Product Catalog 2016

CABLE GLANDS & ACCESSORIES

for Industrial and Hazardous Applications

INDUSTRIAL PRODUCTS

EX-PROOF PRODUCTS

VENTILATION SYSTEMS

HYGIENIC PRODUCTS

bimed

Bimed begun in 1978 as a manufacturer of medical and mechanical components. Today Bimed is a family owned organization with more than 300 people and a 20,000 square meter facility. The Istanbul, Turkey-based company has offices in North America, Germany and Egypt. In many other countries Bimed is represented through local distribution partners.

Our product range consists of the following groups:

- Cable glands and conduit fittings
- Pressure balance elements
- Connectors for the appliance and automotive industries
- Gas springs for the automotive and furniture industries
- Disposable medical products

Cable glands and conduit fittings are designed for applications in a wide range of industries. Pressure balance elements improve quality and reliability of our customers' products. Connectors for appliances and for the automotive industry are used all over the world. Custom designed gas springs reduce total cost of ownership of our customers. Medical products are manufactured in a clean room environment and are sold as OEM products globally. All our products conform to the relevant national and international standards and our activities are based on EN ISO 9001:2008 standard.

As a result, Bimed gained an international reputation for high quality production. Due to our state-of-the-art certified laboratory and our 30 years of experience in the cable gland and electrical industry we also received ATEX 100 and IEC Ex factory approval.

Bimed is constantly working to achieve customer satisfaction, by meeting requested requirements with its standard and customized products. Most often, our research and development department produces completely new items in accordance with client demands. These activities help us gain the praise and high appreciation of our customers.

Because of High standards need for Hazardus Area Bimed start to invest for own Laboratuary which has been certified by IMQ according to EN60079-0/2009.

With a worldwide market base, the Bimed distribution network has been established to ensure that the needs of this global market are well understood and fully satisfied. Our products have been expanded to and distributed in more than 30 countries. Bimed has a merit-based leadership in the cable gland and connector sector established on its reputation for quality and innovation. This philosophy has been instrumental in the development of a product line that is constantly growing to reflect the changing industry needs and advancements in technology.

With the above resume about Bimed we intend to emphasize the Bimed production philosophy and let it serve as certification for the large product line manufactured by all our divisions.





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CABLE GLANDS & ACCESSORIES for INDUSTRIAL APPLICATION

CABLE GLANDS & ACCESSORIES for HAZARDOUS APPLICATION





bimed

Polyamide
CABLE GLANDS
for Industrial Application





Glands

Polyamide
ACCESSORIES
for Industrial Application

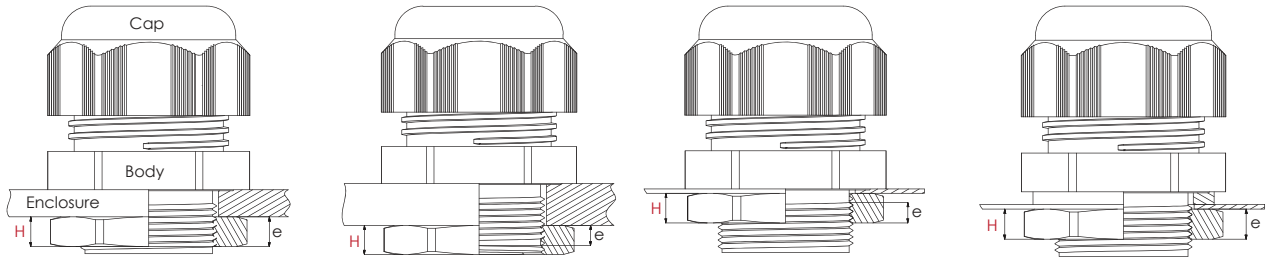




Accessories

Cable Gland Assembling Instruction

Assembling with lock nut on non threaded enclosure

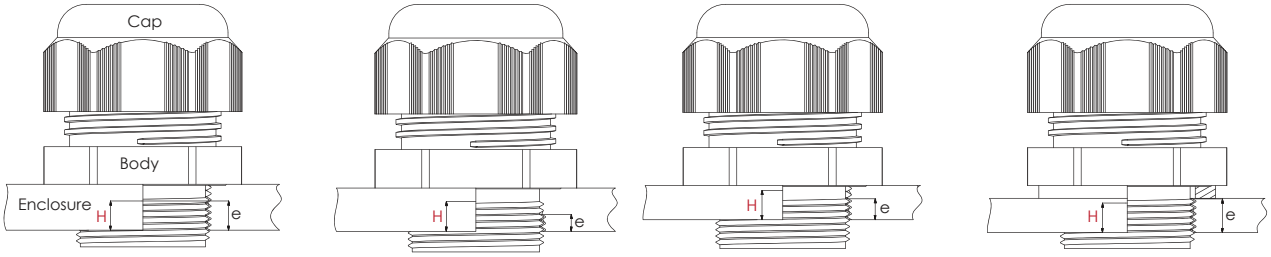


H = e / Right | H = e / Wrong | H = e / Wrong | H = e / Right

Relevent Lock Nut Thickness

Size		H (±0,5 mm)
M12 to M16	**Pg 7 to Pg 11**	5,0
M20 to M25	**Pg 13,5 to Pg 16**	6,0
M32 to M40	**Pg 21 to Pg 29**	7,0
M50 to M63	**Pg 36 to Pg 42**	8,0

Assembling with lock nut on threaded enclosure

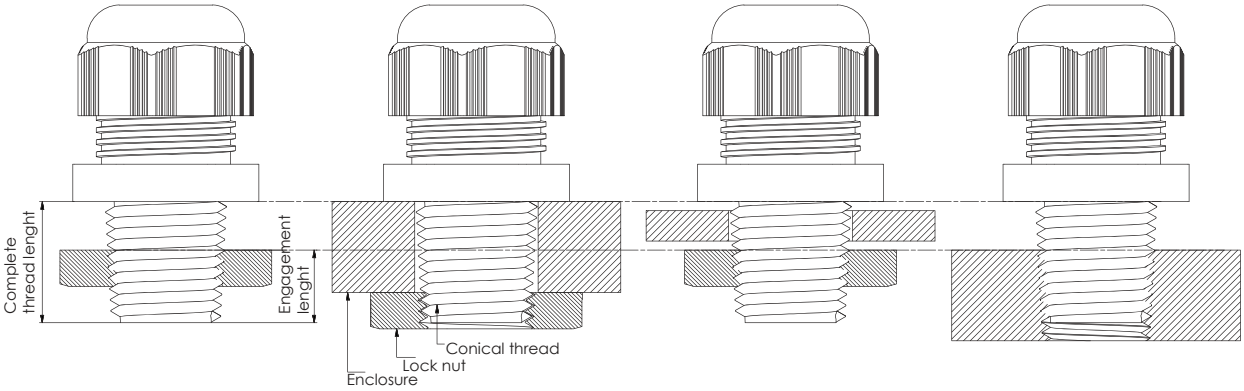


H = e / Right | H = e / Wrong | H = e / Wrong | H = e / Right

Complementary Instruction

- The engaged thread lenght "e" must be equal or longer than relevant lock nut thickness "H"
- The thread dimensions and tolerances on threaded enclosures must be convinient with the relevant thread standard.
- Firstly, the gland body must be mounted to the enclosure.
- The body or the lock nut must be tightened according to torque indicated on the instruction chart.
- As much as posibble double wrench have to be used for non threaded enclosures.
- For cable asssembling the cap must be tightened according to torque indicated on the instruction chart.
- During the cable assembling or disassembling gland body must be keep fixed. Double wrench have to be used for this purpose.

Npt threads application

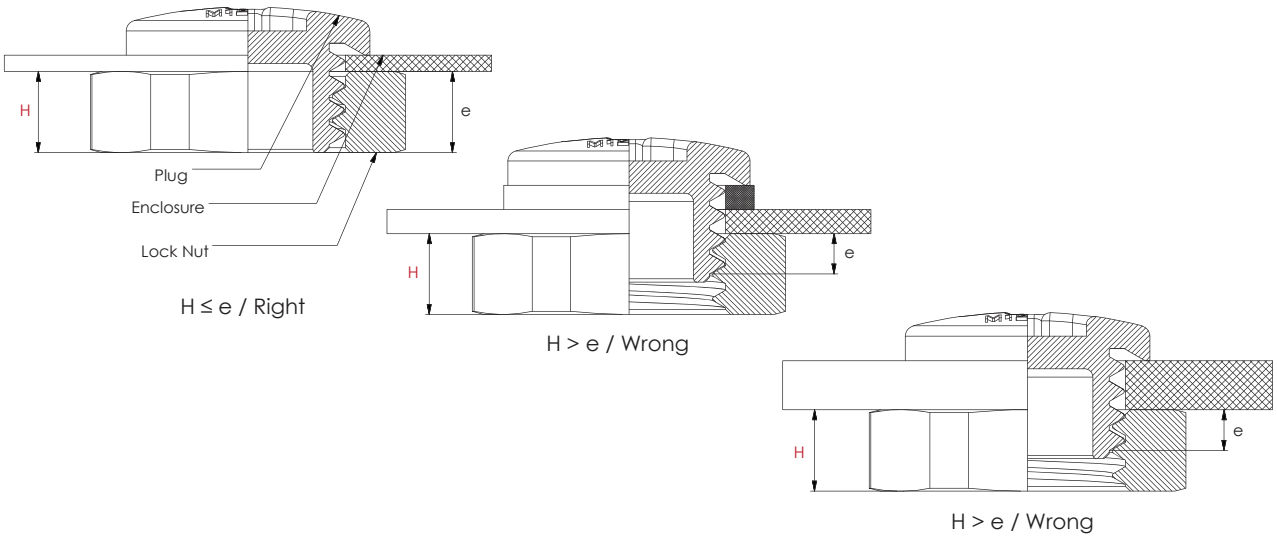


Tightened Lock Nut | Loose Lock Nut | Loose Cable Gland | Safe Application Bad Appearance

Thread standard	ANSI B1.20.1
Thread name	National Pipe Threads
Thread definition	NPT is an US Standard for "Tapered Threads" used in threaded pipes and fittings. The thread can provide an effective seal for liquids, gases, hydraulic, fluids and steam. They are used generaly for steel, brass, cast-iron, PTFE, PVC, PA materials.
Other Appellations	MPT : Male Pipe Threads FPT : Female Pipe Threads
Applications	The NPT threads are always used for male and female pipe / fitting joints. Regarding the conicity of the thread they are not suitable for lock-nut applications.
"Cable Glands" and "Electrical Fitting" applications	The NPT threaded cable glands or male threaded electrical fittings as reducers, blind stops etc must used a NPT female threaded enclosures or cabinets. The usage of lock nuts for NPT threads is not a recommended application. According the relevant standard, the male and female threads have a defined engagement length. When we use a lock nut (even if is NPT threaded), we know that this one will be blocked, after the defined length portion of the male thread.In result we can not be sure that this blocking distance will be suitable for the wall thickness of the enclosure or cabined. If we are using an equivalent paralel thread lock nut the result will be worst because the male and female thread, will not be in complete contact.

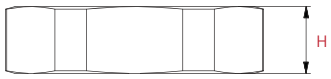
Plug
Assembling Instruction

Assembling with lock nut on non threaded enclosure

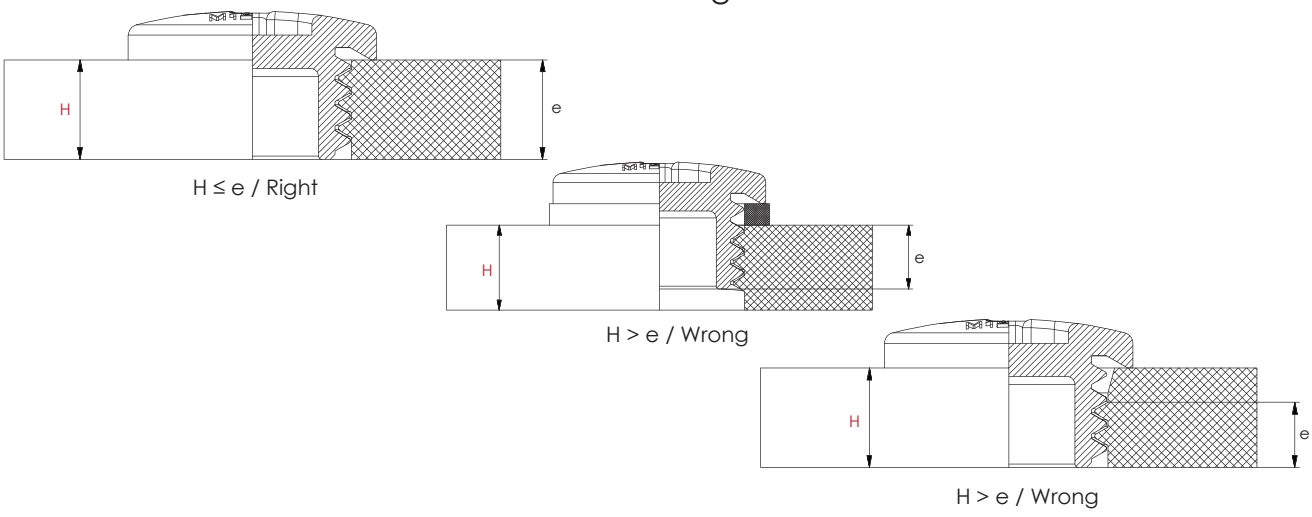


Relevent Lock Nut Thickness

Size		H (±0,5 mm)
M12 to M16	Pg 7 to Pg 11	5,0
M20 to M25	Pg 13,5 to Pg 16	6,0
M32 to M40	Pg 21 to Pg 29	7,0
M50 to M63	Pg 36 to Pg 42	8,0



Assembling with lock nut on threaded enclosure



Complementary Instructions:

- The engaged thread lenght "e" must be equal or longer than relevant lock nut thickness "H"
- The thread dimensions and tolerances on threaded enclosures must be convinient with the relevant thread standard.
- Firstly, the blind stop must be mounted to the enclosure.
- The blind stop or the lock nut must be tightened according to torque indicated on the instruction chart.
- As much as posibble double tool have to be used for non threaded enclosures.(Screw driver+wrench)

Standard Glands with Thread, Polyamide

Polyamide cable glands with lamellar clamping

- For standard industrial applications.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

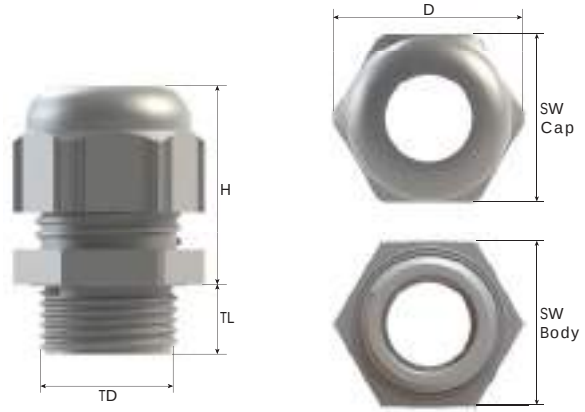
Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Gas ISO 228 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. **Note:** Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

Approvals

	Certificate Number	Standards
VDE	134171	acc. to DIN EN 62444
CSA	115116_0_000	acc. to CSA C22.2
UL	E199260	acc. to UL514
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.

Standard Glands with Thread, Polyamide



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	2,0 - 5,0	8	12	15	15	16,9	22,5	BI-1S	BI-0S	BI-2S	100
		10						BM-EN-1SMR	BM-EN-0SMR	BM-EN-2SMR	
		15						BM-EN-1SRL	BM-EN-0SRL	BM-EN-2SRL	
	3,0 - 6,5	8						BM-1S	BM-0S	BM-2S	
		10						BM-EN-1SM	BM-EN-0SM	BM-EN-2SM	
		15						BM-EN-1SL	BM-EN-0SL	BM-EN-2SL	
M16x1,5	2,0 - 6,0	8	16	19	19	21,9	26,5	BM-EN-11R	BM-EN-01R	BM-EN-21R	50
		10						BM-EN-11MR	BM-EN-01MR	BM-EN-21MR	
		15						BM-EN-11LR	BM-EN-01LR	BM-EN-21LR	
	3,0 - 7,0	10		22	22	25,0	30,0	BI-11	BI-01	BI-21	
		15						BI-11L	BI-01L	BI-21L	
	4,0 - 8,0	8		19	19	21,9	26,5	BM-EN-11	BM-EN-01	BM-EN-21	
		10						BM-EN-11M	BM-EN-01M	BM-EN-21M	
		15						BM-EN-11L	BM-EN-01L	BM-EN-21L	
	5,0 - 10,0	10		22	22	25,0	30,0	BM-11	BM-01	BM-21	
		15						BM-11L	BM-01L	BM-21L	
M20x1,5	5,0 - 9,0	10	20	24	24	27,0	29,5	BI-12	BI-02	BI-22	50
		15						BI-12L	BI-02L	BI-22L	
	6,0 - 12,0	10						BM-12	BM-02	BM-22	
		15						BM-12L	BM-02L	BM-22L	
	7,0 - 12,0	10		27	27	31,0	31,0	BI-13	BI-03	BI-23	
		15						BI-14	BI-04	BI-24	
	7,0 - 13,0	10		25	25	27,5	29,5	BM-EN-12S	BM-EN-02S	BM-EN-22S	
	10,0 - 14,0	10		27	27	31,0	31,0	BM-13	BM-03	BM-23	
		15						BM-14	BM-04	BM-24	
M25x1,5	9,0 - 13,0	8	25	29	29	32,5	35,0	BM-EN-13R	BM-EN-03R	BM-EN-23R	50
		15						BM-EN-13RL	BM-EN-03RL	BM-EN-23RL	
	9,0 - 16,0	10		33	33	38,0	37,0	BI-15	BI-05	BI-25	25
		15						BI-16	BI-06	BI-26	
	11,0 - 17,0	8		29	29	32,5	35,0	BM-EN-13	BM-EN-03	BM-EN-23	50
		15						BM-EN-13L	BM-EN-03L	BM-EN-23L	
	13,0 - 18,0	10		33	33	38,0	37,0	BM-15	BM-05	BM-25	25
		15						BM-16	BM-06	BM-26	
M32x1,5	11,0 - 15,0	10	32	36	36	41,0	42,0	BM-EN-14R	BM-EN-04R	BM-EN-24R	20
		15						BM-EN-14RL	BM-EN-04RL	BM-EN-24RL	
	12,0 - 20,0	15		42	42	47,3	41,0	BI-17	BI-07	BI-27	
	15,0 - 21,0	10		36	36	41,0	42,0	BM-EN-14	BM-EN-04	BM-EN-24	
		15						BM-EN-14L	BM-EN-04L	BM-EN-24L	
	18,0 - 25,0	15		42	42	47,3	41,0	BM-17	BM-07	BM-27	
M40x1,5	16,0 - 23,0	10	40	46	46	52,4	47,0	BM-EN-15R	BM-EN-05R	BM-EN-25R	20
		15						BM-EN-15MR	BM-EN-05MR	BM-EN-25MR	
		18						BM-EN-15RL	BM-EN-05RL	BM-EN-25RL	
	19,0 - 28,0	10						BM-EN-15	BM-EN-05	BM-EN-25	
		15						BM-EN-15M	BM-EN-05M	BM-EN-25M	
		18						BM-EN-15L	BM-EN-05L	BM-EN-25L	
	20,0 - 26,0	18		53	53	60,0	51,5	BI-18	BI-08	BI-28	10
	22,0 - 32,0							BM-18	BM-08	BM-28	
M50x1,5	25,0 - 31,0	18	50	60	60	67,8	53,0	BI-19	BI-09	BI-29	10
	30,0 - 38,0							BM-19	BM-09	BM-29	
M63x1,5	29,0 - 35,0	18	63	65	65	72,9	53,0	BI-20	BI-10	BI-30	10
	34,0 - 44,0							BM-20	BM-10	BM-30	
M75x2,0	48,0 - 55,0	25	75,0	75	80	89,0	55,0	BM-B12	BM-B02	BM-B22	5

Standard Glands with Thread, Polyamide

Polyamide cable glands with lamellar clamping

- For standard industrial applications.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

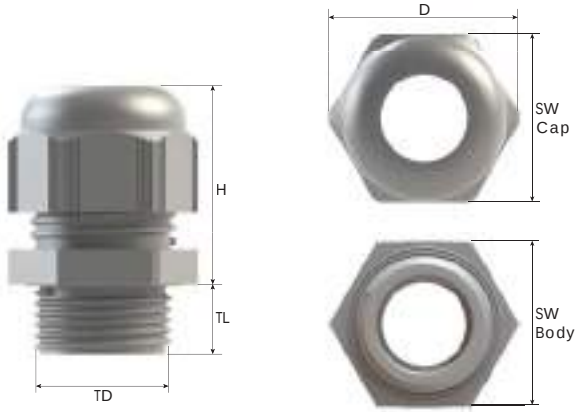
Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Gas ISO 228 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. **Note:** Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

Approvals

	Certificate Number	Standards
VDE	134171	acc. to DIN EN 62444
CSA	115116_0_000	acc. to CSA C22.2
UL	E199260	acc. to UL514
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.

Standard Glands with Thread, Polyamide



Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Clamping Range Ø min-max Inch	Thread Length TL mm	Thread Length TL Inch	Thread Ø TD mm	Thread Ø TD Inch	Spanner Width SW Cap mm	Spanner Width SW Cap Inch	Spanner Width SW Body mm	Spanner Width SW Body Inch	Outer Ø D mm	Outer Ø D Inch	max. Height H mm	max. Height H Inch	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
NPT 3/8"	3,0 - 7,0	0.118 - 0.276	15	0.591	17,14	0.675	22	0.866	22	0.866	25,0	0.984	29,0	1,141	BSPA-11R	BSPA-01R	BSPA-21R	50
	5,0 - 10,0	0.197 - 0.394													BSPA-11	BSPA-01	BSPA-21	
NPT 1/2"	5,0 - 9,0	0.197 - 0.354	15	0.591	21,34	0.840	24	0.945	24	0.945	27,0	1.063	29,0	1,141	BSPB-12R	BSPB-02R	BSPB-22R	50
	6,0 - 12,0	0.236 - 0.472													BSPB-12	BSPB-02	BSPB-22	
	7,0 - 12,0	0.276 - 0.472	11	0.433			27	1.063	27	1.063	30,9	1.217	31,0	1,220	BSPC-12R	BSPC-02R	BSPC-22R	
	10,0 - 14,0	0.394 - 0.551													BSPC-12	BSPC-02	BSPC-22	
NPT 3/4"	9,0 - 16,0	0.354 - 0.630	15	0.591	26,67	1.050	33	1.299	33	1.299	38,0	1.496	37,0	1,456	BSPD-13R	BSPD-03R	BSPD-23R	25
	13,0 - 18,0	0.512 - 0.709													BSPD-13	BSPD-03	BSPD-23	
NPT 1"	12,0 - 20,0	0.472 - 0.787	18	0.709	33,40	1.315	42	1.654	42	1.654	47,3	1.862	41,0	1,614	BSP-14R	BSP-04R	BSP-24R	20
	18,0 - 25,0	0.709 - 0.984													BSP-14	BSP-04	BSP-24	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 7	2,0 - 5,0	8	12,5	15	15	16,9	22,0	BSR-11	BSR-01	BSR-21	100
	3,0 - 6,5							BS-11	BS-01	BS-21	
PG 9	2,0 - 6,0	8	15,2	19	19	21,9	26,5	BSR-12	BSR-02	BSR-22	50
	4,0 - 8,0							BS-12	BS-02	BS-22	
PG 11	3,0 - 7,0	8	18,6	22	22	25,0	29,0	BSR-13	BSR-03	BSR-23	50
	5,0 - 10,0							BS-13	BS-03	BS-23	
PG 13,5	5,0 - 9,0	10	20,4	24	24	27,0	29,0	BSR-14	BSR-04	BSR-24	50
	6,0 - 12,0							BS-14	BS-04	BS-24	
PG 16	7,0 - 12,0	10	22,5	27	27	30,9	31,0	BSR-15	BSR-05	BSR-25	50
	10,0 - 14,0							BS-15	BS-05	BS-25	
PG 21	9,0 - 16,0	11	28,3	33	33	38,0	37,0	BSR-16	BSR-06	BSR-26	25
	13,0 - 18,0							BS-16	BS-06	BS-26	
PG 29	12,0 - 20,0	11	37,0	42	42	47,3	41,0	BSR-17	BSR-07	BSR-27	20
	18,0 - 25,0							BS-17	BS-07	BS-27	
PG 36	20,0 - 26,0	13	47,0	53	53	60,0	51,5	BSR-18	BSR-08	BSR-28	10
	22,0 - 32,0							BS-18	BS-08	BS-28	
PG 42	25,0 - 31,0	13	54,0	60	60	67,8	53,5	BSR-19	BSR-09	BSR-29	10
	30,0 - 38,0							BS-19	BS-09	BS-29	
PG 48	29,0 - 35,0	14	59,3	65	65	72,9	53,5	BSR-20	BSR-10	BSR-30	10
	34,0 - 44,0							BS-20	BS-10	BS-30	

Thread Type **G** acc. to DIN ISO 228

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
G 1/4"	2,0 - 5,0	10	13,160	15	15	16,9	23,0	BPFR-1S	BPFR-0S	BPFR-2S	100
	3,0 - 6,5							BPF-1S	BPF-0S	BPF-2S	
G 3/8"	3,0 - 7,0	11	16,662	22	22	25,0	29,0	BPFR-11	BPFR-01	BPFR-21	50
	5,0 - 10,0							BPF-11	BPF-01	BPF-21	
G 1/2"	5,0 - 9,0	10	20,955	24	24	27,0	29,0	BPFR-12	BPFR-02	BPFR-22	50
	6,0 - 12,0							BPF-12	BPF-02	BPF-22	
	7,0 - 12,0	11	20,955	27	27	30,9	31,0	BPFR-13	BPFR-03	BPFR-23	
	10,0 - 14,0							BPF-13	BPF-03	BPF-23	
G 3/4"	9,0 - 16,0	12	26,441	33	33	38,0	37,5	BPFR-14	BPFR-04	BPFR-24	25
	13,0 - 18,0							BPF-14	BPF-04	BPF-24	
G 1"	12,0 - 20,0	13	33,249	42	42	47,3	41,5	BPFR-15	BPFR-05	BPFR-25	20
	18,0 - 25,0							BPF-15	BPF-05	BPF-25	

Snap-In Glands without thread, Polyamide

Polyamide cable glands, front-side assembly, without thread

- Specially designed cable glands - easy to assemble to housings without threaded holes.
- Easy assembly: push cable gland and turn body clockwise - insert cable - tighten cap.
- Perfectly fit to wall thickness 0,5 mm to 4,0 mm.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Easy disassembly (with separate tool).

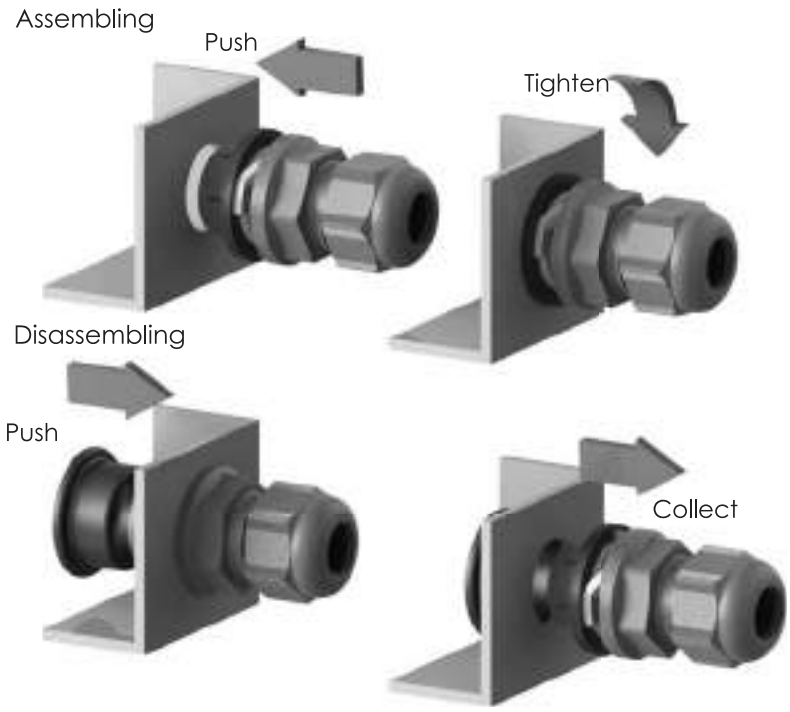
Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Lower Body	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Disassembly tools (one piece included per packing unit)	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. **Note:** Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

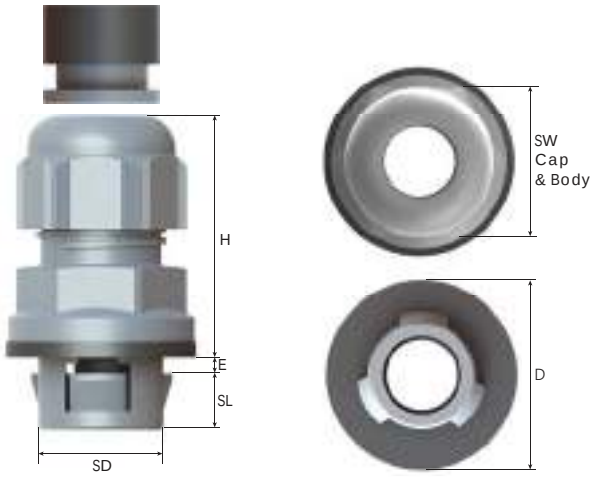
Approvals

	Certificate Number	Standards
VDE	134171	acc. to DIN EN 62444
UL	E199260	acc. to UL 514B
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.

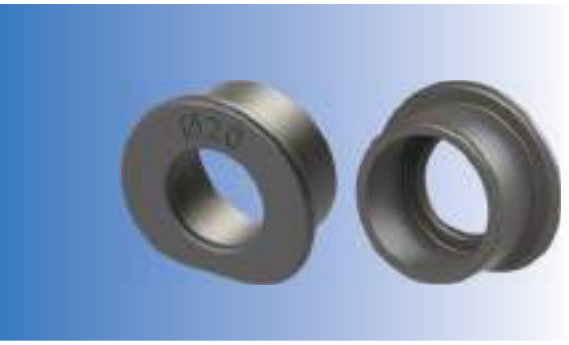


Snap-In Glands without thread, Polyamide



wall thickness (E) : 0,5 - 4,0 mm

Size	Outer Seal Ø min-max mm	Double Seal Ø min-max mm	Snap Length SL mm	Snap Ø SD mm	Hole Ø HD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
16	5,0 - 10,0	-	9,0	15,9	16,2 - 16,4	22	22	26,5	42,5	**BMOS-11**	**BMOS-01**	**BMOS-21**	100
		3,0 - 7,0								**BMOS-DS-11**	**BMOS-DS-01**	**BMOS-DS-21**	
20	6,0 - 12,0	-	9,0	19,9	20,2 - 20,4	24	24	30,3	41,5	**BMOS-12**	**BMOS-02**	**BMOS-22**	50
		5,0 - 9,0								**BMOS-DS-12**	**BMOS-DS-02**	**BMOS-DS-22**	
	7,0 - 13,0	-				25	25		41,5	**BMOS-EU-12**	**BMOS-EU-02**	**BMOS-EU-22**	
		3,0 - 7,0								**BMOS-EU-DS-12**	**BMOS-EU-DS-02**	**BMOS-EU-DS-22**	
25	11,0 - 17,0	-	9,0	24,9	25,2 - 25,4	29	29	36,3	43,5	**BMOS-EU-13**	**BMOS-EU-03**	**BMOS-EU-23**	25
		8,0 - 13,0								**BMOS-EU-DS-13**	**BMOS-EU-DS-03**	**BMOS-EU-DS-23**	
32	15,0 - 21,0	-	9,0	31,9	32,2 - 32,4	36	36	43,2	49,5	**BMOS-EU-14**	**BMOS-EU-04**	**BMOS-EU-24**	25
		11,0 - 16,0								**BMOS-EU-DS-14**	**BMOS-EU-DS-04**	**BMOS-EU-DS-24**	
40	19,0 - 28,0	-	11,5	39,9	40,2 - 40,4	46	46	55,2	56,0	**BMOS-EU-15**	**BMOS-EU-05**	**BMOS-EU-25**	20
		16,0 - 21,0								**BMOS-EU-DS-15**	**BMOS-EU-DS-05**	**BMOS-EU-DS-25**	



Snap-In Gland Disassembling Tool

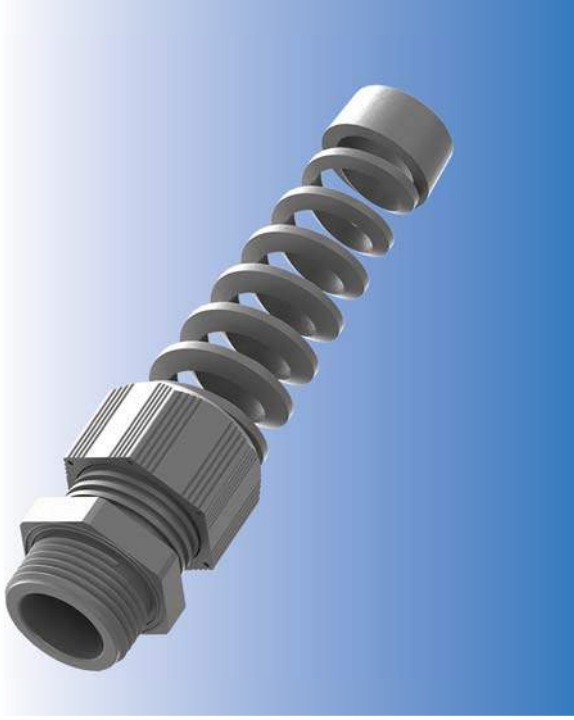
Tool to disassemble Snap-In Glands

Technical Details

Material	Plastic

Size	ID mm	H mm	Part Number	Packing Unit
16	16,0	13,0	**BEX-16**	10
20	20,0	13,0	**BEX-20**	10
25	25,0	13,0	**BEX-25**	10
32	32,0	13,0	**BEX-32**	10
40	40,0	15,5	**BEX-40**	10

Cable Protection Glands Polyamide



Cable protection glands with lamellar clamping

- For cable bending protection.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

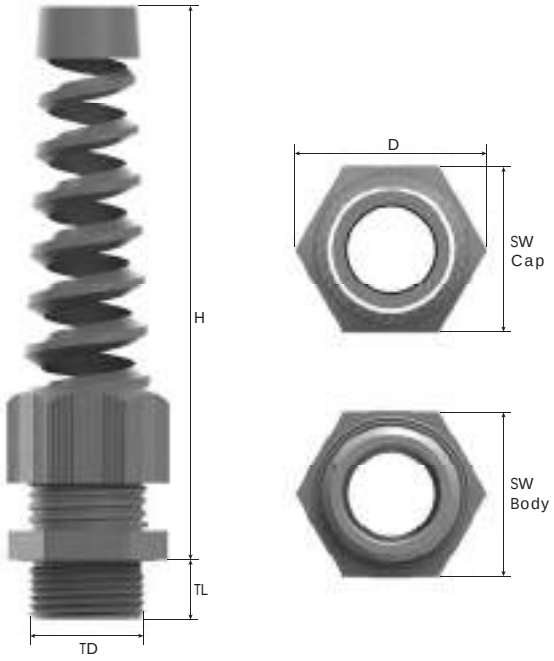
Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Gas ISO 228 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all colours or sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

Approvals

	Certificate Number	Standards
VDE	134171	acc. to DIN EN 62444
CSA	115116_0_000	acc. to CSA C22.2
UL	E199260	acc. to UL514
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.

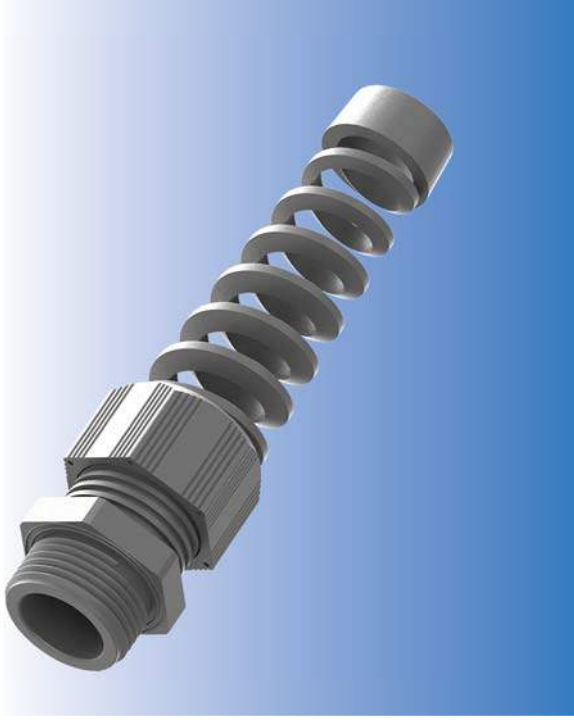
Cable Protection Glands Polyamide



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	2,0 - 5,0	8	12,0	15	15	17,1	57,0	BISP-1S	BISP-0S	BISP-2S	100
		10						BISP-1SM	BISP-0SM	BISP-2SM	
		15						BISP-1SL	BISP-0SL	BISP-2SL	
	3,0 - 6,5	8						BMSP-1S	BMSP-0S	BMSP-2S	
		10						BMSP-1SM	BMSP-0SM	BMSP-2SM	
		15						BMSP-1SL	BMSP-0SL	BMSP-2SL	
M16x1,5	3,0 - 7,0	10	16,0	22	22	25,2	81,5	BISP-11	BISP-01	BISP-21	50
		15						BISP-11L	BISP-01L	BISP-21L	
	5,0 - 10,0	10						BMSP-11	BMSP-01	BMSP-21	
		15						BMSP-11L	BMSP-01L	BMSP-21L	
M20x1,5	5,0 - 9,0	10	20,0	24	24	26,7	93,0	BISP-12	BISP-02	BISP-22	50
		15						BISP-12L	BISP-02L	BISP-22L	
	6,0 - 12,0	10						BMSP-12	BMSP-02	BMSP-22	
		15						BMSP-12L	BMSP-02L	BMSP-22L	
	7,0 - 12,0	10		27	27	31,0	106,0	BISP-13	BISP-03	BISP-23	
		15						BISP-14	BISP-04	BISP-24	
	10,0 - 14,0	10						BMSP-13	BMSP-03	BMSP-23	
		15						BMSP-14	BMSP-04	BMSP-24	
M25x1,5	9,0 - 16,0	10	25,0	33	33	38,0	117,5	BISP-15	BISP-05	BISP-25	25
		15						BISP-16	BISP-06	BISP-26	
	13,0 - 18,0	10						BMSP-15	BMSP-05	BMSP-25	
		15						BMSP-16	BMSP-06	BMSP-26	

Cable Protection Glands Polyamide



Cable protection glands with lamellar clamping

- For cable bending protection.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

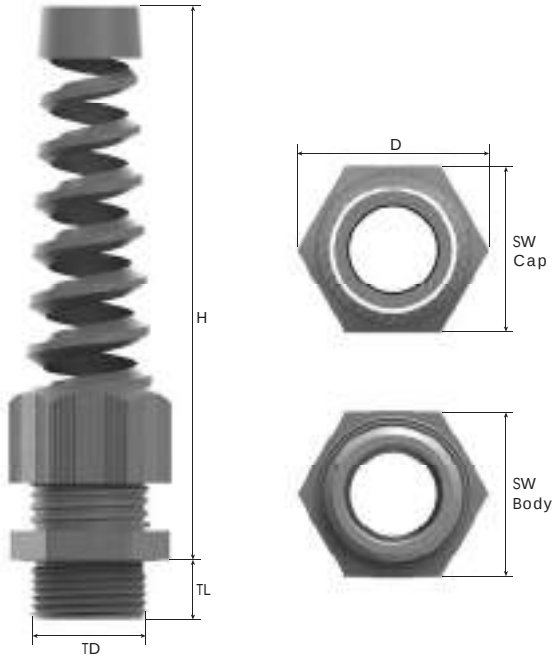
Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Gas ISO 228 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all colours or sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

Approvals

	Certificate Number	Standards
VDE	134171	acc. to DIN EN 62444
CSA	115116_0_000	acc. to CSA C22.2
UL	E199260	acc. to UL514
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.



Cable Protection Glands Polyamide

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Clamping Range Ø min-max inch	Thread Length TL mm	Thread Length TL inch	Thread Ø TD mm	Thread Ø TD inch	Spanner Width SW Cap mm	Spanner Width SW Cap inch	Spanner Width SW Body mm	Spanner Width SW Body inch	Outer Ø D mm	Outer Ø D inch	max. Height H mm	max. Height H inch	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
NPT 3/8"	3,0 - 7,0	0.118 - 0.276	15,0	0.591	17,14	0.673	22	0.866	22	0.866	25,3	0.996	81,5	3.169	BNSPA-11R	BNSPA-01R	BNSPA-21R	50
	5,0 - 10,0	0.197 - 0.394													BNSPA-11	BNSPA-01	BNSPA-21	
NPT 1/2"	5,0 - 9,0	0.197 - 0.354	15,0	0.591	21,34	0.839	24	0.945	24	0.945	27,6	1.087	93,3	3.720	BNSPB-12R	BNSPB-02R	BNSPB-22R	50
	6,0 - 12,0	0.236 - 0.472													BNSPB-12	BNSPB-02	BNSPB-22	
	7,0 - 12,0	0.276 - 0.472					27	1.063	27	1.063	31,0	1.220	106,0	4.173	BNSPC-12R	BNSPC-02R	BNSPC-22R	
	10,0 - 14,0	0.394 - 0.551													BNSPC-12	BNSPC-02	BNSPC-22	
NPT 3/4"	9,0 - 16,0	0.354 - 0.630	15,0	0.591	26,67	1.051	33	1.299	33	1.299	38,0	1.496	117,9	4.606	BNSPD-13R	BNSPD-03R	BNSPD-23R	25
	13,0 - 18,0	0.512 - 0.709													BNSPD-13	BNSPD-03	BNSPD-23	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 7	2,0 - 5,0	8,0	12,5	15	15	17,2	57,5	BSRP-11	BSRP-01	BSRP-21	100
	3,0 - 6,5							BSSP-11	BSSP-01	BSSP-21	
PG 9	2,0 - 6,0	8,0	15,2	19	19	21,8	69,4	BSRP-12	BSRP-02	BSRP-22	50
	4,0 - 8,0							BSSP-12	BSSP-02	BSSP-22	
PG 11	3,0 - 7,0	8,0	18,6	22	22	25,3	81,6	BSRP-13	BSRP-03	BSRP-23	50
	5,0 - 10,0							BSSP-13	BSSP-03	BSSP-23	
PG 13,5	5,0 - 9,0	10,0	20,4	24	24	27,6	93,5	BSRP-14	BSRP-04	BSRP-24	50
	6,0 - 12,0							BSSP-14	BSSP-04	BSSP-24	
PG 16	7,0 - 12,0	10,0	22,5	27	27	31,1	106,0	BSRP-15	BSRP-05	BSRP-25	50
	10,0 - 14,0							BSSP-15	BSSP-05	BSSP-25	
PG 21	9,0 - 16,0	11,0	28,3	33	33	38,0	117,9	BSRP-16	BSRP-06	BSRP-26	25
	13,0 - 18,0							BSSP-16	BSSP-06	BSSP-26	

Thread Type **G** acc. to DIN ISO 228

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
G 3/8"	3,0 - 7,0	11	16,662	22	22	25,3	80,0	BFSR-11	BFSR-01	BFSR-21	50
	5,0 - 10,0							BFSP-11	BFSP-01	BFSP-21	
G 1/2"	5,0 - 9,0	10	20,955	24	24	27,6	94,0	BFSR-12	BFSR-02	BFSR-22	50
	6,0 - 12,0							BFSP-12	BFSP-02	BFSP-22	
	7,0 - 12,0	11		27	27	31,0	105,6	BFSR-13	BFSR-03	BFSR-23	
	10,0 - 14,0							BFSP-13	BFSP-03	BFSP-23	
G 3/4"	9,0 - 16,0	12	26,441	33	33	38,0	117,5	BFSR-14	BFSR-04	BFSR-24	25
	13,0 - 18,0							BFSP-14	BFSP-04	BFSP-24	

Elbow Glands Polyamide

Elbow glands with lamellar clamping

- For cables guided along housing side.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications..

