nema 4X, IP66, IP68; Class 1 Div 2 A,B,C,D; Class II Div1 E,F,G, Class 3, Zone 1, Zone 2 IIA, IIB, IIC; 20,21, 22 IIIA, IIIB, IIIC; AEx e, AEx ta; Ex db, Ex eb, Ex nR, Ex ta

| Order Number                                                                   | Model                                                                             | Description                                   | Box Qty | Gland | Entry Thread Size |                  | Thread | Inner Sheath (C) |      | Outer Sheath (D) |      | Reduced (D) |      | Armor     | Nominal          | Dimensions            |                       | Weight              | Shroud |               |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|---------|-------|-------------------|------------------|--------|------------------|------|------------------|------|-------------|------|-----------|------------------|-----------------------|-----------------------|---------------------|--------|---------------|
|                                                                                |  |                                               |         |       | Size              | Metric           | NPT    | Length (B)       | Min  | Max              | Min  | Max         | Min  | Max       | Acceptance Range | Protrusion Length (L) | Across Flats (A) (mm) | Across Corners (mm) | (kgs)  | Size (Metric) |
| 2880690000                                                                     | CR-1BK1/NP/16/050NPT                                                              | 1/2" NPT Cable<br>OD .134-.33" -.33-.53"      | 25      | 16    | M20 x 1.5         | 1/2" or 3/4"     | 16     | 3.4              | 8.4  | 8.4              | 13.5 | 6.7         | 10.3 | 0.15-1.25 | 78               | 25.4                  | 28                    | 0.178               | EL24*  |               |
| 2880700000                                                                     | CR-1BK1/NP/20/050NPT                                                              | 1/2" NPT Cable<br>OD .370-.551" -.61-.83"     | 25      | 20    | M20 x 1.5         | 1/2" or 3/4"     | 16     | 9.4              | 14   | 15.5             | 21.1 | 12          | 17.6 | 0.15-1.25 | 78               | 30                    | 33                    | 0.233               | EL30   |               |
| 2880710000                                                                     | CR-1BK1/NP/20/075NPT                                                              | 3/4" NPT Cable<br>OD .370-.551" -.61-.83"     | 25      | 20    | M20 x 1.5         | 1/2" or 3/4"     | 16     | 9.4              | 14   | 15.5             | 21.1 | 12          | 17.6 | 0.15-1.25 | 78               | 30                    | 33                    | 0.233               | EL30   |               |
| 2880720000                                                                     | CR-1BK1/NP/25/075NPT                                                              | 3/4" NPT Cable<br>OD .33-.78" -.78-1.08"      | 20      | 25    | M25 x 1.5         | 3/4" or 1"       | 16     | 13.5             | 20   | 20.3             | 27.4 | 16.8        | 23.9 | 0.15-1.60 | 90               | 37.6                  | 41.4                  | 0.416               | EL38   |               |
| 2880730000                                                                     | CR-1BK1/NP/32/100NPT                                                              | 1" NPT Cable<br>OD .77-1.05 - 1.05-1.34"      | 8       | 32    | M32 x 1.5         | 1" or 1 1/4"     | 16     | 19.5             | 26.3 | 26.7             | 34   | 23.2        | 30.5 | 0.15-2.00 | 105              | 46                    | 50.6                  | 0.772               | EL46   |               |
