



Bushing



Features

- Sleeve size M10 to Ø 250
- Cross-sections for 0.06 mm<sup>2</sup> or 185 mm<sup>2</sup>
- Ex d and pressure-sealed
- -55 °C to +150 °C
- Number of connection options

Description

These bushings II 1G in the series 07-96... serve not only as the electrical connecting element between a pressure-proof encapsulated enclosure and a housing in another recognised method of protection, but also as a gas diffusion-proof separating element to zone 0 (IG/IIG).

The core piece of this gas diffusion-proof lead-through is a metal plate in which the stud-type bushings are insulated with glass. The electrical connection on both sides of the lead-through can be set forth with metal duct bolts, cable wires or hose lines as required.

This connecting area is, or can additionally be, cast with a poured resin.

The connector studs, connecting wires or the hose line of the line bushing II 1G must be connected in enclosures which conform to a type of protection standardised according to DIN EN 60079-0.

The lead-through is compliant with the pertinent DIN EN 60079-0, DIN EN 60079-1 and DIN EN 60079-7 and DIN EN 60079-26 standards.

Explosion protection

Ex protection type

- ⊕ II 1G Ex de II
- ⊕ I M1 Ex de I

Certification

- PTB 00 ATEX 1116 U
- IECEx PTB 06.0061 U

Temperature during nominal operation

- T<sub>a</sub> -55 °C to +150 °C
- (depending on the type of cable)

Technical data

Protection class

- IEC 60529/EN 60529
- without encapsulating IP 00

Material

- Sleeve metal
- Insulator glass
- Pour EP resin, PU resin
- Bushing bolt FeNi alloy steel, Niro steel

Rated insulation voltage

- ≤ AC 50 V/DC 75 V, 250 V, 690 V, 1 000 V

Rated uninterrupted current up to 200 A

Connection line 0.25 bis 6.0 mm<sup>2</sup>

Diameter flange Ø 10 mm to 250 mm

Thread size M10 x 1 to M72 x 1.5

Selection chart

Form side Zone 0	Code no.	Nominal voltage	Code no.	Stud Ø	Code no.	Number of studs/wires	Code no.	Form side Zone 1, Zone 2 or Ex-free	Code no.	Protection system (test body, standard revision)	Code no.	
Flange with extra screw part-metric	0	690 V	1	Special diameter (0.3 to 16 mm)	A	1	00	Flange with extra screw part-metric	0	Ex de I and Ex de II PTB ATEX approval	G	
Flange with extra screw part-NPT	1			0.5	B			01	Flange with extra screw part-NPT			1
				0.6	C							
Flange with extra screw part-Whitworth Pipe thread	2	250 V	2	0.8	D	...	...	Flange with extra screw part-Whitworth Pipe thread	2			
				1.0	E							
Flange	3	1 000 V	3	1.6	F	10	10	Flange	3			
Flange with extra screw part-Pg	4			2.0	G				Flange with extra screw part-Pg			4
				3.0	H			11	11			
Flange with extra plug part L ≥ 12.5 < 25	5	special voltage > AC 50 V/ DC 75 V < 10 00 V	8	4.0	J	...	...	Flange with extra plug part L ≥ 12.5 < 25	5			
Flange with extra plug part L ≥ 25 < 40	6			5.0	K							
Flange with extra plug part L ≥ 40	7			6.0	L			20	20	Flange with extra plug part L ≥ 25 < 40	6	
				8.0	M			21	21	Flange with extra plug part L ≥ 40	7	
Flange with extra plug part-special forms	8			10.0	N							
Flange with extra plug part-fixing flange	9	≤ AC 50 V/ DC 75 V	9	12.0	P	...	...	Flange with extra plug part-special forms	8			
				14.0	Q							
				16.0	R			99	99	Flange with extra plug part-fixing flange	9	
				mixed	Z							

Complete order no.

07-96 [ ] [ ] - [ ] [ ] [ ] / [ ] XXX

Please enter code number. Technical data subject to change without notice.