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 7	3,0 - 6,0	8,0	12,5	19	19	26,5	EGR-11	EGR-01	EGR-21	100
	4,0 - 8,0						EG-11	EG-01	EG-21	
PG 9	3,0 - 6,0	7,0	15,2	19	19	28,7	EGR-12	EGR-02	EGR-22	100
	4,0 - 8,0						EG-12	EG-02	EG-22	

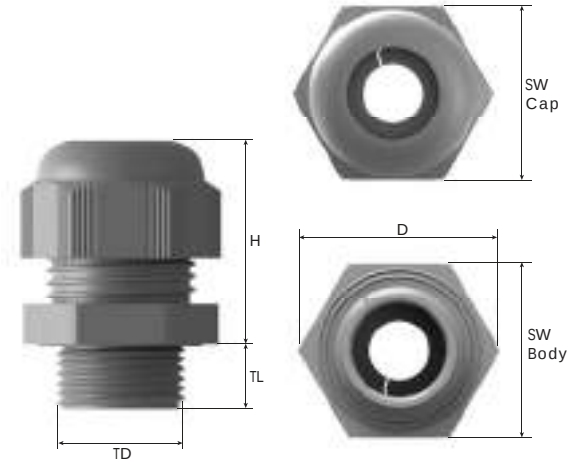
RJ 45 Glands Polyamide

Cable glands for RJ 45 cables

- For standard industrial applications using data cables with pre-assembled RJ 45 connectors.
- Easy assembly: feed connector through cable gland - assemble splitted seal around cable - insert seal into gland body - install cable gland - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +80 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M20x1,5	6,0	10	20,0	27	24	27,0	29,7	**BMRJ-13**	**BMRJ-03**	**BMRJ-23**	50
		15		27	27	31	31,5	**BMRJ-15**	**BMRJ-05**	**BMRJ-25**	
M25x1,5	6,0	8	25,0	29	29	32,5	30,5	**BMRJ-EN-13**	**BMRJ-EN-03**	**BMRJ-EN-23**	25
		15						**BMRJ-EN-13L**	**BMRJ-EN-03L**	**BMRJ-EN-23L**	
		10		33	33	38,0	38,0	**BM-15RJ**	**BM-05RJ**	**BM-25RJ**	
		15						**BM-16RJ**	**BM-06RJ**	**BM-26RJ**	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 16	6	10	22,5	27	27	31,0	31,0	**BSRJ-15**	**BSRJ-05**	**BSRJ-25**	50
PG 21	6	11	28,3	33	33	33,0	35,0	**BSRJ-16**	**BSRJ-06**	**BSRJ-26**	25.

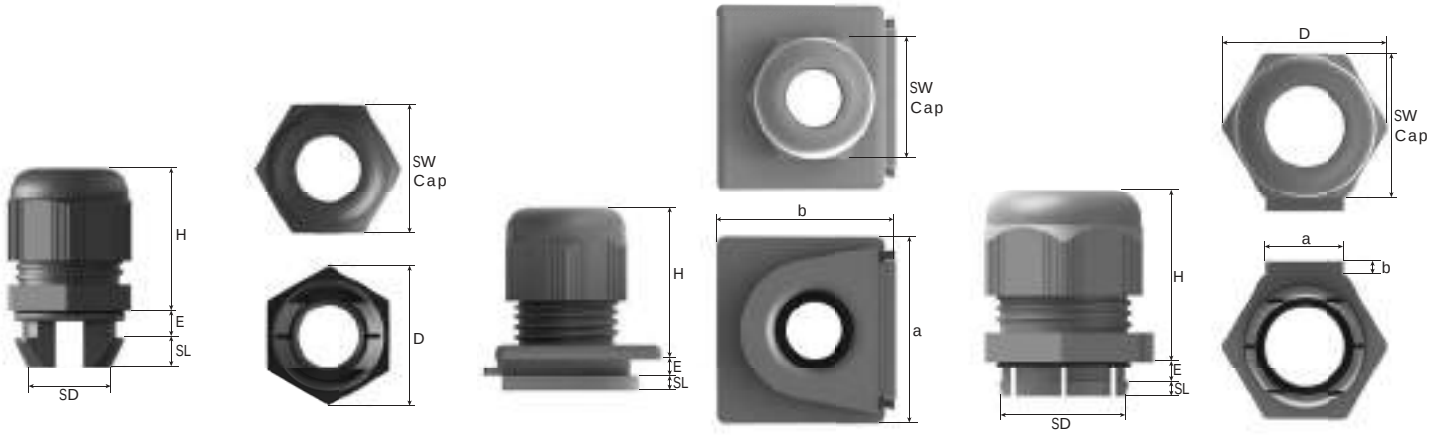
Quick Fitting Glands
Polyamide

Cable glands without thread, special designs

- Specially designed cable glands.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 68	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured	
Accessories		• Dome plugs • Reducing seals • Flat cable seals • Multihole seals	
Remarks		• Using O-rings, the available wall thickness is reduced (design type A and C) • Design type B: ask for special cut-out data.	



A B C

w/o thread

Size	Clamping Range Ø min-max mm	Snap Length SL mm	Wall Thickness E mm	Snap Diameter SD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Diameter D mm	max. Height H mm	Body Length a mm	Body Length b mm	Design Type	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
9	2,0 - 6,0	8,0	3,7	12,25	19	19	21,7	25,0	-	-	A	**QFR-12**	**QFR-02**	**QFR-22**	100
	4,0 - 8,0											**QF-12**	**QF-02**	**QF-22**	
16	7,0 - 12,0	5,7	3,2	-	27	-	30,9	30,1	28,2	30,4	B	**QFVR-15**	**QFVR-05**	**QFVR-25**	50
	10,0 - 14,0											**QFV-15**	**QFV-05**	**QFV-25**	
21	9,0 - 16,0	7,5	4,3	26	33	33	37,2	38,0	18,0	2,8	C	**QFR-16**	**QFR-06**	**QFR-26**	25
	13,0 - 18,0											**QF-16**	**QF-06**	**QF-26**	

NDL Glands
Polyamide

Polyamide cable glands for limited space applications

- For standard industrial applications.
- Plastic cable glands for limited space applications.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 55	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured	
Accessories		• Dome plugs • Gaskets	

wall thickness (**E**) : 2,35 mm

Size	Clamping Range	Snap Length	Wall Thickness	Snap Diameter	Spanner Width		Outer Diameter	max. Height	Part Number	Packing Unit
	Ø min-max	SL	E	SD	SW Cap	SW Body	D	H	RAL 9005 black	
	mm	mm	mm	mm	mm	mm	mm	mm		
9	4,0 - 8,0	8,0	2,35	11,2	19	-	22,0	29,7	**BSND-22(QF)**	100
11	5,0 - 10,0	8,0	2,35	18,6	22	-	25,0	22,0	**BSND-23(QF)**	50

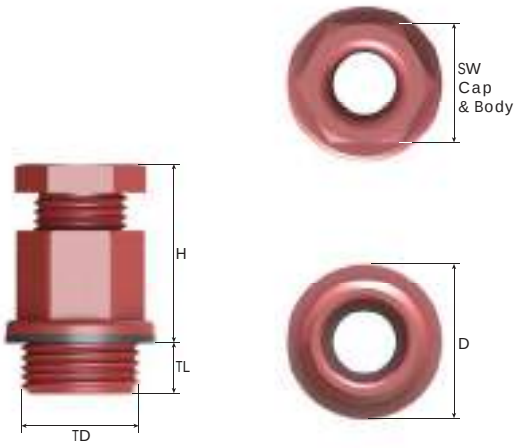
Conus Glands
Metric Version, Polyamide

Polyamide cable glands, DIN-type

- For standard industrial applications.
- "DIN"-type design and clamping.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
	Gasket	PA 6 (Polyamide 6)	
Protection Class		IP 68	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423	
Cable Type		Non armoured	
Accessories		• Lock nuts • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 9005 black	Part Number RAL 9003 white	Part Number RAL 3020 red	Packing Unit
M20x1,5	7,0 - 10,0	10,0	20,0	19	19	24,7	27,0	**BDM-22**	**BDM-42**	**BDM-52**	100
	10,0 - 13,0			23	23	27,1	30,0	**BDM-23**	**BDM-43**	**BDM-53**	

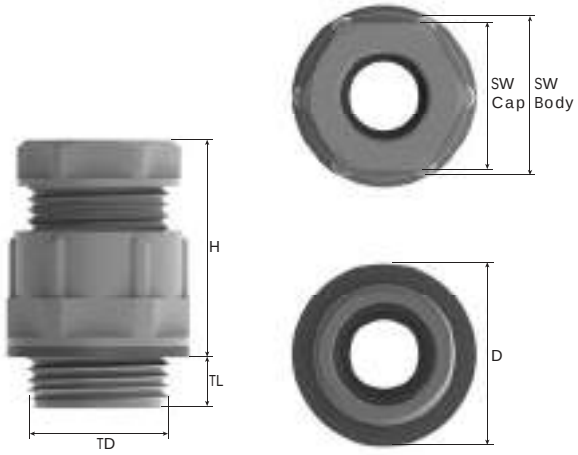
Conus Glands
PG Version, Polyamide

Polyamide cable glands, DIN-type

- For standard industrial applications.
- "DIN"-type design and clamping.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)
	Cap	PA 6 (Polyamide 6)
	Seal	TPE
	Gasket	PP
Protection Class		IP 54
Flammability		V2 according to UL94
Operating Temperature		**Permanent**
		-20 °C to +80 °C
Thread Type		• PG DIN 40430
Cable Type		Non armoured
Accessories		• Lock nuts • Gaskets
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.



Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Packing Unit
PG 7	3,0 - 6,0	8,0	12,5	13	15	16,1	22,0	**BD-11**	100
PG 9	4,5 - 7,0	8,0	15,2	16	19	20,5	23,0	**BD-12**	100
PG 11	6,0 - 9,0	8,0	18,6	19	22	24,0	25,0	**BD-13**	100
PG 13,5	9,0 - 12,0	9,0	20,4	21	24	26,2	26,0	**BD-14**	100
PG 16	11,0 - 14,0	10,0	22,5	23	27	29,4	28,0	**BD-15**	100
PG 21	14,0 - 18,0	11,0	28,3	30	33	36,3	32,0	**BD-16**	50
PG 29	18,0 - 25,0	11,0	37,0	40	42	45,5	36,0	**BD-17**	25
PG 36	25,0 - 32,0	13,0	47,0	49	53	57,8	47,0	**BD-18**	10

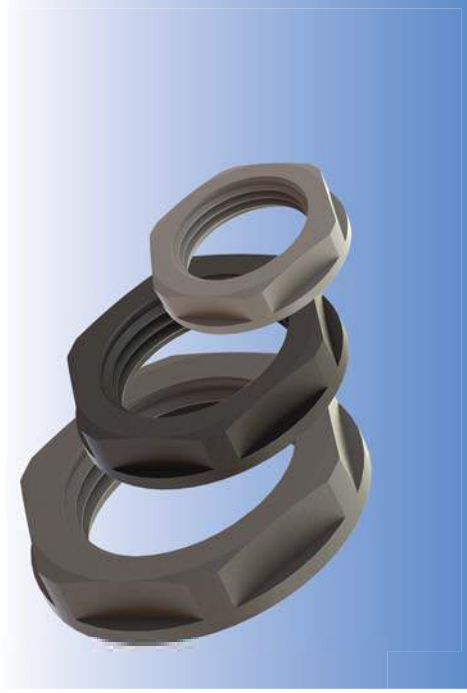
Lock Nuts, Flanged Polyamide

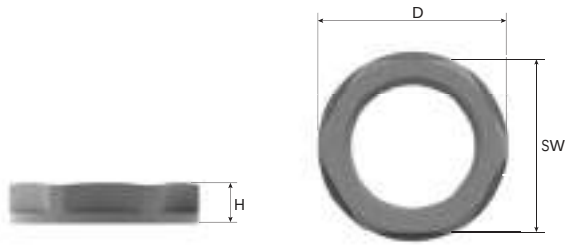
Lock nuts, flanged

- For standard industrial applications.
- Safe fastening of cable glands.
- Flanged design offers safe sealing.

Technical Details

Material	PA 6 GF 30 (Polyamide 6, 30% Glass Fiber Reinforced)	
Flammability	HB according to UL94	
Operating Temperature	**Permanent**	**Intermittent**
	-20 °C to +100 °C	-30 °C to +150 °C
Thread Type	• Metric EN 60423 • NPT ANSI B1.20.1 • PG DIN 40430 • Gas ISO 228	





Thread Type **METRIC** acc. to EN 60423

Size	Spanner Width SW mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	18	19,5	5,0	**BML-1S**	**BML-0S**	**BML-2S**	100
M16x1,5	22	24,2	5,0	**BML-11**	**BML-01**	**BML-21**	50
M20x1,5	26	28,6	6,0	**BML-12**	**BML-02**	**BML-22**	50
M25x1,5	32	35,0	6,0	**BML-13**	**BML-03**	**BML-23**	50
M32x1,5	41	46,1	7,0	**BML-14**	**BML-04**	**BML-24**	25
M40x1,5	50	55,3	7,0	**BML-15**	**BML-05**	**BML-25**	10
M50x1,5	60	66,1	8,0	**BML-16**	**BML-06**	**BML-26**	10
M63x1,5	75	82,5	8,0	**BML-17**	**BML-07**	**BML-27**	10
M75x2,0	85	94,0	15,0	**BML-18**	**BML-08**	**BML-28**	5

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Spanner Width SW mm	Spanner Width SW inch	Outer Diameter D mm	Outer Diameter D inch	max. Height H mm	max. Height H inch	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
NPT 3/8"	22	0.866	25,0	0.984	7,0	0.276	**BPL-11**	**BPL-01**	**BPL-21**	50
NPT 1/2"	27	1.063	30,5	1.201	7,0	0.276	**BPL-12**	**BPL-02**	**BPL-22**	50
NPT 3/4"	33	1.299	37,5	1.476	7,0	0.276	**BPL-13**	**BPL-03**	**BPL-23**	25
NPT 1"	41	1.614	46,5	1.831	7,0	0.276	**BPL-14**	**BPL-04**	**BPL-24**	20

Thread Type **PG** acc. to DIN 40430

Size	Spanner Width SW mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 7	19	21,0	5,0	**BL-11**	**BL-01**	**BL-21**	50
PG 9	22	24,0	5,0	**BL-12**	**BL-02**	**BL-22**	50
PG 11	24	26,0	5,0	**BL-13**	**BL-03**	**BL-23**	50
PG 13,5	27	29,0	6,0	**BL-14**	**BL-04**	**BL-24**	50
PG 16	30	33,0	6,0	**BL-15**	**BL-05**	**BL-25**	50
PG 21	36	39,0	7,0	**BL-16**	**BL-06**	**BL-26**	25
PG 29	46	50,0	7,0	**BL-17**	**BL-07**	**BL-27**	20
PG 36	60	66,0	8,0	**BL-18**	**BL-08**	**BL-28**	10
PG 42	65	73,0	8,0	**BL-19**	**BL-09**	**BL-29**	10
PG 48	70	78,0	8,0	**BL-20**	**BL-10**	**BL-30**	10

Thread Type **G** acc. to DIN ISO 228

Size	Spanner Width SW mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
G 3/8"	22	25,0	5,0	**BFL-11**	**BFL-01**	**BFL-21**	50
G 1/2"	27	30,5	5,0	**BFL-12**	**BFL-02**	**BFL-22**	50
G 3/4"	33	37,5	5,0	**BFL-13**	**BFL-03**	**BFL-23**	25
G 1"	42	47,5	6,0	**BFL-14**	**BFL-04**	**BFL-24**	20

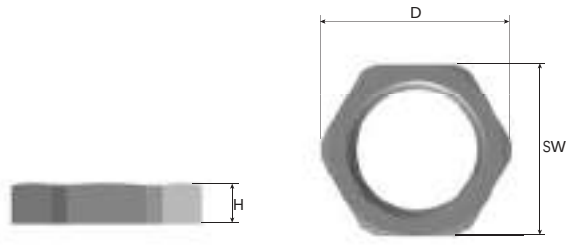
Lock Nuts, without Flange
Polyamide

Lock nuts, without flange

- For standard industrial applications.
- Safe fastening of cable glands.

Technical Details

Material	PA 6 GF 30 (Polyamide 6, 30% Glass Fiber Reinforced)	
Flammability	HB according to UL94	
Operating Temperature	**Permanent**	**Intermittent**
	-20 °C to +100 °C	-30 °C to +150 °C
Thread Type	• Metric EN 60423 • PG DIN 40430	



Thread Type **METRIC** acc. to EN 60423

Size	Spanner Width SW mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	18	19,5	5,0	**BLMN-1S**	**BLMN-0S**	**BLMN-2S**	100
M16x1,5	22	24,2	5,0	**BLMN-11**	**BLMN-01**	**BLMN-21**	50
M20x1,5	26	28,6	6,0	**BLMN-12**	**BLMN-02**	**BLMN-22**	50
M25x1,5	32	35,0	6,0	**BLMN-13**	**BLMN-03**	**BLMN-23**	50
M32x1,5	41	46,1	7,0	**BLMN-14**	**BLMN-04**	**BLMN-24**	25
M40x1,5	50	55,3	7,0	**BLMN-15**	**BLMN-05**	**BLMN-25**	10
M50x1,5	60	66,1	8,0	**BLMN-16**	**BLMN-06**	**BLMN-26**	10
M63x1,5	75	82,5	8,0	**BLMN-17**	**BLMN-07**	**BLMN-27**	10

Thread Type **PG** acc. to DIN 40430

Size	Spanner Width SW mm	Outer Diameter D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 7	19	21,0	5,0	**BLN-11**	**BLN-01**	**BLN-21**	100
PG 9	22	24,0	5,0	**BLN-12**	**BLN-02**	**BLN-22**	100
PG 11	24	26,0	5,0	**BLN-13**	**BLN-03**	**BLN-23**	50
PG 13,5	27	29,0	6,0	**BLN-14**	**BLN-04**	**BLN-24**	50
PG 16	30	33,0	6,0	**BLN-15**	**BLN-05**	**BLN-25**	50
PG 21	36	39,0	7,0	**BLN-16**	**BLN-06**	**BLN-26**	25
PG 29	46	50,0	7,0	**BLN-17**	**BLN-07**	**BLN-27**	25
PG 36	60	66,0	8,0	**BLN-18**	**BLN-08**	**BLN-28**	25
PG 42	65	72,0	8,0	**BLN-19**	**BLN-09**	**BLN-29**	10
PG 48	70	78,0	8,0	**BLN-20**	**BLN-10**	**BLN-30**	10

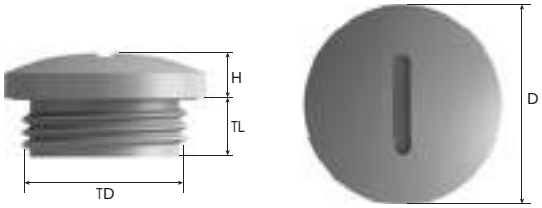
Plugs, Round Polyamide

Plugs, round

- For standard industrial applications.
- Sealing of housing hole when no cable gland is used.
- Slotted version to fasten with screw driver.
- Crossed version for Phillips screw driver.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	O-ring	CR (Chloroprene Rubber)	
	Gasket	CR (Chloroprene Rubber)	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430	
Accessories		• Lock nuts	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



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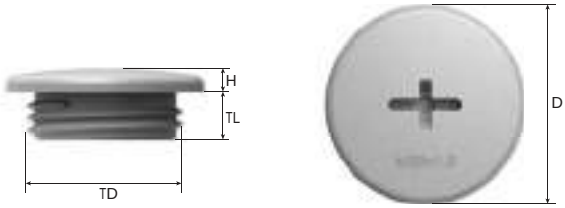


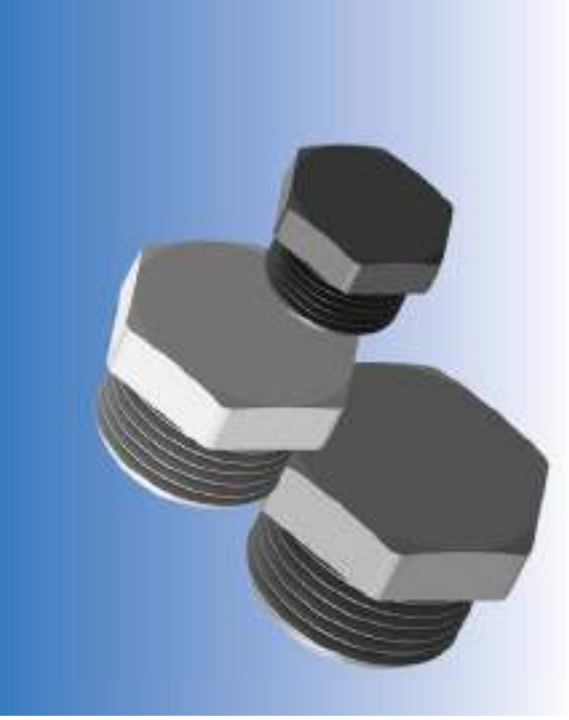
B

Thread Type **METRIC** acc. to EN 60423

Size	Thread Length TL mm	Thread Ø TD mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Plug Type	Sealing Type	Packing Unit
M12x1,5	6,0	12,0	15,0	3,0	**BMBS-1S(Y+)**	**BMBS-0S(Y+)**	**BMBS-2S(Y+)**	B	O-ring	100
				4,5	**BMBS-1S(Y)**	**BMBS-0S(Y)**	**BMBS-2S(Y)**	A		
M16x1,5	6,0	16,0	19,5	3,0	**BMBS-11(Y+)**	**BMBS-01(Y+)**	**BMBS-21(Y+)**	B	O-ring	50
	7,0		20,0	4,5	**BMBS-11(Y)**	**BMBS-01(Y)**	**BMBS-21(Y)**	A		
	10,0		19,5	3,0	**BMBS-11(Y+)TL10**	**BMBS-01(Y+)TL10**	**BMBS-21(Y+)TL10**	B		
M20x1,5	6,0	20,0	25,0	3,0	**BMBS-12(Y+)**	**BMBS-02(Y+)**	**BMBS-22(Y+)**	B	O-ring	50
	7,0		24,0	5,5	**BMBS-12(Y)**	**BMBS-02(Y)**	**BMBS-22(Y)**	A		
	10,0		25,0	3,0	**BMBS-12(Y+)TL10**	**BMBS-02(Y+)TL10**	**BMBS-22(Y+)TL10**	B		
M25x1,5	6,0	25,0	30,0	4,0	**BMBS-13(Y+)**	**BMBS-03(Y+)**	**BMBS-23(Y+)**	B	O-ring	50
	10,0			5,0	**BMBS-13(Y)**	**BMBS-03(Y)**	**BMBS-23(Y)**	A		
M32x1,5	8,0	32,0	37,0	4,0	**BMBS-14(Y+)**	**BMBS-04(Y+)**	**BMBS-24(Y+)**	B	O-ring	25
				6,0	**BMBS-14(Y)**	**BMBS-04(Y)**	**BMBS-24(Y)**	A		
M40x1,5	6,0	40,0	46,5	6,5	**BMBS-15(Y)**	**BMBS-05(Y)**	**BMBS-25(Y)**	A	O-ring	10
	8,0		46,0	4,3	**BMBS-15(Y+)**	**BMBS-05(Y+)**	**BMBS-25(Y+)**	B	Gasket	
M50x1,5	10,0	50,0	56,0	4,0	**BMBS-16(Y)**	**BMBS-06(Y)**	**BMBS-26(Y)**	A	O-ring	10
			55,5		**BMBS-16(Y+)**	**BMBS-06(Y+)**	**BMBS-26(Y+)**	B	Gasket	

Thread Type **PG** acc. to DIN 40430

Size	Thread Length TL mm	Thread Ø TD mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Plug Type	Sealing Type	Packing Unit
PG 7	6,0	12,5	15,0	2,0	**BBS-11(Y)**	**BBS-01(Y)**	**BBS-21(Y)**	A	O-ring	100
				3,0	**BBS-11(Y+)**	**BBS-01(Y+)**	**BBS-21(Y+)**	B		
PG 9	6,0	15,2	19,0	2,5	**BBS-12(Y)**	**BBS-02(Y)**	**BBS-22(Y)**	A	O-ring	100
			15,0	3,0	**BBS-12(Y+)**	**BBS-02(Y+)**	**BBS-22(Y+)**	B		
PG 11	6,0	18,6	22,0	2,5	**BBS-13(Y)**	**BBS-03(Y)**	**BBS-23(Y)**	A	O-ring	50
				3,0	**BBS-13(Y+)**	**BBS-03(Y+)**	**BBS-23(Y+)**	B		
PG 13,5	6,0	20,4	25,0	2,5	**BBS-14(Y)**	**BBS-04(Y)**	**BBS-24(Y)**	A	O-ring	50
				3,0	**BBS-14(Y+)**	**BBS-04(Y+)**	**BBS-24(Y+)**	B		
PG 16	6,0	22,5	27,0	3,0	**BBS-15(Y)**	**BBS-05(Y)**	**BBS-25(Y)**	A	O-ring	50
				3,7	**BBS-15(Y+)**	**BBS-05(Y+)**	**BBS-25(Y+)**	B		
PG 21	8,0	28,3	33,0	4,0	**BBS-16(Y)**	**BBS-06(Y)**	**BBS-26(Y)**	A	O-ring	25
				3,7	**BBS-16(Y+)**	**BBS-06(Y+)**	**BBS-26(Y+)**	B		
PG 29	8,0	37,0	44,0	3,5	**BBS-17(Y)**	**BBS-07(Y)**	**BBS-27(Y)**	A	O-ring	25
				5,0	**BBS-17(Y+)**	**BBS-07(Y+)**	**BBS-27(Y+)**	B	Gasket	
PG 36	10,0	47,0	55,0	4,0	**BBS-18(Y)**	**BBS-08(Y)**	**BBS-28(Y)**	A	O-ring	25
				5,0	**BBS-18(Y+)**	**BBS-08(Y+)**	**BBS-28(Y+)**	B	Gasket	



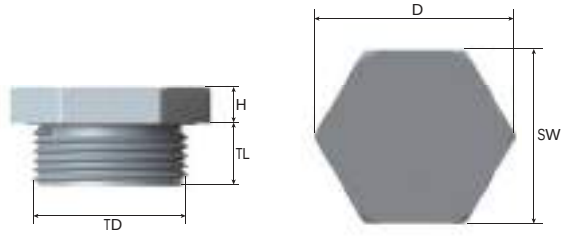
Plugs, Hexagonal Polyamide

Plugs, hexagonal

- For standard industrial applications.
- Sealing of housing hole when no cable gland is used.
- Hexagonal version to fasten with spanner.

Technical Details

Material	PA 6 (Polyamide 6)	
Flammability	V2 according to UL94	
Operating Temperature	**Permanent**	**Intermittent**
	-20 °C to +100 °C	-30 °C to +150 °C
Thread Type	• Metric EN 60423	
Accessories	• Lock nuts • Gaskets	
Remarks	• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



Thread Type **METRIC** acc. to EN 60423

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	10	12,0	15	17,0	5,0	**BMBS-1S(A)**	**BMBS-0S(A)**	**BMBS-2S(A)**	100
M16x1,5	12	16,0	19	22,0	4,3	**BMBS-11(A)TL12**	**BMBS-01(A)TL12**	**BMBS-21(A)TL12**	50
	15					**BMBS-11(A)TL15**	**BMBS-01(A)TL15**	**BMBS-21(A)TL15**	
M20x1,5	11	20,0	23	26,0	6,0	**BMBS-12(A)TL11**	**BMBS-02(A)TL11**	**BMBS-22(A)TL11**	50
	15					**BMBS-12(A)TL15**	**BMBS-02(A)TL15**	**BMBS-22(A)TL15**	
M25x1,5	10	25,0	28	32,0	5,8	**BMBS-13(A)TL10**	**BMBS-03(A)TL10**	**BMBS-23(A)TL10**	25
	15					**BMBS-13(A)TL15**	**BMBS-03(A)TL15**	**BMBS-23(A)TL15**	
M32x1,5	15	32,0	36	41,5	7,8	**BMBS-14(A)**	**BMBS-04(A)**	**BMBS-24(A)**	25
M40x1,5	18	40,0	46	53,0	8,5	**BMBS-15(A)**	**BMBS-05(A)**	**BMBS-25(A)**	10
M50x1,5	18	50,0	55	63,5	9,5	**BMBS-16(A)**	**BMBS-06(A)**	**BMBS-26(A)**	10
M63x1,5	18	63,0	69	80,0	9,5	**BMBS-17(A)**	**BMBS-07(A)**	**BMBS-27(A)**	10

Modular Plugs
Polyamide

Polyamide plugs, front-side assembly, without thread

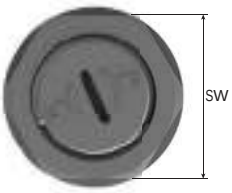
- For standard industrial applications.
- Snap-in assembly for non-threaded holes.
- Lock nuts have threads acc. to EN 60423 (metric) and acc. to DIN 40430 (PG).
- Replacing the modular plug: lock nut can be used for fixing the cable gland.

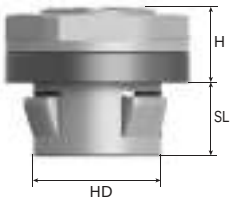
Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Gasket	CR (Chloroprene Rubber)	
	Lock Nut	PA 6 GF 30 (Polyamide 6, 30% Glass Fiber Reinforced)	
Flammability		V2 according to UL94	
Protection Class		IP 68 - 5 Bar, 30 min	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Remarks		**Other colours on request:** • RAL 5015 (blue) • RAL 9003 (white) • RAL 3020 (red)	

Approvals

	Certificate Number	Standards
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7





without thread - wall thickness : **0,5 - 2,0 mm**

Size	Snap Length SL mm	Snap Ø SD mm	Hole Ø HD mm	Spanner Width SW mm	Outer Ø D mm	max. Height H mm	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12	9,0	12,6	12,2 - 12,4	18	19,7	10,5	BMPL-1S	BMPL-0S	BMPL-2S	50
M20	9,0	20,6	20,2 - 20,4	26	28,8	12,0	BMPL-12	BMPL-02	BMPL-22	30
M32	9,0	32,6	32,2 - 32,4	41	46,3	14,0	BMPL-14	BMPL-04	BMPL-24	20
PG 16	9,0	22,8	22,7 – 22,9	30	33,2	12,0	BSPL-15	BSPL-05	BSPL-25	30

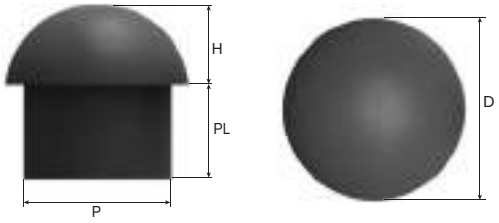
Dome Plugs Polyamide

Plugs for sealing cable insert

- For standard industrial applications.
- Sealing of cable glands when no cable is used.

Technical Details

Material	PA 6 (Polyamide 6)	
Flammability	V2 acc. to UL94	
Operating Temperature	**Permanent**	**Intermittend**
	-20 °C to +100 °C	-30 °C to +150 °C



Dome plugs

Size	Plug Ø P mm	Dome Ø D mm	Plug Length PL mm	max. Height H mm	Dome Plug fits into Clamping Range Ø min-max Standard Seal mm	Reducing Seal mm	Double Seal mm	Outer Seal mm	Part Number RAL 7035 light grey	RAL 7001 grey	RAL 9005 black	Packing Unit
9	4,0	9,2	12,0	4,0		2,0 - 5,0	2,0 - 4,0		**BDP-09-11**	**BDP-09-01**	**BDP-09-21**	100
	6,4				3,0 - 6,5			3,0 - 6,5	**BDP-09-12**	**BDP-09-02**	**BDP-09-22**	
11	5,0	10,5	14,0	5,0		2,0 - 6,0	3,0 - 5,0		**BDP-11-11**	**BDP-11-01**	**BDP-11-21**	50
	8,0		13,7	4,7	4,0 - 8,0			4,0 - 8,0	**BDP-11-12**	**BDP-11-02**	**BDP-11-22**	
13	7,0	13,3	15,0	5,7		3,0 - 7,0	3,0 - 7,0		**BDP-13-11**	**BDP-13-01**	**BDP-13-21**	50
	9,7		9,0	5,3	5,0 - 10,0			5,0 - 10,0	**BDP-13-12**	**BDP-13-02**	**BDP-13-22**	
			15,0	5,7					**BDP-13-12S**	**BDP-13-02S**	**BDP-13-22S**	
16	7,0	15,8	14,0	7,5			4,0 - 7,0		**BDP-16-10**	**BDP-16-00**	**BDP-16-20**	50
	8,5		13,0	7,7		5,0 - 9,0	5,0 - 8,5		**BDP-16-11**	**BDP-16-01**	**BDP-16-21**	
	12,0				6,0 - 12,0			6,0 - 12,0	**BDP-16-12**	**BDP-16-02**	**BDP-16-22**	
	13,0		14,0	7,5	7,0 - 13,0			7,0 - 13,0	**BDP-16-13**	**BDP-16-03**	**BDP-16-23**	
18	11,0	18,0	13,5	8,5		7,0 - 12,0	7,0 - 11,0		**BDP-18-11**	**BDP-18-01**	**BDP-18-21**	50
	13,6				10,0 - 14,0			10,0 - 14,0	**BDP-18-12**	**BDP-18-02**	**BDP-18-22**	
20	13,0	20,0	14,5	7,0		9,0 - 13,0	8,0 - 13,0		**BDP-20-11**	**BDP-20-01**	**BDP-20-21**	50
	16,4				11,0 - 17,0			11,0 - 17,0	**BDP-20-12**	**BDP-20-02**	**BDP-20-22**	
22	14,0	22,0	14,0	9,5		11,0 - 15,0	9,0 - 14,0		**BDP-22-11**	**BDP-22-01**	**BDP-22-21**	25
	17,8				13,0 - 18,0			13,0 - 18,0	**BDP-22-12**	**BDP-22-02**	**BDP-22-22**	
24	16,1	24,0	15,5	9,0		9,0 - 16,0	11,0 - 16,0		**BDP-24-11**	**BDP-24-01**	**BDP-24-21**	25
	20,4				15,0 - 21,0			15,0 - 21,0	**BDP-24-12**	**BDP-24-02**	**BDP-24-22**	
29	20,3	28,5	15,0	9,7		12,0 - 20,0	13,0 - 20,0		**BDP-29-11**	**BDP-29-01**	**BDP-29-21**	25
	25,0				18,0 - 25,0			18,0 - 25,0	**BDP-29-12**	**BDP-29-02**	**BDP-29-22**	
32	21,1	31,5	15,8	9,2		16,0 - 23,0	16,0 - 21,0		**BDP-32-11**	**BDP-32-01**	**BDP-32-21**	10
	27,5				19,0 - 28,0			19,0 - 28,0	**BDP-32-12**	**BDP-32-02**	**BDP-32-22**	
37	26,3	36,8	17,0	10,7		20,0 - 26,0	20,0 - 26,0		**BDP-37-11**	**BDP-37-01**	**BDP-37-21**	10
	31,8				22,0 - 32,0			22,0 - 32,0	**BDP-37-12**	**BDP-37-02**	**BDP-37-22**	
45	31,2	43,3	20,2	11,9		25,0 - 31,0	21,0 - 31,0		**BDP-45-11**	**BDP-45-01**	**BDP-45-21**	10
	38,0				30,0 - 38,0			30,0 - 38,0	**BDP-45-12**	**BDP-45-02**	**BDP-45-22**	
52	35,2	51,0	22,5	16,0		29,0 - 35,0	27,0 - 35,0		**BDP-52-11**	**BDP-52-01**	**BDP-52-21**	10
	44,2				34,0 - 44,0			34,0 - 44,0	**BDP-52-12**	**BDP-52-02**	**BDP-52-22**	

Further Accessories Polyamide

Replacement Seals

Reducing Seals	
	132
Double Seals	
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Flat Cable Seals	
	134
Multihole Seals	
	135-136

Gaskets

Gaskets	
	137

Polyamide
Cable Glands and Accessories
Applications

Brushless / DC Motors

Junction Boxes

Compressor

Voltage Cabinet

Pipe Lamp

Data Transmission

Plastic and Metal Enclosures

Electro Powered Cranes

Invertors

Plug Connectors

Spring Operated Brakes

Transducers

Machine Tolls

bimed

Metal
CABLE GLAND
for Industrial Application





Glands

Metal
ACCESSORIES
for Industrial Application

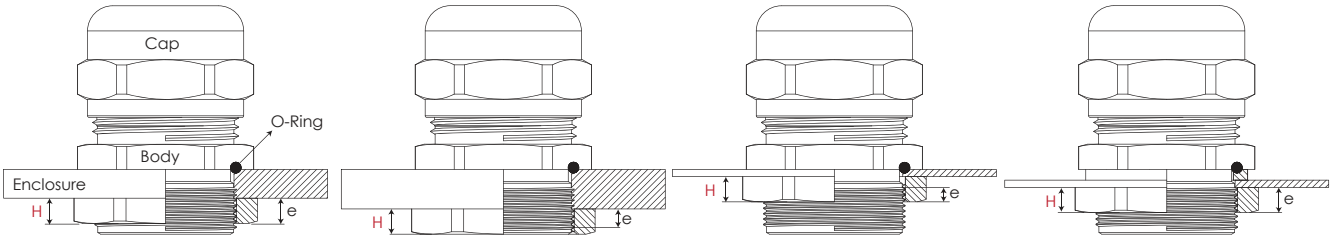




Accessories

Cable Gland Assembling Instruction

Assembling with lock nut on non threaded enclosure

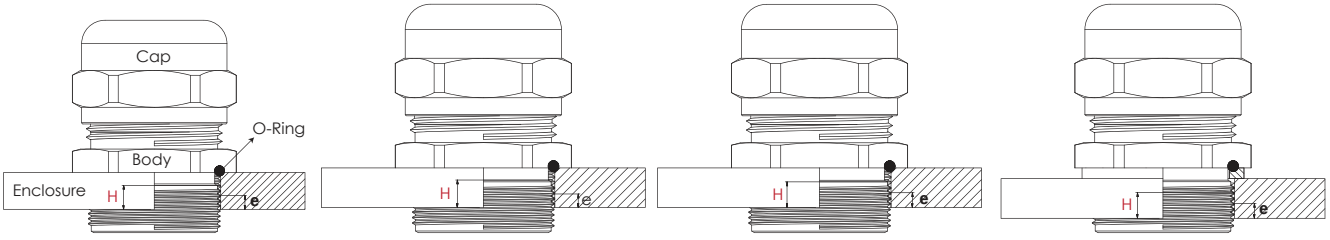


H = e / Right | H = e / Wrong | H = e / Wrong | H = e / Right

Relevent Lock Nut Thickness

Size		H (±0,5 mm)
M12	**Pg 7 to Pg 9**	2,8
M16	**Pg 11 to Pg 16**	3,0
M20	**Pg 21**	3,5
M25	**Pg 29**	4,0
M40 to M50	**Pg 36 to Pg 42**	5,0
-	**Pg 48**	5,5
M63	**-**	6,0

Assembling with lock nut on threaded enclosure

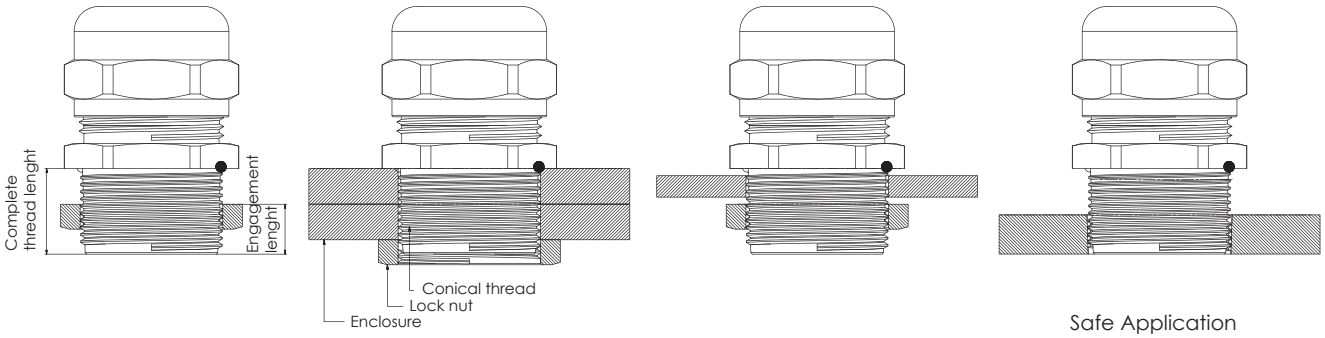


H = e / Right | H = e / Wrong | H = e / Wrong | H = e / Right

Complementary Instruction

- The engaged thread lenght "e" must be equal or longer than relevant lock nut thickness "H"
- The thread dimensions and tolerances on threaded enclosures must be convinient with the relevant thread standard.
- Firstly, the gland body must be mounted to the enclosure.
- The body or the lock nut must be tightened according to torque indicated on the instruction chart.
- As much as posibble double wrench have to be used for non threaded enclosures.
- For cable asssembling the cap must be tightened according to torque indicated on the instruction chart.
- During the cable assembling or disassembling gland body must be keep fixed. Double wrench have to be used for this purpose.

Npt threads application

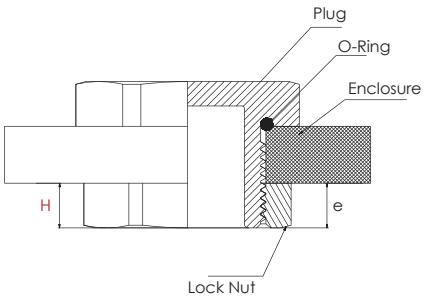


Tightened Lock Nut | Loose Lock Nut | Loose Cable Gland | Safe Application Bad Appearance

Thread standard	ANSI B1.20.1
Thread name	National Pipe Threads
Thread definition	NPT is an US Standard for "Tapered Threads" used in threaded pipes and fittings. The thread can provide an effective seal for liquids, gases, hydraulic, fluids and steam. They are used generaly for steel, brass, cast-iron, PTFE, PVC, PA materials.
Other Appellations	MPT : Male Pipe Threads FPT : Female Pipe Threads
Applications	The NPT threads are always used for male and female pipe / fitting joints. Regarding the conicity of the thread they are not suitable for lock-nut applications.
"Cable Glands" and "Electrical Fitting" applications	The NPT threaded cable glands or male threaded electrical fittings as reducers, blind stops etc must used a NPT female threaded enclosures or cabinets. The usage of lock nuts for NPT threads is not a recommended application. According the relevant standard, the male and female threads have a defined engagement length. When we use a lock nut (even if is NPT threaded), we know that this one will be blocked, after the defined length portion of the male thread.In result we can not be sure that this blocking distance will be suitable for the wall thickness of the enclosure or cabined. If we are using an equivalent paralel thread lock nut the result will be worst because the male and female thread, will not be in complete contact.