| 2880740000                                                                     | CR-1BK1/NP/40/150NPT                                                              | 1-1/2" NPT Cable<br>OD .91-1.27 - 1.30-1.60"  | 5       | 40    | M40 x 1.5         | 1 1/4" or 1 1/2" | 16     | 23               | 32.2 | 33               | 40.6 | 28.6        | 36.2 | 0.20-2.00 | 113              | 55                    | 60.5                  | 1.093               | EL55   |               |
| 2880750000                                                                     | CR-1BK1/NP/50/200NPT                                                              | 2" NPT Cable<br>OD .91-1.74 - 1.80-2.09"      | 4       | 50    | M50 x 1.5         | 2"               | 16     | 33.1             | 44.1 | 45.7             | 53.2 | 41.1        | 48.5 | 0.30-2.50 | 125              | 65                    | 71.5                  | 1.4                 | EL65   |               |
| 2880760000                                                                     | CR-1B/NP/16/M20                                                                   | M20 Cable<br>ID 3.4-8.4mm<br>OD 8.4-13.5mm    | 60      | 16    | M20 x 1.5         | 3/4" or 1"       | 16     | 3.4              | 8.4  | 8.4              | 13.5 | 6.7         | 10.3 | 0.15-1.25 | 78               | 25.4                  | 28                    | 0.178               | EL24*  |               |
| 1911400000                                                                     | CR-1B/NP/20/M20                                                                   | M20 Cable<br>ID 9.4-14.0mm<br>OD 15.5-21.1mm  | 45      | 20    | M20 x 1.5         | 1/2" or 3/4"     | 16     | 9.4              | 14   | 15.5             | 21.1 | 12          | 17.6 | 0.15-1.25 | 78               | 30                    | 33                    | 0.233               | EL30   |               |
| 1911420000                                                                     | CR-1B/NP/25/M25                                                                   | M25 Cable<br>ID 13.5-20.0mm<br>OD 20.3-27.4mm | 20      | 25    | M25 x 1.5         | 3/4" or 1"       | 16     | 13.5             | 20   | 20.3             | 27.4 | 16.8        | 23.9 | 0.15-1.60 | 90               | 37.6                  | 41.4                  | 0.416               | EL38   |               |
| 1911430000                                                                     | CR-1B/NP/32/M32                                                                   | M32 Cable<br>ID 19.5-26.3mm<br>OD 26.7-34.0mm | 8       | 32    | M32 x 1.5         | 1" or 1 1/4"     | 16     | 19.5             | 26.3 | 26.7             | 34   | 23.2        | 30.5 | 0.15-2.00 | 105              | 46                    | 50.6                  | 0.772               | EL46   |               |
| 1911440000                                                                     | CR-1B/NP/40/M40                                                                   | M40 Cable<br>ID 23.0-32.2mm<br>OD 33.0-40.6mm | 7       | 40    | M40 x 1.5         | 1 1/4" or 1 1/2" | 16     | 23               | 32.2 | 33               | 40.6 | 28.6        | 36.2 | 0.20-2.00 | 113              | 55                    | 60.5                  | 1.093               | EL55   |               |
| Note: * A/F = distance across face of locknut; A/C = across corners of locknut |                                                                                   |                                               |         |       |                   |                  |        |                  |      |                  |      |             |      |           |                  |                       |                       |                     |        |               |

