

FLP-TR-R Ex db I/IIC, Ex eb I/IIC, Ex ta IIIC, Ex nR IIC



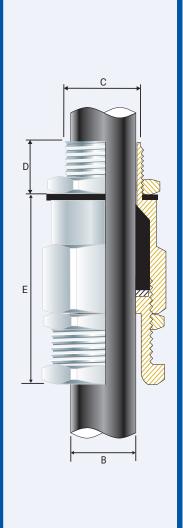
Features and Benefits

- For Group I underground mines, Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- No loose parts that can get lost.
- Fitted with specially formulated captive elastomeric seal provides Built-in Safety™
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in . stainless steel 316/316L on request.
- Supplied with a thread-sealing gasket (parallel threads only).

Supplied with a thread sealing ge							
Technical Data							
Туре:	FLP-TR-R						
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L						
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals						
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE						
Cable Type:	Unarmoured						
Sealing Area:	Outer sheath						
Optional Accessories:	Adaptor, Reducer and Shroud						
Note:	The installer should ensure that the materials are suitable for the installation environment.						
Standards and Certifications							
Equipment Protection Levels:	IECEx: Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da ATEX: 🛞 I M2, 🚱 II 2/3G 1D, Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da						
Continuous Operating Temp:	Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)						
Conformance:	Standards:	Certificate:					
IEC/BS EN	IEC/BS EN 62444	CML 14CA364					
IECEx	IEC 60079 Part 0, 1, 7, 15, 31	IECEx CML 18.0018X					
ATEX	EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15	CML 16ATEX1001X CML 16ATEX4002X					
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31 SANS 808	MASC MS/22-9001X					

IP66/68 - Parallel SANS/IEC 60529 IP65 - Tapered IP68 - Tapered and approved grease IEC 60529 DTS-01 **Deluge Protection Corrosion Protection** ASTM B117-11, BS EN ISO 3231

MASC MS/22-9001X IECEx CML 18.0018X CML 14CA370-2 EXOVA N968667



PATENTED



Conditions for Safe Use - X

The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seal & HDPE sealing gasket), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +160°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used.

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail		Maximum	Hexagonal Detail		Installation
		ΥĊ,	Min 'D'	'C'	Min 'D'	Min 'B'	Max 'B'	Length 'E'	Max 'Flats'	Max 'Crns'	Torque Value Nm
052400-M16-R	00-16ss	M16x1.5	15.0	-	-	3.0	8.0	46.0	24.0	27.0	50.0
052400-R	00-20ss	M20x1.5	15.0	1/2/3/4	15.0	3.0	8.0	46.0	24.0	27.0	50.0
0524-0-R	0-20s	M20x1.5	15.0	1/2/3/4	15.0	8.0	11.5	46.0	24.0	27.0	50.0
052401-R	1-20	M20x1.5	15.0	1/2/3/4	15.0	11.5	14.0	48.0	27.0	30.0	50.0
052402-R	2-25	M25x1.5	15.0	3⁄4/1	15/19	14.0	20.2	60.0	35.0	39.0	60.0
052403-R	3-32	M32x1.5	15.0	1/1¼	19.0	20.0	26.5	76.0	35.0	39.0	80.0
052404-R	4-40	M40x1.5	15.0	11/4/11/2	19/21	26.5	34.0	84.0	52.0	59.0	85.0
052455-R	5s-50s	M50x1.5	15.0	1½/2	21.0	32.5	38.0	90.0	65.0	73.0	100.0
052405-R	5-50	M50x1.5	15.0	1½/2	21.0	38.0	44.5	90.0	65.0	73.0	100.0
052465-R	6s-63s	M63x1.5	15.0	2/21/2	21/30	44.5	50.0	96.0	80.0	90.0	120.0
052406-R	6-63	M63x1.5	15.0	2/21/2	21/30	50.0	56.0	96.0	80.0	90.0	120.0
052407-R	7-75	M75x1.5	15.0	21/2/3	30/32	56.0	65.0	105.0	96.0	102.0	120.0

All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened "wrench tight".

FITTING INSTRUCTIONS Metric Illustration



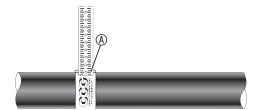
FLP-TR-R COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials.
 Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 µm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.
 MUST HAVE THREADED ENTRIES
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent. Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all
- other applications
- OR CLEARANCE HOLES (not Ex d)
 Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
 - Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

If a gland with NPT threads is fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and certified grease types:- Renolit Lubrene CA700 or LX220, Renolit EP2 LC-WP2 or Moly LX2, Dow Corning 4 Electrical Compound.

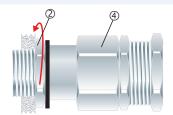
Note: Locknut and sealing washer for metric only.



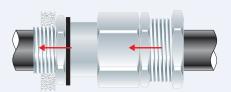
1. For accurate sizing, use a CCG Dimension Tape $^{(\!\!A\!)}$ on the outer cable sheath.



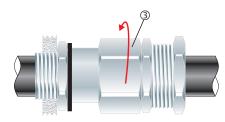
2. To maintain the IP66/68 ensure the gasket ① is in place.



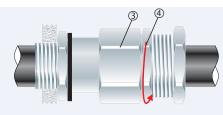
3. Screw the gland unit into the apparatus and tighten the inner ② to the installation torque. Ensure the locknut ④ is screwed up against the inner ②.



4. Pass the cable end through the gland assembly.



5. Tighten the outer ③ to the installation torque to produce a seal and grip on the cable.



6. Tighten the locknut 3 up against the outer 3.