Plug
Assembling Instruction

Assembling with lock nut on non threaded enclosure



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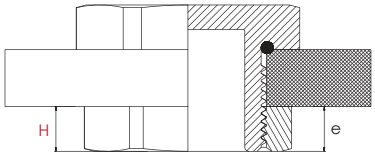

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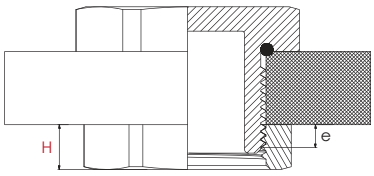
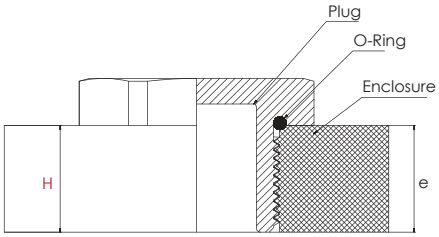


H > e / Wrong

Relevent Lock Nut Thickness

Size		H (±0,5 mm)
M12	**Pg 7 to Pg 9**	2,8
M16	**Pg 11 to Pg 16**	3,0
M20	**Pg 21**	3,5
M25	**Pg 29**	4,0
M40 to M50	**Pg 36 to Pg 42**	5,0
-	**Pg 48**	5,5
M63	**-**	6,0

Assembling with lock nut on threaded enclosure



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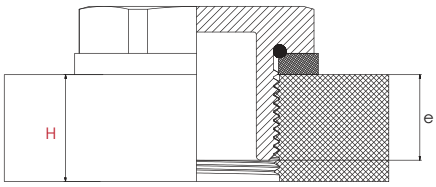
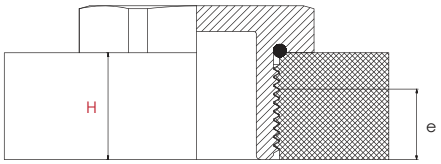


H > e / Wrong



H > e / Wrong

Complementary Instructions:

- The engaged thread lenght "e" must be equal or longer than relevant lock nut thickness "H"
- The thread dimensions and tolerances on threaded enclosures must be convinient with the relevant thread standard.
- Firstly, the blind stop must be mounted to the enclosure.
- The blind stop or the lock nut must be tightened according to torque indicated on the instruction chart.
- As much as posibble double tool have to be used for non threaded enclosures.(Screw driver+wrench)

Standard Glands with Thread, Brass

Brass cable glands with lamellar clamping

- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

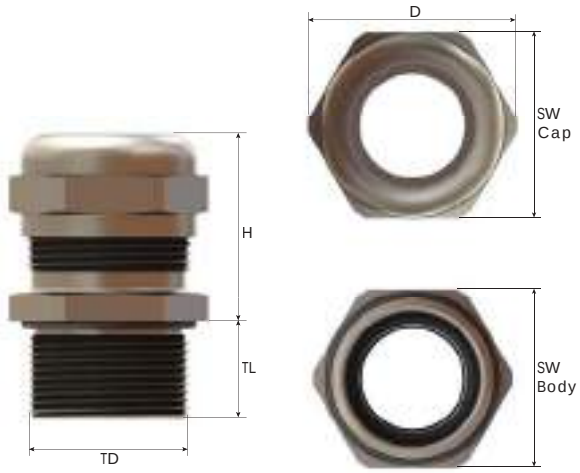
Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • NPT ANSI B1.20.1 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note:** Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040034	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes. For more approvals: see our webpage.

Standard Glands with Thread, Brass



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	2,0 - 5,0		6,0	12	14	14	15,5	22,0	BMBD-0S	50
			12,0						BMBE-0SR	
	3,0 - 6,5		6,0						BMBC-ES	
			12,0						BMBE-ES	
M16x1,5	2,0 - 6,0		7,0	16	17	18	20,0	23,0	BMBD-01	50
			12,0						BMBE-01R	
	3,0 - 7,0		7,0		20	20	22,0	28,5	BMBD-E1	
			12,0						BMBE-E1R	
	4,0 - 8,0		7,0		17	18	20,0	23,0	BMBC-01	
			12,0						BMBE-01	
	5,0 - 10,0		7,0		20	20	22,0	28,5	BMBC-E1	
			12,0						BMBE-E1	
M20x1,5	5,0 - 9,0		8,0	20	22	22	24,5	26,5	BMBD-E2	50
			12,0						BMBE-E2R	
	6,0 - 12,0		8,0						BMBC-E2	
			12,0						BMBE-E2	
	7,0 - 13,0		8,0		24	24	26,8	28,5	BMBC-E2S	
	10,0 - 14,0		8,0					28,0	BMBC-02S	
			12,0						BMBE-02S	
M25x1,5	7,0 - 12,0		8,0	25	24	27	30,0	28,0	BMBD-03	25
			12,0						BMBE-03R	
	9,0 - 16,0		8,0		30	30	33,0	32,0	BMBD-03S	
			12,0						BMBE-03SR	
	10,0 - 14,0		8,0		24	27	29,8	27,7	BMBC-03	
			12,0						BMBE-03	
	11,0 - 17,0		8,0		27	27	30,0	32,5	BMBC-E3	
			12,0						BMBE-E3	
	13,0 - 18,0		8,0		30	30	33,0	32,0	BMBC-03S	
			12,0						BMBE-03S	
M32x1,5	9,0 - 16,0		9,0	32	30	34	37,5	33,0	BMBD-04	25
			15,0						BMBE-04R	
	12,0 - 20,0		9,0		40	40	44,5	44,0	BMBD-04S	
			15,0						BMBE-04SR	
	13,0 - 18,0		9,0		30	34	37,5	33,0	BMBC-04	
			15,0						BMBE-04	
	15,0 - 21,0		8,0		34	34	37,0	36,0	BMBC-E4	10
			15,0						BMBE-E4	
	18,0 - 25,0		9,0		40	40	44,5	44,0	BMBC-04S	
			15,0						BMBE-04S	
M40x1,5	12,0 - 20,0		9,0	40	40	43	48,4	38,0	BMBD-05	10
			15,0						BMBE-05R	
	18,0 - 25,0		9,0						BMBC-05	
			15,0						BMBE-05	
	16,0 - 23,0		9,0		43			43,5	BMBD-E5	
			15,0						BMBE-E5R	
	19,0 - 28,0		9,0						BMBC-E5	
			15,0						BMBE-E5	
	22,0 - 32,0		9,0		50	50	55,5	52,4	BMBC-05S	5
			15,0						BMBE-05S	
M50x1,5	20,0 - 26,0		9,0	50	50	55	61,0	48,0	BMBD-06	5
			15,0						BMBE-06R	
	22,0 - 32,0		9,0						BMBC-06	
			15,0						BMBE-06	
	27,0 - 38,0		9,0		58	58	64,0	52,0	BMBC-E6	
			15,0						BMBE-E6	
	34,0 - 44,0	27,0 - 35,0	9,0		64	68	75,0	52,8	BMBC-06S	
			15,0						BMBE-06S	
M63x1,5	29,0 - 35,0		10,0	63	64	68	75,0	53,0	BMBD-E7	5
			14,0						BMBD-07	
			18,0						BMBE-07R	
	34,0 - 44,0		10,0						BMBC-E7	
			14,0						BMBC-07	
			18,0						BMBE-07	
	37,0 - 53,0		10,0		75	75	83,0	50,0	BMBC-07S	
			18,0						BMBE-07S	

Standard Glands with Thread, Brass

Brass cable glands with lamellar clamping

- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

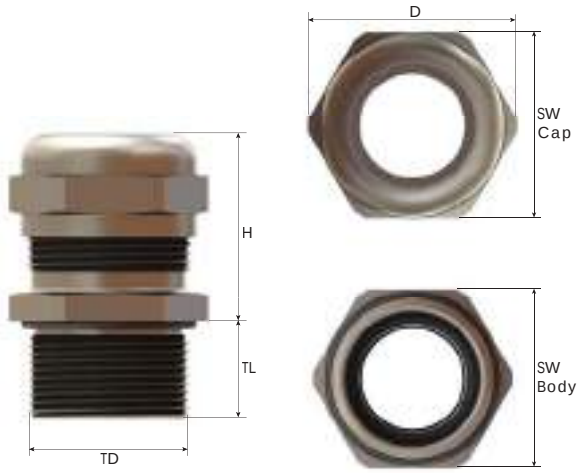
Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • NPT ANSI B1.20.1 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note:** Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040034	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes. For more approvals: see our webpage.

Standard Glands with Thread, Brass



Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Clamping Range Ø min-max inch	Thread Length TL mm	Thread Length TL inch	Thread Ø TD mm	Thread Ø TD inch	Spanner Width SW Cap mm	Spanner Width SW Cap inch	Spanner Width SW Body mm	Spanner Width SW Body inch	Outer Ø D mm	Outer Ø D inch	max. Height H mm	max. Height H inch	Part Number	Packing Unit
NPT 3/8"	2,0 - 6,0	0.079 - 0.236	11,5	0.453	17,14	0.673	17	0.669	19	0.748	21,0	0.827	23,0	0.906	**BNBD-01**	50
	3,0 - 7,0	0.118 - 0.276					20	0.787	20	0.787	22,0	0.866	29,5	1.161	**BNBD-01S**	
	4,0 - 8,0	0.157 - 0.315					17	0.669	19	0.748	21,0	0.827	23,0	0.906	**BNBC-01**	
	5,0 - 10,0	0.197 - 0.394					20	0.787	20	0.787	22,0	0.866	29,5	1.161	**BNBC-01S**	
NPT 1/2"	5,0 - 9,0	0.197 - 0.354	13,0	0.512	21,34	0.839	22	0.866	22	0.866	24,5	0,965	25,5	1.004	**BNBD-02**	50
	6,0 - 12,0	0.236 - 0.472													**BNBC-02**	
	7,0 - 12,0	0.276 - 0.472					24	0.945	24	0.945	26,8	1,055	28,0	1.102	**BNBD-02S**	25
	10,0 - 14,0	0.394 - 0.551													**BNBC-02S**	
NPT 3/4"	9,0 - 16,0	0.354 - 0.630	13,0	0.512	26,67	1.051	30	1.181	30	1.181	33,0	1.299	35,5	1.398	**BNBD-03**	25
	13,0 - 18,0	0.512 - 0.709													**BNBC-03**	
NPT 1"	12,0 - 20,0	0.472 - 0.787	13,0	0.512	33,4,0	1.315	40	1.575	43	1.693	48,5	1,909	43,0	1.693	**BNBD-04**	10
	18,0 - 25,0	0.709 - 0.984													**BNBC-04**	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	2,0 - 5,0	6,0 - 10,0	12,5	14	14	15,5	22,0	**BSBD-01**	50
								BSBE-01R	
	3,0 - 6,5	6,0 - 10,0						**BSBC-01**	
								BSBE-01	
PG 9	2,0 - 6,0	6,0 - 10,0	15,2	17	17	18,9	23,5	**BSBD-02**	50
								BSBE-02R	
	4,0 - 8,0	6,0 - 10,0						**BSBC-02**	
								BSBE-02	
PG 11	3,0 - 7,0	6,0 - 10,0	18,6	20	20	22,0	26,0	**BSBD-03**	50
								BSBE-03R	
	5,0 - 10,0	6,0 - 10,0						**BSBC-03**	
								BSBE-03	
PG 13,5	5,0 - 9,0	6,5 - 10,0	20,4	22	22	24,5	24,5	**BSBD-04**	50
								BSBE-04R	
	6,0 - 12,0	6,5 - 10,0						**BSBC-04**	
								BSBE-04	
PG 16	7,0 - 12,0	6,5 - 10,0	22,5	24	24	26,5	28,0	**BSBD-05**	25
								BSBE-05R	
	10,0 - 14,0	6,5 - 10,0						**BSBC-05**	
								BSBE-05	
PG 21	9,0 - 16,0	7,2 - 12,0	28,3	30	30	33,0	32,5	**BSBD-06**	25
								BSBE-06R	
	13,0 - 18,0	7,2 - 12,0						**BSBC-06**	
								BSBE-06	
PG 29	12,0 - 20,0	8,0 - 12,0	37,0	40	40	44,5	38,5	**BSBD-07**	10
								BSBE-07R	
	18,0 - 25,0	8,0 - 12,0						**BSBC-07**	
								BSBE-07	
PG 36	20,0 - 26,0	9,0 - 14,0	47,0	50	50	55,5	48,0	**BSBD-08**	5
								BSBE-08R	
	22,0 - 32,0	9,0 - 14,0						**BSBC-08**	
								BSBE-08	
PG 42	25,0 - 31,0	12,0 - 16,0	54,0	58	58	64,0	48,5	**BSBD-09**	5
								BSBE-09R	
	30,0 - 38,0	12,0 - 16,0						**BSBC-09**	
								BSBE-09	
PG 48	29,0 - 35,0	14,0 - 18,0	59,3	64	64	70,0	53,0	**BSBD-10**	5
								BSBE-10R	
	34,0 - 44,0	14,0 - 18,0						**BSBC-10**	
								BSBE-10	

Standard Glands with Thread, Stainless Steel

Stainless steel cable glands with lamellar clamping

- For high quality machines and housings.
- For high quality applications in corrosive environments.
- Applications: Outdoor, food industry, pharmazeutical industry and other sensitive applications.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

Material	**Body**	Stainless steel 1.4305 (AISI 303)	
	Cap	Stainless steel 1.4305 (AISI 303)	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040034	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes. For more approvals: see our webpage.

Standard Glands with Thread, Stainless Steel

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	2,0 - 5,0		6,0	12,0	14	14	15,5	22,0	BMSD-0S	50
			12,0						BMSE-0SR	
	3,0 - 6,5		6,0						BMSC-ES	
			12,0						BMSE-ES	
M16x1,5	2,0 - 6,0		7,0	16,0	17	19	20,8	23,0	BMSD-01	50
			12,0						BMSE-01R	
	3,0 - 7,0		7,0		20	20	22,0	28,5	BMSD-E1	
			12,0						BMSE-E1R	
	4,0 - 8,0		7,0		17	19	20,8	23,0	BMSC-01	
			12,0						BMSE-01	
	5,0 - 10,0		7,0		20	20	22,0	28,5	BMSC-E1	
			12,0						BMSE-E1	
M20x1,5	5,0 - 9,0		8,0	20,0	22	22	24,5	24,0	BMSD-E2	50
			12,0						BMSE-E2R	
	6,0 - 12,0		8,0						BMSC-E2	
			12,0						BMSE-E2	
	7,0 - 13,0		8,0		24	24	26,8	28,5	BMSC-E2S	
	10,0 - 14,0		8,0					28,0	BMSC-02S	
			12,0						BMSE-02S	
M25x1,5	7,0 - 12,0		8,0	25,0	24	27	29,7	27,5	BMSD-03	25
			12,0						BMSE-03R	
	9,0 - 16,0		8,0		30	30	33,0	32,0	BMSD-03S	
			12,0						BMSE-03SR	
	10,0 - 14,0		8,0		24	27	29,7	27,5	BMSC-03	
			12,0						BMSE-03	
	11,0 - 17,0		8,0		27	27	30,0	32,5	BMSC-E3	
			12,0						BMSE-E3	
	13,0 - 18,0		8,0		30	30	33,0	32,0	BMSC-03S	
			12,0						BMSE-03S	
M32x1,5	9,0 - 16,0		9,0	32,0	30	36	39,0	32,5	BMSD-04	25
			15,0						BMSE-04R	
	12,0 - 20,0		9,0		40	40	44,5	44,0	BMSD-04S	
			15,0						BMSE-04SR	
	13,0 - 18,0		9,0		30	36	39,0	32,5	BMSC-04	
			15,0						BMSE-04	
	15,0 - 21,0		8,0		34	34	37,0	36,0	BMSC-E4	10
			15,0						BMSE-E4	
	18,0 - 25,0		9,0		40	40	44,5	44,0	BMSC-04S	
			15,0						BMSE-04S	
M40x1,5	12,0 - 20,0		9,0	40,0	40	43	48,4	38,0	BMSD-05	10
			15,0						BMSE-05R	
	16,0 - 23,0		9,0		43			43,5	BMSD-E5	
			15,0						BMSE-E5R	
	19,0 - 28,0		9,0						BMSC-E5	
			15,0						BMSE-E5	
	18,0 - 25,0		9,0		41	46	51,4	40,6	BMSC-05	
			15,0						BMSE-05	
	22,0 - 32,0		9,0		50	50	55,5	52,4	BMSC-05S	5
			15,0						BMSE-05S	
M50x1,5	20,0 - 26,0		9,0	50,0	50	55	60,0	46,0	BMSD-06	5
			15,0						BMSE-06R	
	22,0 - 32,0		9,0						BMSC-06	
			15,0						BMSE-06	
	27,0 - 38,0		9,0		58	58	64,0	52,0	BMSC-E6	
			15,0						BMSE-E6	
	34,0 - 44,0	27,0 - 35,0	9,0		65	65	71,0		BMSC-06S	
			15,0						BMSE-06S	
M63x1,5	29,0 - 35,0		10,0	63,0	65	70	77,0	53,0	BMSD-E7	5
			14,0						BMSD-07	
			18,0						BMSE-07R	
	34,0 - 44,0		10,0						BMSC-E7	
			14,0						BMSC-07	
			18,0						BMSE-07	
	37,0 - 53,0		10,0		75	75	83,0	50,0	BMSC-07S	
			18,0						BMSE-07S	

Standard Glands with Thread, Stainless Steel

Stainless steel cable glands with lamellar clamping

- For high quality machines and housings.
- For high quality applications in corrosive environments.
- Applications: Outdoor, food industry, pharmazeutical industry and other sensitive applications.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

Material	**Body**	Stainless steel 1.4305 (AISI 303)	
	Cap	Stainless steel 1.4305 (AISI 303)	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040034	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes. For more approvals: see our webpage.

Standard Glands with Thread, Stainless Steel

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Clamping Range Ø min-max inch	Thread Length TL mm	Thread Length TL inch	Thread Ø TD mm	Thread Ø TD inch	Spanner Width SW Cap mm	Spanner Width SW Cap inch	Spanner Width SW Body mm	Spanner Width SW Body inch	Outer Ø D mm	Outer Ø D inch	max. Height H mm	max. Height H inch	Part Number	Packing Unit
NPT 3/8"	2,0 - 6,0	0.079 - 0.236	11,5	0.453	17,14	0.673	17	0.669	19	0.748	21,0	0.827	23,0	0.906	BNSD-01	50
	3,0 - 7,0	0.118 - 0.276					20	0.787	20	0.787	22,0	0.866	29,5	1.161	BNSD-01S	
	4,0 - 8,0	0.157 - 0.315					17	0.669	19	0.748	21,0	0.827	23,0	0.906	BNSC-01	
	5,0 - 10,0	0.197 - 0.394					20	0.787	20	0.787	22,0	0.866	29,5	1.161	BNSC-01S	
NPT 1/2"	5,0 - 9,0	0.197 - 0.354	13,0	0.512	21,34	0.839	22	0.866	27	1,062	30,5	1,200	29,1	1,145	BNSD-02	50
	6,0 - 12,0	0.236 - 0.472													BNSC-02	
	7,0 - 12,0	0.276 - 0.472					24	0.945	24	0.945	26,8	1,055	28,0	1.102	BNSD-02S	25
	10,0 - 14,0	0.394 - 0.551													BNSC-02S	
NPT 3/4"	9,0 - 16,0	0.354 - 0.630	13,0	0.512	26,67	1.051	30	1.181	30	1.181	33,0	1.299	35,5	1.398	BNSD-03	25
	13,0 - 18,0	0.512 - 0.709													BNSC-03	
NPT 1"	12,0 - 20,0	0.472 - 0.787	13,0	0.512	33,4,0	1.315	40	1.575	43	1.693	48,5	1,909	43,0	1.693	BNSD-04	10
	18,0 - 25,0	0.709 - 0.984													BNSC-04	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	2,0 - 5,0	6,0	12,5	14	14	15,5	22,0	BSSD-01	50
		10,0						BSSE-01R	
	3,0 - 6,5	6,0						BSSC-01	
		10,0						BSSE-01	
PG 9	2,0 - 6,0	6,0	15,2	17	19	21,0	23,0	BSSD-02	50
		10,0						BSSE-02R	
	4,0 - 8,0	6,0						BSSC-02	
		10,0						BSSE-02	
PG 11	3,0 - 7,0	6,0	18,6	22	22	24,0	25,5	BSSD-03	50
		10,0						BSSE-03R	
	5,0 - 10,0	6,0						BSSC-03	
		10,0						BSSE-03	
PG 13,5	5,0 - 9,0	6,5	20,4	22	22	24,5	24,0	BSSD-04	50
		10,0						BSSE-04R	
	6,0 - 12,0	6,5						BSSC-04	
		10,0						BSSE-04	
PG 16	7,0 - 12,0	6,5	22,5	24	24	26,5	27,5	BSSD-05	25
		10,0						BSSE-05R	
	10,0 - 14,0	6,5						BSSC-05	
		10,0						BSSE-05	
PG 21	9,0 - 16,0	7,2	28,3	30	30	33,0	32,5	BSSD-06	25
		12,0						BSSE-06R	
	13,0 - 18,0	7,2						BSSC-06	
		12,0						BSSE-06	
PG 29	12,0 - 20,0	8,0	37,0	41	41	45,5	38,5	BSSD-07	20
		12,0						BSSE-07R	
	18,0 - 25,0	8,0						BSSC-07	
		12,0						BSSE-07	
PG 36	20,0 - 26,0	9,0	47,0	50	50	55,5	46,0	BSSD-08	15
		14,0						BSSE-08R	
	22,0 - 32,0	9,0						BSSC-08	
		14,0						BSSE-08	
PG 42	25,0 - 31,0	12,0	54,0	60	60	66,5	48,0	BSSD-09	12
		16,0						BSSE-09R	
	30,0 - 38,0	12,0						BSSC-09	
		16,0						BSSE-09	
PG 48	29,0 - 35,0	14,0	59,3	65	65	72,0	49,5	BSSD-10	12
		18,0						BSSE-10R	
	34,0 - 44,0	14,0						BSSC-10	
		18,0						BSSE-10	

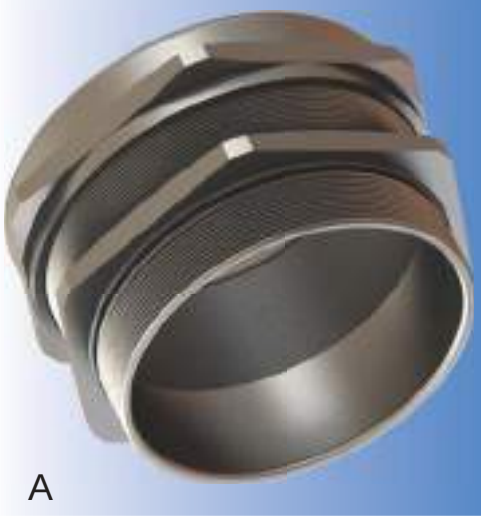
Compression Type Glands with Thread, Brass

Cable glands for cables with large diameters

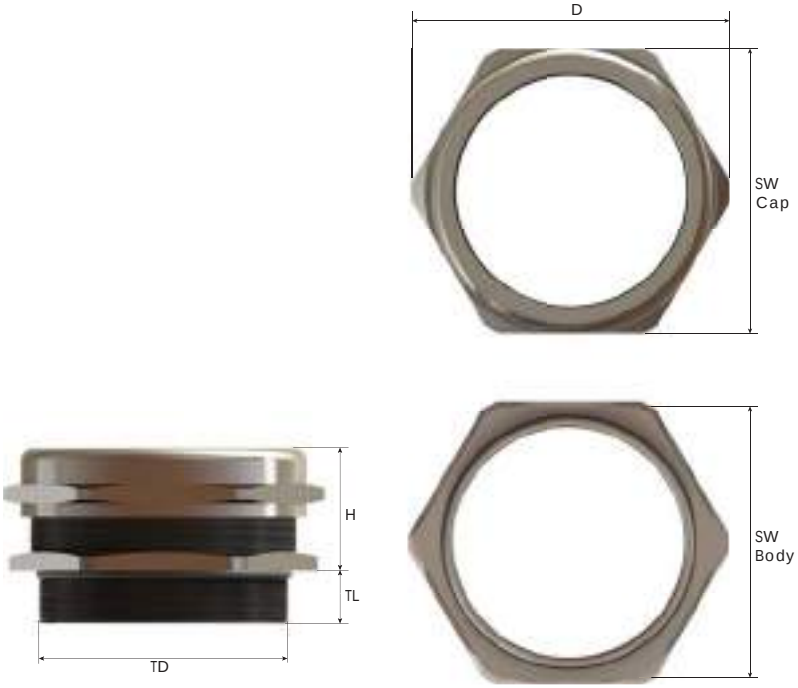
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- For use of cables with large diameters.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



A



Thread Type **METRIC** acc. to EN 60423 (Type **A**)

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M72x2,0	56,0 - 62,0	16,0	72,0	77	77	86,0	41,0	**BDSM-08**	4
M75x1,5	56,0 - 62,0	16,0	75,0	77	77	86,0	41,0	**BDSM-09S**	4
M75x2,0	56,0 - 62,0	16,0	75,0	77	77	86,0	41,0	**BDSM-09**	4
M80x2,0	50,0 - 56,0	18,0	80,0	90	90	100,0	50,0	**BDSM-10R**	2
	60,0 - 64,0						47,0	**BDSM-10**	
M85x2,0	63,0 - 70,0	22,0	85,0	95	95	106,2	53,0	**BDSM-11R**	2
	68,0 - 76,0						51,0	**BDSM-11**	
M90x2,0	68,0 - 77,0	22,0	90,0	95	100	112,0	51,0	**BDSM-12**	2

Compression Type Glands with Thread, Brass

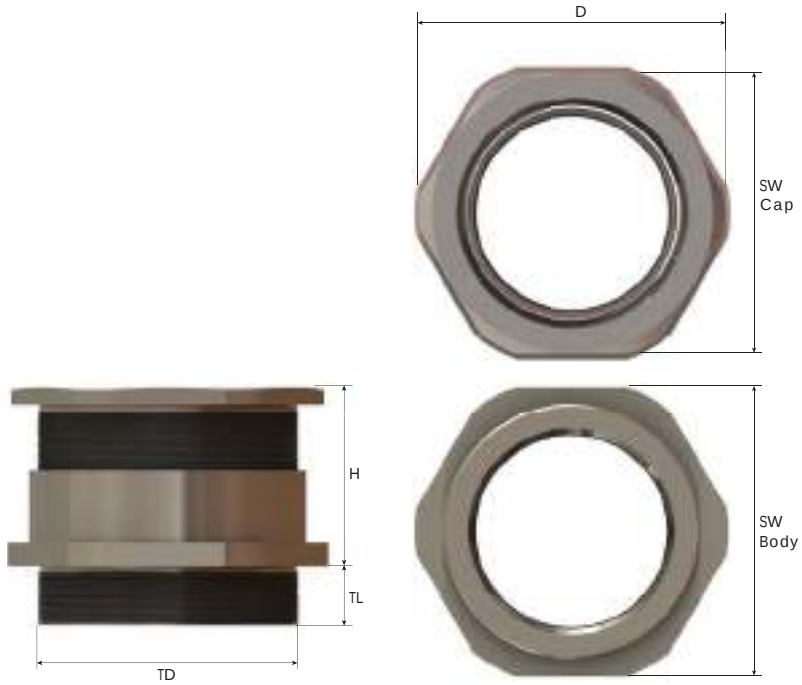
B

Cable glands for cables with large diameters

- For metal machines and housings.
- For standard industrial applications in harsh environments.
- For use of cables with large diameters.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



Thread Type **METRIC** acc. to EN 60423 (Type **B**)

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M110x2,0	60,0 - 82,0	25,0	110,0	120	125	134,0	74,5	**BDSM-13**	2

Snap-In Glands without Thread, Brass

Brass cable glands, front-side assembly, without thread

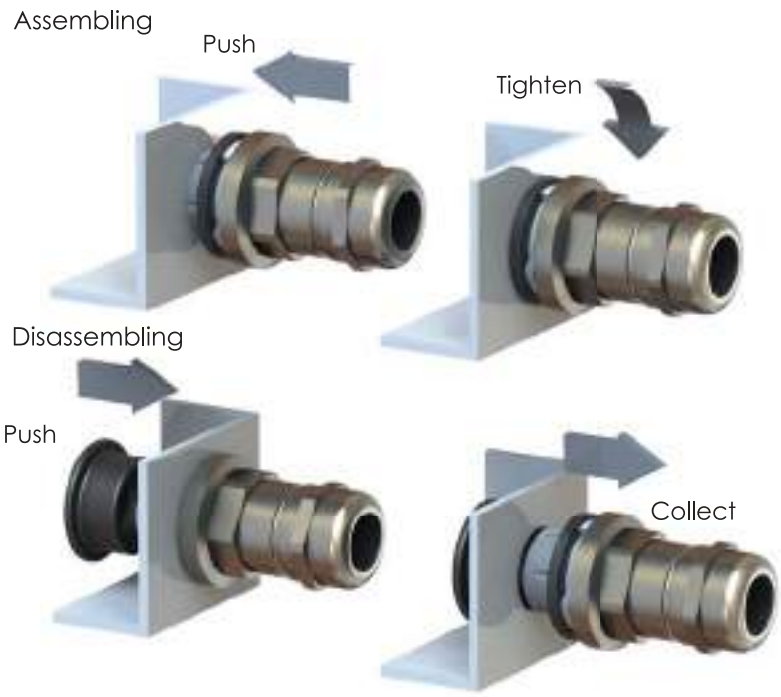
- Specially designed cable glands - easy to assemble to housings without threaded holes.
- Easy assembly: push cable gland and turn body clockwise - insert cable - tighten cap.
- Perfectly fit to wall thickness 0,5 mm to 4,0 mm.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Easy disassembly (with separate tool).

Technical Details

Material	**Body**	Brass, Nickel plated	
	Lower Body	PA 6 (Polyamide 6)	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Gasket	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured	
Accessories		• Dome plugs • Reducing seals • Flat cable seals • Multihole seals • Disassembly tool (one piece included per packing unit)	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262.	

Approvals

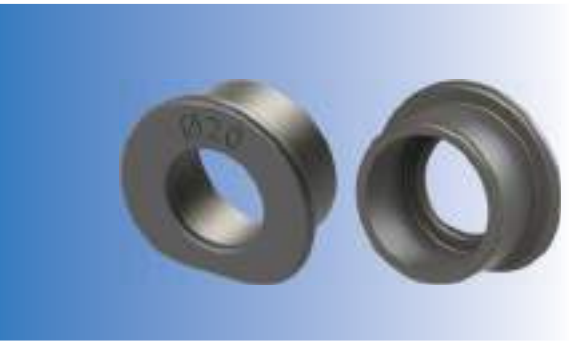
	Certificate Number	Standards
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7



Snap-In Glands without thread, Brass

wall thickness (E) : 0,5 - 4,0 mm

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Snap Length SL mm	Snap Ø SD mm	Hole Ø HD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
16	3,0 - 7,0	-	9,0	16,0	16,2 - 16,4	20	20	28,3	45,0	BBOS-11R	100
	5,0 - 10,0	-								BBOS-11	
		3,0 - 7,0								BBOS-DS-11	
20	5,0 - 9,0	-	9,0	20,0	20,2 - 20,4	22	22	32,3	44,0	BBOS-12R	50
	6,0 - 12,0	-								BBOS-12	
		5,0 - 9,0								BBOS-DS-12	
25	8,0 - 13,0	-	9,0	25,0	25,2 - 25,4	27	27	38,5	46,0	BBOS-EU-13R	25
	11,0 - 17,0	-								BBOS-EU-13	
		8,0 - 13,0								BBOS-EU-DS-13	
32	11,0 - 15,0	-	9,0	32,0	32,2 - 32,4	34	34	45,5	54,0	BBOS-EU-14R	20
	15,0 - 21,0	-								BBOS-EU-14	
		11,0 - 16,0								BBOS-EU-DS-14	
40	16,0 - 23,0	-	9,0	40,0	40,2 - 40,4	43	43	58,0	60,0	BBOS-EU-15R	10
	19,0 - 28,0	-								BBOS-EU-15	
		16,0 - 21,0								BBOS-EU-DS-15	



Snap-In Gland Disassembling Tool

Tool to disassemble Snap-In Glands

Technical Details

Material	Plastic

Size	ID mm	H mm	Part Number	Packing Unit
16	16,0	13,0	**BEX-16**	10
20	20,0	13,0	**BEX-20**	10
25	25,0	13,0	**BEX-25**	10
32	32,0	13,0	**BEX-32**	10
40	40,0	15,5	**BEX-40**	10

Cable Protection Glands
Brass

Cable protection glands with lamellar clamping, brass

- For metal machines and housings.
- For cable bending protection.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Bending Spiral	Stainless steel (AISI 301)	
	Bending Spiral Ring	Brass, Nickel plated	
	O-Ring	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Reducing seals • Flat cable seals • Multihole seals • Gaskets	
Remarks		• Different sealing types available. • Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	3,0 - 7,0	6,0	16,0	20	20	22,0	72,3	**BMBDSP-01**	o.r.
	5,0 - 10,0							**BMBCSP-01**	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 13,5	5,0 - 9,0	6,5	20,4	22	22	24,5	85,2	**BSBDSP-04**	o.r.
	6,0 - 12,0							**BSBCSP-04**	

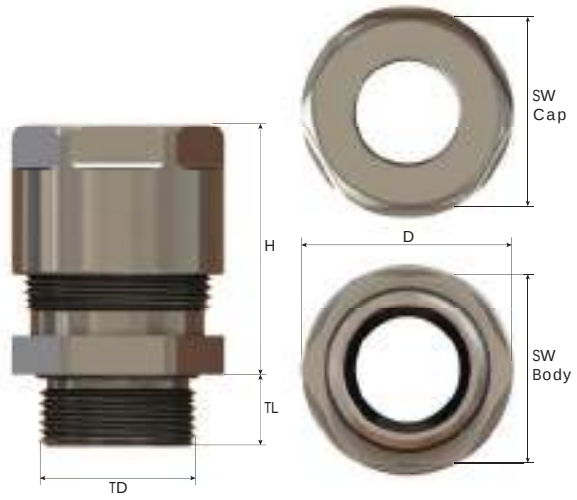
Neoglands
Brass

Cable glands for high quality sealing and strain relief

- For metal machines and housings.
- For demands of high quality sealing and strain relief.
- Single seal for full clamping range.
- For standard industrial applications in harsh environments.
- Easy assembly: install cable gland - insert cable - tighten cap.
- Reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated
	Cap	Brass, Nickel plated
	Seal	CR (Chloroprene Rubber)
	O-Ring	NBR
Protection Class		IP 68 - 5 Bar, 30 min
Flammability		V2 according to UL94
Operating Temperature		**Permanent**
		-20 °C to +100 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.
Cable Type		Non armoured
Accessories		• Lock nuts • Dome plugs • Gaskets
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number Brass, Nickel plated	Part Number Brass, Black Chromate	Packing Unit
M16x1,5	4,0 - 11,0	8,0	16,0	21	21	23,3	29,5	**BMNGB-01**	**BMNGC-01**	o.r.
M20x1,5	5,0 - 13,0	9,0	20,0	24	24	26,8	32,0	**BMNGB-02**	**BMNGC-02**	o.r.
M25x1,5	6,5 - 15,5	10,0	25,0	28	28	30,8	36,0	**BMNGB-03S**	**BMNGC-03S**	o.r.
	10,0 - 20,0			30	30	33,5	44,5	**BMNGB-03L**	**BMNGC-03L**	

Double Seal Glands
Compact Design, Brass

Double seal glands, compact design

- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Compact design.
- Double seal optimizes the cable range used.
- Easy assembly: install cable gland - insert cable - tighten cap.
- Special design for high quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

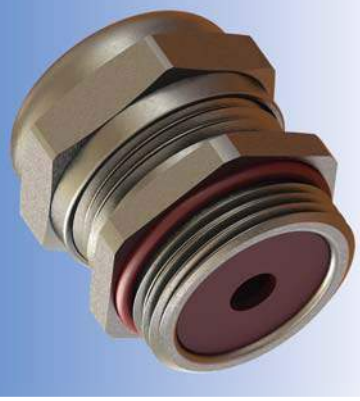
Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	4,0 - 6,0	-	6,0	12,0	14	14	15,8	18,0	**BDSM-0S**	50
M16x1,5	6,5 - 9,0	4,0 - 6,0	5,1	16,0	18	18	20,0	18,5	**BDSM-01**	50
M20x1,5	7,0 - 12,0	4,5 - 7,0	6,0	20,0	22	22	24,5	21,0	**BDSM-02**	50
M25x1,5	14,0 - 17,5	10,0 - 13,0	7,0	25,0	28	28	31,0	22,5	**BDSM-03**	25
M32x1,5	19,0 - 23,5	14,5 - 18,0	8,0	32,0	35	35	38,8	25,5	**BDSM-04**	25
M40x1,5	23,5 - 27,0	16,5 - 23,5	8,0	40,0	43	43	47,0	36,0	**BDSM-05**	20

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	4,0 - 7,0	-	6,0	12,5	14	14	16,5	18,0	**BDSP-01**	50
PG 9	6,0 - 10,0	4,0 - 6,0	6,0	15,2	18	18	20,0	18,5	**BDSP-02**	50
PG 11	7,0 - 12,0	4,5 - 7,0	6,0	18,6	22	22	24,5	20,5	**BDSP-03**	50
PG 13,5	10,0 - 15,0	8,0 - 10,0	6,0	20,4	24	24	26,5	21,0	**BDSP-04**	50
PG 16	10,0 - 15,0	8,0 - 10,0	6,0	22,5	24	25	27,5	21,0	**BDSP-05**	25
PG 21	13,0 - 20,0	10,0 - 13,0	7,6	28,3	32	32	35,5	25,0	**BDSP-06**	25
PG 29	21,5 - 28,0	19,0 - 21,5	8,0	37,0	40	40	45,2	25,5	**BDSP-07**	20
PG 36	30,0 - 35,0	26,0 - 30,0	8,0	47,0	50	50	56,9	28,3	**BDSP-08**	15
PG 42	39,0 - 44,5	35,0 - 39,0	10,0	54,0	58	58	64,0	32,5	**BDSP-09**	12
PG 48	40,0 - 48,0	37,0 - 40,0	11,0	59,3	64	64	70,0	34,2	**BDSP-10**	12

Double Seal Glands
Compact Design, Brass



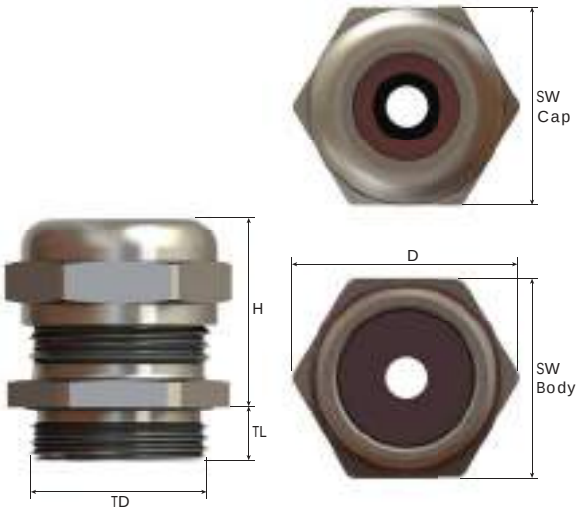
Large Temperature Range

Double seal glands, compact design, large temperature range

- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Compact design.
- Double seal optimizes the cable range used.
- Easy assembly: install cable gland - insert cable - tighten cap.
- Special design for high quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	Silicone	
	O-Ring	Silicone	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-40 °C to +300 °C	-40 °C to +300 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



Thread Type **METRIC** acc. to EN 60423

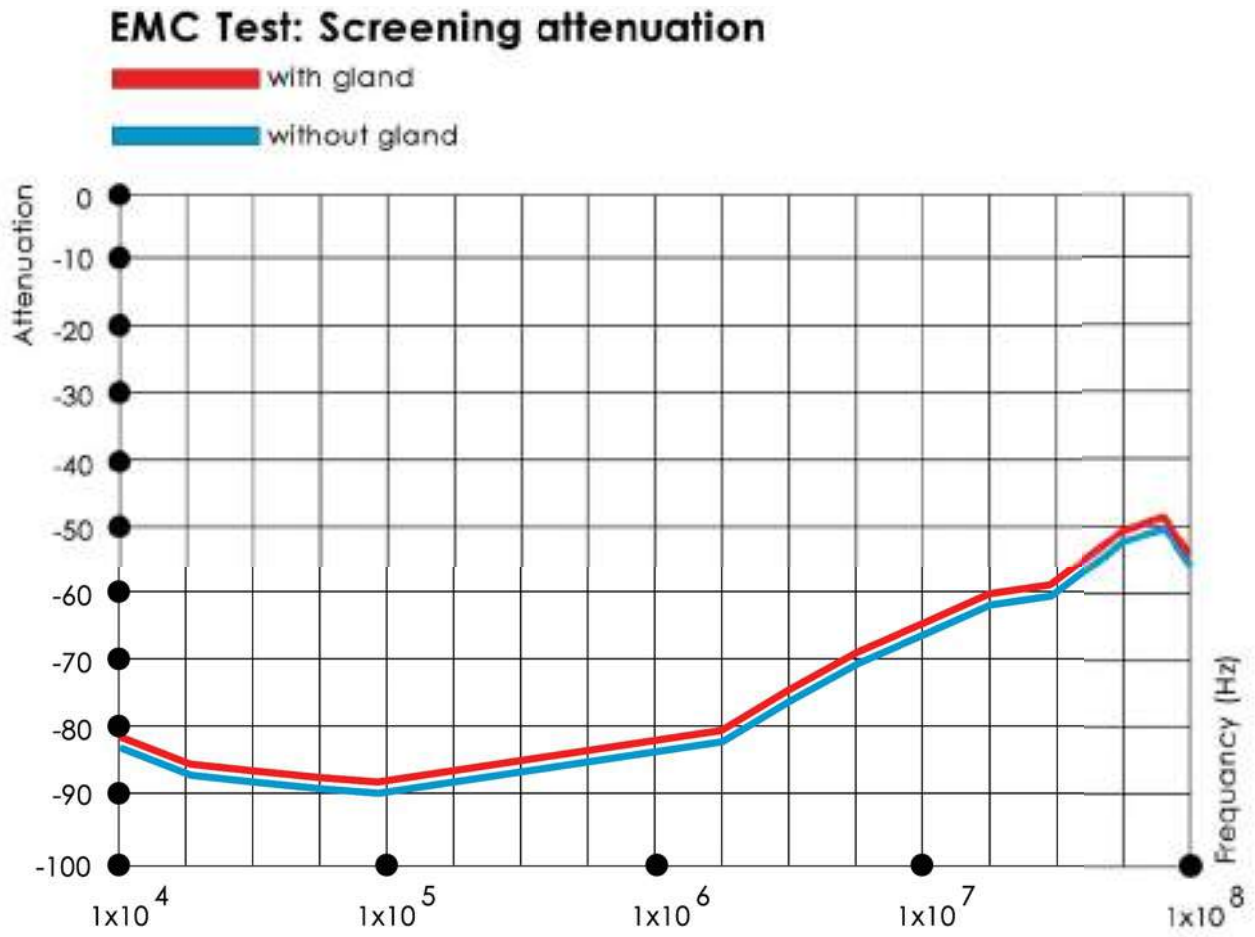
Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	4,0 - 6,0	-	6,0	12,0	14	14	15,8	18,0	**BDSM-0S(SIL)**	50
M16x1,5	6,5 - 9,0	4,0 - 6,0	5,1	16,0	18	18	20,0	18,5	**BDSM-01(SIL)**	50
M20x1,5	7,0 - 12,0	4,5 - 7,0	6,0	20,0	22	22	24,5	21,0	**BDSM-02(SIL)**	50
M25x1,5	14,0 - 17,5	10,0 - 13,0	7,0	25,0	28	28	31,0	22,5	**BDSM-03(SIL)**	25
M32x1,5	19,0 - 23,5	14,5 - 18,0	8,0	32,0	35	35	38,8	25,5	**BDSM-04(SIL)**	25
M40x1,5	19,5 - 27,0	16,5 - 23,5	8,0	40,0	43	43	47,0	36,0	**BDSM-05(SIL)**	20

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	4,0 - 7,0	-	6,0	12,5	14	14	16,5	18,0	**BDSP-01(SIL)**	50
PG 9	6,0 - 10,0	4,0 - 6,0	6,0	15,2	18	18	20,0	18,5	**BDSP-02(SIL)**	50
PG 11	7,0 - 12,0	4,5 - 7,0	6,0	18,6	22	22	24,5	20,5	**BDSP-03(SIL)**	50
PG 13,5	10,0 - 15,0	8,0 - 10,0	6,0	20,4	24	24	26,5	21,0	**BDSP-04(SIL)**	50
PG 16	10,0 - 15,0	8,0 - 10,0	6,0	22,5	24	25	27,5	21,0	**BDSP-05(SIL)**	25
PG 21	13,0 - 20,0	10,0 - 13,0	7,6	28,3	32	32	35,5	25,0	**BDSP-06(SIL)**	25
PG 29	21,5 - 28,0	19,0 - 21,5	8,0	37,0	40	40	45,2	25,5	**BDSP-07(SIL)**	20
PG 36	30,0 - 35,0	26,0 - 30,0	8,0	47,0	50	50	56,9	28,3	**BDSP-08(SIL)**	15
PG 42	39,0 - 44,5	35,0 - 39,0	10,0	54,0	58	58	64,0	32,5	**BDSP-09(SIL)**	12
PG 48	40,0 - 48,0	37,0 - 40,0	11,0	59,3	64	64	70,0	34,2	**BDSP-10(SIL)**	12

EMC 2 Cable Glands
Brass

These EMC cable glands combine several advantages in one product. First, you get the same clamping ranges as the standard brass glands. The protection class is IP68. In order to get a low electrical impedance between the cable gland and the braiding of the cable the cable gland does not have to be disassembled. Secondly, a perfect shielding will be achieved by just tightening the dome nut. This high tech cable gland consists of a nickel plated brass body, PA6 clamping insert, an EMC contact element and choloprene seal. The components are pre-assembled.