## Nylon Cable Glands - Industrial - Non-Hazardous ATEX; IECEx, cCSAus; IP68; Ex eb; Ex tb; Zone 1, Zone 2, 21, 22

| Order Number                                                                        | Model     | Description                                                              | Box Qty | Gland | Entry             | Thread Length | Protrusion | Dimensions         |                      | Weight |
|-------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------|---------|-------|-------------------|---------------|------------|--------------------|----------------------|--------|
|  |           |                                                                          |         | Size  | Thread Size (In.) | mm            | Length     | Across Flats* (mm) | Across Corners* (mm) | lbs    |
| 2881150000                                                                          | PF8041200 | Nylon Cable Gland Industrial 1/2" NPT for cable Ø 7-12mm .28-.47" Black  | 75      | 20    | 1/2" NPT          | 14.00         | 27.00      | 24.00              | 26.80                | 0.01   |
| 2881160000                                                                          | PF8042000 | Nylon Cable Gland Industrial 3/4" NPT for cable Ø 12-18mm .47-.71" Black | 30      | 25    | 3/4" NPT          | 15.00         | 35.00      | 33.00              | 37.00                | 0.021  |
| 2881170000                                                                          | PF8042800 | Nylon Cable Gland Industrial 1" NPT for cable Ø 16-25mm .63-.98" Black   | 30      | 32    | 1" NPT            | 18.00         | 41.00      | 42.00              | 47.00                | 0.038  |
| 2881180000                                                                          | PF8021650 | Nylon Cable Gland Industrial M16 for cable Ø 5-8mm .10-.31" Black        | 75      | 16    | M16 x 1.5         | 10.00         | 28.00      | 19.00              | 22.00                | 0.009  |
| 2881190000                                                                          | PF8022050 | Nylon Cable Gland Industrial M20 for cable Ø 7-12mm .28-.47" Black       | 75      | 20    | M20 x 1.5         | 10.00         | 28.00      | 24.00              | 28.00                | 0.01   |
| 2881200000                                                                          | PF8022550 | Nylon Cable Gland Industrial M25 for cable Ø 10-14mm .28-.55" Black      | 30      | 25    | M25 x 1.5         | 10.00         | 36.00      | 33.00              | 37.00                | 0.021  |
| 2881210000                                                                          | PF8023200 | Nylon Cable Gland Industrial M32 for cable Ø 16-25mm .55-.98" Black      | 30      | 32    | M32 x 1.5         | 10.00         | 42.00      | 42.00              | 47.00                | 0.038  |
| Note: * A/F = distance across face of locknut; A/C = across corners of locknut      |           |                                                                          |         |       |                   |               |            |                    |                      |        |



**Breather Drain Stainless Steel or Brass IP66 c/w castellated Locknut Class 1 Zone 1, Zone 2, 20,21, 22; AEx eb, AEx ta; Ex eb, Ex ta**

| Order Number | Model             | Description                                                                                       | Box Qty | Thread Size | A/F* | A/C* | Length | Length | Weight |
|--------------|-------------------|---------------------------------------------------------------------------------------------------|---------|-------------|------|------|--------|--------|--------|
|              |                   |                                                                                                   |         |             | mm   | mm   | (R)    | (L)    | kgs    |
| 2881360000   | ACDP1SE/NP/050NPT | 1/2" NPT Stainless Steel Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST | 100     | 1/2" NPT    | 28.6 | 31.4 | 15.0   | 12.0   | 0.075  |
| 2881370000   | ACDP1SE/NP/075NPT | 3/4" NPT Stainless Steel Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST | 50      | 3/4" NPT    | 33.0 | 36.3 | 15.0   | 12.0   | 0.107  |
| 2881380000   | ACDP1SE/NP/M20    | M20 Stainless Steel Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST      | 100     | M20 x1.5    | 27.0 | 29.7 | 10.0   | 12.0   | 0.065  |
| 2881390000   | ACDP1SE/NP/M25    | M25 Stainless Steel Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST      | 25      | M25 x 1.5   | 31.8 | 34.9 | 10.0   | 12.0   | 0.097  |
| 2881400000   | ACDP1BE/NP/050NPT | 1/2" NPT NP Brass Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST        | 100     | 1/2" NPT    | 28.6 | 31.4 | 15.0   | 12.0   | 0.075  |
| 2881410000   | ACDP1BE/NP/075NPT | 3/4" NPT NP Brass Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST        | 50      | 3/4" NPT    | 33.0 | 36.3 | 15.0   | 12.0   | 0.107  |
| 2881420000   | ACDP1BE/NP/M20    | M20 NP Brass Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST             | 100     | M20 x1.5    | 27.0 | 29.7 | 10.0   | 12.0   | 0.065  |
| 2881430000   | ACDP1BE/NP/M25    | M25 NP Brass Breather Drain IP66 c/w castellated locknut Ex e, ATEX, IECEx, CSA, GOST             | 25      | M25 x 1.5   | 31.8 | 34.9 | 10.0   | 12.0   | 0.097  |

