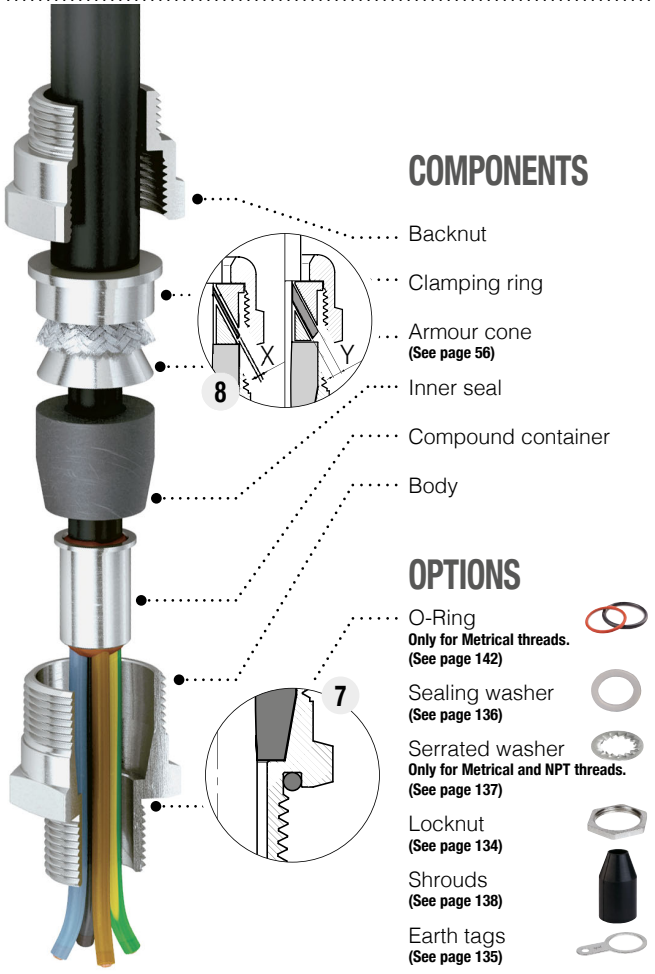
BAM type

IP66/68 · SI Silicone seals °C -65° ÷ +220° · EP EPDM seals °C -40° ÷ +100° · RoHS Compliant · EMC proof · CE · Ex · IECEx · EAC · CCC

FLAMEPROOF EX D • INCREASED SAFETY EX E • FOR INDOOR & OUTDOOR APPLICATIONS
FOR ARMOURED CABLES • UNDER ARMOUR SHEATH SEALING



COMPOUND	LIQUID	SOLID
Application	Gun	By hand
Mixing time	-	30 min
Full cure time	16 to 24 min at 24°C	4 hours
Installation	Vertical position	Any Orientation

1 Cable glands BAM type (code: **BAM**)
Flameproof Ex d Barrier Cable Glands sealed with sealing compound. The sealing ring blocks the cable on the diameter under armour. The cone rings grips and grounds the cable armour.
The addition of male thread on the backnut allows the cable gland to be coupled to a conduit fitting. Cable glands EMC tested by triaxial method, according to IEC 62153-4-3, IEC 62153-4-4 standards. Metric cable glands are made according to EN 62444 standards. Maintenance and installation operations and product selection must be done in accordance with IEC EN 60079-14 and 17 standards.

Application fields Surface - Group II • Mines - Group I

Approvals / Certifications
ATEX INERIS 06 ATEX 0014X
Type examination certificate: INERIS 17 ATEX 3009X (Ex nR IIC Gc)
IEC Ex: IEC Ex INE 10.0010X
EAC: RU C-IT.АЯ 45.B.00909
CCC Ex NEPSI Certificate: Nr. 2021322313003706

Protection type
Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)

EPL (Equipment protection level)
Zone 1-2: Mb mines • Gb, Gc gas
Zone 21-22: Db Dc combustible dusts