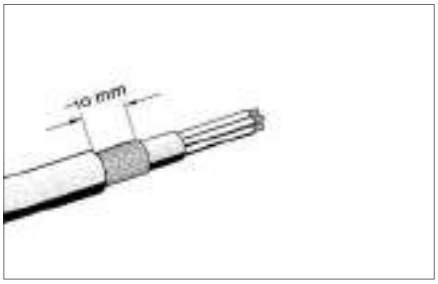


EMC 2 Cable Glands
Brass

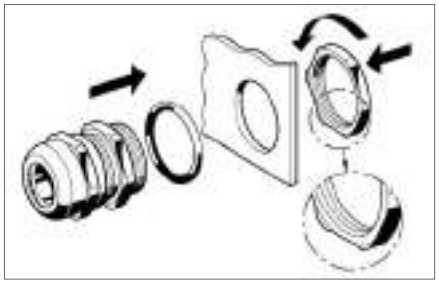
Installation instructions for EMC cable glands

To install an EMC cable gland remove approx. 5 – 10 mm (0.20 – 0.39) of the insulation of the cable. Insert the cable in to the cable gland and adjust it without the contact elements touching the braiding. Tighten the cap and conductivity will be established. The design of the contact elements will adapt to different cable diameters according to the clamping range of the cable glands. Since the clamping insert of the cable gland is as long as the gland itself electrical shortcuts between the body and individual wires will be avoided.

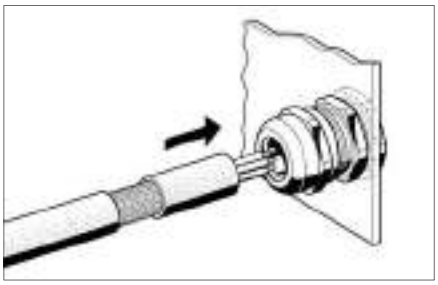
Tightening the dome nut will have three different effects: The cable will be centered in the cable gland, the choloprene seal will ensure IP 68 protection, and the design of the dome cap will provide appropriate strain relief. All is done by just one turn of the dome cap. Even uninstalling the cable is easy; open the dome cap and pull the cable out of the cable gland together with the insert, which can then be removed easily.



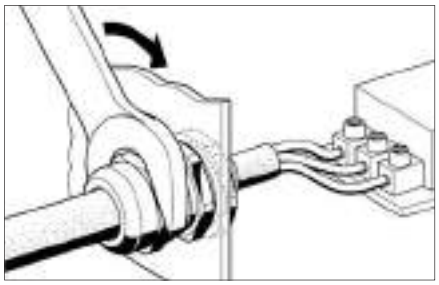
Remove outer sheath
of shielded cable



Tighten the cable
gland to the housing



Insert cable until
EMC spring



Lock and tight
the cap

EMC 2 Cable Glands
Brass

EMC cable glands with fixed spring contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Contact Spring	Special Copper Alloy	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request.	
Cable Type		Non armoured, Shielded	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Outer Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	3,0 - 6,5		2,5	6,0 12,0	12,	14	14	15,5	22,0	**BMEM-0S** **BMEN-0S**	50
M16x1,5	4,0 - 8,0		3,0	7,0 12,0	16,0	17	18	20,0	23,0	**BMEM-01** **BMEN-01**	50
	4,5 - 10,0		3,5	6,5		20	20	22,0	29,0	**BMEM-01S**	
M20x1,5	6,0 - 12,0		4,5	8,0 12,0	20,0	22	22	24,5	24,5	**BMEM-02** **BMEN-02**	50
M25x1,5	10,0 - 14,0		8,5	8,0 12,0	25,0	24	27	29,8	28,0	**BMEM-03** **BMEN-03**	25
	13,0 - 18,0		10,5	8,0		30	30	33,0	37,5	**BMEM-03S**	
M32x1,5	13,0 - 18,0		11,0	9,0 15,0	32,0	30	34	37,5	32,5	**BMEM-04** **BMEN-04**	25
	18,0 - 25,0		14,0	9,0		40	40	44,5	44,0	**BMEM-04S**	
M40x1,5	18,0 - 25,0		16,0	9,0 15,0	40,0	40	43	48,5	38,0	**BMEM-05** **BMEN-05**	20
	22,0 - 32,0		20,0	9,0		50	50	55,5	52,5	**BMEM-05S**	
M50x1,5	22,0 - 32,0		20,0	9,0 15,0	50,0	50	55	61,0	48,0	**BMEM-06** **BMEN-06**	15
	34,0 - 44,0	27,0 - 35,0	26,0	9,0		64	68	70,0	54,0	**BMEM-06S**	10
M63x1,5	34,0 - 44,0		31,0	14,0 18,0	63,0	64	68	75,0	53,0	**BMEM-07** **BMEN-07**	12

EMC 2 Cable Glands
Brass

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max		Shield Diameter Ø min-max		Thread Length TL		Thread Ø TD		Spanner Width SW Cap		Spanner Width SW Body		Outer Ø D		max. Height H		Part Number	Packing Unit
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
NPT 3/8"	5,0 - 10,0	0.197 - 0.394	4,0	0.157	11,5	0.453	17,14	0.675	20	0.787	20	0.787	22,0	0.866	29,5	1.161	BNEM-01	50
NPT 1/2"	6,0 - 12,0	0.236 - 0.472	5,0	0.197	13,0	0.512	21,34	0.840	22	0.866	22	0.866	24,5	0.965	25,5	1.004	BNEM-02	50
NPT 3/4"	13,0 - 18,0	0.512 - 0.709	11,0	0.433	13,0	0.512	26,67	1.050	30	1.181	30	1.181	33,0	1.299	35,5	1.398	BNEM-03	25
NPT 1"	18,0 - 25,0	0.709 - 0.984	16,0	0.630	13,0	0.512	33,40	1.315	40	1.575	43	1.693	48,5	1.909	43,0	1.693	BNEM-04	10

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	3,0 - 6,5	2,5	6,0 / 8,0	12,5	14	14	15,5	22,0	BSEM-01 / BSEN-01	50
PG 9	4,0 - 8,0	3,0	6,0 / 10,0	15,2	17	17	18,9	23,2	BSEM-02 / BSEN-02	50
PG 11	5,0 - 10,0	4,0	6,0 / 10,0	18,6	20	20	22,0	26,0	BSEM-03 / BSEN-03	50
PG 13,5	6,0 - 12,0	5,0	6,5 / 10,0	20,4	22	22	24,5	24,5	BSEM-04 / BSEN-04	50
PG 16	10,0 - 14,0	8,5	6,5 / 10,0	22,5	24	24	26,5	28,0	BSEM-05 / BSEN-05	25
PG 21	13,0 - 18,0	11,0	7,2 / 12,0	28,3	30	30	33,0	32,5	BSEM-06 / BSEN-06	25
PG 29	18,0 - 25,0	16,0	8,0 / 12,0	37,0	40	40	44,5	38,0	BSEM-07 / BSEN-07	20
PG 36	22,0 - 32,0	20,0	9,0 / 14,0	47,0	50	50	55,5	48,0	BSEM-08 / BSEN-08	15
PG 42	30,0 - 38,0	28,0	12,0 / 16,0	54,0	58	58	64,0	48,0	BSEM-09 / BSEN-09	12
PG 48	34,0 - 44,0	31,0	14,0 / 18,0	59,3	64	64	70,0	52,4	BSEM-10 / BSEN-10	12

EMC 3 Cable Glands
Brass

The new generation of Bimed's EMC and derivation gland shows significant advantages compared to other existing cable glands. The patented contact system inside the gland allows all degrees of freedom which are neccessary to install a cable easily; the cable can be pulled forward and backward inside the gland without damaging the cable shielding. This is realized by specially designed contact elements. This feature is most advantageous when connectorizing the single cores of the cable.

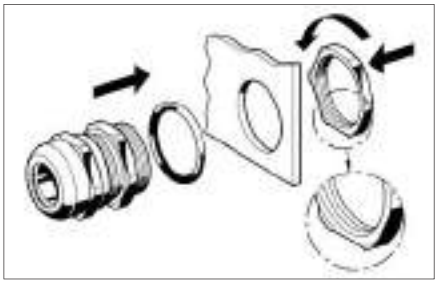
Also the cable can easily be rotated inside the gland without damaging the cable shielding – most important when installing the gland at an industrial connector. The unique mechanism of the integrated contact system therefore show the following features:

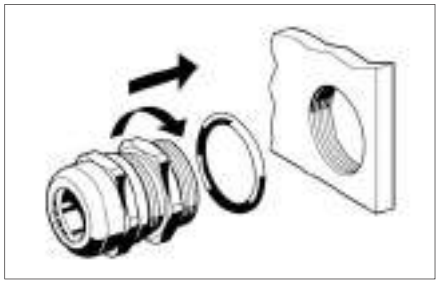
For small cable diameters in the lower clamping range of the gland the contact system won't touch the cable braiding during the installation process at all. For bigger cable diameters in the upper clamping range of the gland, the contact system will rotate freely inside the gland together with the cable itself. Only when tightening the cap the contact element will be fixed and will be pressed against the cable shielding to ensure a low resistance electrical contact between gland and cable braiding. Simultaneously IP68 protection class and cable anchorage according to the EN 62444 is achieved.

This straight forward application and convenient installation of the gland saves a lot of time and therefore a lot of money.Shielding and derivation tests performed with this gland show exceptional values. So this EMC and derivation gland from Bimed will be used wherever an outstanding performance is needed. Simple application, fast installation together with the patented contact system makes Bimed's gland unique among the cable glands

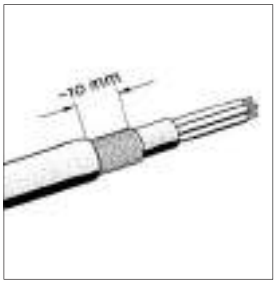
EMC 3 Cable Glands
Brass

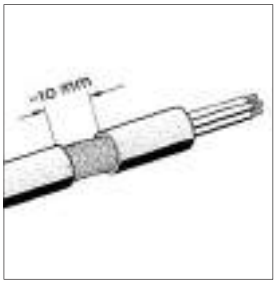
Installation instructions for EMC cable glands

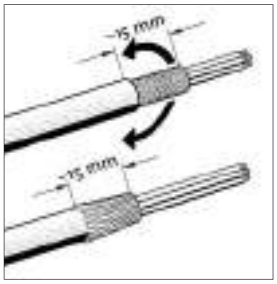




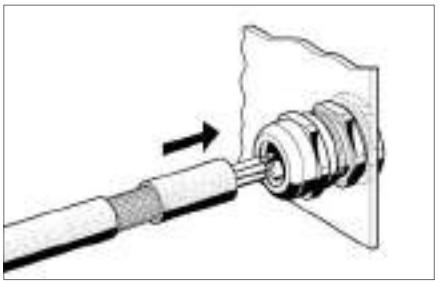
Tighten the cable gland to the housing with the amount of torque as indicated.
If necessary use our EMC lock muts. For EMC lock nuts please contact us

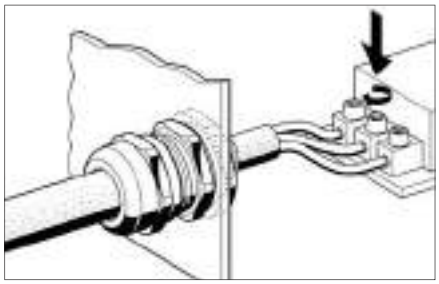




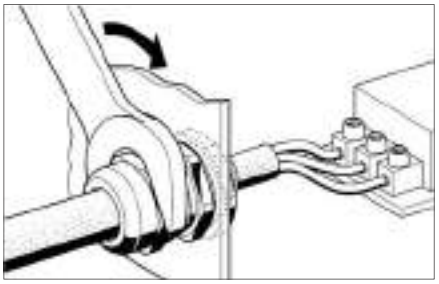


Remove outer sheath of shielded cable





Insert cable into gland until screen and EMC insert contact is
achieved then connect single cores



Lock the cap and tighten with the amount of
torque as indicated

EMC 3 Cable Glands
Brass

EMC cable glands with moving spring contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.

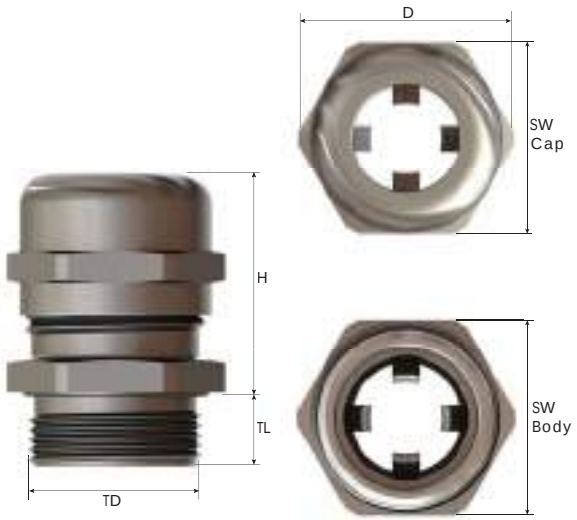
Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Contact Spring	Special Copper Alloy	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Cable Type		Non armoured, Shielded	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
UL	E199260	acc. to UL514

EMC 3 Cable Glands
Brass



Thread Type **METRIC** acc. to EN 60423

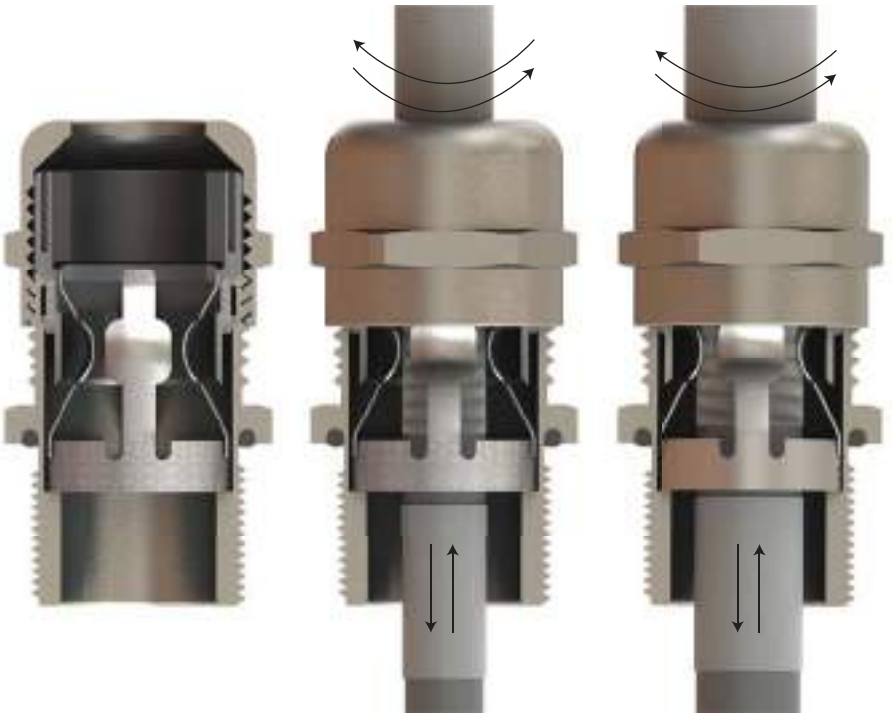
Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	3,0 - 6,5	2,5	6,0	12,0	14	14	15,5	22,0	**BMEM-ES**	50
M16x1,5	5,0 - 10,0	4,0	7,0	16,0	20	20	22,0	29,0	**BMEM-E1**	50
M20x1,5	6,0 - 12,0	5,0	8,0	20,0	22	22	24,5	27,5	**BMEM-E2**	50
M25x1,5	11,0 - 17,0	9,5	8,0	25,0	27	27	30,0	30,7	**BMEM-E3**	25
M32x1,5	15,0 - 21,0	13,5	8,0	32,0	34	34	37,0	38,0	**BMEM-E4**	25
M40x1,5	19,0 - 28,0	17,0	9,0	40,0	43	43	48,5	43,0	**BMEM-E5**	20
M50x1,5	27,0 - 38,0	25,0	9,0	50,0	58	58	64,0	54,5	**BMEM-E6**	12
M63x1,5	34,0 - 44,0	31,0	14,0	63,0	64	68	75,0	57,0	**BMEM-E7**	12

EMC 4 Cable Glands
Brass

These cable glands are developed according to end users' requirements. Their features can be summarized as follows:

- Easy insertion of the cable from the two sides of the gland.
- Open contact fingers in loose position.
- Free radial and axial movement of the cable.
- Easy radial and axial movement of the cable, even in contact position without any damage to the braid with the help of rounded contact finger surfaces.
- Large contact surfaces of the fingers allow low contact resistance even on loosely woven cable braids (the contact surfaces do not sink into the braided wires).
- High contact performance even under vibrating conditions with help of the reduced distance between the "sealing clamping level" and "EMC contact level".

EMC 4 Cable Glands
Brass



As Supplied

with Minimum
Cable Diameter

with Maximum
Cable Diameter

EMC 4 Cable Glands
Brass

EMC cable glands with open moving spring contact

- Specially designed EMC protective cable glands.
- Vibration proof EMC performance.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly and disassembly of cable. Spring closes and opens according to fastening of the cap.
- Easy movement of cable as long as not fastened.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.

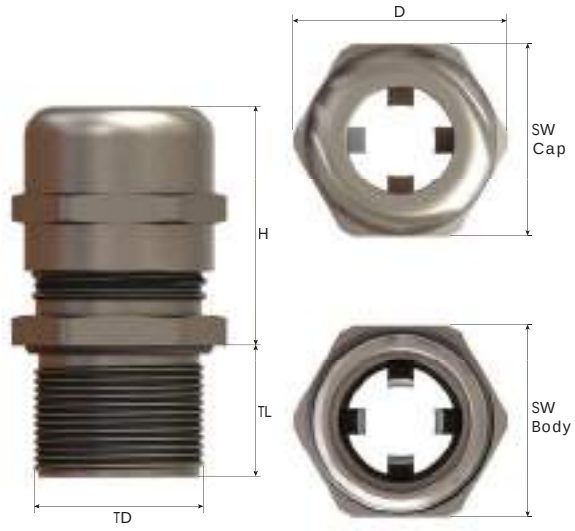
Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Contact Spring	Special Copper Alloy	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request.	
Cable Type		Non armoured, Shielded	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40039349	acc. to DIN EN 62444
UL	E199260	acc. to UL514

EMC 4 Cable Glands
Brass



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	3,0 - 6,5	2,0 - 5,0	6,0	12,0	14	14	15,5	28,0	**BMEM-ES(M12T)**	50
M16x1,5	5,0 - 10,0	3,5 - 8,0	6,0	16,0	20	20	22,0	33,0	**BMEM-E1(M16T)**	50
M20x1,5	6,0 - 12,0	4,5 - 10,0	6,0	20,0	22	22	24,5	32,0	**BMEM-E2S(M20T)**	50
	7,5 - 14,0	5,5 - 11,5	8,0		24	26	26,8	40,0	**BMEM-E2(M20T)**	
M25x1,5	10,0 - 18,0	7,0 - 14,0	8,0	25,0	30	30	33,0	43,0	**BMEM-E3(M25T)**	25
M32x1,5	16,0 - 25,0	12,0 - 20,0	9,0	32,0	40	40	43,5	53,0	**BMEM-E4(M32T)**	25
M40x1,5	22,0 - 32,0	18,0 - 27,0	9,0	40,0	50	50	55,5	60,5	**BMEM-E5(M40T)**	20
M50x1,5	30,0 - 38,0	26,0 - 34,0	9,0	50,0	58	58	64,0	73,0	**BMEM-E6(M50T)**	12
M63x1,5	34,0 - 44,0	30,0 - 40,0	14,0	63,0	64	68	75,0	59,0	**BMEM-E7(M63T)**	12
	37,0 - 53,0	33,0 - 49,0	10,0		75	75	83,0	75,0	**BMEM-E7L(M63T)**	

EMC 4 Cable Glands
Brass

EMC cable glands with open moving spring contact

- Specially designed EMC protective cable glands.
- Vibration proof EMC performance.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly and disassembly of cable. Spring closes and opens according to fastening of the cap.
- Easy movement of cable as long as not fastened.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.

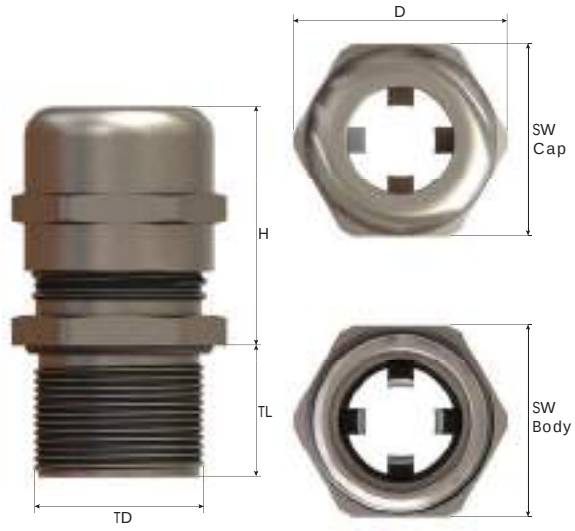
Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Contact Spring	Special Copper Alloy	
	O-Ring	NBR	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request.	
Cable Type		Non armoured, Shielded	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40039349	acc. to DIN EN 62444
UL	E199260	acc. to UL514

EMC 4 Cable Glands
Brass



Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max		Shield Diameter Ø min-max		Thread Length TL		Thread Ø TD		Spanner Width SW Cap		Spanner Width SW Body		Outer Ø D		max. Height H		Part Number	Packing Unit
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
NPT 1/4"	3,0 - 6,5	0.118 - 0.256	2,0 - 5,0	0.079 - 0.197	11,5	0.453	13,72	0,540	14	0.551	15	0.591	16,5	0.610	28,0	1.102	**BNEM-ES(NPT1/4"T)**	50
NPT 3/8"	5,0 - 10,0	0.197 - 0.394	3,5 - 8,0	0.138 - 0.315	11,5	0.453	17,14	0.675	20	0.787	20	0.787	22,0	0.744	33,0	1.299	**BNEM-E1(NPT3/8"T)**	50
NPT 1/2"	6,0 - 12,0	0.236 - 0.472	4,5 - 10,0	0.177 - 0.394	15,0	0.591	21,34	0.840	22	0.866	22	0.866	24,5	0.866	37,5	1.476	**BNEM-E2S(NPT1/2"T)**	50
	7,5 - 14,0	0.295 - 0.551	5,5 - 11,5	0.217 - 0.453					24	0.945	24	0.945	26,8		39,5	1.555	**BNEM-E2(NPT1/2"T)**	
NPT 3/4"	10,0 - 18,0	0.394 - 0.709	7,0 - 14,0	0.276 - 0.551	15,0	0.591	26,67	1.050	30	1.181	30	1.181	33,0	0.965	42,5	1.673	**BNEM-E3(NPT3/4"T)**	25
NPT 1"	16,0 - 25,0	0.630 - 0.984	12,0 - 20,0	0.472 - 0.787	20,0	0.787	33,40	1.315	40	1.575	40	1.575	43,3	1.055	52,5	2.067	**BNEM-E4(NPT1"T)**	25
NPT 1 1/4"	22,0 - 32,0	0.866 - 1.260	18,0 - 27,0	0.709 - 1.063	20,0	0.787	42,16	1.660	50	1.969	50	1.969	55,4	1.299	62,0	2.441	**BNEM-E5(NPT11/4"T)**	20
NPT 1 1/2"	30,0 - 38,0	1.181 - 1.496	26,0 - 34,0	1.024 - 1.339	22,0	0.866	48,26	1.900	58	2.283	58	2.283	64,0	1.713	72,0	2.835	**BNEM-E6(NPT11/2"T)**	10
NPT 2"	34,0 - 44,0	1.339 - 1.732	30,0 - 40,0	1.181 - 1.575	22,0	0.866	60,325	2.375	64	2.520	68	2.677	75,0	2.185	71,5	2.815	**BNEM-E7(NPT2"T)**	5

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	3,0 - 6,5	2,0 - 5,0	6,0	12,5	14	15	16,5	28,0	**BSEM-E1(Pg7T)**	50
PG 11	5,0 - 10,0	3,5 - 8,0	6,0	18,6	20	21	23,0	33,0	**BSEM-E3(Pg11T)**	50
PG 13,5	6,0 - 12,0	4,5 - 10,0	6,5	20,4	22	22	24,5	31,5	**BSEM-E4(Pg13,5T)**	50
PG 16	7,5 - 14,0	5,5 - 11,5	6,5	22,5	24	25	27,5	39,5	**BSEM-E5(Pg16T)**	25
PG 21	10,0 - 18,0	7,0 - 14,0	7,0	28,3	32	30	35,5	42,5	**BSEM-E6(Pg21T)**	25
PG 29	16,0 - 25,0	12,0 - 20,0	9,0	37,0	40	40	43,5	52,5	**BSEM-E7(Pg29T)**	25
PG 36	22,0 - 32,0	18,0 - 27,0	9,0	47,0	50	50	55,5	60,5	**BSEM-E8(Pg36T)**	20
PG 42	30,0 - 38,0	26,0 - 34,0	12,0	54,0	58	60	66,5	72,5	**BSEM-E9(Pg42T)**	10
PG 48	34,0 - 44,0	30,0 - 40,0	14,0	59,3	64	68	75,0	58,5	**BSEM-E10(Pg48T)**	5

Cable Protection Glands, EMC
Brass

EMC cable protection glands with lamellar clamping

- For cable bending protection.
- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Bending Spiral	Stainless steel (AISI 301)	
	Bending Spiral Ring	Brass, Nickel plated	
	Contact Spring	Special Copper Alloy	
	O-Ring	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Cable Type		Non armoured, Shielded	
Accessories		• Lock nuts • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	5,0 - 10,0	3,5	7,0	16,0	20	20	22,0	74,2	**BMEMSP-E1**	o.r.
M20x1,5	6,0 - 12,0	4,5	8,0	20,0	22	22	24,5	66,0	**BMEMSP-E2**	o.r.
M25x1,5	11,0 - 17,0	9,5	8,0	25,0	27	27	30,0	74,5	**BMEMSP-E3**	o.r.

RJ 45 Cable Glands
Brass

Cable glands for RJ 45 cables

- For standard industrial applications using data cables with pre-assembled cables with RJ 45 connectors.
- For metal machines and housings.
- For industrial applications in harsh environments.
- Easy assembly: feed connector through cable gland - assemble splitted seal around cable - insert seal into gland body - install cable gland - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Cable Type		Non armoured	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M20x1,5	6,0	8,0 12,0	20,0	24	24	26,8	28,0	**BMBCRJ-02S** **BMBERJ-02S**	o.r.
M25x1,5	6,0	8,0 12,0	25,0	24	27	29,8	27,7	**BMBCRJ-03** **BMBERJ-03**	o.r.
M32x1,5	6,0	9,0 15,0	32,0	30	34	37,5	32,3	**BMBCRJ-04** **BMBERJ-04**	o.r.

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 16	6,0	6,5 10,0	22,5	24	24	26,5	28,0	**BSBCRJ-05** **BSBERJ-05**	o.r.
PG 21	6,0	7,2 12,0	28,3	30	30	33,0	32,5	**BSBCRJ-06** **BSBERJ-06**	o.r.

Snap-In Glands, EMC Brass

EMC cable glands with open moving spring contact, front-side assembly, without thread

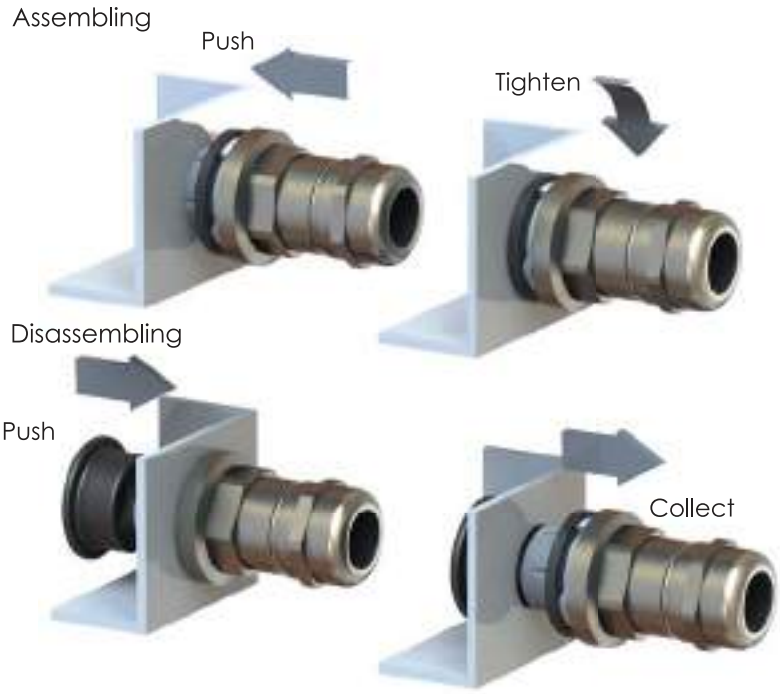
- Specially designed EMC protective cable glands - easy to assemble to housings without threaded holes.
- Vibration proof EMC performance.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly and disassembly of cable. Spring closes and opens according to fastening of the cap.
- Easy movement of cable as long as not fastened.
- Easy assembly: push cable gland and turn body clockwise - prepare cable sheath - insert cable - tighten cap.
- Perfectly fit to wall thickness 0,5 mm to 4,0 mm.
- High quality strain relief and sealing, reliable performance for EMC applications.

Technical Details

Materia	**Body**	Brass, Nickel plated	
	Lower Body	PA 6 (Polyamide 6)	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamping Insert	PA 6 (Polyamide 6)	
	Contact Spring	Special Copper Alloy	
	Gasket	CR (Chloroprene Rubber)	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured, Shielded	
Accessories		• Dome plugs • Disassembly tool (one piece included per packing unit)	
Remarks		• Manufactured according to DIN EN 62444/50262.	

Approvals

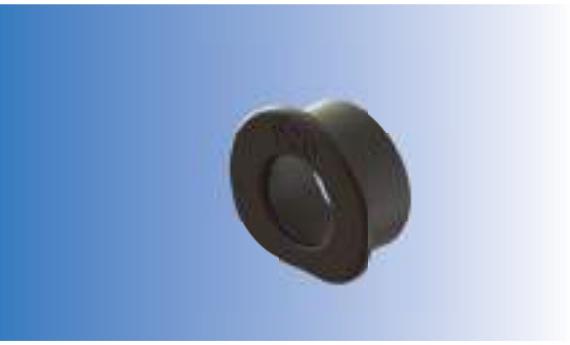
	Certificate Number	Standards
UV	SERCOVAM RES 107572	acc. to UL514B §8.26.7



Snap-In Glands, EMC Brass

wall thickness (E) : **0,5 - 4,0 mm**

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Snap Length SL mm	Snap Ø SD mm	Hole Ø HD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
20	6,0 - 12,0	4,5 - 10,0	9,0	19,9	20,2 - 20,6	22	22	32,3	50,5	**BMEOS-E2S(T)**	50



Snap-In Gland Disassembling Tool

Size	ID Ø mm	H mm	Part Number	Packing Unit
20	20,0	13,0	**BEX-20**	10

Armoured Cable Glands

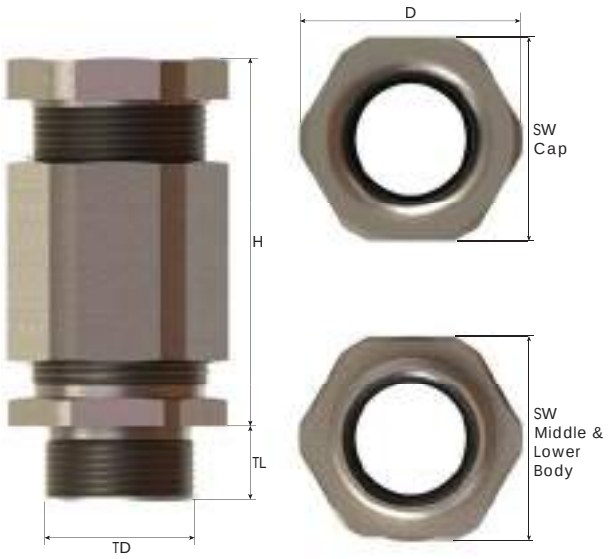
Cable glands for armoured cables

- Specially designed cable glands for armoured cables. Large temperature range applications.
- Easy assembly: install cable gland - prepare steel wires - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Cap	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Seal	CR (Chloroprene Rubber)
	Swivel Braid Ring	Brass - Brass, Nickel plated- Stainless Steel - Aluminium
Protection Class		IP 66
Operating Temperature		**Permanent** -40 °C to +100 °C
Thread Type		• Metric EN 60423 • NPT ANSI B1.20.1 • Other thread types also available upon request.
Cable Type		SWA, SWB, AWA, STA and Shielded
Accessories		• Lock nuts • Gaskets • Shroud
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.

Armoured Cable Glands



Order Encoding

Part Number	Size	•M: Metric •N: NPT Thread	•C: Chloroprene Sealing	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Alunimium Material	Locknut	•S: Shroud
KBET	5	M	C	B	L	S

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Middle Body mm	Spanner Width SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	8,0 - 15,0	0,3 - 1,3	9,0	16,0	25	25	24	27,5	40,5	**KBET01MC**	100
M20x1,5	8,0 - 15,0	0,3 - 1,3	9,0	20,0	25	25	24	27,5	40,5	**KBET1MC**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LMC**	
M25x1,5	8,0 - 15,0	0,3 - 1,3	9,0	25,0	25	25	25	27,5	40,5	**KBET2SMC**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2MC**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LMC**	
M32x1,5	18,0 - 27,0	0,4 - 1,6	9,0	32,0	40	40	40	44,5	48,2	**KBET3SMC**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3MC**	
M40x1,5	29,0 - 40,0	0,4 - 2,0	9,0	40,0	52	52	52	59,0	55,2	**KBET4MC**	25
M50x1,5	35,0 - 48,0	0,4 - 2,5	9,0	50,0	60	60	60	66,5	67,5	**KBET5SMC**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5MC**	
M63x1,5	42,0 - 56,0	0,6 - 2,5	9,0	63,0	75	74	70	83,0	74,3	**KBET6SMC**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6MC**	
M75x1,5	53,0 - 66,0	0,6 - 2,5	9,0	75,0	85	85	80	94,0	75,3	**KBET7SMC**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7MC**	

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Middle Body mm	Spanner Width SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
NPT 3/8"	8,0 - 15,0	0,3 - 1,3	16,0	17,1	25	25	24	27,5	40,5	**KBET01NC**	100
NPT 1/2"	8,0 - 15,0	0,3 - 1,3	16,0	21,3	25	25	24	27,5	40,5	**KBET1NC**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LNC**	
NPT 3/4"	8,0 - 15,0	0,3 - 1,3	16,0	26,7	25	25	27	27,5	40,5	**KBET2SNC**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2NC**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LNC**	
NPT 1"	18,0 - 27,0	0,4 - 1,6	21,0	33,4	40	40	40	44,5	48,2	**KBET3SNC**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3NC**	
NPT 1 1/4"	29,0 - 40,0	0,4 - 2,0	21,0	42,2	52	52	52	59,0	55,2	**KBET4NC**	25
NPT 1 1/2"	35,0 - 48,0	0,4 - 2,5	21,0	48,3	60	60	60	66,5	67,5	**KBET5SNC**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5NC**	
NPT 2"	42,0 - 56,0	0,6 - 2,5	21,0	60,3	75	74	70	83,0	74,3	**KBET6SNC**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6NC**	
NPT 2 1/2"	53,0 - 66,0	0,6 - 2,5	21,0	73,0	85	85	80	94,0	75,3	**KBET7SNC**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7NC**	

Armoured Cable Glands Increased Temperature

Cable glands for armoured cables

- Specially designed cable glands for armoured cables, increased temperature design.
- Easy assembly: install cable gland - prepare steel wires - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Cap	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Seal	NBR
	Swivel Braid Ring	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
Protection Class		IP 66
Operating Temperature		**Permanent**
		-30 °C to +120 °C
Thread Type		• Metric EN 60423 • NPT ANSI B1.20.1 • Other thread types also available upon request.
Cable Type		SWA, SWB, AWA, STA and Shielded
Accessories		• Lock nuts • Gaskets • Shroud
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.

Order Encoding

Part Number	Size	•M: Metric •N: NPT Thread	•N: NBR Sealing	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Alunimium Material	Locknut	•S: Shroud
KBET	5	M	N	B	L	S

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Middle Body mm	Spanner Width SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	8,0 - 15,0	0,3 - 1,3	9,0	16,0	25	25	24	27,5	40,5	**KBET01MN**	100
M20x1,5	8,0 - 15,0	0,3 - 1,3	9,0	20,0	25	25	24	27,5	40,5	**KBET1MN**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LMN**	
M25x1,5	8,0 - 15,0	0,3 - 1,3	9,0	25,0	25	25	25	27,5	40,5	**KBET2SMN**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2MN**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LMN**	
M32x1,5	18,0 - 27,0	0,4 - 1,6	9,0	32,0	40	40	40	44,5	48,2	**KBET3SMN**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3MN**	
M40x1,5	29,0 - 40,0	0,4 - 2,0	9,0	40,0	52	52	52	59,0	55,2	**KBET4MN**	25
M50x1,5	35,0 - 48,0	0,4 - 2,5	9,0	50,0	60	60	60	66,5	67,5	**KBET5SMN**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5MN**	
M63x1,5	42,0 - 56,0	0,6 - 2,5	9,0	63,0	75	74	70	83,0	74,3	**KBET6SMN**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6MN**	
M75x1,5	53,0 - 66,0	0,6 - 2,5	9,0	75,0	85	85	80	94,0	75,3	**KBET7SMN**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7MN**	

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Middle Body mm	Spanner Width SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
NPT 3/8"	8,0 - 15,0	0,3 - 1,3	16,0	17,1	25	25	24	27,5	40,5	**KBET01NN**	100
NPT 1/2"	8,0 - 15,0	0,3 - 1,3	16,0	21,3	25	25	24	27,5	40,5	**KBET1NN**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LNN**	
NPT 3/4"	8,0 - 15,0	0,3 - 1,3	16,0	26,7	25	25	27	27,5	40,5	**KBET2SNN**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2NN**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LNN**	
NPT 1"	18,0 - 27,0	0,4 - 1,6	21,0	33,4	40	40	40	44,5	48,2	**KBET3SNN**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3NN**	
NPT 1 1/4"	29,0 - 40,0	0,4 - 2,0	21,0	42,2	52	52	52	59,0	55,2	**KBET4NN**	25
NPT 1 1/2"	35,0 - 48,0	0,4 - 2,5	21,0	48,3	60	60	60	66,5	67,5	**KBET5SNN**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5NN**	
NPT 2"	42,0 - 56,0	0,6 - 2,5	21,0	60,3	75	74	70	83,0	74,3	**KBET6SNN**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6NN**	
NPT 2 1/2"	53,0 - 66,0	0,6 - 2,5	21,0	73,0	85	85	80	94,0	75,3	**KBET7SNN**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7NN**	

Armoured Cable Glands
Large Temperature Range

Cable glands for armoured cables

- Specially designed cable glands for armoured cables. Large temperature range applications.
- Easy assembly: install cable gland - prepare steel wires - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Body**	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Cap	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
	Seal	Silicone
	Swivel Braid Ring	Brass - Brass, Nickel plated - Stainless Steel - Aluminium
Protection Class		IP 66
Operating Temperature		**Permanent**
		-60 °C to +180 °C
Thread Type		• Metric EN 60423 • NPT ANSI B1.20.1 • Other thread types also available upon request.
Cable Type		SWA, SWB, AWA, STA and Shielded
Accessories		• Lock nuts • Gaskets • Shroud
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.