**Note:** \* A/F = distance across face of locknut; A/C = across corners of locknut



**Adaptors - Dome Head Nickel Plated Brass IP66, IP68; ATEX; IECEx; cCSAul; Class 1 Div 1 A,B,C,D; Class II Div 1 E,F,G; Class III; Zone 1, Zone 2, 20,21, 22; AEx db, AEx eb, AEx ta; Ex db, Ex eb, Ex nR, Ex ta**

| Order Number | Model               | Description                | Box Qty | Thread Size                | Nominal    | Nominal    | Protrusion | Weight |
|--------------|---------------------|----------------------------|---------|----------------------------|------------|------------|------------|--------|
|              |                     |                            |         |                            | A/F * (mm) | A/C * (mm) | Length     | kgs    |
| 2881300000   | AR1BF/NP/M20/050NPT | M20 male x 1/2" NPT female | 100     | M20 male x 1/2" NPT female | 27.0       | 29.7       | 26.0       | 0.095  |
| 2881310000   | AR1BF/NP/M25/075NPT | M25 male x 3/4" NPT female | 90      | M25 male x 3/4" NPT female | 31.8       | 35.0       | 26.0       | 0.130  |
| 2881320000   | AR1BF/NP/050NPT/M16 | 1/2" NPT male x M16 female | 100     | 1/2" NPT male x M16 female | 23.4       | 25.7       | 12.0       | 0.050  |
| 2881330000   | AR1BF/NP/050NPT/M20 | 1/2" NPT male x M20 female | 150     | 1/2" NPT male x M20 female | 23.4       | 25.7       | 22.5       | 0.060  |
| 2881340000   | AR1BF/NP/075NPT/M20 | 3/4" NPT male x M20 female | 100     | 3/4" NPT male x M20 female | 27.9       | 30.7       | 10.0       | 0.060  |
| 2881350000   | AR1BF/NP/075NPT/M25 | 3/4" NPT male x M25 female | 25      | 3/4" NPT male x M25 female | 30.0       | 33.0       | 22.5       | 0.105  |

**Note:** \* A/F = distance across face of locknut; A/C = across corners of locknut



**Dome Head Nickel Plated Brass Stopping Plug (NPT) ATEX, IECEx, CSA, Nema 4X, IP66, IP68; Class 1 Div 1 A,B,C,D; Class II Div1; Class III; Class 1 Zone 1; AEx db, AEx eb, AEx ta; Ex db, Ex eb, Ex nR, Ex ta**

| Order Number | Model             | Description                                          | Box Qty | ISO         | Hex        | Overall | Weight |
|--------------|-------------------|------------------------------------------------------|---------|-------------|------------|---------|--------|
|              |                   |                                                      |         | Thread Size | Socket A/F | Length  | kgs    |
| 2881270000   | SPMH1BF/NP/050NPT | 1/2" NPT Stopping Plug Dome Head Nickel Plated Brass | 135     | 1/2"        | 8.0        | 21.5    | 0.032  |
| 2881280000   | SPMH1BF/NP/075NPT | 3/4" NPT Stopping Plug Dome Head Nickel Plated Brass | 66      | 3/4"        | 10.0       | 21.5    | 0.049  |
| 2881290000   | SPMH1BF/NP/100NPT | 1" NPT Stopping Plug Dome Head Nickel Plated Brass   | 50      | 1"          | 12.0       | 21.5    | 0.078  |

# Nylon Dome Head Stopping Plug ATEX. IECEx, IP66, IP68; Ex eb, Ex ta



Fig. 9 Pg. 11

| Order Number | Model          | Description                                           | Box Qty | ISO         | Hex        | Thread | Overall | Weight |
|--------------|----------------|-------------------------------------------------------|---------|-------------|------------|--------|---------|--------|
|              |                |                                                       |         | Thread Size | Socket A/F | Length | Length  | kgs    |
| 2881070000   | SPMH1NE/050NPT | ½" Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e  | 135     | ½"          | 10.0       | 15.0   | 21.0    | 0.01   |
| 2881080000   | SPMH1NE/075NPT | ¾" Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e  | 66      | ¾"          | 12.0       | 15.0   | 21.0    | 0.015  |
| 2881090000   | SPMH1NE/100NPT | 1" Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e  | 50      | 1"          | 14.0       | 15.0   | 21.0    | 0.022  |
| 2881100000   | SPMH1NE/M16    | M16 Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e | 135     | M16         | 8.0        | 15.0   | 21.0    | 0.005  |
| 2881110000   | SPMH1NE/M20    | M20 Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e | 135     | M20         | 10.0       | 15.0   | 21.0    | 0.007  |
| 2881120000   | SPMH1NE/M25    | M25 Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e | 135     | M25         | 12.0       | 15.0   | 21.0    | 0.011  |
| 2881130000   | SPMH1NE/M32    | M32 Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e | 66      | M32         | 12.0       | 15.0   | 21.0    | 0.019  |
| 2881140000   | SPMH1NE/M40    | M40 Nylon Hole Plug (Dome Head) ATEX. IECEx, EAC Ex e | 45      | M40         | 14.0       | 15.0   | 21.0    | 0.028  |