Execution
Ex db IIC • Ex eb II • Ex tb IIIC • Ex db I • Ex eb I Db according to
ATEX: EN IEC 60079-0:2018 • EN 60079-1:2014 •
EN IEC 60079-7:2015/A1:2018 • EN 60079-15:2010 •
EN 60079-31:2014 • EN 60529:1991
IEC Ex: IEC 60079-0:2017 • IEC 60079-1:2014 •
IEC 60079-7:2015/A1:2017 • IEC 60079-15:2017 •
IEC 60079-31:2013 • IEC 60529:1989+A1:1999+A2:2013

5 Ambient temperatures in services: sealing washers materials
EPDM seals + Resin RCN SFR+SFH: -40°C ÷ +100°C (code: **EP**)
Silicone seals + Resin RCN SFR+SFH: -50°C ÷ +149°C (code: **SI**)
EPDM seals + Resin RCN EPR+EPH: -40°C ÷ +100°C (code: **EP**)
Silicone seals + Resin RCN EPR+EPH: -60°C ÷ +150°C (code: **SI**)

Cable type
Armoured: Single armoured cable SWA, Alluminium wire armoured cable AWA,Alluminium strip armoured ASA. Single wire braided cable SWB, Steel tape armored cable STA, Pliable wire armoured cable PWA. Screened flexible wire braided cable CY-SY
Reduced cone available for SWA armoured cables.

6 Available materials
Brass (code: **OT**) • Nickel-plated brass (code: **ON**)
AISI316L Stainless steel (code: **S6**) • Aluminium (code: **AL**)
AVP Steel (code: **AVP**)

Available threads
ISO 262 Metrical • ISO 228 • DIN 40430 Pg
ANSI B1.20.1 NPT • EN 10226 Gk (only for ATEX)

Degree of protection
The cable glands degree of protection is **IP66** or **IP66/68**, 30-meters depth for 7 days according to the IEC EN 60529 standard; the degree of protection IP 68 is obtained by using flat sealing rings on cable glands with cylindrical threads. Without gaskets, the degree of protection is IP 66. If the cable glands with cylindrical or tapered threads are screwed on the threaded hole of an apparatus, in order to guarantee an IP66 or IP66/68 degree of protection, threaded parts must be sealed with Loctite or similar. In order to maintain the IPX8 degree of protection, the cable entry shall be fitted on enclosure witch satisfies an immersion test under 30 meters of water during 7 days. Metric cable glands are made in accordance to EN 62444 Standard.

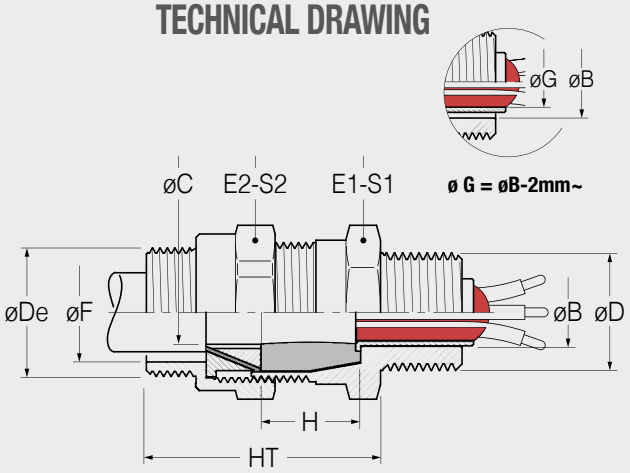
0 Kit version (code: **KIT**)
Includes cable glands and
the requested complete series of
the rubber seals accompanying the size.

EXAMPLE CODE

See page 56

0	1	2	3	4	4E	5	6	7	8
KIT	**BAM.**	**25.**	**13.**	**N25.**	**N25.**	**EP.**	**ON.**	**OR.**	**BS**
Optional code	Type	Size	Ø C Max	Thread code	Thread code	Seals material code	Material code	Optional code	Optional code
Kit series			**Inner seal (10,5 ÷ 13)**	**See tab. page 57**	**See tab. page 57**	**EP•SI**	**OT•ON•S6 AL•AVP**	**O-Ring**	**Reduced cone**