Order Encoding

Part Number	Size	•M: Metric •N: NPT Thread	•S: Silicone Sealing	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Alunimium Material	Locknut	•S: Shroud
KBET	5	M	S	B	L	S

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Middle Body mm	SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	8,0 - 15,0	0,3 - 1,3	9,0	16,0	25	25	24	27,5	40,5	**KBET01MS**	100
M20x1,5	8,0 - 15,0	0,3 - 1,3	9,0	20,0	25	25	24	27,5	40,5	**KBET1MS**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LMS**	
M25x1,5	8,0 - 15,0	0,3 - 1,3	9,0	25,0	25	25	25	27,5	40,5	**KBET2SMS**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2MS**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LMS**	
M32x1,5	18,0 - 27,0	0,4 - 1,6	9,0	32,0	40	40	40	44,5	48,2	**KBET3SMS**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3MS**	
M40x1,5	29,0 - 40,0	0,4 - 2,0	9,0	40,0	52	52	52	59,0	55,2	**KBET4MS**	25
M50x1,5	35,0 - 48,0	0,4 - 2,5	9,0	50,0	60	60	60	66,5	67,5	**KBET5SMS**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5MS**	
M63x1,5	42,0 - 56,0	0,6 - 2,5	9,0	63,0	75	74	70	83,0	74,3	**KBET6SMS**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6MS**	
M75x1,5	53,0 - 66,0	0,6 - 2,5	9,0	75,0	85	85	80	94,0	75,3	**KBET7SMS**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7MS**	

Thread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max mm	Armour Wire Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Middle Body mm	SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
NPT 3/8"	8,0 - 15,0	0,3 - 1,3	16,0	17,1	25	25	24	27,5	40,5	**KBET01NS**	100
NPT 1/2"	8,0 - 15,0	0,3 - 1,3	16,0	21,3	25	25	24	27,5	40,5	**KBET1NS**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET1LNS**	
NPT 3/4"	8,0 - 15,0	0,3 - 1,3	16,0	26,7	25	25	27	27,5	40,5	**KBET2SNS**	50
	13,5 - 21,0	0,4 - 1,3			30	30	29	33,0	41,5	**KBET2NS**	
	18,0 - 27,0	0,4 - 1,6			40	40	40	44,5	48,2	**KBET2LNS**	
NPT 1"	18,0 - 27,0	0,4 - 1,6	21,0	33,4	40	40	40	44,5	48,2	**KBET3SNS**	30
	23,0 - 33,0	0,4 - 2,0			43	43	43	48,5	51,7	**KBET3NS**	
NPT 1 1/4"	29,0 - 40,0	0,4 - 2,0	21,0	42,2	52	52	52	59,0	55,2	**KBET4NS**	25
NPT 1 1/2"	35,0 - 48,0	0,4 - 2,5	21,0	48,3	60	60	60	66,5	67,5	**KBET5SNS**	20
	42,0 - 56,0	0,6 - 2,5			75	74	70	83,0	74,3	**KBET5NS**	
NPT 2"	42,0 - 56,0	0,6 - 2,5	21,0	60,3	75	74	70	83,0	74,3	**KBET6SNS**	10
	53,0 - 66,0				85	85	80	94,0	75,3	**KBET6NS**	
NPT 2 1/2"	53,0 - 66,0	0,6 - 2,5	21,0	73,0	85	85	80	94,0	75,3	**KBET7SNS**	5
	63,0 - 75,0				95	95	90	105,0	78,8	**KBET7NS**	

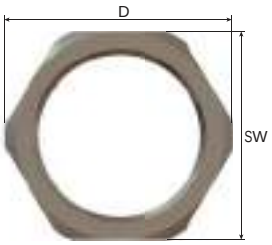
Lock Nuts
Metal

Lock Nuts, Metal

- For standard industrial applications in harsh environments.
- Safe fastening of cable glands.

Technical Details

Material	Brass, Nickel plated Stainless Steel
Thread Type	• Metric EN 60423 • NPSL ANSI B1.20.1 • PG DIN 40430 • G (PF) DIN ISO 228



Thread Type **METRIC** acc. to EN 60423

Size	Brass, Nickel Plated SW mm	Outer Ø D mm	max. Height H mm	Part Number	Stainless Steel SW mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	15,0	16,6	2,8	**BMBL-01**	15,0	16,6	2,8	**BMBLS-01**	100
M16x1,5	19,0	21,0	3,0	**BMBL-02**	19,0	21,0	3,0	**BMBLS-02**	100
M20x1,5	24,0	26,5	3,5	**BMBL-03**	24,0	26,5	3,5	**BMBLS-03**	100
M25x1,5	30,0	33,0	4,0	**BMBL-04**	30,0	33,0	4,0	**BMBLS-04**	100
M32x1,5	36,0	39,5	5,0	**BMBL-05**	36,0	39,5	5,0	**BMBLS-05**	50
M40x1,5	46,0	51,0	5,0	**BMBL-06**	46,0	51,0	5,0	**BMBLS-06**	50
M50x1,5	60,0	66,0	5,0	**BMBL-07**	60,0	66,0	5,0	**BMBLS-07**	10
M63x1,5	70,0	77,0	6,0	**BMBL-08**	70,0	77,0	6,0	**BMBLS-08**	10
M72x2,0	77,0	86,0	7,0	**BMBL-09**	77,0	86,0	7,0	**BMBLS-09**	10
M75x1,5	80,0	89,0	7,0	**BMBL-10S**	80,0	89,0	7,0	**BMBLS-10S**	5
M75x2,0	80,0	89,6	7,0	**BMBL-10**	80,0	89,6	7,0	**BMBLS-10**	5
M80x2,0	90,0	100,0	8,0	**BMBL-11**	90,0	100,0	8,0	**BMBLS-11**	5
M85x2,0	95,0	106,2	8,0	**BMBL-12**	95,0	106,2	8,0	**BMBLS-12**	5
M90x1,5	100,0	112,0	8,0	**BMBL-13S**	100,0	112,0	8,0	**BMBLS-13S**	5
M90x2,0	100,0	112,0	8,0	**BMBL-13**	100,0	112,0	8,0	**BMBLS-13**	5
M100x1,5	120,0	128,0	10,0	**BMBL-14**	120,0	128,0	10,0	**BMBLS-14**	5
M110x1,5	130,0	145,0	10,0	**BMBL-15**	130,0	145,0	10,0	**BMBLS-15**	5

Thread Type **NPSL** acc. to ANSI B1.20.1

Size	Brass, Nickel Plated SW mm	SW inch	Outer Ø D mm	Outer Ø D inch	max. Height H mm	max. Height H inch	Part Number	Stainless Steel SW mm	SW inch	Outer Ø D mm	Outer Ø D inch	max. Height H mm	max. Height H inch	Part Number	Packing Unit
NPSL 1/4"	17,0	0.669	18,8	0.740	5,0	0.197	**BNLN-01S**	17,0	0.669	18,8	0.740	5,0	0.197	**BNLNS-01S**	100
NPSL 3/8"	24,0	0,945	26,5	1.043	5,0	0.197	**BNLN-01**	24,0	0,945	26,5	1.043	5,0	0.197	**BNLNS-01**	100
NPSL 1/2"	24,0	0.945	26,5	1.043	5,0	0.197	**BNLN-02**	24,0	0.945	26,5	1.043	5,0	0.197	**BNLNS-02**	100
NPSL 3/4"	34,0	1.339	37,5	1.476	6,0	0.236	**BNLN-03**	35,0	1.339	39,0	1.476	6,0	0.236	**BNLNS-03**	100
NPSL 1"	42,0	1.654	46,4	1.827	6,0	0.236	**BNLN-04**	46,0	1.654	51,0	1.827	6,0	0.236	**BNLNS-04**	100
NPSL 1 1/4"	52,0	2.047	57,4	2.260	7,0	0.276	**BNLN-05**	55,0	2.047	61,0	2.260	7,0	0.276	**BNLNS-05**	100
NPSL 1 1/2"	60,0	2.362	65,1	2.563	7,0	0.276	**BNLN-06**	60,0	2.362	65,1	2.563	7,0	0.276	**BNLNS-06**	100
NPSL 2"	74,0	2.913	81,8	3.220	8,0	0.315	**BNLN-07**	74,0	2.913	81,8	3.220	8,0	0.315	**BNLNS-07**	100
NPSL 2 1/2"	80,0	3.150	89,0	3.504	10,0	0.394	**BNLN-08**	80,0	3.150	89,0	3.504	10,0	0.394	**BNLNS-08**	50
NPSL 3"	95,0	3.740	105,0	4.134	10,0	0.394	**BNLN-09**	95,0	3.740	105,0	4.134	10,0	0.394	**BNLNS-09**	25
NPSL 3 1/2"	115,0	4.528	128,5	5.059	10,0	0.394	**BNLN-10**	115,0	4.528	128,5	5.059	10,0	0.394	**BNLNS-10**	10
NPSL 4"	130,0	5.118	145,0	5.709	10,0	0.394	**BNLN-11**	130,0	5.118	145,0	5.709	10,0	0.394	**BNLNS-11**	10
NPSL 5"	160,0	6.299	178,5	7.028	12,0	0.472	**BNLN-12**	160,0	6.299	178,5	7.028	12,0	0.472	**BNLNS-12**	10

Thread Type **PG** acc. to DIN 40430

Size	Brass, Nickel Plated SW mm	Outer Ø D mm	max. Height H mm	Part Number	Stainless Steel SW mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	15,0	16,6	2,8	**BSL-01**	17,0	18,6	2,8	**BSLS-01**	100
PG 9	18,0	20,0	2,8	**BSL-02**	19,0	21,0	2,8	**BSLS-02**	100
PG 11	21,0	23,5	3,0	**BSL-03**	22,0	24,5	3,0	**BSLS-03**	100
PG 13,5	23,0	25,5	3,0	**BSL-04**	24,0	26,5	3,0	**BSLS-04**	100
PG 16	26,0	29,0	3,0	**BSL-05**	27,0	30,0	3,0	**BSLS-05**	100
PG 21	32,0	35,5	3,5	**BSL-06**	32,0	35,5	3,5	**BSLS-06**	100
PG 29	41,0	45,0	4,0	**BSL-07**	41,0	45,0	4,0	**BSLS-07**	50
PG 36	51,0	56,0	5,0	**BSL-08**	60,0	66,0	5,0	**BSLS-08**	25
PG 42	60,0	66,0	5,0	**BSL-09**	60,0	66,0	5,0	**BSLS-09**	10
PG 48	64,0	70,5	5,5	**BSL-10**	65,0	71,5	5,5	**BSLS-10**	10

Thread Type **G (Pf)** acc. to DIN ISO 228

Size	Brass, Nickel Plated SW mm	Outer Ø D mm	max. Height H mm	Part Number	Stainless Steel SW mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
G 3/8"	22,0	24,5	5,0	**BPFL-01**	22,0	24,5	5,0	**BPFLS-01**	100
G 1/2"	27,0	30,0	5,0	**BPFL-02**	27,0	30,0	5,0	**BPFLS-02**	100
G 3/4"	33,0	36,5	5,0	**BPFL-03**	36,0	39,5	5,0	**BPFLS-03**	100
G 1"	43,0	46,5	5,0	**BPFL-04**	46,0	51,0	5,0	**BPFLS-04**	50
G 1 1/4"	48,0	53,0	5,0	**BPFL-05**	50,0	55,5	5,0	**BPFLS-05**	25
G 1 1/2"	55,0	61,0	5,0	**BPFL-06**	55,0	61,0	5,0	**BPFLS-06**	10
G 2"	64,0	70,5	5,5	**BPFL-07**	65,0	71,5	5,5	**BPFLS-07**	10
G 4"	130,0	145,0	8,0	**BPFL-11**	130,0	145,0	8,0	**BPFLS-11**	5

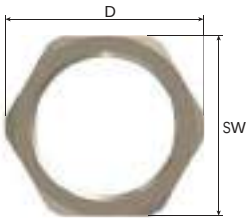
Lock Nuts, EMC Metal

Lock Nuts, Metal, EMC

- For EMC applications of high quality metal machines and housings.
- For high quality applications in corrosive environments.
- Safe fastening of EMC cable glands.

Technical Details

Material	Brass, Nickel plated Stainless Steel
Thread Type	• Metric EN 60423 • PG DIN 40430



Thread Type **METRIC** acc. to EN 60423

Size	Brass, Nickel Plated SW mm	Outer Ø D mm	max. Height H mm	Part Number	Stainless Steel SW mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	15	16,5	3,3	**BMEL-01**	15	16,5	3,3	**BMELS-01**	50
M16x1,5	19	21,0	3,5	**BMEL-02**	19	21,0	3,5	**BMELS-02**	50
M20x1,5	24	26,5	3,5	**BMEL-03**	24	26,5	3,5	**BMELS-03**	50
M25x1,5	30	33,0	3,5	**BMEL-04**	30	33,0	3,5	**BMELS-04**	25
M32x1,5	36	39,5	4,0	**BMEL-05**	36	39,5	4,0	**BMELS-05**	25
M40x1,5	46	51,0	4,6	**BMEL-06**	46	51,0	4,6	**BMELS-06**	20
M50x1,5	60	66,0	5,6	**BMEL-07**	60	66,0	5,6	**BMELS-07**	15
M63x1,5	70	77,0	6,7	**BMEL-08**	70	77,0	6,7	**BMELS-08**	12

Thread Type **PG** acc. to DIN 40430

Size	Brass, Nickel Plated SW mm	Outer Ø D mm	max. Height H mm	Part Number	Stainless Steel SW mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
PG 7	15	16,5	3,3	**BSEL-01**	15	16,5	3,3	**BSELS-01**	50
PG 9	18	20,0	3,3	**BSEL-02**	18	20,0	3,3	**BSELS-02**	50
PG 11	21	23,5	3,5	**BSEL-03**	21	23,5	3,5	**BSELS-03**	50
PG 13,5	23	25,5	3,5	**BSEL-04**	23	25,5	3,5	**BSELS-04**	50
PG 16	26	29,0	3,5	**BSEL-05**	26	29,0	3,5	**BSELS-05**	25
PG 21	32	35,5	4,0	**BSEL-06**	32	35,5	4,0	**BSELS-06**	25
PG 29	41	45,0	4,6	**BSEL-07**	41	45,0	4,6	**BSELS-07**	20
PG 36	51	56,0	5,6	**BSEL-08**	51	56,0	5,6	**BSELS-08**	15
PG 42	60	66,0	5,6	**BSEL-09**	60	66,0	5,6	**BSELS-09**	12
PG 48	64	70,5	6,1	**BSEL-10**	64	70,5	6,1	**BSELS-10**	12

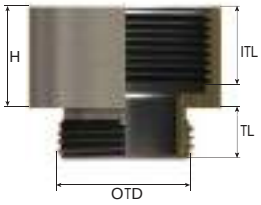
Enlargers
Brass

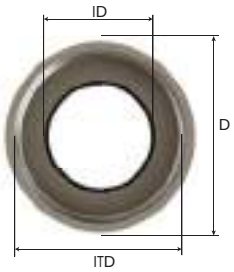
Enlargers for different thread sizes

- For metal machines and housings.
- Enlargers for the transision of different thread types and sizes.

Technical Details

Material	Brass, Nickel plated
Thread Type	• Metric EN 60423 • PG DIN 40430
Accessories	• Lock nuts • Gaskets
Remarks	• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.



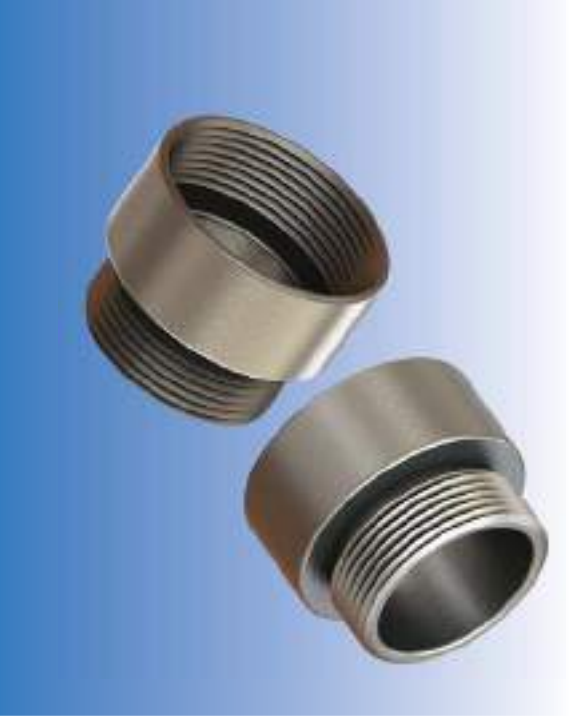


Thread Type **METRIC - METRIC** acc. to EN 60423

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Inner Thread Length ITL mm	Inner Ø ID mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
M12x1,5	**M16x1,5**	6,0	7,0	8,0	18,0	9,0	**MME-01**	200
M16x1,5	**M20x1,5**	6,0	10,0	12,0	22,0	11,6	**MME-02**	150
M20x1,5	**M25x1,5**	7,0	8,5	16,0	27,0	10,5	**MME-03**	120
M25x1,5	**M32x1,5**	8,0	9,5	20,5	34,0	11,5	**MME-04**	100
M32x1,5	**M40x1,5**	8,0	8,5	26,0	42,0	14,5	**MME-05**	50
M40x1,5	**M50x1,5**	8,0	15,0	35,5	52,0	19,5	**MME-06**	20
M50x1,5	**M63x1,5**	9,0	9,5	45,0	65,0	22,5	**MME-07**	10

Thread Type **PG - PG** acc. to DIN 40430

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Inner Thread Length ITL mm	Inner Ø ID mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
PG 7	**PG 9**	5,0	5,0	8,0	17,0	10,0	**PPE-01**	200
PG 9	**PG 11**	6,0	7,0	11,7	20,0	10,5	**PPE-02**	200
	PG 13,5		9,0	11,5	22,0	11,5	**PPE-03**	150
PG 11	**PG 13,5**	6,0	8,5	13,8	22,0	11,5	**PPE-04**	150
	PG 16	6,5	8,5		24,0	10,5	**PPE-05**	
	PG 21		10,0		30,0	14,5	**PPE-06**	
PG 13,5	**PG 16**	6,5	8,5	16,4	24,0	10,5	**PPE-07**	120
	PG 21		10,0	16,5	30,0	14,5	**PPE-08**	
PG 16	**PG 21**	6,5	10,0	17,6	29,7	12,0	**PPE-09**	100
	PG 29	7,0	12,0	17,5	40,0	16,0	**PPE-10**	70
PG 21	**PG 29**	7,0	14,0	24,0	39,0	16,0	**PPE-11**	70
PG 29	**PG 36**	8,0	17,5	32,0	50,0	19,5	**PPE-12**	50
PG 36	**PG 42**	9,0	19,0	38,0	57,0	22,0	**PPE-13**	30
PG 42	**PG 48**	10,0	19,5	49,2	64,0	23,0	**PPE-14**	10



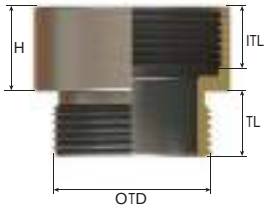
Adaptors
Brass

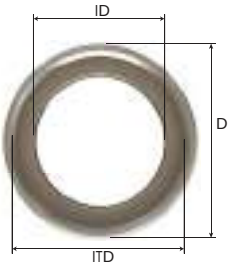
Adaptors for different threads

- For metal machines and housings.
- Adaptors for the transision of different thread types and sizes.

Technical Details

Material	Brass, Nickel plated
Thread Type	• Metric EN 60423 • PG DIN 40430
Accessories	• Lock nuts • Gaskets
Remarks	• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.





Thread Type **METRIC - PG** acc. to EN 60423 / DIN 40430

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Inner Thread Length ITL mm	Inner Ø ID mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
M12x1,5	**PG 9**	6,0	7,0	8,0	17,0	9,0	**MPE-01**	200
M16x1,5	**PG 11**	6,0	7,5	12,0	20,0	9,0	**MPE-02**	150
M20x1,5	**PG 16**	8,0	8,5	16,0	24,0	10,5	**MPE-03**	120
M25x1,5	**PG 21**	9,0	10,0	20,5	30,0	12,5	**MPE-04**	100
M32x1,5	**PG 29**	8,0	13,0	27,5	40,0	16,0	**MPE-05**	70
M40x1,5	**PG 36**	9,0	14,0	35,5	50,0	18,5	**MPE-06**	50
M50x1,5	**PG 42**	9,0	18,0	45,5	57,0	22,0	**MPE-07**	30
M63x1,5	**PG 48**	9,0	18,0	56,0	64,0	23,0	**MPE-08**	20

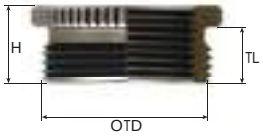
Reducers
Brass

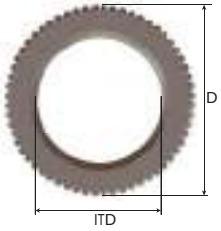
Reducers for different thread sizes

- For metal machines and housings.
- Reducers for the transision of different thread types and sizes.

Technical Details

Material	Brass, Nickel plated
Thread Type	• Metric EN 60423 • PG DIN 40430
Accessories	• Lock nuts • Gaskets
Remarks	• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.





Thread Type **METRIC - METRIC** acc. to EN 60423

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
M16x1,5	**M12x1,5**	6,5	18,0	9,5	**MMR-01**	200
M20x1,5	**M12x1,5**	6,5	22,0	9,5	**MMR-02**	180
	M16x1,5			9,0	**MMR-03**	150
M25x1,5	**M16x1,5**	6,5	28,0	9,0	**MMR-04**	130
	M20x1,5	8,0	30,0	11,5	**MMR-05**	120
M32x1,5	**M20x1,5**	8,0	39,0	11,5	**MMR-06**	100
	M25x1,5				**MMR-07**	
M40x1,5	**M25x1,5**	9,0	50,0	12,5	**MMR-08**	80
	M32x1,5				**MMR-09**	
M50x1,5	**M32x1,5**	10,0	64,0	14,0	**MMR-10**	60
	M40x1,5				**MMR-11**	50
M63x1,5	**M40x1,5**	10,0	71,6	18,0	**MMR-12**	30
	M50x1,5				**MMR-13**	20

Thread Type **PG - METRIC** acc. to DIN 40430 / EN 60423

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
PG 16	**M20x1,5**	6,0	24,0	9,0	**PMR-01**	100
PG 21	**M20x1,5**	7,0	30,0	10,0	**PMR-02**	80
	M25x1,5				**PMR-03**	50
PG 29	**M25x1,5**	8,0	39,0	11,5	**PMR-04**	30

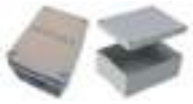
Thread Type **PG - PG** acc. to DIN 40430

Size Outer Thread OTD	Size Inner Thread ITD	Thread Length TL mm	Outer Ø D mm	Height H mm	Part Number	Packing Unit
PG 9	**PG 7**	6,0	17,0	8,5	**PPR-01**	200
PG 11	**PG 7**	6,0	20,0	9,0	**PPR-02**	200
	PG 9				**PPR-03**	
PG 13,5	**PG 7**	6,5	22,0	9,0	**PPR-04**	150
	PG 9				**PPR-05**	
	PG 11				**PPR-06**	
PG 16	**PG 7**	6,5	24,0	9,5	**PPR-07**	120
	PG 9				**PPR-08**	
	PG 11	6,0		9,0	**PPR-09**	100
	PG 13,5				**PPR-10**	
PG 21	**PG 11**	7,0	30,0	10,0	**PPR-11**	80
	PG 13,5				**PPR-12**	
	PG 16				**PPR-13**	
PG 29	**PG 13,5**	8,0	39,0	11,5	**PPR-14**	60
	PG 16				**PPR-15**	
	PG 21			11,4	**PPR-16**	50
PG 36	**PG 21**	9,0	50,0	12,4	**PPR-17**	30
	PG 29	9,1		12,5	**PPR-18**	
PG 42	**PG 29**	10,0	57,0	14,0	**PPR-19**	25
	PG 36			14,1	**PPR-20**	
PG 48	**PG 36**	10,0	64,0	14,0	**PPR-21**	20
	PG 42				**PPR-22**	10

Further Accessories for Metals

Metal
Cable Glands and Accessories
Applications

Plastic & Metal Enclosures



Sata Transmission

Remote Monitoring Systems

Electronic Balast

Control Boxes

Compressors

Low Voltage Fields

Main Low Voltage Switchboards

Transformenrs

Renewable Energy

Power Supply Control & Monitoring

Telecommunication Systems

Switching of Relay
Disconnectors
Contactors
Circuit Breakers

Metal
Cable Glands and Accessories
Applications

Cutch-Brake Units

Low & High Voltage Cabinets

Engine Connections

Machine Control Panels

Marine Asynchronus Motors

Incremental Encoders

Three-Phase Asynchronus Motors

Motor Applications

Electro Powered Cranes

Oil Pump Electrical Cabinets

Junction Boxes

Railway Systems

bimed

Polyamide
PRESSURE BALANCE ELEMENTS
for Industrial Application





Metal
PRESSURE BALANCE ELEMENTS
for Industrial Application





Ventilation Glands
Polyamide

Cable glands with integrated ventilation

- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Advantages of cable gland and pressure balance element combined in one product.
- Properties of the ventilation membrane stay the same independent of cable diameter and torque.
- Membrane properties: hydrophobic, oleophobic.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Cap	PA 6 (Polyamide 6)	
	Seal	CR (Chloroprene Rubber)	
	Vent Membran	PTFE	
	Gasket	NBR	
Protection Class		IP 66 IP 67	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured	
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all colours or sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040032	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes or colours. For more approvals: see our webpage.

Ventilation Glands
Polyamide

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Inner Seal Ø min-max mm	Clamping Range Doble Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,5	2,0 - 6,0	-	8,0	12,0	19	19	21,9	25,5	25	0,1	BMVG-1SR	BMVG-0SR	BMVG-2SR	100
	4,0 - 8,0	3,0 - 5,0									BMVG-1S	BMVG-0S	BMVG-2S	
											BMVGD-1S	BMVGD-0S	BMVGD-2S	
M16x1,5	2,0 - 6,0	-	10,0	16,0	19	19	21,9	25,5	25	0,1	BMVG-11R	BMVG-01R	BMVG-21R	50
	4,0 - 8,0	3,0 - 5,0									BMVG-11	BMVG-01	BMVG-21	
											BMVGD-11	BMVGD-01	BMVGD-21	
M20x1,5	5,0 - 9,0	-	10,0	20,0	24	24	27,0	30,0	40	0,1	BMVG-12R	BMVG-02R	BMVG-22R	50
	6,0 - 12,0	5,0 - 8,5									BMVG-12	BMVG-02	BMVG-22	
											BMVGD-12	BMVGD-02	BMVGD-22	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Inner Seal Ø min-max mm	Clamping Range Doble Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
PG 9	2,0 - 6,0	-	8,0	15,2	19	19	21,9	25,5	25	0,1	BSVG-12R	BSVG-02R	BSVG-22R	50
	4,0 - 8,0	3,0 - 5,0									BSVG-12	BSVG-02	BSVG-22	
											BSVGD-12	BSVGD-02	BSVGD-22	
PG 11	2,0 - 6,0	-	8,0	18,6	22	19	24,9	25,0	25	0,1	BSVG-13R	BSVG-03R	BSVG-23R	50
	4,0 - 8,0	3,0 - 5,0									BSVG-13	BSVG-03	BSVG-23	
											BSVGD-13	BSVGD-03	BSVGD-23	
PG 13,5	5,0 - 9,0	-	9,0	20,4	24	24	27,0	30,0	40	0,1	BSVG-14R	BSVG-04R	BSVG-24R	50
	6,0 - 12,0	5,0 - 8,5									BSVG-14	BSVG-04	BSVG-24	
											BSVGD-14	BSVGD-04	BSVGD-24	

Ventilation Plugs
Polyamide

Ventilation plugs

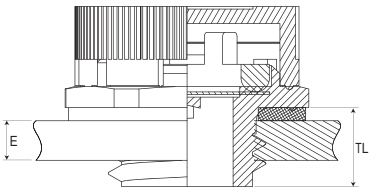
- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Membrane properties: hydrophobic, oleophobic.

Technical Details

Material	**Body**	PA 6 (Polyamide 6)	
	Vent Membran	Acrylic co-polymer on nylon-support	
	O-Ring	NBR	
Protection Class		IP 68 / IP 67 (for water intrusion pressure 0.1 bar)	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • without thread	
Accessories		• Lock nuts • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	

PLASTIC VENTILATION PLUGS ASSEMBLING INSTRUCTIONS

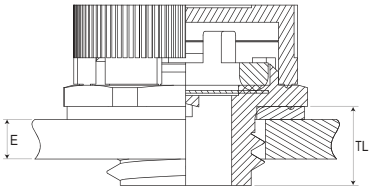
Threaded Enclosure
Flat Gasket Application



E= min. 3,0 mm

Flat Gasket (Ø 18,0 x Ø 10,8 x 1,0) mm

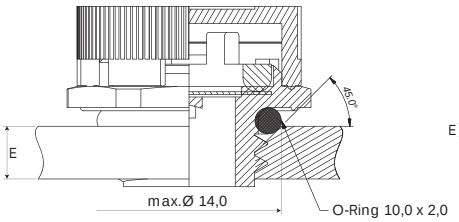
Non Threaded Enclosure
Flat Gasket Application



E= max. 1,0 mm for 6,0 mm plug thread lenght

E= max. 5,0 mm for 10,0 mm plug thread lenght

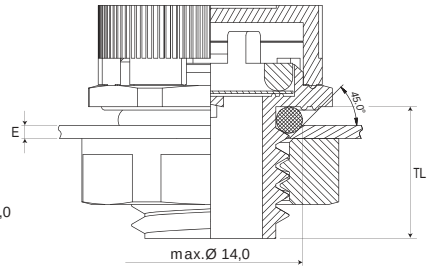
Threaded Enclosure
O-Ring Application



E= min. 4,0 mm

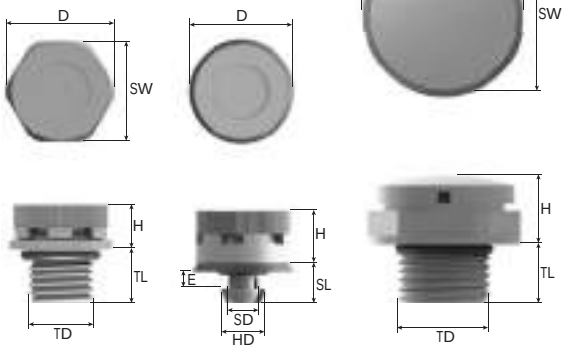
Recomended Plug and Lock Nut tightening troque 0,5 - 1,0 Nm for all types

Non Threaded Enclosure
O-Ring Application



E= max. 1,0 for 6,0 mm Plug thread lenght

E= max. 5,0 for 10,0 mm Plug thread lenght



A B E F

Ventilation Plugs
Polyamide

Thread Type **METRIC** acc. to EN 60423

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Design Type	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
M12x1,0	6,6	12,0	17	18,5	7,6	16	0,9	**A**	**SBVPA-11**	**SBVPA-01**	**SBVPA-21**	500
						25	0,5		**MBVPA-11**	**MBVPA-01**	**MBVPA-21**	
						120	0,2		**HBVPA-11**	**HBVPA-01**	**HBVPA-21**	
						300	0,1		**UHBVPA-11**	**UHBVPA-01**	**UHBVPA-21**	
M12x1,5	6,0	12,0	17	18,5	7,6	16	0,9	**A**	**SBVPB-11**	**SBVPB-01**	**SBVPB-21**	500
	10,0								**SBVPB-11L**	**SBVPB-01L**	**SBVPB-21L**	
	6,0					25	0,5		**MBVPB-11**	**MBVPB-01**	**MBVPB-21**	
	10,0								**MBVPB-11L**	**MBVPB-01L**	**MBVPB-21L**	
	10,0		24	26,0	11,7	42	0,9	**E**	**SBVPD-11**	**SBVPD-01**	**SBVPD-21**	
						120	0,5		**MBVPD-11**	**MBVPD-01**	**MBVPD-21**	
	6,0		17	18,5	7,6	120	0,2	**A**	**HBVPB-11**	**HBVPB-01**	**HBVPB-21**	
	10,0								**HBVPB-11L**	**HBVPB-01L**	**HBVPB-21L**	
	6,0					300	0,1		**UHBVPB-11**	**UHBVPB-01**	**UHBVPB-21**	
	10,0								**UHBVPB-11L**	**UHBVPB-01L**	**UHBVPB-21L**	
			24	26,0	11,7	450	0,2	**E**	**HBVPD-11**	**HBVPD-01**	**HBVPD-21**	
						750	0,1		**UHBVPD-11**	**UHBVPD-01**	**UHBVPD-21**	
M16x1,5	10,0	16,0	24	26,0	11,7	42	0,9	**E**	**SBVPF-11**	**SBVPF-01**	**SBVPF-21**	500
						120	0,5		**MBVPF-11**	**MBVPF-01**	**MBVPF-21**	
						450	0,2		**HBVPF-11**	**HBVPF-01**	**HBVPF-21**	
						750	0,1		**UHBVPF-11**	**UHBVPF-01**	**UHBVPF-21**	
M20x1,5	10,0	20,0	24	26,0	11,7	42	0,9	**E**	**SBVPE-11**	**SBVPE-01**	**SBVPE-21**	500
						120	0,5		**MBVPE-11**	**MBVPE-01**	**MBVPE-21**	
						450	0,2		**HBVPE-11**	**HBVPE-01**	**HBVPE-21**	
						750	0,1		**UHBVPE-11**	**UHBVPE-01**	**UHBVPE-21**	
M40x1,5	18,0	40,0	-	55,3	15,5	120	0,9	**F**	**SBVPX-18S**	**SBVPX-08S**	**SBVPX-28S**	1
						375	0,5		**MBVPX-18S**	**MBVPX-08S**	**MBVPX-28S**	
						1350	0,2		**HBVPX-18S**	**HBVPX-08S**	**HBVPX-28S**	
						2200	0,1		**UHBVPX-18S**	**UHBVPX-08S**	**UHBVPX-28S**	

wall thickness **(E) : 2,5 mm**

Size	Snap Length SL mm	Snap Ø SD mm	Hole max. Ø HD mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Design Type	Part Number RAL 7035 light grey	Part Number RAL 7001 grey	Part Number RAL 9005 black	Packing Unit
Quick Fit 5,5	7,5	5,5	6,4	17,0	9,3	16	0,9	**B**	**SBVQ-M11**	**SBVQ-M01**	**SBVQ-M21**	500
						25	0,5		**MBVQ-M11**	**MBVQ-M01**	**MBVQ-M21**	
						120	0,2		**HBVQ-M11**	**HBVQ-M01**	**HBVQ-M21**	
						300	0,1		**UHBVQ-M11**	**UHBVQ-M01**	**UHBVQ-M21**	

Ventilation Glands
Brass

Cable glands with integrated ventilation

- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Advantages of cable gland and pressure balance element combined in one product.
- Properties of the ventilation membrane stay the same independent of cable diameter and torque.
- Membrane properties: hydrophobic, oleophobic.
- For metal machines and housings.
- For industrial applications in harsh environments.
- Easy assembly: install cable gland - insert cable - tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

Technical Details

Material	**Body**	Brass, Nickel plated	
	Cap	Brass, Nickel plated	
	Seal	CR (Chloroprene Rubber)	
	Clamp. Insert	PA 6 (Polyamide 6)	
	Vent Membran	PTFE	
	O-Ring	NBR	
Protection Class		IP 66 IP 67	
Flammability		V2 according to UL94	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Cable Type		Non armoured	
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Accessories		• Lock nuts • Dome plugs • Gaskets	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

Approvals

	Certificate Number	Standards
VDE	40040032	acc. to DIN EN 62444
UL	E199260	acc. to UL514

Some approvals do not cover all sizes. For more approvals: see our webpage.

Ventilation Glands
Brass

Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Inner Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Part Number	Packing Unit
M12x1,5	2,0 - 6,0	-	6,0	12,0	17	17	18,9	30,5	25	0,1	**BMBCVG-0SR**	50
	4,0 - 8,0										**BMBCVG-0S**	
		3,0 - 5,0									**BMBDVG-0S**	
M16x1,5	2,0 - 6,0	-	5,0	16,0	17	17	18,9	27,0	25	0,1	**BMBCVG-01R**	50
	3,0 - 7,0		8,0		20	20	22,0	33,5	35		**BMBCVG-01LR**	
	4,0 - 8,0		5,0		17	17	18,9	27,0	25		**BMBCVG-01**	
		3,0 - 5,0									**BMBDVG-01**	
	5,0 - 10,0		8,0		20	20	22,0	33,5	35		**BMBCVG-01L**	
		3,0 - 7,0									**BMBDVG-01L**	
M20x1,5	5,0 - 9,0	-	8,0	20,0	22	22	24,5	29,5	50	0,1	**BMBCVG-02R**	50
	6,0 - 12,0										**BMBCVG-02**	
		5,0 - 8,5									**BMBDVG-02**	

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Inner Seal Ø min-max mm	Clamping Range Double Seal Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Part Number	Packing Unit
PG 7	2,0 - 6,0	-	8,0	12,5	17	17	18,9	30,5	25	0,1	**BSBCVG-01R**	50
	4,0 - 8,0										**BSBCVG-01**	
		3,0 - 5,0									**BSBDVG-01**	
PG 9	2,0 - 6,0	-	6,0	15,2	17	17	18,9	27,0	25	0,1	**BSBCVG-02R**	50
	4,0 - 8,0										**BSBCVG-02**	
		3,0 - 5,0									**BSBDVG-02**	
PG 11	3,0 - 7,0	-	8,0	18,6	20	20	22,0	33,5	35	0,1	**BSBCVG-03R**	50
	5,0 - 10,0										**BSBCVG-03**	
		3,0 - 7,0									**BSBDVG-03**	
PG 13,5	5,0 - 9,0	-	6,5	20,4	22	22	24,5	29,5	50	0,1	**BSBCVG-04R**	50
	6,0 - 12,0										**BSBCVG-04**	
		5,0 - 8,5									**BSBDVG-04**	

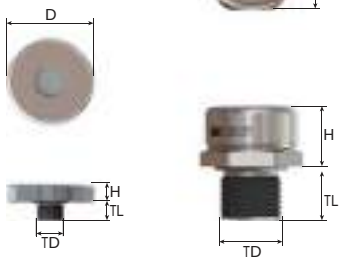
Ventilation Plugs Metal

Ventilation plugs for pressure balancing

- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Membrane properties: hydrophobic, oleophobic.
- For metal machines and housings.
- For industrial applications in harsh environments.

Technical Details

Material	**Body**	Stainless steel / Aluminium	
	Vent Membran	Acrylic co-polymer on nylon-support	
	O-Ring	NBR	
Protection Class		IP 68 / IP 67 (for water intrusion pressure 0.1 bar)	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-30 °C to +150 °C
Thread Type		• Metric EN 60423 • PG DIN 40430 • Other thread types also available upon request.	
Accessories		• Lock nuts • Gaskets	
Remarks		• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.	



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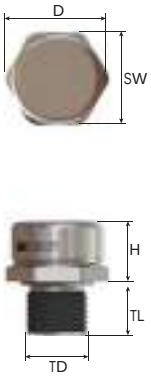


C

D

Ventilation Plugs
Metal

Thread Type **METRIC** acc. to EN 60423 (Stainless Steel)

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Design Type	Part Number	Packing Unit
M12x1,0	10,0	12,0	17	18,8	11,0	16	0,9	C	SBBVP-01S	50
						25	0,5		MBBVP-01S	
						120	0,2		HBBVP-01S	
						300	0,1		UHBBVP-01S	
M12x1,5	6,0	12,0	17	18,8	11,0	16	0,9	C	SBBVP-01	50
	10,0								SBBVP-01L	
	6,0					25	0,5		MBBVP-01	
	10,0								MBBVP-01L	
	6,0					120	0,2		HBBVP-01	
	10,0								HBBVP-01L	
	6,0					300	0,1		UHBBVP-01	
	10,0								UHBBVP-01L	
M16x1,5	6,0	16,0	18	18,8	12,0	16	0,9	C	SBBVP-02	50
					16,0				SBBVP-02L	
					12,0	25	0,5		MBBVP-02	
					16,0				MBBVP-02L	
					12,0	120	0,2		HBBVP-02	
					16,0				HBBVP-02L	
					12,0	300	0,1		UHBBVP-02	
					16,0				UHBBVP-02L	
M20x1,5	6,0	20,0	22	24,5	13,0	16	0,9	C	SBBVP-03	50
					17,0				SBBVP-03L	
					13,0	25	0,5		MBBVP-03	
					17,0				MBBVP-03L	
					13,0	120	0,2		HBBVP-03	
					17,0				HBBVP-03L	
					13,0	300	0,1		UHBBVP-03	
					17,0				UHBBVP-03L	
M40x1,5	10,0	40,0	-	58,0	20,7	120	0,9	D	SBBVPX-05	1
						375	0,5		MBBVPX-05	
						1350	0,2		HBBVPX-05	
						2200	0,1		UHBBVPX-05	

Thread Type **METRIC** acc. to EN 60423 (Aluminium)

Size	Thread Length TL mm	Thread Ø TD mm		Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Design Type	Part Number	Packing Unit
M4x0,7	3	4,0		12,3	2,7	4	0,9	G	SBAVP-01	50
						7	0,5		MBAVP-01	
						35	0,2		HBAVP-01	
						100	0,1		UHBAVP-01	
M8x0,75	8	8,0		12,3	2,7	4	0,9	G	SBAVP-02	50
						7	0,5		MBAVP-02	
						35	0,2		HBAVP-02	
						100	0,1		UHBAVP-02	

Thread Type **PG** acc. to DIN 40430 (Stainless Steel)

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer Ø D mm	max. Height H mm	Average Air Flow for ΔP = 70 mbar l/h	Water Intrusion Pressure bar	Design Type	Part Number	Packing Unit
PG 7	10,5	12,5	17	18,8	11,0	16	0,9	C	SBBVP-0S	50
						25	0,5		MBBVP-0S	
						120	0,2		HBBVP-0S	
						300	0,1		UHBBVP-0S	

Further Accessories for Ventilation Glands & Plugs

Dome Plugs

Dome Plugs		27

Lock Nuts

Plastic Lock Nuts		22-23
Metal Lock Nuts		72

Gaskets

Gaskets		137

Pressure Balance Elements
Applications

Car Head Lamps

Led Lighting & Wall Washer Lighting

Outdoor Linghting

Control Cabinets

Solar Panels

Power Supply

bimed

Plastic
RIGID CONDUIT FITTINGS & ACCESSORIES for Industrial Application





Metal
LIQUID TIGHT CONDUIT FITTINGS & ACCESSORIES for Industrial Application





Straight Conduit Fittings Polyamide

Straight Conduit Fittings, Polyamide

- Halogen free.
- No toxic fumes when involved in a fire.
- For flexible spiral conduits.
- One side with standard metric or PG thread and special thread for conduit spiral on the other side.

Technical Details

Material	Polyamide 6 Halogene free
Protection Class	IP 54
Operating Temperature	**Permanent**
	-20 °C to +80 °C
Thread Type	Metric, according to EN 60423 PG, according to DIN 40430
Accessories	• Lock nuts
Remarks	• We recommend the use of lock nuts to ensure IP rating for rough surfaces or through holes.

Thread Type **METRIC** acc. to EN 60423

Size	Conduit Size	Thread Length TL mm	Thread Ø TD mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16x1,5	12,0 x 15,0	8,0	16,0	18,5	10,0	21,3	**BCM-01**	50
M20x1,5	15,0 x 19,0	8,0	20,0	22,7	15,0	24,5	**BCM-02**	50
	16,0 x 21,0	9,0		24,5	13,0	25,5	**BCM-03**	
M25x1,5	18,0 x 22,0	10,0	25,0	26,0	18,0	25,5	**BCM-04**	50
M32x1,5	23,1 x 28,3	11,0	32,0	32,0	27,0	27,5	**BCM-05**	25
M40x1,5	31,0 x 36,4	11,0	40,0	41,0	31,8	32,5	**BCM-06**	10
M50x1,5	40,0 x 46,2	14,0	50,0	51,9	40,5	39,8	**BCM-07**	10
M63x1,5	50,5 x 57,0	14,0	63,0	61,9	51,0	43,0	**BCM-08**	10

Thread Type **PG** acc. to DIN 40430

Size	Conduit Size	Thread Length TL mm	Thread Ø TD mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
Pg 7	10,0 x 12,8	8	12,40	21,3	16,0	7,0	**BCF-01**	100
Pg 9	12,0 x 15,0	8	15,00	21,3	18,5	10,0	**BCF-02**	50
Pg 11	15,0 x 19,0	8	18,40	24,5	22,5	13,5	**BCF-03**	50
Pg 13,5	16,0 x 21,0	9	20,30	25,5	24,5	14,5	**BCF-04**	50
Pg 16	18,0 x 22,0	10	22,40	25,5	26,0	16,0	**BCF-05**	25
Pg 21	23,1 x 28,3	11	28,15	27,5	32,0	21,5	**BCF-06**	25
Pg 29	31,0 x 36,4	11	36,80	32,5	41,0	31,8	**BCF-07**	10
Pg 36	40,0 x 46,2	14	46,80	39,8	52,0	41,0	**BCF-08**	10
Pg 48	50,5 x 57,0	14	59,15	43,0	61,9	51,5	**BCF-09**	10

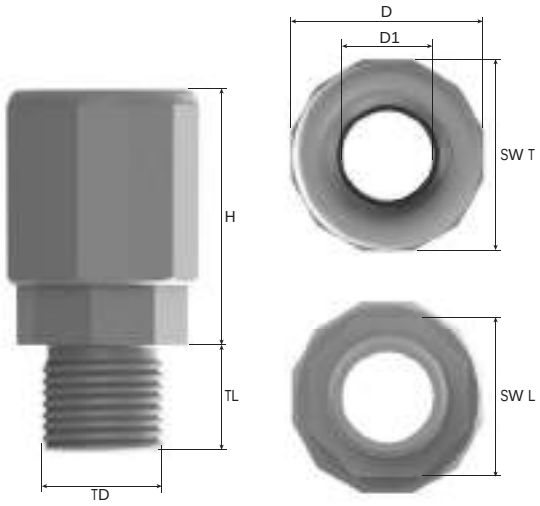
Enclosure Couplings Polyamide

Enclosure Coupling

- Halogen free.
- No toxic fumes when involved in a fire.
- For conduit tubes.
- One side with standard metric threads and special fitting for conduit tubes on the other side.