# Nickel Plated Brass Stopping Plug Type A (externally recessed) ATEX, IECEx, CSA, Nema 4X, IP66, Class 1 Div 1 A,B,C,D; Class II Div 1; Class III; Zone 1, AEx db, AEx eb, AEx ta; Ex db, Ex eb, Ex ta



Fig. 9 Pg. 11

| Order Number | Model            | Description                                                                     | Box Qty | ISO         | Hex        | Thread | Overall | Weight |
|--------------|------------------|---------------------------------------------------------------------------------|---------|-------------|------------|--------|---------|--------|
|              |                  |                                                                                 |         | Thread Size | Socket A/F | Length | Length  | kgs    |
| 2881020000   | SPA0BD/NP/050NPT | ½" Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d   | 135     | ½"          | 6.0        | 11.2   | 11.2    | 0.009  |
| 2881030000   | SPA0BD/NP/075NPT | ¾" Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d   | 66      | ¾"          | 8.0        | 11.3   | 11.3    | 0.03   |
| 2881040000   | SPA0BD/NP/100NPT | 1" Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d   | 66      | 1"          | 10.0       | 14.5   | 14.5    | 0.03   |
| 2881050000   | SPA0BD/NP/150NPT | 1-½" Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d | 56      | 1 ½"        | 12.0       | 14.8   | 14.8    | 0.05   |
| 2881060000   | SPA0BD/NP/200NPT | 2" Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d   | 20      | 2"          | 12.0       | 18.5   | 18.5    | 0.11   |
| 1477650000   | SPA0BD/NP/M16    | M16 Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d  | 135     | M16         | 8.0        | 17.0   | 17.0    | 0.03   |
| 1477670000   | SPA0BD/NP/M20    | M20 Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d  | 135     | M20         | 10.0       | 17.0   | 17.0    | 0.03   |
| 1477680000   | SPA0BD/NP/M25    | M25 Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d  | 135     | M25         | 12.0       | 17.0   | 17.0    | 0.05   |
| 1477690000   | SPA0BD/NP/M32    | M32 Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d  | 66      | M32         | 12.0       | 17.0   | 17.0    | 0.11   |
| 1477700000   | SPA0BD/NP/M40    | M40 Stopping Plug Type A (externally recessed) NP Brass ATEX, IECEx, CSA, Ex d  | 60      | M40         | 14.0       | 17.0   | 17.0    | 0.18   |

# PVC Shroud for Un-Armored Type Glands - Black



Fig. 12 Pg. 11

| Order Number | Model      | Description                                     | Box Qty | Thread Size | Gland      | Material |
|--------------|------------|-------------------------------------------------|---------|-------------|------------|----------|
|              |            |                                                 |         |             | Type       |          |
| 1736570000   | ACSPVC/L24 | M16 PVC Shroud Black for Un-Armored type glands | 50      | M16         | Un-Armored | PVC      |
| 1736580000   | ACSPVC/L30 | M20 PVC Shroud Black for Un-Armored type glands | 50      | M20         | Un-Armored | PVC      |
| 1736590000   | ACSPVC/L38 | M25 PVC Shroud Black for Un-Armored type glands | 50      | M25         | Un-Armored | PVC      |
| 1736600000   | ACSPVC/L46 | M32 PVC Shroud Black for Un-Armored type glands | 20      | M32         | Un-Armored | PVC      |
| 1736610000   | ACSPVC/L55 | M40 PVC Shroud Black for Un-Armored type glands | 10      | M40         | Un-Armored | PVC      |