TECHNICAL DRAWING



2	3	8 ARMOUR RANGE		4 Ø D - THREADS					4E Ø De - THREADS					DIMENSIONS							
				Cylindrical			Tapered		Cylindrical			Tapered									
SIZE	**Ø C** Min - Max Inner seal	Standard cone X*	Reduced cone Y**	ISO 262	ISO 228	DIN 40430	NPT	EN 10226	ISO 262	ISO 228	DIN 40430	NPT	EN 10226	Weight	F	HT	H	E1	S1	E2	S2
16 (EP)	4 ÷ 7 7 ÷ 10	0 ÷ 0,5	0,5 ÷ 0,75	M12x1,5 **M16x1,5** M20x1,5	1 / 4” **3 / 8”** 1 / 2”	Pg7 Pg9 **Pg11** Pg13,5	1 / 4” **3 / 8”** 1 / 2”	1 / 4” **3 / 8”** 1 / 2”	M16x1,5	**3 / 8”**	/	3 / 8”	/	101	11	51	20	24	26	24	26
16 (SI)	4 ÷ 6 6 ÷ 8 8 ÷ 10																				
20	5,5 ÷ 8 8 ÷ 10,5 10,5 ÷ 13	0 ÷ 0,5	0,5 ÷ 1,25	M16x1,5 **M20x1,5** M25x1,5	**1 / 2”** 3 / 4”	Pg11 **Pg13,5** Pg16	**1 / 2”** 3 / 4”	**1 / 2”** 3 / 4”	M20x1,5	**1 / 2”**	/	1 / 2”	/	174	15	52	20	30	33	32	35
25	8 ÷ 10,5 10,5 ÷ 13 13 ÷ 15,5 15,5 ÷ 18	0 ÷ 0,5	0,5 ÷ 1,25	M20x1,5 **M25x1,5**	**3 / 4”** 1”	**Pg16** Pg21	**3 / 4”** 1”	**3 / 4”** 1”	M25x1,5	**3 / 4”**	/	3 / 4”	/	206	19	52	20	35	38	36	39
32	13 ÷ 15,5 15,5 ÷ 18 18 ÷ 21 21 ÷ 24	0 ÷ 1	1 ÷ 1,6	M25x1,5 **M32x1,5**	**1”**	**Pg21** Pg29	**1”**	**1”**	M32x1,5	**1”**	/	1”	/	356	25	62	25	42	47	45	49
40	21 ÷ 24 24 ÷ 27 27 ÷ 30	0 ÷ 1	1 ÷ 1,6	**M40x1,5**	**1” 1/4**	**Pg29**	**1” 1/4**	**1” 1/4**	M40x1,5	**1” 1/4**	/	1” 1/4	/	431	31	62	25	48	53	50	55
50	24 ÷ 27 27 ÷ 30 30 ÷ 33 33 ÷ 36	0 ÷ 1	1 ÷ 2	M40x1,5 **M50x1,5**	**1” 1/2**	**Pg36**	**1” 1/2**	**1” 1/2**	M50x1,5	**1” 1/2**	/	1” 1/2	/	568	42	62	25	55	60	57	62
63	36 ÷ 39 39 ÷ 42 42 ÷ 45	0 ÷ 1	1 ÷ 2	M50x1,5 **M63x1,5**	**2”**	**Pg42** Pg48	**2”**	**2”**	M63 x 1,5	**2”**	/	2”	/	784	47	63	25	68	74	67	73
75	45 ÷ 48 48 ÷ 51 51 ÷ 54	0 ÷ 1	1 ÷ 2	M63x1,5 **M75x1,5**	**2” 1/2**	**Pg48**	**2” 1/2**	**2” 1/2**	M75x1,5	**2” 1/2**	/	2” 1/2	/	1124	62	62	25	80	86	80	88
90a	54 ÷ 58 58 ÷ 62	0 ÷ 2	2 ÷ 2,5	M75x1,5 **M90x2**	**3”**	/	**3”**	**3”**	M90x2	**3”**	/	3”	/	2235	72	77	30	100	107	100	107
90b	60 ÷ 64 64 ÷ 68													1852							

• **Standard Threads in bold** • *Dimensions are in millimeters* • *Weight in grams (gr) of brass version*

* **Standard cone X:** *Suitable for all approved armour cables except SWA cables* ** **8 Reduced cone Y:** *Suitable for SWA cables (code:* **BS***)*