Technical Details

Material	**Fitting**	Polyamide 6 Halogene free
	Seal	TPE V0 Halogene free
Protection Class		IP 67
Operating Temperature		**Permanent**
		-20 °C to +80 °C
Thread Type		Metric, according to EN 60423 and EN 62444
Accessories		Lock nuts
Remarks		• We recommend the use of lock nuts to ensure IP rating for rough surfaces or through holes.



Thread Type **METRIC** acc. to EN 60423

Size	Conduit Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Body T mm	Spanner Width SW Body L mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16x1,5	16,0	14	16	26	21	26,3	16,5	34,7	**BRCF-01**	10
M20x1,5	20,0	14	20	30	25	31,1	20,5	34,7	**BRCF-02**	10
M25x1,5	25,0	14	25	35	30	36,0	25,1	34,7	**BRCF-03**	10
M32x1,5	32,0	14	32	42	37	43,2	32,6	34,5	**BRCF-04**	10
M40x1,5	40,0	19	40	50	45	51,5	40,4	42,5	**BRCF-05**	10
M50x1,5	50,0	19	50	62	55	63,4	50,7	42,5	**BRCF-06**	5

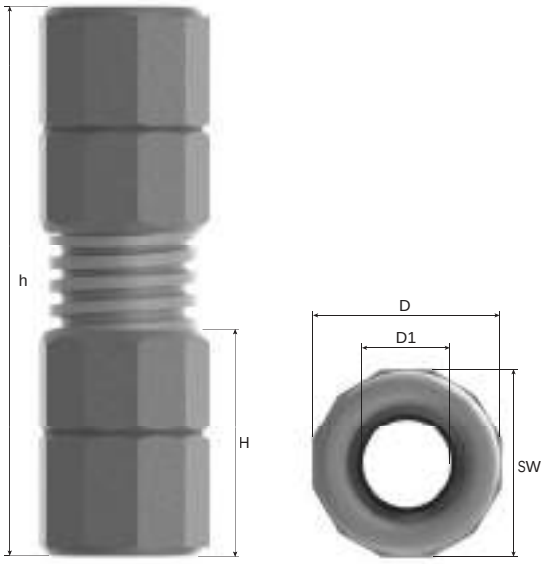
Flexible Fittings Polyamide

Flexible Fitting Set

- Halogen free.
- No toxic fumes when involved in a fire.
- For conduit tubes.
- For all kind of curves in electrical installations.
- Combination of two conduit unions with a flexible conduit.

Technical Details

Material	**Fitting**	Polyamide 6 Halogene free
	Seal	TPE V0 Halogene free
Protection Class		IP 67
Operating Temperature		**Permanent**
		-20 °C to +80 °C
Remarks		• It is the combination of two conduit unions with a suitable flexible conduit. • It may be used for all kind of curves in the electrical installation. • This set can be easily fitted with the right conduits.



Flexible Fitting Set

Size	Conduit Size	Fitting set Length h mm	Spanner Width SW Body mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16	16,0	210	26	26	16,5	48,6	**BRC90F-01**	10
M20	20,0	240	30	31	20,4	48,0	**BRC90F-02**	10
M25	25,0	290	35	36	25,3	49,0	**BRC90F-03**	10
M32	32,0	400	42	43	32,2	49,0	**BRC90F-04**	10
M40	40,0	420	50	52	40,5	61,5	**BRC90F-05**	10
M50	50,0	440	62	63	50,5	61,5	**BRC90F-06**	5

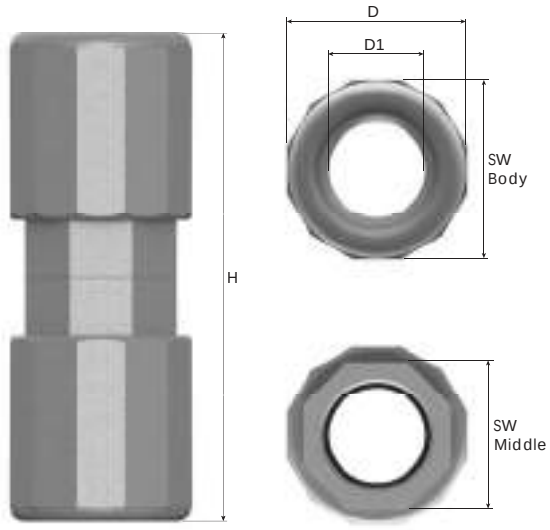
Straight Couplings Polyamide

Straight Coupling

- Halogen free.
- No toxic fumes when involved in a fire.
- For conneting two conduit tubes.

Technical Details

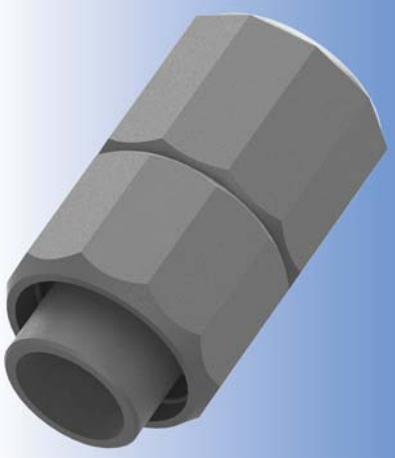
Material	**Fitting**	Polyamide 6 Halogene free
	Seal	TPE V0 Halogene free
Protection Class		IP 67
Operating Temperature		**Permanent**
		-20 °C to +80 °C



Straight Coupling

Size	Conduit Size	Spanner Width SW Body mm	Spanner Width SW Middle mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16	16,0	26	21	26,3	16,3	69,5	**BRCC-01**	10
M20	20,0	30	25	31,0	20,3	67,3	**BRCC-02**	10
M25	25,0	35	30	36,0	25,3	69,4	**BRCC-03**	10
M32	32,0	42	37	43,5	32,2	69,5	**BRCC-04**	10
M40	40,0	50	45	52,0	40,4	85,0	**BRCC-05**	10
M50	50,0	62	55	63,3	50,0	85,0	**BRCC-06**	5

Conduit Union
Polyamide

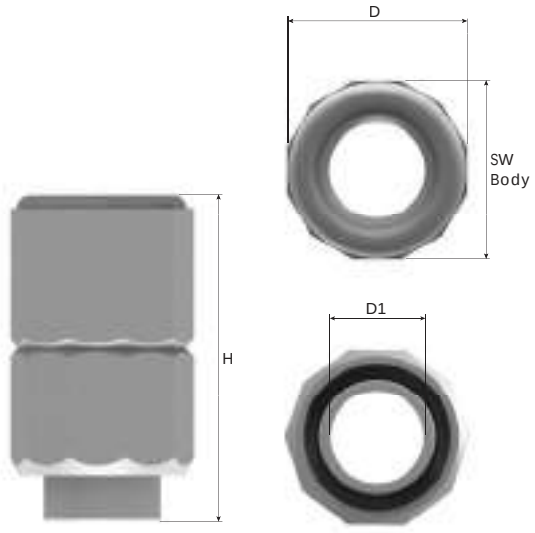


Conduit Union

- Halogen free.
- No toxic fumes when involved in a fire.
- For conneting flexible conduits with conduit tubes.

Technical Details

Material	**Fitting**	Polyamide 6 Halogene free
	Seal	TPE V0 Halogene free
Protection Class		IP 67
Operating Temperature		**Permanent**
		-20 °C to +80 °C



Conduit Union

Size	Conduit Size	Spanner Width SW Body mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16	16,5	26	26	12,0	49,0	**BRCM-01**	10
M20	20,4	30	31	16,0	49,0	**BRCM-02**	10
M25	25,3	35	36	20,5	49,0	**BRCM-03**	10
M32	32,3	42	43	26,0	49,0	**BRCM-04**	10
M40	40,4	50	52	33,5	61,5	**BRCM-05**	10
M50	50,5	62	63	44,0	61,5	**BRCM-06**	5

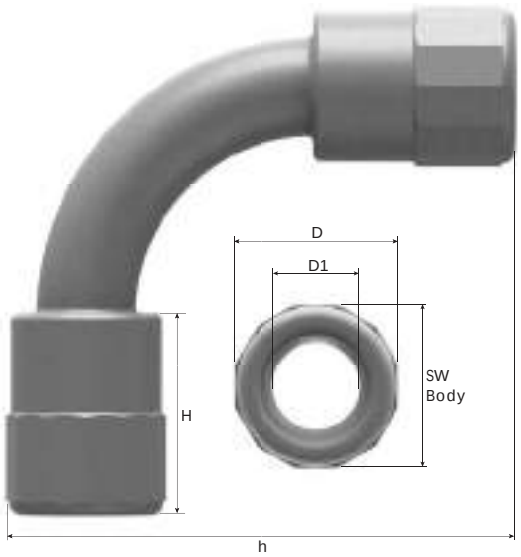
Bend Couplings Polyamide

Bend Coupling

- Halogen free.
- No toxic fumes when involved in a fire.
- For conneting two conduit tubes by a 90° tube.

Technical Details

Material	**Fitting**	Polyamide 6 Halogene free
	Seal	TPE V0 Halogene free
Protection Class		IP 67
Operating Temperature		**Permanent**
		-20 °C to +80 °C



Bend Coupling

Size	Conduit Size	Fitting Length h mm	Spanner Width SW Body mm	Outer Ø D mm	Inner Ø D1 mm	Height H mm	Part Number RAL 7035 light grey	Packing Unit
M16	16,0	78	26	26	16,4	32,8	**BRC90R-01**	10
M20	20,0	90	30	31	20,4	32,5	**BRC90R-02**	10
M25	25,0	107	35	36	25,4	32,5	**BRC90R-03**	10
M32	32,0	114	42	43	32,0	32,8	**BRC90R-04**	10
M40	40,0	138	50	52	40,2	32,8	**BRC90R-05**	10

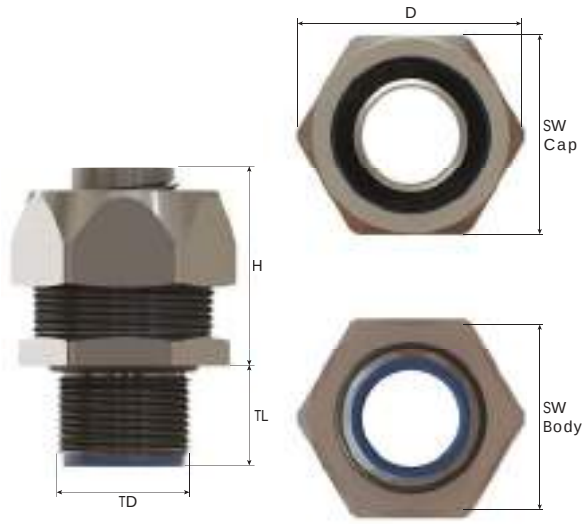
Liquid Tight Conduit Fittings Straight (Male), Brass

Liquid Tight Conduit Fittings Straight (Male), Brass

- Fittings for Sealtite conduits.
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Great corrosion protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Cap**	Brass, Nickel plated			
	Body	Brass, Nickel Plated			
	Ferrule	Brass nickel plated or Steel zinc plated			
	Prot.Bushing	Polyamide 6 V2	**Metric**	**Pg**	**Npt**
	Seal Ring	Polyamide 6 V2			
	O-Ring	NBR			
Protection Class		IP 65 IP 66			
Operating Temperature		**Permanent**			
		-45 °C to +105 °C			
Cable Type		Non armoured			
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1			
Accessories		• Lock nuts			
Remarks		• Also available in Stainless Steel			



Liquid Tight Conduit Fittings
Straight (Male), Brass

Thread Type **METRIC** acc. to EN 60423

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M12x1,5	1/4"	5,2	10,0	12,0	22,0	20,0	24,5	21,0	**BBFM-01**	50
M16x1,5	5/16"	8,3	11,5	16,0	26,0	24,0	29,0	23,5	**BBFM-02(S)**	50
	3/8"	10,2						23,0	**BBFM-02**	
M20x1,5	3/8"	10,2	13,0	20,0	26,0	24,0	29,0	23,5	**BBFM-03(S)**	50
	1/2"	13,5			29,0	27,0	32,7	24,5	**BBFM-03**	
M25x1,5	3/4"	18,5	15,0	25,0	35,0	33,0	38,7	24,5	**BBFM-04**	25
M32x1,5	1"	23,5	15,0	32,0	45,0	43,0	50,0	32,0	**BBFM-05**	10
M40x1,5	1 1/4"	31,8	16,0	40,0	54,0	52,0	60,0	36,5	**BBFM-06**	5
M50x1,5	1 1/2"	36,8	18,0	50,0	63,0	60,0	69,3	38,5	**BBFM-07**	5
M63x1,5	2"	47,8	20,0	63,0	77,0	74,0	85,0	45,0	**BBFM-08**	4

Thread Type **PG** acc. to DIN 40430

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
Pg 7	1/4"	5,2	10,0	12,5	22,0	20,0	24,5	20,5	**BBFB-01**	50
Pg 9	1/4"	5,2	10,0	15,2	22,0	20,0	24,5	20,5	**BBFB-02**	50
	5/16"	8,3							**BBFB-02(A)**	
			11,5		26,0	24,0	29,0	23,5	**BBFB-02(B)**	
	3/8"	10,2							**BBFB-02(C)**	
Pg 11	3/8"	10,2	11,5	18,6	26,0	24,0	29,0	23,5	**BBFB-03**	25
Pg 13,5	3/8"	10,2	11,5	20,4	26,0	24,0	29,0	23,5	**BBFB-04**	10
Pg 16	1/2"	13,5	13,0	22,5	29,0	27,0	32,7	24,0	**BBFB-05**	5
Pg 21	3/4"	18,5	15,0	28,3	35,0	33,0	38,7	24,5	**BBFB-06**	5
Pg 29	1"	23,5	15,0	37,0	45,0	43,0	50,0	32,0	**BBFB-07**	4
Pg 36	1 1/4"	31,8	16,0	47,0	54,0	52,0	60,0	36,5	**BBFB-08**	4
Pg 42	1 1/2"	36,8	18,0	54,0	63,0	60,0	69,3	39,0	**BBFB-09**	2
Pg 48	2"	47,8	20,0	59,3	77,0	74,0	85,0	44,5	**BBFB-10**	2

Thread Type **NPT** acc. to ANSI B1.20.1

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
Npt 1/4"	1/4"	5,2	10,0	13,7	22,0	20,0	24,5	20,5	**BBFN-0S**	50
Npt 3/8"	3/8"	10,2	10,0	17,1	22,0	20,0	24,5	23,5	**BBFN-01(S)**	50
			11,5		26,0	24,0	29,0		**BBFN-01**	
Npt 1/2"	3/8"	10,2	13,0	21,3	26,0	24,0	29,0	23,5	**BBFN-02(S)**	25
	1/2"	13,6			29,0	27,0	32,7	24,0	**BBFN-02**	10
Npt 3/4"	3/4"	18,5	15,0	26,7	35,0	33,0	38,7	24,5	**BBFN-03**	5
Npt 1"	1"	23,5	15,0	33,4	45,0	43,0	50,0	31,5	**BBFN-04**	5
Npt 1 1/4"	1 1/4"	31,8	16,0	42,2	54,0	52,0	60,0	37,0	**BBFN-05**	4
Npt 1 1/2"	1 1/2"	36,8	18,0	48,3	63,0	60,0	69,3	38,5	**BBFN-06**	2
Npt 2"	2"	47,8	20,0	60,3	77,0	74,0	85,0	45,5	**BBFN-07**	2

Liquid Tight Conduit Fittings (45°), Brass

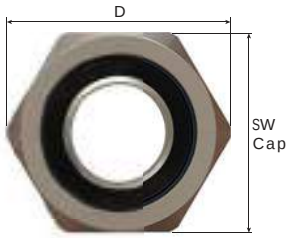
Liquid Tight Conduit Fittings 45°, Brass

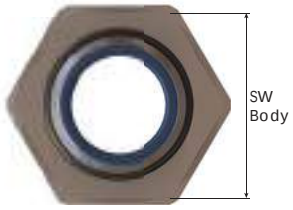
- Fittings for Sealtite conduits.
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Great corrosion protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Cap**	Brass, Nickel plated			
	Body	Brass, Nickel Plated			
	Ferrule	Brass nickel plated or Steel zinc plated			
	Prot.Bushing	Polyamide 6 V2	**Metric**	**Pg**	**Npt**
	Seal Ring	Polyamide 6 V2			
	O-Ring	NBR			
Protection Class		IP 65 IP 66			
Operating Temperature		**Permanent**			
		-45 °C to +105 °C			
Cable Type		Non armoures			
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1			
Accessories		• Lock nuts			
Remarks		• Also available in Stainless Steel			

Liquid Tight Conduit Fittings 45°, Brass





Thread Type **METRIC** acc. to EN 60423

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
M16x1,5	5/16"	8,3	11,5	16,0	26,0	22,0	29,0	**BBFM-02(S) 45**	50
	3/8"	10,2						**BBFM-02 45**	
M20x1,5	3/8"	10,2	13,0	20,0	26,0	22,0	29,0	**BBFM-03(S) 45**	50
	1/2"	13,5			29,0	27,0	32,7	**BBFM-03 45**	
M25x1,5	3/4"	18,5	15,0	25,0	35,0	33,0	38,7	**BBFM-04 45**	25
M32x1,5	1"	23,5	15,0	32,0	45,0	42,0	50,0	**BBFM-05 45**	10
M40x1,5	1 1/4"	31,8	16,0	40,0	54,0	51,0	60,0	**BBFM-06 45**	5
M50x1,5	1 1/2"	36,8	18,0	50,0	63,0	60,0	69,3	**BBFM-07 45**	5
M63x1,5	2"	47,8	20,0	63,0	77,0	74,0	85,0	**BBFM-08 45**	4

Thread Type **PG** acc. to DIN 40430

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
Pg 11	5/16"	8,3	11,5	18,6	26,0	22,0	29,0	**BBFB-03(S) 45**	50
	3/8"	10,2						**BBFB-03 45**	
Pg 13,5	3/8"	10,2	11,5	20,4	26,0	22,0	29,0	**BBFB-04 45**	50
Pg 16	1/2"	13,5	13,0	22,5	29,0	27,0	32,7	**BBFB-05 45**	50
Pg 21	3/4"	18,5	15,0	28,3	35,0	33,0	38,7	**BBFB-06 45**	25
Pg 29	1"	23,5	15,0	37,0	45,0	42,0	50,0	**BBFB-07 45**	10
Pg 36	1 1/4"	31,8	16,0	47,0	54,0	51,0	60,0	**BBFB-08 45**	5
Pg 42	1 1/2"	36,8	18,0	54,0	63,0	60,0	69,3	**BBFB-09 45**	5
Pg 48	2"	47,8	20,0	59,3	77,0	74,0	85,0	**BBFB-10 45**	4

Thread Type **NPT** acc. to ANSI B1.20.1

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
Npt 1/2"	3/8"	10,2	13,0	21,3	26,0	22,0	29,0	**BBFN-02(S) 45**	50
	1/2"	13,5			29,0	27,0	32,7	**BBFN-02 45**	
Npt 3/4"	3/4"	18,5	15,0	26,7	35,0	33,0	38,7	**BBFN-03 45**	25
Npt 1"	1"	23,5	15,0	33,4	45,0	42,0	50,0	**BBFN-04 45**	10
Npt 1 1/4"	1 1/4"	31,8	16,0	42,2	54,0	51,0	60,0	**BBFN-05 45**	5
Npt 1 1/2"	1 1/2"	36,8	18,0	48,3	63,0	60,0	69,3	**BBFN-06 45**	5
Npt 2"	2"	47,8	20,0	60,3	77,0	74,0	85,0	**BBFN-07 45**	4

Liquid Tight Conduit Fittings (90°), Brass

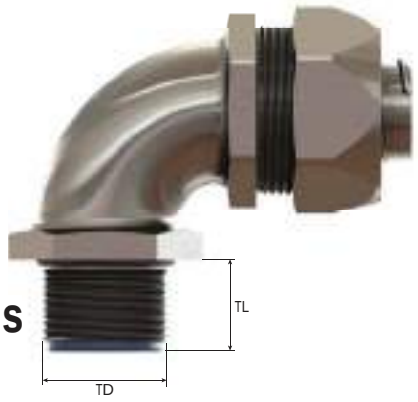
Liquid Tight Conduit Fittings (90°), Brass

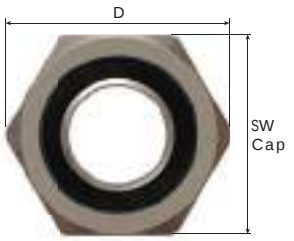
- Fittings for Sealtite conduits.
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Great corrosion protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

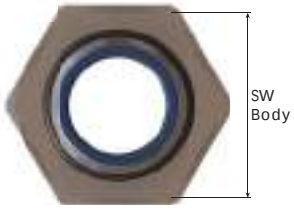
Technical Details

Material	**Cap**	Brass, Nickel plated			
	Body	Brass, Nickel Plated			
	Ferrule	Brass nickel plated or Steel zinc plated			
	Prot.Bushing	Polyamide 6 V2	**Metric**	**Pg**	**Npt**
	Seal Ring	Polyamide 6 V2			
	O-Ring	NBR			
Protection Class		IP 65 IP 66			
Operating Temperature		**Permanent**			
		-45 °C to +105 °C			
Cable Type		Non armoured			
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1			
Accessories		• Lock nuts			
Remarks		• Also available in Stainless Steel			

Liquid Tight Conduit Fittings (90°), Brass







Thread Type **METRIC** acc. to EN 60423

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
M16x1,5	5/16"	8,3	11,5	16,0	26,0	22,0	29,0	**BBFM-02(S) 90**	50
	3/8"	10,2						**BBFM-02 90**	
M20x1,5	3/8"	10,2	13,0	20,0	26,0	22,0	29,0	**BBFM-03(S) 90**	50
	1/2"	13,5			29,0	27,0	32,7	**BBFM-03 90**	
M25x1,5	3/4"	18,5	15,0	25,0	35,0	33,0	38,7	**BBFM-04 90**	25
M32x1,5	1"	23,5	15,0	32,0	45,0	42,0	50,0	**BBFM-05 90**	10
M40x1,5	1 1/4"	31,8	16,0	40,0	54,0	51,0	60,0	**BBFM-06 90**	5
M50x1,5	1 1/2"	36,8	18,0	50,0	63,0	60,0	69,3	**BBFM-07 90**	5
M63x1,5	2"	47,8	20,0	63,0	77,0	74,0	85,0	**BBFM-08 90**	4

Thread Type **PG** acc. to DIN 40430

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
Pg 11	5/16"	8,3	11,5	18,6	26,0	22,0	29,0	**BBFB-03(S) 90**	50
	3/8"	10,2						**BBFB-03 90**	
Pg 13,5	3/8"	10,2	11,5	20,4	26,0	22,0	29,0	**BBFB-04 90**	50
Pg 16	1/2"	13,5	13,0	22,5	29,0	27,0	32,7	**BBFB-05 90**	50
Pg 21	3/4"	18,5	15,0	28,3	35,0	33,0	38,7	**BBFB-06 90**	25
Pg 29	1"	23,5	15,0	37,0	45,0	42,0	50,0	**BBFB-07 90**	10
Pg 36	1 1/4"	31,8	16,0	47,0	54,0	51,0	60,0	**BBFB-08 90**	5
Pg 42	1 1/2"	36,8	18,0	54,0	63,0	60,0	69,3	**BBFB-09 90**	5
Pg 48	2"	47,8	20,0	59,3	77,0	74,0	85,0	**BBFB-10 90**	4

Thread Type **NPT** acc. to ANSI B1.20.1

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	Part Number	Packing Unit
Npt 1/2"	3/8"	10,2	13,0	21,3	26,0	22,0	29,0	**BBFN-02(S) 90**	50
	1/2"	13,5			29,0	27,0	32,7	**BBFN-02 90**	
Npt 3/4"	3/4"	18,5	15,0	26,7	35,0	33,0	38,7	**BBFN-03 90**	25
Npt 1"	1"	23,5	15,0	33,4	45,0	42,0	50,0	**BBFN-04 90**	10
Npt 1 1/4"	1 1/4"	31,8	16,0	42,2	54,0	51,0	60,0	**BBFN-05 90**	5
Npt 1 1/2"	1 1/2"	36,8	18,0	48,3	63,0	60,0	69,3	**BBFN-06 90**	5
Npt 2"	2"	47,8	20,0	60,3	77,0	74,0	85,0	**BBFN-07 90**	4

Liquid Tight Conduit Fittings (Straight), Female

Liquid Tight Conduit Fittings Straight (Female), Brass

- Fittings for Sealtite conduits.
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Great corrosion protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Cap**	Brass, Nickel plated
	Body	Brass, Nickel Plated
	Ferrule	Brass nickel plated or Steel zinc plated
	Seal Ring	Polyamide 6 V2
	O-Ring	NBR
Protection Class		IP 65 IP 66
Operating Temperature		**Permanent**
		-45 °C to +105 °C
Cable Type		Non armoured
Thread Type		• Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1

Liquid Tight Conduit Fittings (Straight), Female

Thread Type **METRIC** acc. to EN 60423

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	5/16"	8,3	11,5	16,0	26,0	24,0	29,0	23,5	**BBFM-02(S) F**	50
	3/8"	10,2						23,0	**BBFM-02 F**	
M20x1,5	1/2"	13,5	13,0	20,0	29,0	27,0	32,7	24,5	**BBFM-03 F**	50
M25x1,5	3/4"	18,5	15,0	25,0	35,0	33,0	38,7	24,5	**BBFM-04 F**	25
M32x1,5	1"	23,5	15,0	32,0	45,0	43,0	50,0	32,0	**BBFM-05 F**	10
M40x1,5	1 1/4"	31,8	16,0	40,0	54,0	52,0	60,0	36,5	**BBFM-06 F**	5
M50x1,5	1 1/2"	36,8	18,0	50,0	63,0	60,0	69,3	38,5	**BBFM-07 F**	5
M63x1,5	2"	47,8	20,0	63,0	77,0	74,0	85,0	45,0	**BBFM-08 F**	4

Thread Type **PG** acc. to DIN 40430

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
Pg 11	5/16"	8,3	11,5	18,6	26,0	24,0	29,0	23,5	**BBFB-03(S) F**	50
	3/8"	10,2							**BBFB-03 F**	
Pg 13,5	3/8"	10,2	11,5	20,4	26,0	24,0	29,0	23,5	**BBFB-04 F**	50
Pg 16	1/2"	13,5	13,0	22,5	29,0	27,0	32,7	24,0	**BBFB-05 F**	50
Pg 21	3/4"	18,5	15,0	28,3	35,0	33,0	38,7	24,5	**BBFB-06 F**	25
Pg 29	1"	23,5	15,0	37,0	45,0	43,0	50,0	32,0	**BBFB-07 F**	10
Pg 36	1 1/4"	31,8	16,0	47,0	54,0	52,0	60,0	36,5	**BBFB-08 F**	5
Pg 42	1 1/2"	36,8	18,0	54,0	63,0	60,0	69,3	39,0	**BBFB-09 F**	5
Pg 48	2"	47,8	20,0	59,3	77,0	74,0	85,0	44,5	**BBFB-10 F**	4

Thread Type **NPT** acc. to ANSI B1.20.1

Size	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
Npt 1/2	3/8"	10,2	13,0	21,3	26,0	24,0	29,0	23,5	**BBFN-02(S) F**	50
	1/2"	13,5			29,0	27,0	32,7	24,0	**BBFN-02 F**	
Npt 3/4	3/4"	18,5	15,0	26,7	35,0	33,0	38,7	24,5	**BBFN-03 F**	25
Npt 1	1"	23,5	15,0	33,4	45,0	43,0	50,0	31,5	**BBFN-04 F**	10
Npt 1 1//4	1 1/4"	31,8	16,0	42,2	54,0	52,0	60,0	37,0	**BBFN-05 F**	5
Npt 1 1/2	1 1/2"	36,8	18,0	48,3	63,0	60,0	69,3	38,5	**BBFN-06 F**	5
Npt 2	2"	47,8	20,0	60,3	77,0	74,0	85,0	45,5	**BBFN-07 F**	4

Liquid Tight Cable Hose Fittings (Male), Brass

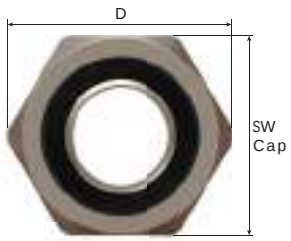
Liquid Tight Cable Hose Fittings (Male), Brass

- Conduit fittings with integrated cable gland – safe clamping and sealing of the cable
- Fittings for Sealtite conduits.
- For metal machines and housings.
- For standard industrial applications in harsh environments.
- Great corrosion protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	**Cap**	Brass, Nickel plated
	Body	Brass, Nickel Plated
	Ferrule	Brass nickel plated or Steel zinc plated
	Seal Ring	Polyamide 6 V2
	O-Ring	NBR
Protection Class		IP 65 IP 66
Operating Temperature		**Permanent**
		-45 °C to +105 °C
Cable Type		Non armoured
Thread Type		• Metric EN 60423 • PG DIN 40430
Accessories		• Lock nuts

Liquid Tight Cable Hose Fittings (Male), Brass



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW M. Body mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
M16x1,5	4,0 - 8,0	5/16"	8,3	12,0	16,0	26,0	24,0	18,0	29,0	47,0	**BBFM-02(S) CH**	50
		3/8"	10,2								**BBFM-02 CH**	
M20x1,5	6,0 - 10,0	3/8"	10,2	12,0	20,0	26,0	24,0	22,0	29,0	47,0	**BBFM-03(S) CH**	25
	6,0 - 12,0	1/2"	13,5			29,0	27,0		32,7	48,2	**BBFM-03 CH**	
M25x1,5	13,0 - 18,0	3/4"	18,5	12,0	25,0	29,0	33,0	30,0	38,7	61,5	**BBFM-04 CH**	25
M32x1,5	18,0 - 23,5	1"	23,5	15,0	32,0	35,0	43,0	40,0	50,0	73,0	**BBFM-05 CH**	25
M40x1,5	22,0 - 31,5	1 1/4"	31,8	15,0	40,0	45,0	52,0	50,0	58,3	86,5	**BBFM-06 CH**	10

Thread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max mm	For Sealtite Nominal Size inch	Max. Internal Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW M. Body mm	Spanner Width SW Body mm	Outer Ø D mm	max. Height H mm	Part Number	Packing Unit
Pg 9	4,0 - 8,0	5/16"	8,3	12,0	15,2	26,0	24,0	17,0	29,0	47,0	**BBFB-02(S) CH**	50
		3/8"	10,2								**BBFB-02 CH**	
Pg 11	5,0 - 10,0	3/8"	10,2	15,0	18,6	26,0	24,0	20,0	29,0	47,0	**BBFB-03 CH**	50
Pg 13,5	6,0 - 10,0	3/8"	10,2	15,0	20,4	26,0	24,0	22,0	29,0	47,0	**BBFB-04 CH**	25
Pg 16	10,0 - 14,0	1/2"	13,5	15,0	22,5	29,0	27,0	24,0	32,7	51,5	**BBFB-05 CH**	25
Pg 21	13,0 - 18,0	3/4"	18,5	15,0	28,3	35,0	33,0	30,0	38,7	56,5	**BBFB-06 CH**	25
Pg 29	18,0 - 25,0	1"	23,5	15,0	37,0	45,0	43,0	40,0	50,0	67,5	**BBFB-07 CH**	10

Straight Swivel Fittings
Male

Technical Details	
Material	Brass, Nickel plated or Stainless Steel AISI 303
Thread Type	Metric acc. to EN 60423

Ferrules

Size	Max. Internal Ø mm	Thread Length TL mm	Part Number	Packing Unit
M12x1,5	1/4"	8,0	**BMSSW-0S**	500
M16x1,5	1/4"	10,0	**BMSSW-01**	500

Ferrules for Fittings

Technical Details	
Material	(R) Brass Nickel Plated or (S) Steel Zinc Plated

Ferrules

For Sealtite Ø inch	Max. Internal Ø mm	Part Number	Packing Unit
1/4"	5,2	**FER-01**	100
5/16"	8,3	**FER-02**	100
3/8"	10,2	**FES-03**	100
1/2"	13,5	**FES-04**	100
3/4"	18,5	**FES-05**	100
1"	23,5	**FES-06**	50
1 1/4"	31,8	**FER-07**	30
1 1/2"	36,8	**FER-08**	20
2"	47,8	**FER-09**	20
2 1/2"	59,1	**FER-10**	10

Further Accessories for Fittings

Lock Nuts

Polyamide Lock Nuts	
	22
Polyamide Lock Nuts without Flange	
	23
Metal Lock Nuts	
	72

Rigid & Liquid Tight Conduit Fittings Applications

Machine Tools

Transformer Connections

Wet and Corrosive enviroments, including power generations, petrochemical, papaer mills, food, beverage, pharmaceutical plants and anywhere high performance is required.

Console Wiring

Computer Power Distrubution

Motor Applications

Oiltight, Liquidtight or Raintight box and enclosures

Air Conditioning and Heating

Outdoor Lighting

Flexibility and Protection against entry liquids, vapors or solids, such as machine tool building, robotic assembly

bimed

Stainless Steel
HYGIENIC GLANDS
for Industrial Application





Stainless Steel
Liquidtight
HYGIENIC CONDUIT FITTINGS
for Industrial Application





Hygienic Glands
Stainless Steel

Cable glands for hygienic requirements

- For applications in manufacturing and packaging of food and pharmaceuticals, clean room technology, biotechnology, chemical industry.
- Smooth finish prevents harmful micro organisms to adhere on the surface.
- No threads are exposed.
- Gasket material according to FDA guideline 21 CFR 177.2600.
- Cleaning of cable glands is easier, faster and less expensive.
- Reliable strain relief due to strain relief element separated from grommet.
- Suitable for high pressure steam cleaning.
- Lock nut included.
- Assembling tool included.

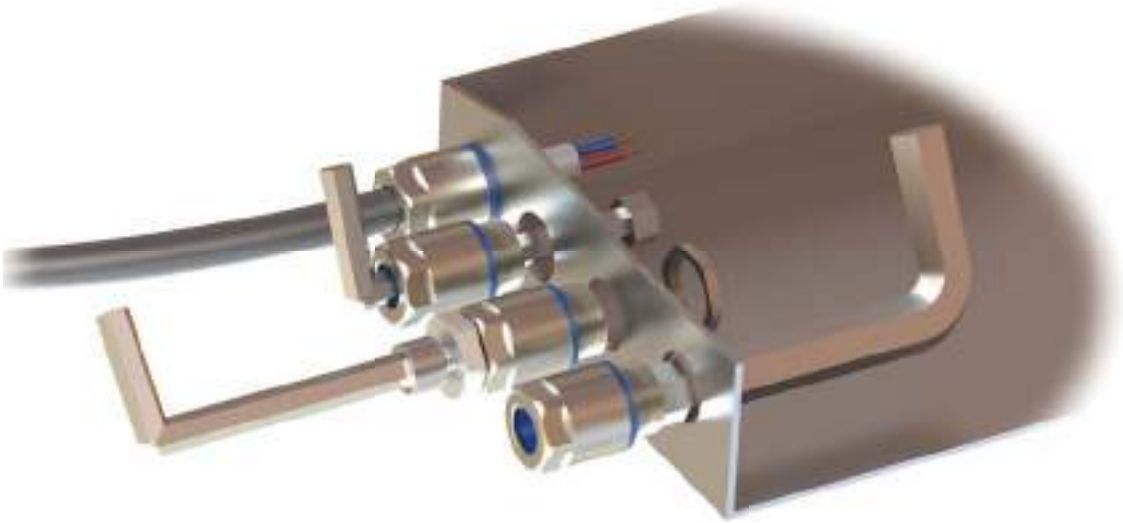
Technical Details

Material	**Body**	Stainless steel 1.4305 (AISI 303)	
	Cap	Stainless steel 1.4305 (AISI 303)	
	Clamp. Insert	POM	
	Gasket	TPE	
	Lock Nut	Stainless steel 1.4305 (AISI 303)	
Protection Class		IP 68 - 5 Bar, 30 min IP 69	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Cable Type		Non armoured	
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Accessories		• Lock nuts (included) • Dome plugs • Assembling tools	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet.	

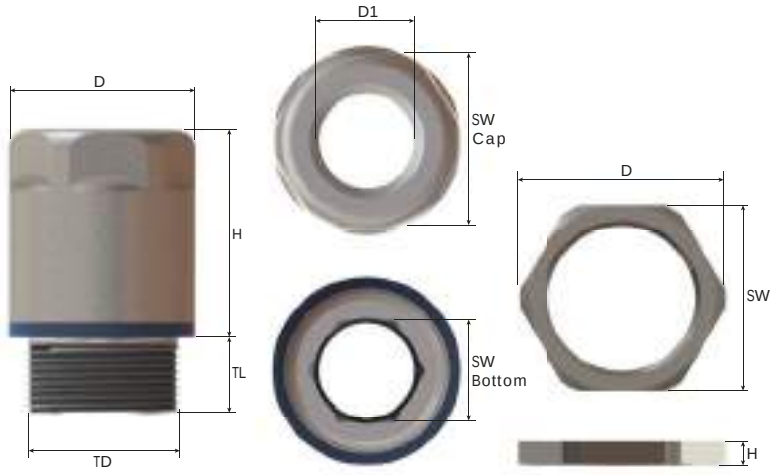
Approvals

	Certificate Number	Standards
VDE	40040032	acc. to DIN EN 62444
UL	E199260	acc. to UL514
EHEDG	485TUM2016 No.15/2015	acc. to EHEDG-Doc. 2, 3rd edition, 2004,

Some approvals do not cover all sizes. For more approvals: see our webpage.



Hygienic Glands
Stainless Steel



Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Bottom mm	Outer Ø D mm	Inner Ø D1 mm	max. Height H mm	Lock Nut SW mm	Lock Nut D mm	Lock Nut H mm	Part Number	Packing Unit
M12x1,5	3,0 - 6,5	6,0	12,0	14	7	15,6	6,8	21,5	15	16,6	2,8	**BMFGX-0S**	o.r.
M16x1,5	5,0 - 10,0	7,0	16,0	18	10	20,2	10,3	23,0	19	21,0	3,0	**BMFGX-01S**	o.r.
M20x1,5	6,0 - 12,0	10,0	20,0	22	13	24,1	12,3	27,0	24	26,5	3,5	**BMFGX-02S**	o.r.
M25x1,5	12,0 - 17,0	14,0	25,0	28	17	30,1	17,3	29,5	30	33,0	4,0	**BMFGX-03S**	o.r.

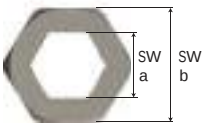
Hygienic Gland Tightening Tool

Technical Details

Material	Metal

Tightening Tool

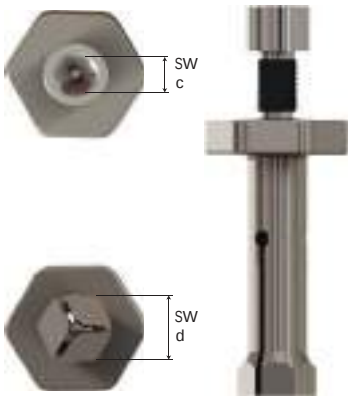
Gland Size	Allen Screw SW a mm	Outer Spanner Width SW b mm	Tool Height h mm	Part Number	Packing Unit
M12	5,0	7,0	5,0	**BMFGT-01**	o.r.
M16	6,0	10,0	5,0	**BMFGT-02**	o.r.
M20	8,0	13,0	8,0	**BMFGT-03**	o.r.
M25	10,0	17,0	8,0	**BMFGT-04**	o.r.



Hygienic Gland Special Tool

Technical Details

Material	Metal



Special Tool

Gland Size	Allen Screw SW c mm	Outer Spanner Width SW d min - max mm	Part Number	Packing Unit
M16	6,0	9,0 - 10,0	**BMFGST-02**	o.r.
M20	8,0	11,0 - 13,0	**BMFGST-03**	o.r.
M25	8,0	15,0 - 17,0	**BMFGST-04**	o.r.

Hygienic Glands, EMC
Stainless Steel

EMC cable glands for hygienic requirements

- For EMC applications in manufacturing and packaging of food and pharmaceuticals, clean room technology, biotechnology, chemical industry.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Smooth finish prevents harmful micro organisms to adhere on the surface.
- No threads are exposed.
- Gasket material according to FDA guideline 21 CFR 177.2600.
- Cleaning of cable glands is easier, faster and less expensive.
- Reliable strain relief due to strain relief element separated from grommet.
- Suitable for high pressure steam cleaning.
- EMC lock nut included.
- Assembling tool included.

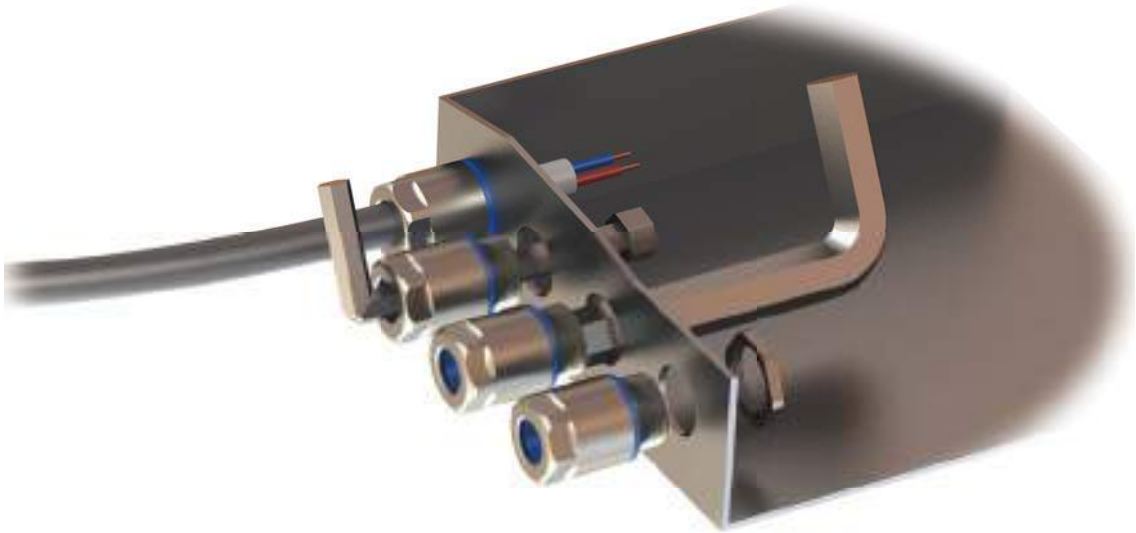
Technical Details

Material	**Body**	Stainless steel 1.4305 (AISI 303)	
	Cap	Stainless steel 1.4305 (AISI 303)	
	Clamp. Insert	POM	
	Contact Spring	Special Copper Alloy	
	Gasket	TPE	
	Lock Nut	Stainless steel 1.4305 (AISI 303)	
Protection Class		IP 68 - 5 Bar, 30 min IP 69	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Cable Type		Non armoured, Shielded	
Thread Type		• Metric EN 60423 • Other thread types also available upon request.	
Accessories		• Lock nuts (included) • Dome plugs • Assembling tools	
Remarks		• Manufactured according to DIN EN 62444/50262. • We recommend the use of lock nuts to ensure IP rating for rough surfaces or through holes. • Some approvals do not cover all sizes. **Note**: Applications of most cable glands don't require same parameters applied to tests. For applications strictly acc. to the approval definitions please consult data sheet. **Note**: When using special tool – do not damage contact springs.	