### Nickel Plated Brass Locknut



Fig. 8 Pg. 11

| Order Number                                                                   | Model        | Description                     | Box Qty | Thread Size | Nominal   | Nominal   | Nominal   | Weight |
|--------------------------------------------------------------------------------|--------------|---------------------------------|---------|-------------|-----------|-----------|-----------|--------|
|                                                                                |              |                                 |         |             | Thickness | A/F* (mm) | A/C* (mm) |        |
| 2881220000                                                                     | ACBLN/NP/M16 | M16 Locknut Nickel Plated Brass | 300     | M16 x 1.5   | 4.0       | 22.0      | 24.2      | 0.772  |
| 2881230000                                                                     | ACBLN/NP/M20 | M20 Locknut Nickel Plated Brass | 300     | M20 x 1.5   | 4.0       | 24.0      | 26.4      | 0.683  |
| 2881240000                                                                     | ACBLN/NP/M25 | M25 Locknut Nickel Plated Brass | 250     | M25 x 1.5   | 4.0       | 30.0      | 33.0      | 1.027  |
| 2881250000                                                                     | ACBLN/NP/M32 | M32 Locknut Nickel Plated Brass | 150     | M32 x 1.5   | 4.0       | 40.0      | 44.0      | 2.02   |
| 2881260000                                                                     | ACBLN/NP/M40 | M40 Locknut Nickel Plated Brass | 100     | M40 x 1.5   | 4.8       | 46.0      | 50.5      | 2.2    |
| Note: * A/F = distance across face of locknut; A/C = across corners of locknut |              |                                 |         |             |           |           |           |        |

### Nylon IP Sealing Washer



Fig. 13 Pg. 11

| Order Number | Model     | Description              | Box Qty | Metric          | Nominal   | Nominal | Weight |
|--------------|-----------|--------------------------|---------|-----------------|-----------|---------|--------|
|              |           |                          |         | Thread Diameter | Thickness | OD      |        |
| 1076630000   | ACNSW/M16 | Sealing Washer M16 Nylon | 300     | M16             | 2.0       | 25.0    | 0.116  |
| 930730002    | ACNSW/M20 | Sealing Washer M20 Nylon | 300     | M20             | 2.0       | 29.4    | 0.164  |
| 1076640000   | ACNSW/M25 | Sealing Washer M25 Nylon | 250     | M25             | 2.0       | 38.1    | 0.257  |
| 1076650000   | ACNSW/M32 | Sealing Washer M32 Nylon | 150     | M32             | 2.0       | 42.5    | 0.341  |
| 899780000    | ACNSW/M40 | Sealing Washer M40 Nylon | 100     | M40             | 2.0       | 52.0    | 0.386  |

### Serrated Washers Stainless Steel



Fig. 11 Pg. 11

| Order Number | Model        | Description                            | Box Qty | Thread Size | Nominal   | Nominal | Weight |
|--------------|--------------|----------------------------------------|---------|-------------|-----------|---------|--------|
|              |              |                                        |         |             | Thickness | OD      |        |
| 2880920000   | ACSSW/050NPT | 1/2" Stainless Steel Serrated Washer   | 250     | 1/2"        | 1.5       | 35.5    | 0.137  |
| 2880930000   | ACSSW/075NPT | 3/4" Stainless Steel Serrated Washer   | 200     | 3/4"        | 1.5       | 43.5    | 0.262  |
| 2880940000   | ACSSW/100NPT | 1" Stainless Steel Serrated Washer     | 150     | 1"          | 1.5       | 52.0    | 0.56   |
| 2880950000   | ACSSW/125NPT | 1-1/2" Stainless Steel Serrated Washer | 100     | 1 1/2"      | 1.5       | 59.5    | 0.675  |
| 2880960000   | ACSSW/200NPT | 2" Stainless Steel Serrated Washer     | 50      | 2"          | 1.5       | 71.0    | 1.042  |
| 2880970000   | ACSSW/M16    | M16 Stainless Steel Serrated Washer    | 300     | M16         | 1.0       | 20.3    | 1.73   |
| 2880980000   | ACSSW/M20    | M20 Stainless Steel Serrated Washer    | 300     | M20         | 1.2       | 25.5    | 2.154  |
| 2880990000   | ACSSW/M25    | M25 Stainless Steel Serrated Washer    | 250     | M25         | 1.4       | 32.5    | 3.259  |
| 2881000000   | ACSSW/M32    | M32 Stainless Steel Serrated Washer    | 150     | M32         | 1.5       | 37.5    | 4.189  |
| 2881010000   | ACSSW/M40    | M40 Stainless Steel Serrated Washer    | 100     | M40         | 1.5       | 48.0    | 6.88   |

