



Bushing



Description

The 07-96... type series II 1G line bushing serves as a gas diffusion-proof isolation element for zone 0 (1G/2G) while simultaneously providing an electric connection for leads:

- between flameproof enclosures
- between flameproof enclosures and enclosures with another approved type of protection Category II 2 G
- flameproof enclosures and protected installations Category II 3 G or
- in the safe area

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

ATEX II 1/2G Ex d + e/d IIC Ga/Gb
I M1 Ex d + e I Ma

Certification

CML 13 ATEX 1009 U

IECEX Ex d + e/d IIC Ga/Gb
Ex d + e I Ma

Certification

IECEX CML 14.0003 U

Other approvals and certificates, see www.bartec-group.com

Temperature at rated operation

-55 °C to +150 °C (with potting)
-55 °C to +200 °C (without potting)
depending on the lead used and type of sealing

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 500 A

Type of connection

Core wires 0.25 mm² to 16 mm²
Threaded bolts M3 to M30
(max. quantity of connections: 99)

Construction sizes

Thread M10x1 to M72x2
Flange Ø 10 mm to 250 mm

Pressure

-500 mbar to +400 bar
depending on the design

Complete order no. 07-96 [ ] [ ] - [ ] [ ] [ ] [ ] / [ ] [ ] \*

There are many connection options available through core wires or threaded bolts.

\*Technical specifications can be given in the customer requirements form at the end of the chapter.

Technical data subject to change without notice.