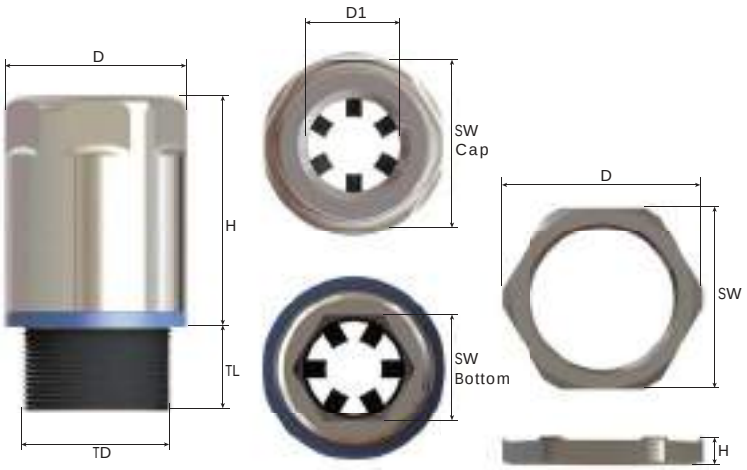
Approvals

	Certificate Number	Standards
VDE	40040032	acc. to DIN EN 62444

Some approvals do not cover all sizes. For more approvals: see our webpage.



Hygienic Glands, EMC
Stainless Steel



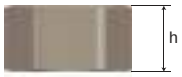
Thread Type **METRIC** acc. to EN 60423

Size	Clamping Range Ø min-max mm	Shield Diameter Ø min-max mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Bottom mm	Outer Ø D mm	Inner Ø D1 mm	max. Height H mm	Lock Nut SW mm	Lock Nut D mm	Lock Nut H mm	Part Number	Packing Unit
M16x1,5	5,0 - 10,0	4	7	16	18	10	20,2	10,3	28,5	19	21,0	3,0	**BMEFGX-01**	o.r.
M20x1,5	6,0 - 12,0	5	10	20	22	13	24,1	12,3	33,0	24	26,5	3,5	**BMEFGX-02**	o.r.
M25x1,5	12,0 - 17,0	10	14	25	28	17	30,1	17,3	38,0	30	33,0	4,0	**BMEFGX-03**	o.r.

Hygienic Gland Tightening Tool

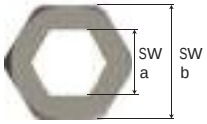
Technical Details

Material	Metal



Tightening Tool

Gland Size	Allen Screw SW a mm	Outer Spanner Width SW b mm	Tool Height h mm	Part Number	Packing Unit
M16	6,0	10,0	5,0	**BMFGT-02**	o.r.
M20	8,0	13,0	8,0	**BMFGT-03**	o.r.
M25	10,0	17,0	8,0	**BMFGT-04**	o.r.



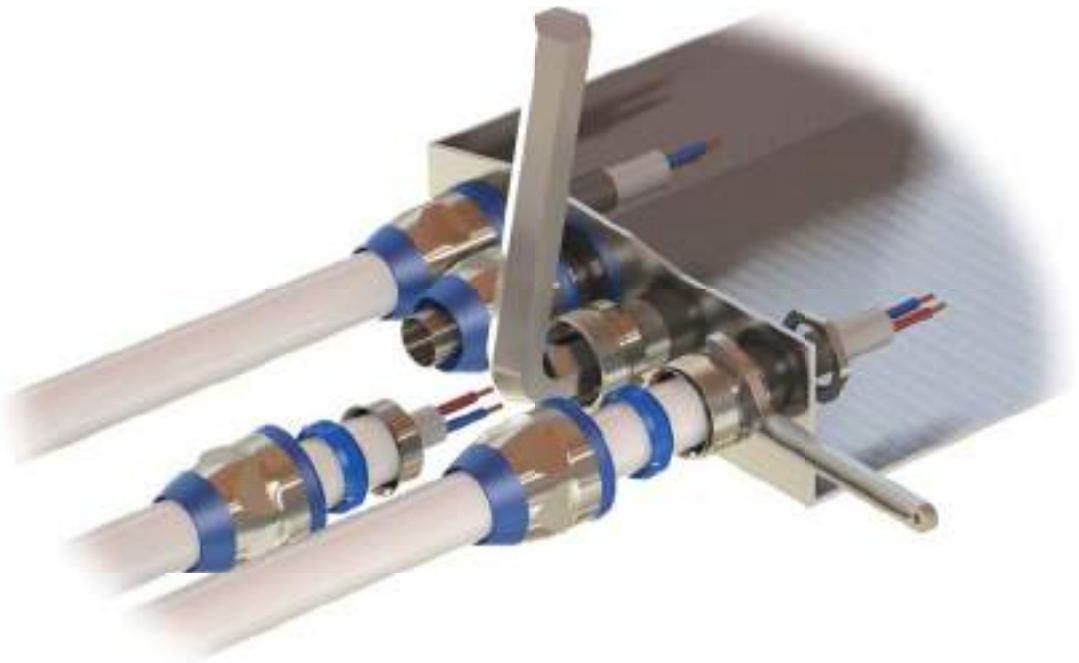
Hygienic Conduit Fittings
Stainless Steel

Stainless steel Hygienic Conduit Fittings

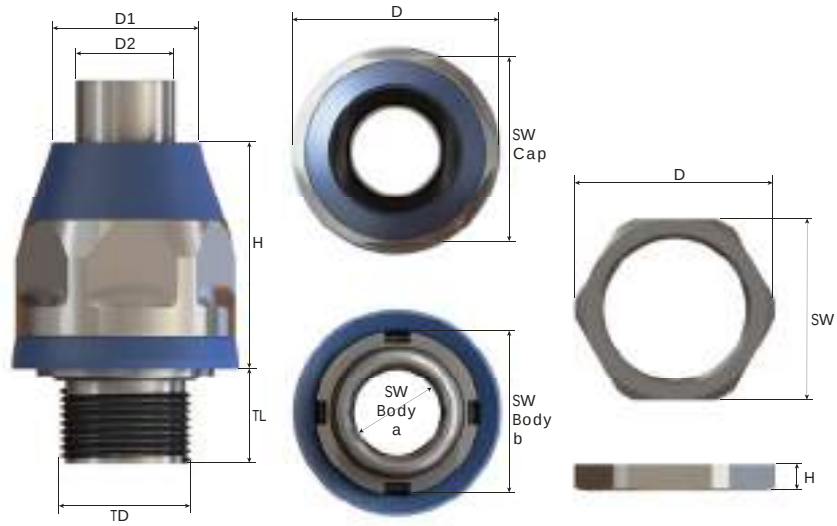
- Stainless steel Hygienic Conduit Fittings are used in all areas where cleanliness is a necessity. Avoiding build-up of dirt is most important in the following industries:
- Manufacturing and packaging of food and pharmaceuticals
- Clean room technology
- Biotechnology
- Chemical industry
- Due to the special design of our Hygienic Conduit Fittings they provide the following benefits:
- smooth finish prevents harmful micro organisms to adhere to the surface no threads are exposed
- cleaning of fittings is easier, faster and less expensive compared to traditional stainless steel cable glands
- upper protective cap avoids dirt to enter the system
- suitable for high pressure steam cleaning

Technical Details

Material	**Body**	Stainless steel 1.4404 (AISI 316L)	
	Cap	Stainless steel 1.4404 (AISI 316L)	
	Gasket	TPE, according to FDA guideline 21 CFR 177.2600	
	Pressure Ring	Polyamide 6	
	O-Oring	NBR	
	Ferrule	Brass, Nickel plated	
Protection Class		IP 68 (5 bar, 30 min), according to EN 60 529 IP 69K, according to DIN 40050-9	
Operating Temperature		**Permanent**	**Intermittent**
		-20 °C to +100 °C	-40 °C to +150 °C
Thread Type		Metric, according to EN 60423 PG and NPT upon request	
Accessories		• Lock nuts	
Remarks		• Smooth finish prevents harmful micro organisms to adhere to the surface • No threads are exposed • Cleaning of fittings is easier, faster and less expensive compared to traditional stainless steel cable glands • Suitable for high pressure steam cleaning • Manufacturing and packaging of food and pharmaceuticals • Clean room technology, Biotechnology, Chemical industry	



Hygienic Conduit Fittings Stainless Steel



Thread Type **METRIC** acc. to EN 60423

Size	Conduit Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body a mm	SW Body b Ø mm	Conduit Outer Ø D1 mm	Conduit Inner Ø D2 mm	Outer Ø D mm	max. Height H mm	Lock Nut SW mm	Lock Nut D mm	Lock Nut H mm	Part Number	Packing Unit
M16x1,5	3/8"	11,5	16,0	27	11,0	24,0	17,2	12,0	31,1	36,8	19	21,0	3,0	**BMHFX-01**	o.r.
M20x1,5	1,2"	13,0	20,0	30	14,0	27,0	20,5	15,0	34,0	37,3	24	26,5	3,5	**BMHFX-02**	o.r.
M25x1,5	3/4"	15,0	25,0	36	19,0	33,0	25,8	20,0	41,0	42,4	30	33,0	4,0	**BMHFX-03**	o.r.
M32x1,5	1"	15,0	32,0	46	25,0	42,0	32,4	25,7	52,7	51,3	36	39,5	5,0	**BMHFX-04**	o.r.
M40x1,5	1 1/4"	16,0	40,0	54	32,0	50,0	41,2	34,2	62,0	58,9	46	51,0	5,0	**BMHFX-05**	o.r.
M50x1,5	1 1/2"	18,0	50,0	63	36,0	58,0	46,9	39,2	70,0	63,3	60	66,0	5,0	**BMHFX-06**	o.r.
M63x1,5	2"	20,0	63,0	77	48,0	72,0	59,0	50,0	84,6	68,6	70	77,0	6,0	**BMHFX-07**	o.r.

Hygienic Fitting Tightening Tool

Technical Details

Material	Metal

Tightening Tool

Fitting Size	Allen Screw SW a mm	Spanner Ø SW b mm
M16	11,0	24,0
M20	14,0	27,0
M25	19,0	33,0
M32	25,0	42,0
M40	32,0	50,0
M50	36,0	58,0
M63	48,0	72,0

Further Accessories for Hygienic Glands & Fittings

Lock Nuts

Hygienic Glands & Fittings Applications

Food , Beverage and Pharmaceuticals Processing Machinery

Packaging for food, Beverage and Pharmaceuticals

Stainless Steel Control Cabinets and Monitoring Systems

Stainless Steel Control Enclosures dor Food and Pharmaceuticals

bimed

Relation of glands & special seals
ACCESSORIES
for Industrial Application





Relation of glands & spacial seals
ACCESSORIES
for Industrial Application





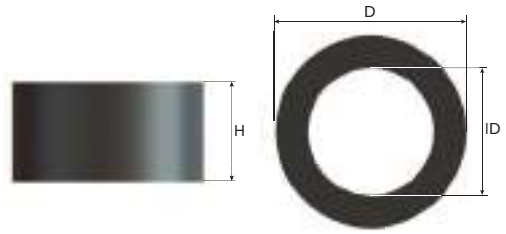
Reducing Seals Single, Rubber

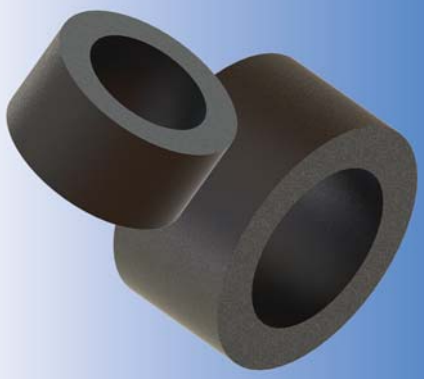
Reducing seals, single

- For reducing the clamping ranges of cable glands.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

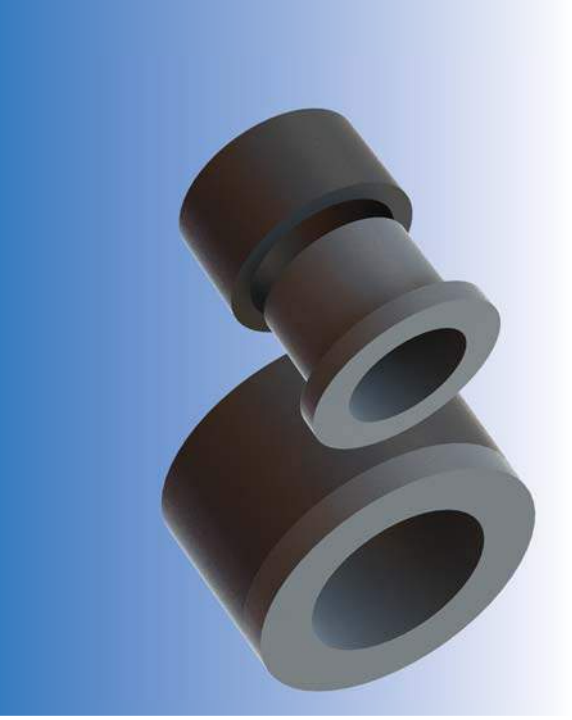
Material	• CR (Chloroprene) • NBR • Silicone • EPDM





Reducing seals, single

Clamping Range Reducing Seal Ø min-max mm	Replaced Standard Seal Ø min-max mm	Seal Dimensions Inner Ø ID mm	Seal Dimensions Outer Ø D mm	Height H mm	Part Number CR black	Part Number NBR black	Part Number Silicone red	Part Number Silicone transparent	Part Number EPDM black	Packing Unit
2,0 - 5,0	3,0 - 6,5	5,2	8,6	7,1	**MS-0SC**	**MS-0SN**	**MS-0SSR**	**MS-0SST**	**MS-0SE**	o.r.
2,0 - 6,0	4,0 - 8,0	6,3	10,9	7,0	**MS-01C**	**MS-01N**	**MS-01SR**	**MS-01ST**	**MS-01E**	o.r.
3,0 - 7,0	5,0 - 10,0	7,3	13,7	10,1	**MS-01LC**	**MS-01LN**	**MS-01LSR**	**MS-01LST**	**MS-01LE**	o.r.
5,0 - 9,0	6,0 - 12,0	9,4	16,0	8,4	**MS-02C**	**MS-02N**	**MS-02SR**	**MS-02ST**	**MS-02E**	o.r.
7,0 - 12,0	10,0 - 14,0	12,4	18,0	9,3	**MS-02LC**	**MS-02LN**	**MS-02LSR**	**MS-02LST**	**MS-02LE**	o.r.
9,0 - 13,0	11,0 - 17,0	13,5	20,4	10,7	**MS-03LC**	**MS-03LN**	**MS-03LSR**	**MS-03LST**	**MS-03LE**	o.r.
9,0 - 16,0	13,0 - 18,0	16,4	22,9	12,2	**MS-03C**	**MS-03N**	**MS-03SR**	**MS-03ST**	**MS-03E**	o.r.
11,0 - 15,0	15,0 - 21,0	15,5	25,4	14,2	**MS-04LC**	**MS-04LN**	**MS-04LSR**	**MS-04LST**	**MS-04LE**	o.r.
12,0 - 20,0	18,0 - 25,0	20,5	30,4	14,0	**MS-04C**	**MS-04N**	**MS-04SR**	**MS-04ST**	**MS-04E**	o.r.
16,0 - 23,0	19,0 - 28,0	23,5	33,40	17,0	**MS-05LC**	**MS-05LN**	**MS-05LSR**	**MS-05LST**	**MS-05LE**	o.r.
20,0 - 26,0	22,0 - 32,0	26,5	40,0	16,8	**MS-05C**	**MS-05N**	**MS-05SR**	**MS-05ST**	**MS-05E**	o.r.
25,0 - 31,0	30,0 - 38,0	31,5	45,0	16,5	**MS-06C**	**MS-06N**	**MS-06SR**	**MS-06ST**	**MS-06E**	o.r.
29,0 - 35,0	34,0 - 44,0	35,5	51,0	16,5	**MS-07C**	**MS-07N**	**MS-07SR**	**MS-07ST**	**MS-07E**	o.r.



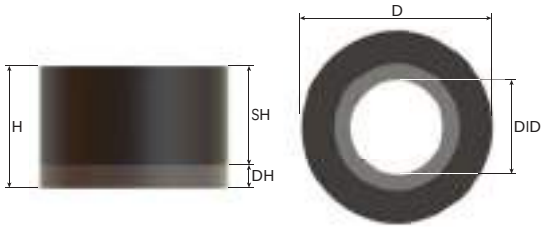
Reducing Seals Double, Rubber

Reducing seals, Double

- For reducing the clamping ranges of cable glands.
- Double seal optimizes the range used.
- Special design for high quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	• CR (Chloroprene) • NBR • Silicone • EPDM



Reducing seals, double

Clamping Range		Replaced	Seal Dimensions					Part Number					
Inner Seal Ø min-max mm	Outer Seal Ø min-max mm	Standard Seal Ø min-max mm	Height DH mm	Inner Ø DID mm	Height SH mm	Outer Ø D mm	Height H mm	CR black	NBR black	Silicone red	Silicone transparent	EPDM black	Packing Unit
2,0 - 4,0	**3,0 - 6,5**	3,0 - 6,5	2,0	4,2	7,1	8,6	9,1	**MDS-0SC**	**MDS-0SN**	**MDS-0SSR**	**MDS-0SST**	**MDS-0SE**	o.r.
3,0 - 5,0	**4,0 - 8,0**	4,0 - 8,0	2,0	5,2	7,5	10,7	9,5	**MDS-01C**	**MDS-01N**	**MDS-01SR**	**MDS-01ST**	**MDS-01E**	o.r.
3,0 - 7,0	**5,0 - 10,0**	5,0 - 10,0	2,0	7,2	10,4	13,7	12,1	**MDS-01LC**	**MDS-01LN**	**MDS-01LSR**	**MDS-01LST**	**MDS-01LE**	o.r.
5,0 - 8,5	**6,0 - 12,0**	6,0 - 12,0	2,0	8,7	8,2	16,0	10,2	**MDS-02C**	**MDS-02N**	**MDS-02SR**	**MDS-02ST**	**MDS-02E**	o.r.
7,0 - 12,0	**10,0 - 14,0**	10,0 - 14,0	2,0	11,3	9,3	18,0	11,3	**MDS-02LC**	**MDS-02LN**	**MDS-02LSR**	**MDS-02LST**	**MDS-02LE**	o.r.
8,0 - 13,0	**11,0 - 17,0**	11,0 - 17,0	2,5	13,2	10,7	20,4	13,2	**MDS-03LC**	**MDS-03LN**	**MDS-03LSR**	**MDS-03LST**	**MDS-03LE**	o.r.
9,0 - 14,0	**13,0 - 18,0**	13,0 - 18,0	2,5	14,2	12,2	22,9	14,7	**MDS-03C**	**MDS-03N**	**MDS-03SR**	**MDS-03ST**	**MDS-03E**	o.r.
11,0 - 16,0	**15,0 - 21,0**	15,0 - 21,0	2,5	16,3	14,2	25,4	16,7	**MDS-04LC**	**MDS-04LN**	**MDS-04LSR**	**MDS-04LST**	**MDS-04LE**	o.r.
13,0 - 20,0	**18,0 - 25,0**	18,0 - 25,0	2,5	20,5	14,0	30,4	16,5	**MDS-04C**	**MDS-04N**	**MDS-04SR**	**MDS-04ST**	**MDS-04E**	o.r.
16,0 - 21,0	**19,0 - 28,0**	19,0 - 28,0	2,5	21,3	17,0	33,4	19,5	**MDS-05LC**	**MDS-05LN**	**MDS-05LSR**	**MDS-05LST**	**MDS-05LE**	o.r.
20,0 - 26,0	**22,0 - 32,0**	22,0 - 32,0	2,5	26,5	16,8	40,0	19,5	**MDS-05C**	**MDS-05N**	**MDS-05SR**	**MDS-05ST**	**MDS-05E**	o.r.
21,0 - 31,0	**30,0 - 38,0**	30,0 - 38,0	3,0	31,4	17,2	46,0	20,2	**MDS-06C**	**MDS-06N**	**MDS-06SR**	**MDS-06ST**	**MDS-06E**	o.r.
27,0 - 35,0	**34,0 - 44,0**	34,0 - 44,0	3,0	35,4	18,5	51,0	21,5	**MDS-07C**	**MDS-07N**	**MDS-07SR**	**MDS-07ST**	**MDS-07E**	o.r.

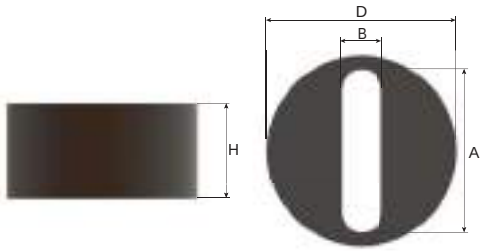
Flat Cable Seals
Rubber

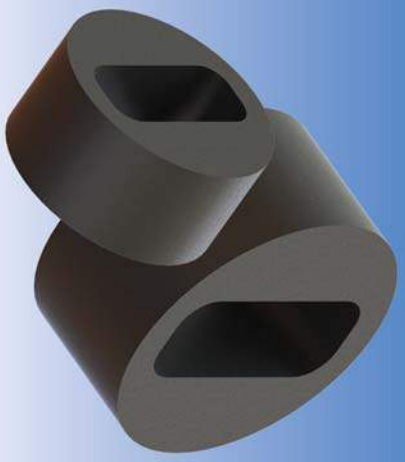
Flat cable seals

- To modify the clamping range to the shape of flat cables.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material	• CR (Chloroprene) • NBR • Silicone • EPDM





Flat Cable Seals

Cable Dimensions Width A mm	Cable Dimensions Height B mm	Replaced Standard Seal Ø min-max mm	Seal Dimensions Outer Ø D mm	Seal Dimensions Height H mm	Part Number CR black	NBR black	Silicone red	Silicone transparent	EPDM black	Packing Unit
19,0	**5,8**	11,0 - 17,0	20,4	12,2	**MFS-03C**	**MFS-03N**	**MFS-03SR**	**MFS-03ST**	**MFS-03E**	o.r.
19,0	**5,8**	15,0 - 21,0	25,4	14,2	**MFS-04C**	**MFS-04N**	**MFS-04SR**	**MFS-04ST**	**MFS-04E**	o.r.
22,0	**7,8**				**MFS-04LC**	**MFS-04LN**	**MFS-04LSR**	**MFS-04LST**	**MFS-04LE**	o.r.
31,0	**5,5**	19,0 - 28,0	33,4	17,0	**MFS-05LC**	**MFS-05LN**	**MFS-05LSR**	**MFS-05LST**	**MFS-05LE**	o.r.
	11,0				**MFS-05C**	**MFS-05N**	**MFS-05SR**	**MFS-05ST**	**MFS-05E**	o.r.
43,0	**5,5**	34,0 - 44,0	51,0	16,5	**MFS-06C**	**MFS-06N**	**MFS-06SR**	**MFS-06ST**	**MFS-06E**	o.r.
	11,0				**MFS-06MC**	**MFS-06MN**	**MFS-06MSR**	**MFS-06MST**	**MFS-06ME**	o.r.
	15,5				**MFS-06LC**	**MFS-06LN**	**MFS-06LSR**	**MFS-06LST**	**MFS-06LE**	o.r.

Multihole Seals Rubber

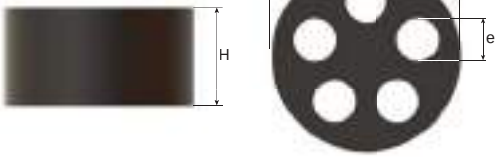
Multihole seals

- To use a number of small cables in one cable gland.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

Material

- CR (Chloroprene)
- NBR
- Silicone
- EPDM



Multihole Seals

Nr. of Cores n	Core Ø e mm	Replaced Standard Seal Ø min-max mm	Seal Dimensions Outer Ø D mm	Seal Dimensions Height H mm	Part Number CR black	NBR black	Silicone red	Silicone transparent	EPDM black	Packing Unit
2	3,0	4,0 - 8,0	10,9	7,0	MMS-012C	MMS-012N	MMS-012SR	MMS-012ST	MMS-012E	o.r.
	4,0				MMS-011C	MMS-011N	MMS-011SR	MMS-011ST	MMS-011E	
4	3,0				MMS-013C	MMS-013N	MMS-013SR	MMS-013ST	MMS-013E	
2	2,0	5,0 - 10,0	13,7	10,4	MMS-016C	MMS-016N	MMS-016SR	MMS-016ST	MMS-016E	o.r.
	3,0				MMS-017C	MMS-017N	MMS-017SR	MMS-017ST	MMS-017E	
	4,0				MMS-014C	MMS-014N	MMS-014SR	MMS-014ST	MMS-014E	
	4,5				MMS-015C	MMS-015N	MMS-015SR	MMS-015ST	MMS-015E	
	5,0				MMS-018C	MMS-018N	MMS-018SR	MMS-018ST	MMS-018E	
3	4,0				MMS-019C	MMS-019N	MMS-019SR	MMS-019ST	MMS-019E	
2	5,0	6,0 - 12,0	16,0	8,4	MMS-025C	MMS-025N	MMS-025SR	MMS-025ST	MMS-025E	o.r.
	6,0				MMS-021C	MMS-021N	MMS-021SR	MMS-021ST	MMS-021E	
3	4,0				MMS-022C	MMS-022N	MMS-022SR	MMS-022ST	MMS-022E	
	5,0				MMS-023C	MMS-023N	MMS-023SR	MMS-023ST	MMS-023E	
4	3,0				MMS-024C	MMS-024N	MMS-024SR	MMS-024ST	MMS-024E	
	4,0				MMS-026C	MMS-026N	MMS-026SR	MMS-026ST	MMS-026E	
2	4,0	10,0 - 14,0	18,0	9,3	MMS-02AC	MMS-02AN	MMS-02ASR	MMS-02AST	MMS-02AE	o.r.
	6,0				MMS-02CC	MMS-02CN	MMS-02CSR	MMS-02CST	MMS-02CE	
	7,0				MMS-028C	MMS-028N	MMS-028SR	MMS-028ST	MMS-028E	
3	4,0				MMS-029C	MMS-029N	MMS-029SR	MMS-029ST	MMS-029E	
	6,0				MMS-02DC	MMS-02DN	MMS-02DSR	MMS-02DST	MMS-02DE	
4	5,0				MMS-02BC	MMS-02BN	MMS-02BSR	MMS-02BST	MMS-02BE	
5	4,0				MMS-02EC	MMS-02EN	MMS-02ESR	MMS-02EST	MMS-02EE	
2	6,0	11,0 - 17,0	20,4	10,7	MMS-03CC	MMS-03CN	MMS-03CSR	MMS-03CST	MMS-03CE	o.r.
3	5,0				MMS-03EC	MMS-03EN	MMS-03ESR	MMS-03EST	MMS-03EE	
	6,0				MMS-03DC	MMS-03DN	MMS-03DSR	MMS-03DST	MMS-03DE	
	7,0				MMS-03FC	MMS-03FN	MMS-03FSR	MMS-03FST	MMS-03FE	
4	5,0				MMS-03GC	MMS-03GN	MMS-03GSR	MMS-03GST	MMS-03GE	
5	4,0				MMS-03HC	MMS-03HN	MMS-03HSR	MMS-03HST	MMS-03HE	
6	4,0				MMS-03IC	MMS-03IN	MMS-03ISR	MMS-03IST	MMS-03IE	
7	3,0				MMS-03JC	MMS-03JN	MMS-03JSR	MMS-03JST	MMS-03JE	
2	6,0	13,0 - 18,0	22,9	12,2	MMS-031C	MMS-031N	MMS-031SR	MMS-031ST	MMS-031E	o.r.
	6,6				MMS-032C	MMS-032N	MMS-032SR	MMS-032ST	MMS-032E	
	7,0				MMS-033C	MMS-033N	MMS-033SR	MMS-033ST	MMS-033E	
	8,0				MMS-034C	MMS-034N	MMS-034SR	MMS-034ST	MMS-034E	
	9,0				MMS-035C	MMS-035N	MMS-035SR	MMS-035ST	MMS-035E	
3	6,6				MMS-036C	MMS-036N	MMS-036SR	MMS-036ST	MMS-036E	
	8,0				MMS-037C	MMS-037N	MMS-037SR	MMS-037ST	MMS-037E	
4	6,0				MMS-038C	MMS-038N	MMS-038SR	MMS-038ST	MMS-038E	
	6,6				MMS-039C	MMS-039N	MMS-039SR	MMS-039ST	MMS-039E	
	7,0				MMS-03AC	MMS-03AN	MMS-03ASR	MMS-03AST	MMS-03AE	
8	1,5				MMS-03BC	MMS-03BN	MMS-03BSR	MMS-03BST	MMS-03BE	

Multihole Seals Rubber

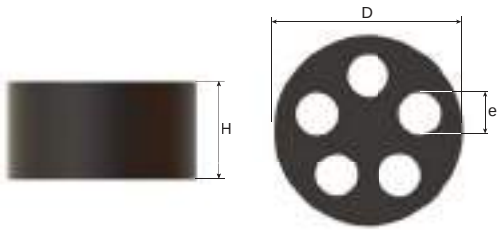
Multihole seals

- To use a number of small cables in one cable gland.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

Technical Details

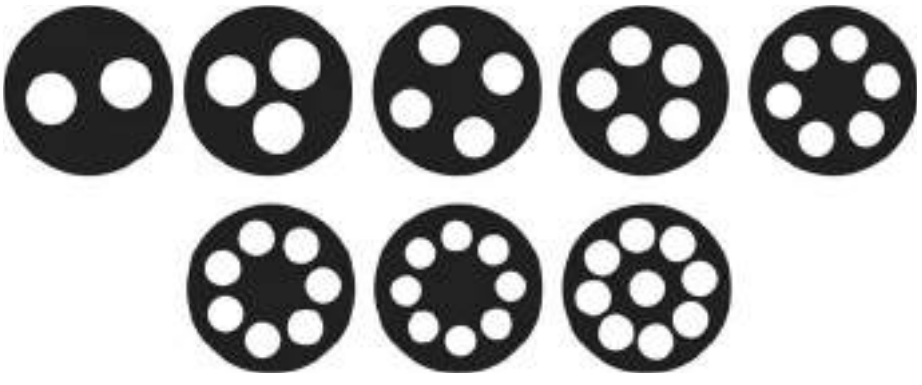
Material

- CR (Chloroprene)
- NBR
- Silicone
- EPDM

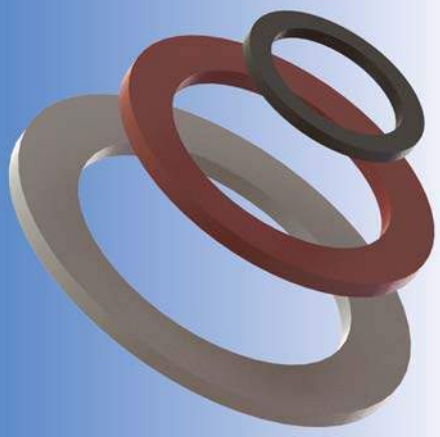


Multihole Seals

Nr. of Cores n	Core Ø e mm	Replaced Standard Seal Ø min-max mm	Seal Dimensions Outer Ø D mm	Seal Dimensions Height H mm	Part Number CR black	NBR black	Silicone red	Silicone transparent	EPDM black	Packing Unit
2	7,0	15,0-21,0	25,4	14,2	MMS-04CC	MMS-04CN	MMS-04CSR	MMS-04CST	MMS-04CE	o.r.
	8,0				MMS-04AC	MMS-04AN	MMS-04ASR	MMS-04AST	MMS-04AE	
	9,0				MMS-04DC	MMS-04DN	MMS-04DSR	MMS-04DST	MMS-04DE	
3	8,0				MMS-04BC	MMS-04BN	MMS-04BSR	MMS-04BST	MMS-04BE	
4	6,0				MMS-04HC	MMS-04HN	MMS-04HSR	MMS-04HST	MMS-04HE	
	7,0				MMS-04IC	MMS-04IN	MMS-04ISR	MMS-04IST	MMS-04IE	
	8,0				MMS-04EC	MMS-04EN	MMS-04ESR	MMS-04EST	MMS-04EE	
5	6,0				MMS-04FC	MMS-04FN	MMS-04FSR	MMS-04FST	MMS-04FE	
6	5,0				MMS-04JC	MMS-04JN	MMS-04JSR	MMS-04JST	MMS-04JE	
	6,0				MMS-04KC	MMS-04KN	MMS-04KSR	MMS-04KST	MMS-04KE	
8	4,0				MMS-04MC	MMS-04MN	MMS-04MSR	MMS-04MST	MMS-04ME	
	5,0				MMS-04NC	MMS-04NN	MMS-04NSR	MMS-04NST	MMS-04NE	
9	3,0				MMS-04LC	MMS-04LN	MMS-04LSR	MMS-04LST	MMS-04LE	
	4,0				MMS-04OC	MMS-04ON	MMS-04OSR	MMS-04OST	MMS-04OE	
2	8,0	18,0-25,0	30,4	14,0	MMS-041C	MMS-041N	MMS-041SR	MMS-041ST	MMS-041E	o.r.
	9,0				MMS-042C	MMS-042N	MMS-042SR	MMS-042ST	MMS-042E	
3	7,5				MMS-043C	MMS-043N	MMS-043SR	MMS-043ST	MMS-043E	
	8,0				MMS-044C	MMS-044N	MMS-044SR	MMS-044ST	MMS-044E	
4	8,0				MMS-045C	MMS-045N	MMS-045SR	MMS-045ST	MMS-045E	
5	8,5				MMS-046C	MMS-046N	MMS-046SR	MMS-046ST	MMS-046E	
6	5,0				MMS-049C	MMS-049N	MMS-049SR	MMS-049ST	MMS-049E	
	6,0				MMS-047C	MMS-047N	MMS-047SR	MMS-047ST	MMS-047E	
	7,5				MMS-048C	MMS-048N	MMS-048SR	MMS-048ST	MMS-048E	
2	10,0	19,0 - 28,0	33,4	17,0	MMS-051C	MMS-051N	MMS-051SR	MMS-051ST	MMS-051E	o.r.
3	10,0				MMS-052C	MMS-052N	MMS-052SR	MMS-052ST	MMS-052E	
4	8,0				MMS-053C	MMS-053N	MMS-053SR	MMS-053ST	MMS-053E	
5	8,0				MMS-054C	MMS-054N	MMS-054SR	MMS-054ST	MMS-054E	
	9,0				MMS-055C	MMS-055N	MMS-055SR	MMS-055ST	MMS-055E	
6	7,0				MMS-056C	MMS-056N	MMS-056SR	MMS-056ST	MMS-056E	
8	6,0				MMS-057C	MMS-057N	MMS-057SR	MMS-057ST	MMS-057E	
9	7,0				MMS-058C	MMS-058N	MMS-058SR	MMS-058ST	MMS-058E	



Gaskets
Rubber, Polyamide, Fibre

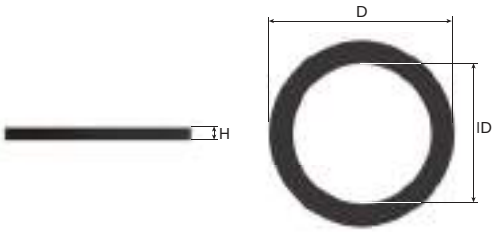


Gaskets

• To ensure IP rating for rough surfaces or through holes.

Technical Details

Material	• CR (Chloroprene) • NBR • Silicone • Polyamide 6 • Fibre



Gaskets

Size	Outer Ø D mm	Inner Ø ID mm	Height H mm	Part Number CR black	NBR black	Silicone red	Silicone transparent	Polyamide white	Fibre green	Packing Unit
M12	15,5	10,3	1,5	**BMSW-21C**	**BMSW-21N**	**BMSW-21SR**	**BMSW-21ST**			o.r.
M16	21,5	15,5	1,5	**BMSW-22C**	**BMSW-22N**	**BMSW-22SR**	**BMSW-22ST**			o.r.
	19,6	15,7						**BMSW-PA2**	**BMSW-FB2**	
M20	26,0	18,5	1,5	**BMSW-23C**	**BMSW-23N**	**BMSW-23SR**	**BMSW-23ST**			o.r.
	23,8	19,7						**BMSW-PA3**	**BMSW-FB3**	
M25	31,5	23,3	1,5	**BMSW-24C**	**BMSW-24N**	**BMSW-24SR**	**BMSW-24ST**			o.r.
	32,2	24,7						**BMSW-PA4**	**BMSW-FB4**	
M32	38,5	30,5	1,5	**BMSW-25C**	**BMSW-25N**	**BMSW-25SR**	**BMSW-25ST**			o.r.
	39,6	31,7						**BMSW-PA5**	**BMSW-FB5**	
M40	48,5	38,5	1,5	**BMSW-26C**	**BMSW-26N**	**BMSW-26SR**	**BMSW-26ST**			o.r.
	49,6	39,7						**BMSW-PA6**	**BMSW-FB6**	
M50	58,0	48,0	1,5	**BMSW-27C**	**BMSW-27N**	**BMSW-27SR**	**BMSW-27ST**			o.r.
	62,0	49,7						**BMSW-PA7**	**BMSW-FB7**	
M63	70,0	61,2	1,5	**BMSW-28C**	**BMSW-28N**	**BMSW-28SR**	**BMSW-28ST**			o.r.
	78,4	62,7						**BMSW-PA8**	**BMSW-FB8**	
M75	86,0	74,5	1,5	**BMSW-29C**	**BMSW-29N**	**BMSW-29SR**	**BMSW-29ST**			o.r.
	93,4	74,7						**BMSW-PA9**	**BMSW-FB9**	
M90	102,0	89,5	1,5	**BMSW-30C**	**BMSW-30N**	**BMSW-30SR**	**BMSW-30ST**			o.r.
	112,0	89,7						**BMSW-PA10**	**BMSW-FB10**	
M100	124,6	99,7	1,5					**BMSW-PA11**	**BMSW-FB11**	o.r.
M110	123,0	109,5	1,5	**BMSW-31C**	**BMSW-31N**	**BMSW-31SR**	**BMSW-31ST**			o.r.

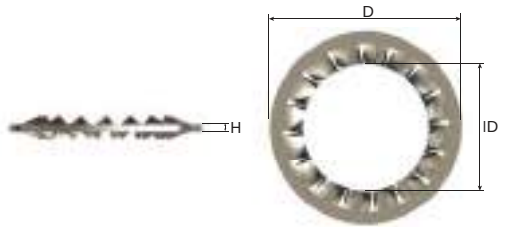
Serrated Washer
Brass Nickel plated, Stainless Steel

Serrated washers

• To fix lock nuts when mechanical stress occurs.

Technical Details

Material	• Brass, Nickel plated • Stainless Steel



Serrated Washers

Size	Inner Ø D mm	Outer Ø D mm	Height H mm	Part Number Brass Nickel plated	Part Number Stainless Steel	Packing Unit
M16 / NPT 3/8“	16,3	25,5	1,5	**BMTW-02BN**	**BMTW-02X**	o.r.
M20 / NPT 1/2"	21,4	32,5	1,5	**BMTW-03BN**	**BMTW-03X**	o.r.
M25 / NPT 3/4"	26,7	40,0	1,5	**BMTW-04BN**	**BMTW-04X**	o.r.
M32 / NPT 1"	33,5	43,5	1,5	**BMTW-05BN**	**BMTW-05X**	o.r.
M40 / NPT 1 1/4"	42,2	64,5	1,5	**BMTW-06BN**	**BMTW-06X**	o.r.
M50 / NPT 1 1/2"	50,7	80,0	1,5	**BMTW-07BN**	**BMTW-07X**	o.r.
M63 / NPT 2"	63,4	100,0	1,5	**BMTW-08BN**	**BMTW-08X**	o.r.
M75 / NPT 2 1/2"	76,4	112,0	1,5	**BMTW-09BN**	**BMTW-09X**	o.r.
M90 / NPT 3"	90,5	135,0	1,5	**BMTW-10BN**	**BMTW-10X**	o.r.
M100 / NPT 3 1/2“	102,1	145,0	1,5	**BMTW-11BN**	**BMTW-11X**	o.r.

Cleareance Hole Diameter
- for non-threaded holes with use of lock nuts

Thread Type metric acc. to EN 60423

Size	Outer Diameter		Cleareance Hole Diameter	
	mm	inch	mm	inch
M4x0,7	4	0.157	4,2	0.165
M8x0,75	8	0.315	8,2	0.323
M12x1,0 M12x1,5	12	0.472	12,2	0.480
M16x1,5	16	0.630	16,2	0.638
M20x1,5	20	0.787	20,2	0.795
M25x1,5	25	0.984	25,2	0.992
M32x1,5	32	1.260	32,2	1.268
M40x1,5	40	1.575	40,2	1.583
M50x1,5	50	1.969	50,2	1.976
M63x1,5	63	2.480	63,2	2.488
M72x2,0	72	2.835	72,2	2.843
M75x1,5	75	2.953	75,2	2.961
M75x2,0	75	2.953	75,2	2.961
M80x2,0	80	3.150	80,2	3.157
M85x2,0	85	3.346	85,2	3.354
M90x2,0	90	3.543	90,2	3.551
M110x2,0	110	4.331	110,2	4.339

Thread Type NPT acc. to ANSI B1.20.1

Size	Outer Diameter		Cleareance Hole Diameter	
	mm	inch	mm	inch
NPT 1/4"	13,72	0.540	14,61	0.575
NPT 3/8"	17,15	0.675	18,24	0.718
NPT 1/2"	21,34	0.840	22,23	0.875
NPT 3/4"	26,67	1.050	28,17	1.109
NPT 1"	33,40	1.315	34,93	1.375
NPT 1 1/4"	42,16	1.660	44,04	1.734
NPT 1 1/2"	48,26	1.900	50,39	1.984
NPT 2"	60,33	2.375	62,71	2.469

Thread Type PG acc. to DIN 40430

Size	Outer Diameter		Cleareance Hole Diameter	
	mm	inch	mm	inch
PG 7	12,5	0.492	12,7	0.500
PG 9	15,2	0.598	15,4	0.606
PG 11	18,6	0.732	18,8	0.740
PG 13,5	20,4	0.803	20,7	0.815
PG 16	22,5	0.886	22,8	0.898
PG 21	28,3	1.114	28,6	1.126
PG 29	37,0	1.457	37,4	1.472
PG 36	47,0	1.850	47,5	1.870
PG 42	54,0	2.126	54,5	2.146
PG 48	59,3	2.335	59,8	2.354

Thread Type G acc. to DIN ISO 228

Size	Outer Diameter		Cleareance Hole Diameter	
	mm	inch	mm	inch
G 1/4"	13,157	0.518	13,5	0,531
G 3/8"	16,662	0.656	17,0	0.669
G 1/2"	20,955	0.825	21,3	0.839
G 3/4"	26,441	1.041	26,8	1.055
G 1"	33,249	1.309	33,7	1.327
G 1 1/2"	47,803	1.882	48,3	1.902

CABLE GLANDS & ACCESSORIES for GLOBAL HAZARDOUS APPLICATION

Electrical equipment in hazardous areas

In electrical engineering, a hazardous location is defined as a place where concentrations of flammable gases, vapors, or dusts occur. Electrical equipment that must be installed in such locations is especially designed and tested to ensure it does not initiate an explosion, due to arcing contacts or high surface temperature of equipment.