### Earth Tag Nickel Plated Brass



Fig. 7 Pg. 11

| Order Number | Model           | Description                                     | Box Qty | Thread Size | Nominal   | Nominal | Bolt          | Weight |
|--------------|-----------------|-------------------------------------------------|---------|-------------|-----------|---------|---------------|--------|
|              |                 |                                                 |         |             | Thickness | Center  | Hole Diameter |        |
| 2880820000   | ACBET/NP/050NPT | 1/2" NPT Ground Earth Tag Nickel Plated Brass   | 250     | 1/2"        | 1.5       | 33.0    | 6.9           | 0.836  |
| 2880830000   | ACBET/NP/075NPT | 3/4" NPT Ground Earth Tag Nickel Plated Brass   | 200     | 3/4"        | 1.5       | 36.5    | 6.9           | 0.746  |
| 2880840000   | ACBET/NP/100NPT | 1" NPT Ground Earth Tag Nickel Plated Brass     | 150     | 1"          | 1.5       | 42.5    | 11.8          | 0.672  |
| 2880850000   | ACBET/NP/150NPT | 1-1/2" NPT Ground Earth Tag Nickel Plated Brass | 100     | 1 1/2"      | 1.5       | 45.4    | 13.5          | 0.797  |
| 2880860000   | ACBET/NP/200NPT | 2" NPT Ground Earth Tag Nickel Plated Brass     | 100     | 2"          | 1.5       | 58.1    | 13.5          | 1.476  |
| 2880870000   | ACBET/NP/M16    | M16 Ground Earth Tag Nickel Plated Brass        | 300     | M16         | 1.5       | 66.8    | 13.5          | 2.089  |
| 2880880000   | ACBET/NP/M20    | M20 Ground Earth Tag Nickel Plated Brass        | 300     | M20         | 1.5       | 31.8    | 13.5          | 0.746  |
| 2880890000   | ACBET/NP/M25    | M25 Ground Earth Tag Nickel Plated Brass        | 250     | M25         | 1.5       | 33.0    | 13.5          | 0.672  |
| 2880900000   | ACBET/NP/M32    | M32 Ground Earth Tag Nickel Plated Brass        | 150     | M32         | 1.5       | 36.5    | 13.5          | 0.797  |
| 2880910000   | ACBET/NP/M40    | M40 Ground Earth Tag Nickel Plated Brass        | 100     | M40         | 1.5       | 42.5    | 13.5          | 1.476  |



## Assembly Services – Expertise for Your Requirements

Hazardous & Intrinsically Safe Applications with Class 1 Div 2, Zone 1, Zone 2, 21 & 22 Certifications

Internationally approved certifications



### Class 1 Div 2, Zone 1, Zone 2, 21, 22, UL, cULus Listed, ATEX, IEC Ex – HazLoc Certified

Assembly Services offers a wide range of HazLoc solutions for applications in explosive environments across industrial sectors. Over the years, Weidmüller has successfully established the Klippon® brand in the process industry for high-quality solutions in connection technology, communication and digitization, as well as for components for hazardous areas and engineering services.

