

Explosion-Proof Cable Gland KBB-R for Armored Cables

Explosion-proof cable gland KBB-R is used at chemical and petrochemical plants, sea platforms, oil refineries and other industrial units with hazardous atmospheres (gas and explosive dust).

KBB-R is designed for sealing and clamping of armored cables inside explosion-proof electrical enclosures, with indoor or outdoor installation, where explosive atmosphere occurrence is possible.

Cable gland KBB-R is supplied with a full installation set.

Cable gland material: brass, stainless steel.

Internal sealings material: elastomer, silicone.

Cable glands have explosion-proof marking with various types of explosion protection: "d" – flameproof enclosure, "e" – increased safety, "t" – protection by enclosures in dust atmospheres.

Application Areas

■ Explosion hazard zones 0, 1, 2 according to IEC 60079-10-1:2006

■ Explosion hazard zones 20, 21, 22 according to IEC 60079-10-2:2009



Technical Data

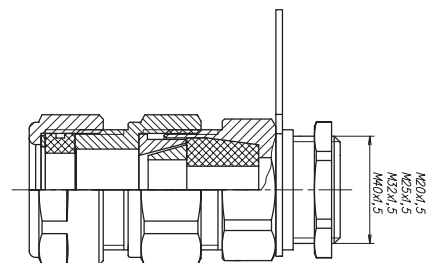
Dust and moisture protection rating	IP66
Explosion protection marking	1Ex d IIC Gb / 1Ex e IIC Gb / 2Ex nR IIC Gb Ex tb IIIC Db
Operating ambient temperature range	-60 ... + 130 °C
Minimum installation temperature	-60 °C
Impact resistance	IK08/7J

Delivery Set

Main adapter sleeve
Elastomer sealing ring
Intermediate washer
Gasket
Clampint adapter sleeve
Earthing ring
Clamping nut screw

Dimension Details

Cable gland type code	Thread standard	Diameter, mm	Height, mm	Thread length, mm
KBB-R20	M20×1.5	32	75	15
KBB-R20	M25×1.5	35	75	15
KBB-R25	M25×1.5	44	85	15
KBB-R32	M32×1.5	50	101	15
KBB-R40	M40×1.5	55	102	15



Cable Glands

Cable Glands' Specifications

Cable gland type code	Thread type (metric)	Thread type G (imperial) [°]	Minimum diameter of the outer jacket, mm	Maximum diameter of the outer jacket, mm
Cable gland complete with seals (letter "K" in the designation)				
KBB-R20	M20×1.5	1/2"	5,5-13	10-19
KBB-R20	M25×1.5	3/4"	5,5-13	10-20,5
KBB-R25	M25×1.5	3/4"	8-18	15-24
KBB-R32	M32×1.5	1"	13-24	20-31,5
KBB-R40	M40×1.5	1 1/4"	21-30	25-37,5
Cable gland with universal seals (letter "U" in the designation)				
KBB-R20	M25×1.5	3/4"	5-14	12-21

* – G-thread cable glands produced on customer's request

Ordering Information

Example: Cable gland **KBB-R20-PN-M25-K**

①
② ③
④
⑤
⑥

1. Cable gland type;
2. Cable type (R – armored power cable);
3. Cable gland standard size (20, 25, 32, 40);
4. Cable gland material (PN – brass, SN – stainless steel);
5. Designation of type and size of connecting metric thread (tubular cylindrical (G) thread – to be ordered separately);
6. Gasket type (U – universal gaskets, K – gaskets set, Fn – for flat cable, small, Fw – for flat cable, big).

Types

Name	Order code
KBB-R20	3299000000
KBB-R20	3299000001
KBB-R25	3299000002
KBB-R32	3299000003
KBB-R40	3299000004
KBB-R20	3299000005

Approvals



[°] Certification is underway