#### Shop Approvals

- UL 508A – Listed Industrial Control Panels - E493842, cULus
- UL 60079-7 - Class 1, Zone 1, 2 AEx Listed Enclosures - E223792
- UL 12.12.01 – Class 1, Division 2 Listed Enclosures – non-incentive - E503056
- UL 698A – Listed Industrial Control Panels Related to Hazardous Areas - E503055
- IECEx 60079-0, -7 - ATEX Class 1 Zone 1 & 2 Certified Enclosures
- IECEx 60079-0, -7 – IECEx Class 1 Zone 1 & 2 Certified Enclosures
- UL 508 – Programmable Controllers – E141197



## Define requirements for Hazardous Location enclosures – “Engineered to Order”

At Weidmüller, we have the resources and capabilities to design and build both industrial and Class 1 Div 2, Zone 1, 2, 21, 22 HazLoc certified enclosures including intrinsic safety applications.

### Assembled Terminal Rails & Populated Enclosures

#### We handle every aspect of the assembly process:

- Initial design specifications
- Assembly and installation of components
- Certification documentation
- Adding mounting plates, holes or knockouts for cable glands
- Class 1 Div 2 Zone 1, Zone 2, 21, 22 suitability
- UL, cULus, IECEx, ATEX certification

#### Our populated enclosure modification capabilities:

- Adapters
- Heavy Duty Connectors
- Professional tools
- Cable glands, gland plates and breather drains
- Mounting plates / Terminal rails
- Compensating elements
- EMC optimization
- Myers hubs
- Sun and rain roofs
- Labels / warning signs
- Blanking plugs
- Cabtite cable entry system
- Enclosures with viewing windows on request
- Assembled terminal rails certified to industrial and hazardous standards



# Get Your Assembly Faster with Flexibility and Efficiency



## Assembled Terminal Rails

Ready-to-install assembled rail assemblies including electronic components - individually manufactured according to your specifications.

## Modified Enclosures

Individual empty enclosures with holes, threads or cut-outs according to your specifications - optionally unassembled, equipped or with add-on parts.

**New!**

- SS Enclosures
- Cabtite Front Tight Cable Entry Ssystem



## Populated Enclosures

Assembled enclosures with rail assembly, add-on components and optional Ex approval.

## Weidmüller Configurator

Our simple and seamless planning tool for electrical designers for fast track planning with AutoCAD, EPLAN or Zuken



## Easy digital engineering

Engineering processes have to be completed with ever greater speed, precision, and efficiency. Today's market expects simple and easy to understand configuration and ordering workflows. This requires intelligent tools that provide optimum support for complex planning processes.

## Simple planning through software support

The Weidmüller Configurator is a software solution for selecting, configuring, and ordering terminal rails and terminal rail components from the Weidmüller range as well as modified and assembled enclosures.

The tool supports continuous engineering workflows, from planning with AutoCAD, ePlan, e3, Zuken or E-CAD systems through to documentation. Create your configuration from over 12,000 digital Weidmüller products with extensive support in all stages of your configuration process.



For more information: [www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)

## Fast Delivery Service

Get your quote in minutes and select rail assemblies in 10 days

Today's challenges in plant design and control cabinet production

- Individualized designs
- Tight deadlines
- More complexity
- Price pressures
- Low volumes
- Design changes
- Supply chain challenges
- Hiring challenges

The Fast Delivery Service (FDS) simplifies your planning, accelerates your production processes and guarantees the delivery of individually assembled and ready-to-install terminal rails, and populated enclosures. Reduce your costs, increase your flexibility and stay one step ahead of your competitors.

**Delivery Disclaimer:** In the USA, 10 Day Fast Delivery Service applies to Rail Assemblies Only. Rail Assembly must include FDS program-specific components.

10 Day Delivery guaranteed for the first 25 assemblies; delivery time for higher quantities dependent upon component availability.

For more information: [www.weidmuller.com/fds](http://www.weidmuller.com/fds)



## **Weidmüller – Your Partner in 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, signals and data. We are at home in their industries and markets and understand the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together, we set standards in Industrial Connectivity.

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