For example a household light switch may emit a small, harmless visible spark when switching; in an ordinary atmosphere this arc is of no concern, but if a flammable vapor is present, the arc might start an explosion. Electrical equipment intended for use in a chemical factory or refinery is designed either to contain any explosion within the device, or is designed not to produce sparks with sufficient energy to trigger an explosion.

Many strategies exist for safety in electrical installations. The simplest strategy is to minimize the amount of electrical equipment installed in a hazardous area, either by keeping the equipment out of the area altogether or by making the area less hazardous by process improvements or ventilation with clean air. Intrinsic safety, or non-incendive equipment and wiring methods, is a set of practices for apparatus designed with low power levels and low stored energy. Insufficient energy is available to produce an arc that can ignite the surrounding explosive mixture. Equipment enclosures can be pressurized with clean air or inert gas and designed with various controls to remove power or provide notification in case of supply or pressure loss of such gases. Arc-producing elements of the equipment can also be isolated from the surrounding atmosphere by encapsulation, immersion in oil, sand, etc. Heat producing elements such as motor winding, electrical heaters, including heat tracing and lighting fixtures are often designed to limit their maximum temperature below the autoignition temperature of the material involved. Both external and internal temperatures are taken into consideration.

As in most fields of electrical installation, different countries have approached the standardization and testing of equipment for hazardous areas in different ways. As world trade becomes more important in distribution of electrical products, international standards are slowly converging so that a wider range of acceptable techniques can be approved by national regulatory agencies.

Area classification is required by governmental bodies, for example by the U.S. Occupational Safety and Health Administration and compliance is enforced.

Documentation requirements are varied. Often an area classification plan-view is provided to identify equipment ratings and installation techniques to be used for each classified plant area. The plan may contain the list of chemicals with their group and temperature rating, and elevation details shaded to indicate Class, Division(Zone) and group combination. The area classification process would require the participation of operations, maintenance, safety, electrical and instrumentation professionals, the use of process diagrams and material flows, material safety data sheet and any pertinent documents, information and knowledge to determine the hazards and their extent and the countermeasures to be employed. Area classification documentations are reviewed and updated to reflect process changes.

History

Soon after the introduction of electric power into coal mines, it was discovered that lethal explosions could be initiated by electrical equipment such as lighting, signals, or motors. The hazard of fire damp or methane accumulation in mines was well known by the time electricity was introduced, along with the danger of suspended coal dust. At least two British mine explosions were attributed to an electric bell signal system. In this system, two bare wires were run along the length of a drift, and any miner desiring to signal the surface would momentarily touch the wires to each other or bridge the wires with a metal tool. The inductance of the signal bell coils, combined with breaking of contacts by exposed metal surfaces, resulted in sparks which could ignite methane, causing an explosion.

Gas divisions or zones

In an industrial plant such as a refinery or chemical process plant, handling of large quantities of flammable liquids and gases creates a risk of leaks. In some cases the gas, ignitable vapor or dust is present all the time or for long periods. Other areas would have a dangerous concentration of flammable substances only during process upsets, equipment deterioration between maintenance periods, or during an incident. Refineries and chemical plants are then divided into areas of risk of release of gas, vapor or dust known as divisions or zones. The process of determining the type and size of these hazardous areas is called area classification. Guidance on assessing the extent of the hazard is given in the NFPA 497 Standard, or API 500 and according to their adaptation by other areas gas zones is given in the current edition of IEC 60079.10. For hazardous dusts, the guiding standard is IEC 61421.10.

Typical gas hazards are from hydrocarbon compounds, but hydrogen and ammonia are common industrial gases that are flammable.

Non-Hazardous Area
An area such as a residence or office would be classed as Non Hazardous (safe area), where the only risk of a release of explosive or flammable gas would be such things as the propellant in an aerosol spray. The only explosive or flammable liquid would be paint and brush cleaner. These are classed as very low risk of causing an explosion and are more of a fire risk (although gas explosions in residential buildings do occur). Non hazardous areas on chemical and other plant are present where the hazardous gas is diluted to a concentration below 25% of its lower flammability limit (or lower explosive limit (LEL)).

Division 2 or Zone 2 area
This is a step up from the safe area. In this zone the gas, vapor or mist would only be present under abnormal conditions (most often leaks under abnormal conditions). As a general guide for Zone 2, unwanted substances should only be present under 10 hours/year or 0–0.1% of the time.

Division 1 or Zone 1 area
Gas, vapor or mist will be present or expected to be present for long periods of time under normal operating conditions. As a guide for Zone 1, this can be defined as 10–1000 hours/year or 0.1–10% of the time.

Zone 0 area
Gas or vapor is present all of the time. An example of this would be the vapor space above the liquid in the top of a tank or drum. The ANSI/NEC classification method consider this environment a Division1 area. As a guide for Zone 0, this can be defined as over 1000 hours/year or >10% of the time.

Dust zones

Flammable dusts when suspended in air can explode. An old system of area classification to a British standard used a system of letters to designate the zones. This has been replaced by a European numerical system, as set out in directive 1999/92/EU implemented in the UK as the Dangerous Substances and Explosives Atmospheres Regulations 2002
The boundaries and extent of these three dimensional zones should be decided by a competent person. There must be a site plan drawn up of the factory with the zones marked on.
The zone definitions are:
Zone 20
A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.
Zone 21
A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur, occasionally, in normal operation.
Zone 22
A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Gas groups

Explosive gases, vapors and dusts have different chemical properties that affect the likelihood and severity of an explosion. Such properties include flame temperature, minimum ignition energy, upper and lower explosive limits, and molecular weight. Empirical testing is done to determine parameters such as the maximum experimental safe gap, minimum ignition current, explosion pressure and time to peak pressure, spontaneous ignition temperature, and maximum rate of pressure rise. Every substance has a differing combination of properties but it is found that they can be ranked into similar ranges, simplifying the selection of equipment for hazardous areas.
Flammability of combustible liquids are defined by their flash-point. The flash-point is the temperature at which the material will generate sufficient quantity of vapor to form an ignitable mixture. The flash point determines if an area needs to be classified. A material may have a relatively low autoignition temperature yet if its flash-point is above the ambient temperature, then the area may not need to be classified. Conversely if the same material is heated and handled above its flash-point, the area must be classified.
Each chemical gas or vapour used in industry is classified into a gas group.

ABBREVIATIONS	
OFF-SHORE	Marine application Harsh Enviroment
SWA	Steel wire armored
AWA	Aluminium wire armored
SWB	Steel wire braid
PWA	Pliable wire armored
STA	Steel tape armored

FUNCTION DESCRIPTION				
	Sealing of the cable	Screen-Armor of the cable	Traction Relief	Double Sealing cable and jacket
1 Function	X			
2 Function	X	X		
3 Function	X	X	X	
4 Function	X	X	X	X





CABLE GLANDS & ACCESSORIES for HAZARDOUS APPLICATION







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CABLE GLANDS
for Gas & Dust Application





Ex Glands / Group II-III / Gas & Dust
Ex II 2GD / Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db





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4 Function Ex d/e Glands

ORION

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		CR (Chloroprene Rubber)	Silicone
		-40°C / +100°C	-60°C / +130°C
	LT Version	-40°C / +80°C	-60°C / +80°C
Equipment For		Gas & Dust potentially explosive atmospheres	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC — ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db	
	Marking Example	BMD KBA.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		SWA - AWA	
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags	

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBA	5	N	LT	B	C	-	GC	SW	L	S	E

LT*: For temperature information, please see technical details.

ORION

4 Function Ex d/e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max		Armour Wire	Thread Length	Thread Ø	Spanner Width			Outer min. Ø	max. Height	Part Number
	D	D1	Ø	TL	TD	SW Cap	SW Upper Body	SW Lower Body	D2	H	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M16x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	16,0	22,0	26,0	26,0	29,0	47,5	**KBA01SM**
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	**KBA01M**
M20x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	20,0	24,0	26,0	26,0	29,0	47,5	**KBA1SM**
	6,0 - 12,0	8,5 - 16,0	1,3			25,0	29,0	29,0	31,5	49,0	**KBA1M**
	8,5 - 14,5	12,0 - 20,0				28,0	30,0	32,0	35,0	56,4	**KBA1MLT***
	12,0 - 14,5	16,0 - 20,0								52,0	**KBA1LM**
M25x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	25,0	29,0	26,0	26,0	29,0	47,5	**KBA2XSM**
	6,0 - 12,0	8,5 - 16,0		18,0		29,0	29,0	29,0	31,5	50,5	**KBA2SM**
	8,5 - 14,5	12,0 - 16,0	1,3	16,0		29,0	30,0	32,0	35,0	56,4	**KBA2XMMLT***
	12,0 - 16,0	16,0 - 21,0		18,0		32,0	34,0	34,0	37,0	54,5	**KBA2M**
	8,5 - 16,0	12,0 - 21,0								59,5	**KBA2MLT***
	12,0 - 20,0	16,0 - 26,0				36,0	40,0	40,0	44,0	60,5	**KBA2LM**
M32x1.5	6,0 - 12,0	8,5 - 16,0	1,6	18,0	32,0	36,0	29,0	29,0	31,5	50,5	**KBA3XSM**
	12,0 - 20,0	16,0 - 26,0	1,2			40,0	40,0	40,0	44,0	62,0	**KBA3SM**
	8,5 - 16,0	12,0 - 21,0	1,3			36,0	34,0	34,0	37,0	59,5	**KBA3XMMLT***
	15,0 - 26,0	20,0 - 33,0	1,6			48,0	52,0	52,0	57,0	78,5	**KBA3M**
M40x1.5	12,0 - 20,0	16,0 - 26,0	1,6	18,0	40,0	45,0	40,0	40,0	44,0	62,0	**KBA4XSM**
	15,0 - 26,0	20,0 - 33,0	1,8			48,0	52,0	52,0	57,0	78,5	**KBA4SM**
	20,0 - 32,0	29,0 - 41,0	1,6			55,0	60,0	60,0	66,0	89,5	**KBA4M**
M50x1.5	15,0 - 26,0	20,0 - 33,0	1,8	18,0	50,0	54,0	52,0	52,0	57,0	78,4	**KBA5XSM**
	20,0 - 32,0	29,0 - 41,0	2,2			55,0	60,0	60,0	66,0	89,9	**KBA5XMM**
	22,0 - 35,0	33,0 - 48,0	1,8			60,0	70,0	75,0	82,0	96,5	**KBA5SM**
	27,0 - 41,0	36,0 - 52,0	2,2			70,0		74,0	83,0	100,0	**KBA5M**
M63x1.5	22,0 - 35,0	33,0 - 48,0	2,7	18,0	63,0	68,0	70,0	75,0	82,0	96,5	**KBA6XSM**
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	**KBA6XMM**
	35,0 - 45,0	43,0 - 57,0		20,0		75,0	80,0	80,0	89,5	106,0	**KBA6SM**
	40,0 - 52,0	47,0 - 60,0				85,0	85,0	85,0	94,0	108,0	**KBA6M**
M75x1.5	35,0 - 45,0	43,0 - 57,0	3,0	20,0	75,0	85,0	80,0	80,0	89,5	106,0	**KBA7XSM**
	40,0 - 52,0	47,0 - 60,0					85,0	85,0	94,0	108,0	**KBA7SM**
	45,0 - 60,0	54,0 - 70,0				90,0	95,0	100,0	110,5	125,0	**KBA7M**
M90x1.5	40,0 - 52,0	47,0 - 60,0	3.0	20,0	90,0	100,0	85,0	85,0	94,0	108,0	**KBA8XSM**
	45,0 - 60,0	54,0 - 70,0				95,0	95,0	100,0	110,5	124,0	**KBA8SM**
	60,0 - 72,0	63,0 - 80,0				110,0	115,0	115,0	127,0	154,0	**KBA8M**
M110x1.5	45,0 - 60,0	54,0 - 70,0	3,0	20,0	110,0	120,0	95,0	100,0	110,5	124,0	**KBA10SM**
	60,072,0	63,0 - 80,0	3,5				115,0	115,0	127,0	154,0	**KBA10M**

4 Function Ex d/e Glands

ORION

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		CR (Chloroprene Rubber)	Silicone
		-40°C / +100°C	-60°C / +130°C
	LT Version	-40°C / +80°C	-60°C / +80°C
Equipment For		Gas & Dust potentially explosive atmospheres	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db	
	Marking Example	BMD KBA.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		SWA - AWA	
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags	

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBA	5	N	LT	B	C	-	GC	SW	L	S	E

LT*: For temperature information, please see technical details.

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4 Function Ex d/e Glands

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max		Armour Wire	Thread Length	Thread Ø	Spanner Width			Outer min. Ø	max. Height	Part Number
	D	D1	Ø	TL	TD	SW Cap	SW Upper Body	SW Lower Body	D2	H	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 3/8"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	17,1	22,0	26,0	26,0	29,0	47,5	KBA01SN
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	KBA01N
NPT 1/2"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	21,3	24,0	26,0	26,0	29,0	47,5	KBA1SN
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	49,0	KBA1N
	8,5 - 14,5	12,0 - 20,0				28,0	30,0	32,0	35,0	56,4	KBA1NLT*
	12,0 - 14,5	16,0 - 20,0								52,0	KBA1LN
NPT 3/4"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	26,7	29,0	26,0	26,0	29,0	47,5	KBA2XSN
	6,0 - 12,0	8,5 - 16,0		18,0			29,0	29,0	31,5	50,5	KBA2SN
	8,5 - 14,5	12,0 - 20,0	1,6	16,0			30,0	32,0	35,0	56,4	KBA2XMNLT*
	8,5 - 16,0	12,0 - 21,0	1,2	18,0		32,0	34,0	34,0	37,0	59,5	KBA2NLT*
	12,0 - 16,0	16,0 - 21,0								54,5	KBA2N
	12,0 - 20,0	16,0 - 26,0	1,6	16,0		36,0	40,0	40,0	44,0	60,5	KBA2LN
NPT 1"	6,0 - 12,0	8,5 - 16,0	1,6	21,0	33,4	36,0	29,0	29,0	31,5	50,5	KBA3XSN
	12,0 - 20,0	16,0 - 26,0				40,0	40,0	40,0	44,0	62,0	KBA3SN
	8,5 - 16,0	12,0 - 21,0	1,8			36,0	34,0	34,0	37,0	59,5	KBA3XMNLT*
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	KBA3N
NPT 1 1/4"	12,0 - 20,0	16,0 - 26,0	1,8	21,0	42,1	45,0	40,0	40,0	44,0	62,0	KBA4XSN
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	KBA4SN
	20,0 - 32,0	29,0 - 41,0	2,2	18,0		55,0	60,0	60,0	66,0	89,5	KBA4N
NPT 1 1/2"	15,0 - 26,0	20,0 - 33,0	2,2	21,0	48,2	54,0	52,0	52,0	57,0	78,4	KBA5XSN
	20,0 - 32,0	29,0 - 41,0				55,0	60,0	60,0	66,0	88,7	KBA5XMN
	22,0 - 35,0	33,0 - 48,0	2,7			60,0	70,0	75,0	82,0	96,5	KBA5SN
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	KBA5N
NPT 2"	22,0 - 35,0	33,0 - 48,0	2,7	21,0	60,3	68,0	70,0	75,0	82,0	96,5	KBA6XSN
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	KBA6XMN
	35,0 - 45,0	43,0 - 57,0	3,5	20,0		75,0	80,0	80,0	89,5	106,0	KBA6SN
	40,0 - 52,0	47,0 - 60,0	3,0	21,0		85,0	85,0	85,0	94,0	108,0	KBA6N
NPT 2 1/2"	35,0 - 45,0	43,0 - 57,0	3,0	21,0	73,0	80,0	80,0	80,0	89,5	105,5	KBA7XSN
	40,0 - 52,0	47,0 - 60,0				85,0	85,0	85,0	94,0	108,0	KBA7SN
	45,0 - 60,0	54,0 - 70,0		20,0		90,0	95,0	100,0	110,5	125,0	KBA7N
NPT 3"	40,0 - 52,0	47,0 - 60,0	3,0	21,0	88,9	95,0	85,0	85,0	94,0	108,0	KBA8XSN
	45,0 - 60,0	54,0 - 70,0					95,0	100,0	110,5	124,0	KBA8SN
	60,0 - 72,0	63,0 - 80,0	3,5			110,0	115,0	115,0	127,0	154,0	KBA8N
NPT 3 1/2"	45,0 - 60,0	54,0 - 70,0	3,5	21,0	101,6	110,0	95,0	100,0	110,5	124,0	KBA9SN
	60,0 - 72,0	63,0 - 80,0					115,0	115,0	127,0	154,0	KBA9N

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ORION OFFSHORE

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		CR (Chloroprene Rubber)	Silicone
		-40°C / +100°C	-60°C / +130°C
	LT Version	-40°C / +80°C	-60°C / +80°C
Equipment For		Gas & Dust potentially explosive atmospheres	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC
			ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db	
	Marking Example	BMD KBAO.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		SWB - STA - Shielded	
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags	

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBAO	5	N	LT*	B	C	-	GC	SW	L	S	E

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Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max		Shielded Wire	Thread Length	Thread Ø	Spanner Width			Outer min. Ø	max. Height	Part Number
	D	D1	Ø	TL	TD	SW Cap	SW Upper Body	SW Lower Body	D2	H	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M16x1.5	3,0 - 8,5	6,0 - 12,0	0,5	16,0	16,0	22,0	26,0	26,0	29,0	47,5	**KBAO01SM**
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	**KBAO01M**
M20x1.5	3,0 - 8,5	6,0 - 12,0	0,5	16,0	20,0	24,0	26,0	26,0	29,0	47,5	**KBAO1SM**
	6,0 - 12,0	8,5 - 16,0	0,7			25,0	29,0	29,0	31,5	49,0	**KBAO1M**
	8,5 - 14,5	12,0 - 20,0				28,0	30,0	32,0	35,0	56,4	**KBAO1MLT***
	12,0 - 14,5	16,0 - 20,0								52,0	**KBAO1LM**
M25x1.5	3,0 - 8,5	6,0 - 12,0	0,5	16,0	25,0	29,0	26,0	26,0	29,0	47,5	**KBAO2XSM**
	6,0 - 12,0	8,5 - 16,0		18,0		29,0	29,0	29,0	31,5	50,5	**KBAO2SM**
	8,5 - 14,5	12,0 - 16,0	0,7	16,0		29,0	30,0	32,0	35,0	56,4	**KBAO2XMMLT***
	12,0 - 16,0	16,0 - 21,0		18,0		32,0	34,0	34,0	37,0	54,5	**KBAO2M**
	8,5 - 16,0	12,0 - 21,0								59,5	**KBAO2MLT***
	12,0 - 20,0	16,0 - 26,0				36,0	40,0	40,0	44,0	60,5	**KBAO2LM**
M32x1.5	6,0 - 12,0	8,5 - 16,0	0,7	18,0	32,0	36,0	29,0	29,0	31,5	50,5	**KBAO3XSM**
	12,0 - 20,0	16,0 - 26,0	0,5			40,0	40,0	40,0	44,0	62,0	**KBAO3SM**
	8,5 - 16,0	12,0 - 21,0	0,7			36,0	34,0	34,0	37,0	59,5	**KBAO3XMMLT***
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	**KBAO3M**
M40x1.5	12,0 - 20,0	16,0 - 26,0	0,7	18,0	40,0	45,0	40,0	40,0	44,0	62,0	**KBAO4XSM**
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	**KBAO4SM**
	20,0 - 32,0	29,0 - 41,0				55,0	60,0	60,0	66,0	89,5	**KBAO4M**
M50x1.5	15,0 - 26,0	20,0 - 33,0	0,7	18,0	50,0	54,0	52,0	52,0	57,0	78,4	**KBAO5XSM**
	20,0 - 32,0	29,0 - 41,0				55,0	60,0	60,0	66,0	89,9	**KBAO5XMM**
	22,0 - 35,0	33,0 - 48,0				60,0	70,0	75,0	82,0	96,5	**KBAO5SM**
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	**KBAO5M**
M63x1.5	22,0 - 35,0	33,0 - 48,0	0,9	18,0	63,0	68,0	70,0	75,0	82,0	96,5	**KBAO6XSM**
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	**KBAO6XMM**
	35,0 - 45,0	43,0 - 57,0		20,0		75,0	80,0	80,0	89,5	106,0	**KBAO6SM**
	40,0 - 52,0	47,0 - 60,0				85,0	85,0	85,0	94,0	108,0	**KBAO6M**
M75x1.5	35,0 - 45,0	43,0 - 57,0	0,9	20,0	75,0	85,0	80,0	80,0	89,5	106,0	**KBAO7XSM**
	40,0 - 52,0	47,0 - 60,0	1,0				85,0	85,0	94,0	108,0	**KBAO7SM**
	45,0 - 60,0	54,0 - 70,0	0,9			90,0	95,0	100,0	110,5	125,0	**KBAO7M**
M90x1.5	40,0 - 52,0	47,0 - 60,0	1,0	20,0	90,0	100,0	85,0	85,0	94,0	108,0	**KBAO8XSM**
	45,0 - 60,0	54,0 - 70,0				95,0	95,0	100,0	110,5	124,0	**KBAO8SM**
	60,0 - 72,0	63,0 - 80,0				110,0	115,0	115,0	127,0	154,0	**KBAO8M**
M110x1.5	45,0 - 60,0	54,0 - 70,0	1,0	20,0	110,0	120,0	95,0	100,0	110,5	124,0	**KBAO10SM**
	60,072,0	63,0 - 80,0	1,5				115,0	115,0	127,0	154,0	**KBAO10M**

4 Function Ex d/e Glands

ORION OFFSHORE

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		CR (Chloroprene Rubber)	Silicone
		-40°C / +100°C	-60°C / +130°C
	LT Version	-40°C / +80°C	-60°C / +80°C
Equipment For		Gas & Dust potentially explosive atmospheres	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC
			ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db	
	Marking Example	BMD KBAO.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		SWB - STA - Shielded	
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags	

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBAO	5	N	LT*	B	C	-	GC	SW	L	S	E

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Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max		Armour Wire	Thread Length	Thread Ø	Spanner Width			Outer min. Ø	max. Height	Part Number
	D	D1	Ø	TL	TD	SW Cap	SW Upper Body	SW Lower Body	D2	H	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 3/8"	3,0 - 8,5	6,0 - 12,0	0,5	16,0	17,1	22,0	26,0	26,0	29,0	47,5	KBAO01SN
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	KBAO01N
NPT 1/2"	3,0 - 8,5	6,0 - 12,0	0,5	16,0	21,3	24,0	26,0	26,0	29,0	47,5	KBAO1SN
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	49,0	KBAO1N
	8,5 - 14,5	12,0 - 20,0	0,7			28,0	30,0	32,0	35,0	56,4	KBAO1NLT*
	12,0 - 14,5	16,0 - 20,0	0,5							52,0	KBAO1LN
NPT 3/4"	3,0 - 8,5	6,0 - 12,0	0,5	16,0	26,7	29,0	26,0	26,0	29,0	47,5	KBAO2XSN
	6,0 - 12,0	8,5 - 16,0		18,0			29,0	29,0	31,5	50,5	KBAO2SN
	8,5 - 14,5	12,0 - 20,0	0,7	16,0			30,0	32,0	35,0	56,4	KBAO2XMNLT*
	8,5 - 16,0	12,0 - 21,0		18,0		32,0	34,0	34,0	37,0	59,5	KBAO2NLT*
	12,0 - 16,0	16,0 - 21,0	0,5							54,5	KBAO2N
	12,0 - 20,0	16,0 - 26,0	0,7	16,0		36,0	40,0	40,0	44,0	60,5	KBAO2LN
NPT 1"	6,0 - 12,0	8,5 - 16,0	0,7	21,0	33,4	36,0	29,0	29,0	31,5	50,5	KBAO3XSN
	12,0 - 20,0	16,0 - 26,0				40,0	40,0	40,0	44,0	62,0	KBAO3SN
	8,5 - 16,0	12,0 - 21,0				36,0	34,0	34,0	37,0	59,5	KBAO3XMNLT*
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	KBAO3N
NPT 1 1/4"	12,0 - 20,0	16,0 - 26,0	0,7	21,0	42,1	45,0	40,0	40,0	44,0	62,0	KBAO4XSN
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	KBAO4SN
	20,0 - 32,0	29,0 - 41,0		18,0		55,0	60,0	60,0	66,0	89,5	KBAO4N
NPT 1 1/2"	15,0 - 26,0	20,0 - 33,0	0,9	21,0	48,2	54,0	52,0	52,0	57,0	78,4	KBAO5XSN
	20,0 - 32,0	29,0 - 41,0				55,0	60,0	60,0	66,0	88,7	KBAO5XMN
	22,0 - 35,0	33,0 - 48,0				60,0	70,0	75,0	82,0	96,5	KBAO5SN
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	KBAO5N
NPT 2"	22,0 - 35,0	33,0 - 48,0	0,9	21,0	60,3	68,0	70,0	75,0	82,0	96,5	KBAO6XSN
	27,0 - 41,0	36,0 - 52,0	1,0			70,0		74,0	83,0	100,0	KBAO6XMN
	35,0 - 45,0	43,0 - 57,0	0,9	20,0		75,0	80,0	80,0	89,5	106,0	KBAO6SN
	40,0 - 52,0	47,0 - 60,0	1,0	21,0		85,0	85,0	85,0	94,0	108,0	KBAO6N
NPT 2 1/2"	35,0 - 45,0	43,0 - 57,0	1,0	21,0	73,0	80,0	80,0	80,0	89,5	105,5	KBAO7XSN
	40,0 - 52,0	47,0 - 60,0				85,0	85,0	85,0	94,0	108,0	KBAO7SN
	45,0 - 60,0	54,0 - 70,0		20,0		90,0	95,0	100,0	110,5	125,0	KBAO7N
NPT 3"	40,0 - 52,0	47,0 - 60,0	1,5	21,0	88,9	95,0	85,0	85,0	94,0	108,0	KBAO8XSN
	45,0 - 60,0	54,0 - 70,0	1,0				95,0	100,0	110,5	124,0	KBAO8SN
	60,0 - 72,0	63,0 - 80,0	1,5			110,0	115,0	115,0	127,0	154,0	KBAO8N
NPT 3 1/2"	45,0 - 60,0	54,0 - 70,0	1,0	21,0	101,6	110,0	95,0	100,0	110,5	124,0	KBAO9SN
	60,0 - 72,0	63,0 - 80,0	1,5				115,0	115,0	127,0	154,0	KBAO9N

4 Function Ex d/e Glands

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Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel		
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
		-40°C / +100°C	-60°C / +130°C	
	LT Version	-40°C / +80°C	-60°C / +80°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD KBAU.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		SWA - SWB - STA - PWA - AWA - Shielded		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBAU	5	N	LT*	B	C	-	GC	SW	L	S	E

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4 Function Ex d/e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D	Clamping Range Ø min-max D1	Armor Wire Ø	Shielded Wire Ø	Thread Length TL	Thread Ø TD	Spanner Width SW Cap	Spanner Width SW Upper Body	Spanner Width SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M16x1,5	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	16,0	22,0	26,0	26,0	29,0	47,5	**KBAU01SM**
	6,0 - 12,0	8,5 - 16,0					25,0	29,0	29,0	31,5	50,0	**KBAU01M**
M20x1,5	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	20,0	24,0	26,0	26,0	29,0	47,5	**KBAU1SM**
	6,0 - 12,0	8,5 - 16,0					25,0	29,0	29,0	31,5	49,0	**KBAU1M**
	8,5 - 14,5	12,0 - 20,0					28,0	30,0	32,0	35,0	56,4	**KBAU1MLT***
	12,0 - 14,5	16,0 - 20,0	1,3	0,7							52,0	**KBAU1LM**
M25x1,5	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	25,0	29,0	26,0	26,0	29,0	47,5	**KBAU2XSM**
	6,0 - 12,0	8,5 - 16,0			18,0		29,0	29,0	29,0	31,5	50,5	**KBAU2SM**
	8,5 - 14,5	12,0 - 16,0			16,0		29,0	30,0	32,0	35,0	56,4	**KBAU2XMMLT***
	12,0 - 16,0	16,0 - 21,0	1,3	0,7	18,0		32,0	34,0	34,0	37,0	54,5	**KBAU2M**
	8,5 - 16,0	12,0 - 21,0									59,5	**KBAU2MLT***
	12,0 - 20,0	16,0 - 26,0					36,0	40,0	40,0	44,0	60,5	**KBAU2LM**
M32x1,5	6,0 - 12,0	8,5 - 16,0	1,6	0,7	18,0	32,0	36,0	29,0	29,0	31,5	50,5	**KBAU3XSM**
	12,0 - 20,0	16,0 - 26,0	1,2	0.5			40,0	40,0	40,0	44,0	62,0	**KBAU3SM**
	8,5 - 16,0	12,0 - 21,0	1,3	0,7			36,0	34,0	34,0	37,0	59,5	**KBAU3XMMLT***
	15,0 - 26,0	20,0 - 33,0	1,6				48,0	52,0	52,0	57,0	78,5	**KBAU3M**
M40x1,5	12,0 - 20,0	16,0 - 26,0	1,6	0,7	18,0	40,0	45,0	40,0	40,0	44,0	62,0	**KBAU4XSM**
	15,0 - 26,0	20,0 - 33,0	1,8				48,0	52,0	52,0	57,0	78,5	**KBAU4SM**
	20,0 - 32,0	29,0 - 41,0	1,6				55,0	60,0	60,0	66,0	89,5	**KBAU4M**
M50x1,5	15,0 - 26,0	20,0 - 33,0	1,8	0,7	18,0	50,0	54,0	52,0	52,0	57,0	78,4	**KBAU5XSM**
	20,0 - 32,0	29,0 - 41,0	2,2				55,0	60,0	60,0	66,0	89,9	**KBAU5XMM**
	22,0 - 35,0	33,0 - 48,0	1,8				60,0	70,0	75,0	82,0	96,5	**KBAU5SM**
	27,0 - 41,0	36,0 - 52,0	2,2				70,0		74,0	83,0	100,0	**KBAU5M**
M63x1,5	22,0 - 35,0	33,0 - 48,0	2,7	0,9	18,0	63,0	68,0	70,0	75,0	82,0	96,5	**KBAU6XSM**
	27,0 - 41,0	36,0 - 52,0					70,0		74,0	83,0	100,0	**KBAU6XMM**
	35,0 - 45,0	43,0 - 57,0			20,0		75,0	80,0	80,0	89,5	106,0	**KBAU6SM**
	40,0 - 52,0	47,0 - 60,0					85,0	85,0	85,0	94,0	108,0	**KBAU6M**
M75x1,5	35,0 - 45,0	43,0 - 57,0	3,0	0,9	20,0	75,0	85,0	80,0	80,0	89,5	106,0	**KBAU7XSM**
	40,0 - 52,0	47,0 - 60,0		1.0				85,0	85,0	94,0	108,0	**KBAU7SM**
	45,0 - 60,0	54,0 - 70,0		0,9			90,0	95,0	100,0	110,5	125,0	**KBAU7M**
M90x1,5	40,0 - 52,0	47,0 - 60,0	3.0	1.0	20,0	90,0	100,0	85,0	85,0	94,0	108,0	**KBAU8XSM**
	45,0 - 60,0	54,0 - 70,0					95,0	95,0	100,0	110,5	124,0	**KBAU8SM**
	60,0 - 72,0	63,0 - 80,0					110,0	115,0	115,0	127,0	154,0	**KBAU8M**
M110x1,5	45,0 - 60,0	54,0 - 70,0	3,0	1,0	20,0	110,0	120,0	95,0	100,0	110,5	124,0	**KBAU10SM**
	60,0 - 72,0	63,0 - 80,0	3,5	1.5				115,0	115,0	127,0	154,0	**KBAU10M**

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Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel		
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
		-40°C / +100°C	-60°C / +130°C	
	LT Version	-40°C / +80°C	-60°C / +80°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD KBAU.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		SWA - SWB - STA - PWA - AWA - Shielded		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBAU	5	N	LT*	B	C	-	GC	SW	L	S	E

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Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max		Armor Wire	Shielded Wire	Thread Length	Thread Ø	Spanner Width			Outer min. Ø	max. Height	Part Number
	D	D1	Ø	Ø	TL	TD	SW Cap	SW Upper Body	SW Lower Body	D2	H	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 3/8"	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	17,14	22,0	26,0	26,0	29,0	47,5	KBAU01SN
	6,0 - 12,0	8,5 - 16,0					25,0	29,0	29,0	31,5	50,0	KBAU01N
NPT 1/2"	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	21,34	24,0	26,0	26,0	29,0	47,5	KBAU1SN
	6,0 - 12,0	8,5 - 16,0					25,0	29,0	29,0	31,5	49,0	KBAU1N
	8,5 - 14,5	12,0 - 20,0	1,3	0,7			28,0	30,0	32,0	35,0	56,4	KBAU1NLT
	12,0 - 14,5	16,0 - 20,0	1,2	0,5							52,0	KBAU1LN
NPT 3/4"	3,0 - 8,5	6,0 - 12,0	1,2	0,5	16,0	26,67	29,0	26,0	26,0	29,0	47,5	KBAU2XSN
	6,0 - 12,0	8,5 - 16,0	1,3	0,7	18,0			29,0	29,0	31,5	50,5	KBAU2SN
	8,5 - 14,5	12,0 - 20,0			16,0			30,0	32,0	35,0	56,4	KBAU2XMNLT
	8,5 - 16,0	12,0 - 21,0	1,6		18,0		32,0	34,0	34,0	37,0	59,5	KBAU2NLT
	12,0 - 16,0	16,0 - 21,0	1,2	0.5							54,5	KBAU2N
	12,0 - 20,0	16,0 - 26,0	1,3	0,7	16,0		36,0	40,0	40,0	44,0	60,5	KBAU2LN
NPT 1"	6,0 - 12,0	8,5 - 16,0	1,6	0,7	21,0	33,40	36,0	29,0	29,0	31,5	50,5	KBAU3XSN
	12,0 - 20,0	16,0 - 26,0	1,8				40,0	40,0	40,0	44,0	62,0	KBAU3SN
	8,5 - 16,0	12,0 - 21,0	1,6				36,0	34,0	34,0	37,0	59,5	KBAU3XMNLT
	15,0 - 26,0	20,0 - 33,0	1,8				48,0	52,0	52,0	57,0	78,5	KBAU3N
NPT 1 1/4"	12,0 - 20,0	16,0 - 26,0	2,2	0.7	21,0	42,16	45,0	40,0	40,0	44,0	62,0	KBAU4XSN
	15,0 - 26,0	20,0 - 33,0	1,8				48,0	52,0	52,0	57,0	78,5	KBAU4SN
	20,0 - 32,0	29,0 - 41,0	2,2		18,0		55,0	60,0	60,0	66,0	89,5	KBAU4N
NPT 1 1/2"	15,0 - 26,0	20,0 - 33,0	2,7	0,9	21,0	48,26	54,0	52,0	52,0	57,0	78,4	KBAU5XSN
	20,0 - 32,0	29,0 - 41,0					55,0	60,0	60,0	66,0	88,7	KBAU5XMN
	22,0 - 35,0	33,0 - 48,0					60,0	70,0	75,0	82,0	96,5	KBAU5SN
	27,0 - 41,0	36,0 - 52,0					70,0		74,0	83,0	100,0	KBAU5N
NPT 2"	22,0 - 35,0	33,0 - 48,0	3,0	0,9	21,0	60,33	68,0	70,0	75,0	82,0	96,5	KBAU6XSN
	27,0 - 41,0	36,0 - 52,0		1.0			70,0		74,0	83,0	100,0	KBAU6XMN
	35,0 - 45,0	43,0 - 57,0		0,9	20,0		75,0	80,0	80,0	89,5	106,0	KBAU6SN
	40,0 - 52,0	47,0 - 60,0		1.0	21,0		85,0	85,0	85,0	94,0	108,0	KBAU6N
NPT 2 1/2"	35,0 - 45,0	43,0 - 57,0	3,0	1,0	21,0	73,03	80,0	80,0	80,0	89,5	105,5	KBAU7XSN
	40,0 - 52,0	47,0 - 60,0					85,0	85,0	85,0	94,0	108,0	KBAU7SN
	45,0 - 60,0	54,0 - 70,0			20,0		90,0	95,0	100,0	110,5	125,0	KBAU7N
NPT 3"	40,0 - 52,0	47,0 - 60,0	3,5	1.5	21,0	88,9	95,0	85,0	85,0	94,0	108,0	KBAU8XSN
	45,0 - 60,0	54,0 - 70,0	3,0	1,0				95,0	100,0	110,5	124,0	KBAU8SN
	60,0 - 72,0	63,0 - 80,0	3,5	1,5			110,0	115,0	115,0	127,0	154,0	KBAU8N
NPT 3 1/2"	45,0 - 60,0	54,0 - 70,0	3,5	1,5	21,0	101,60	110,0	95,0	100,0	110,5	124,0	KBAU9SN
	60,0 - 72,0	63,0 - 80,0						115,0	115,0	127,0	154,0	KBAU9N

bimed

CABLE GLANDS
for Gas & Dust Application





Ex Glands / Group II-III / Gas & Dust
Ex II 2GD / Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db





Explosive gases, vapors and dusts have different chemical properties that affect the likelihood and severity of an explosion. Such properties include flame temperature, minimum ignition energy, upper and lower explosive limits, and molecular weight. Empirical testing is done to determine parameters such as the maximum experimental safe gap, minimum ignition current, explosion pressure and time to peak pressure, spontaneous ignition temperature, and maximum rate of pressure rise. Every substance has a differing combination of properties but it is found that they can be ranked into similar ranges, simplifying the selection of equipment for hazardous areas.

Flammability of combustible liquids are defined by their flash-point. The flash-point is the temperature at which the material will generate sufficient quantity of vapor to form an ignitable mixture. The flash point determines if an area needs to be classified. A material may have a relatively low autoignition temperature yet if its flash-point is above the ambient temperature, then the area may not need to be classified. Conversely if the same material is heated and handled above its flash-point, the area must be classified.

Each chemical gas or vapour used in industry is classified into a gas group.

Flammable dusts when suspended in air can explode. An old system of area classification to a British standard used a system of l etters to designate the zones. This has been replaced by a European numerical system, as set out in directive 1999/92/EU implemented in the UK as the Dangerous Substances and Explosives Atmospheres Regulations 2002

The boundaries and extent of these three dimensional zones should be decided by a competent person. There must be a site plan drawn up of the factory with the zones marked on.

1 Function Ex d/e Glands

E-OCTANS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBU.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags • Dome plugs • Flat cable seals		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	20150501-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
DNV·GL	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	• B: Brass • X: Stainless steel • BN: Nickel Plated • A: Aluminium Material	• C: Chloroprene • S: Silicone Seal		Dome Plug	Flat Seal	• GC: Chloroprene • GS: Silicone • GF: Fiber Gasket	Serrated Washer	Locknut	Shroud	Earth Tag	For Ex e
EBU (*BUE)	5	N	B	C	-	D	F	GC	SW	L	S	E	(TL9)

* BUE: Part Number is valid for Customs Union certificate.

Clamping Range (D)
Sealing Combinations

E-OCTANS
1 Function Ex d/e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length ** Ex e min. TL mm	Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M8x1,25	2,0 - 4,0	2,0 - 4,0	-	-	5,0	5,0	8,0	11	11	12,0	15,5	***EBU0XSM**
M12x1,5	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	12,0	22	22	24,0	30,5	***EBU0SM**
	3,0 - 8,0	6,0 - 8,0	3,0 - 6,0	-				20	20	22,0	27,0	***EBU0M**
M16x1,5	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	9,0	16,0	16,0	20	20	22,0	27,0	**EBU01SM**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0				22	22	24,0	31,0	**EBU01M**
M20x1,5	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	9,0	16,0	20,0	20	22	24,0	27,0	**EBU1SM**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0				22				**EBU1M**
	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0				28	28	31,0	30,0	**EBU12M**
M25x1,5	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	25,0	22	28	31,0	27,0	**EBU2SM**
	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0				28			30,5	**EBU2M**
	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0				35	35	39,0	34,0	**EBU23M**
M32x1,5	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	32,0	28	35	39,0	31,5	**EBU3SM**
	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0				35			33,0	**EBU3M**
	22,0 - 28,0	27,0 - 28,0	24,0 - 27,0	22,0 - 24,0				45	45	50,0	41,0	**EBU34M**
M40x1,5	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	9,0	18,0	40,0	35	45	50,0	33,0	**EBU4SM**
	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0				45			41,0	**EBU4M**
	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0				50	50	55,5	44,0	**EBU45M**
M50x1,5	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	9,0	18,0	50,0	45	55	61,0	43,0	**EBU5SM**
	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0				50			44,0	**EBU5M**
	35,0 - 44,0	41,0 - 44,0	38,0 - 41,0	35,0 - 38,0				64	64	70,0	43,0	**EBU56M**
M63x1,5	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	63,0	50	68	75,0	42,0	**EBU6SM**
	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0				64			43,0	**EBU6M**
	46,0 - 56,0	52,0 - 56,0	48,0 - 52,0	46,0 - 48,0				80	75	89,0	52,5	**EBU67M**
M75x1,5	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	9,0	20,0	75,0	64	80	89,0	45,0	**EBU7SM**
	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0				80			52,0	**EBU7M**
	60,0 - 69,0	-	65,0 - 69,0	60,0 - 65,0				95	95	105,0	55,0	**EBU78M**
M90x1,5	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0	9,0	20,0	90,0	80	95	105,0	52,0	**EBU8SM**
	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0				95			55,0	**EBU8M**
	75,0 - 82,0	81,0 - 82,0	78,0 - 81,0	75,0 - 78,0				105	105	117,0		**EBU810M**
M100x1,5	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0	9,0	20,0	100,0	95	105	117,0	55,0	**EBU10SM**
	75,0 - 85,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0				105				**EBU10M**
M110x1,5	85,0 - 95,0	91,0 - 95,0	88,0 - 91,0	85,0 - 88,0	9,0	20,0	110,0	115	115	128,0	57,0	**EBU11M**
M115x2,0	75,0 - 85,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0	9,0	24,0	115,0	105	130	145,0	59,0	**EBU115XSM**
	85,0 - 95,0	91,0 - 95,0	88,0 - 91,0	85,0 - 88,0				115				**EBU115SM**
	95,0 - 105,0	101,0 - 105,0	98,0 - 101,0	95,0 - 98,0				130			62,5	**EBU115M**
M130x2,0	105,0 - 115,0	111,0 - 115,0	108,0 - 111,0	105,108,0	9,0	24,0	130,0	140	140	156,0	65,5	**EBU13M**

* Only Ex e IIC Gb / Ex tb IIIC Db

1 Function Ex d/e Glands

E-OCTANS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBU.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags • Dome plugs • Flat cable seals		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	20150501-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
DNV·GL	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	• B: Brass • X: Stainless steel • BN: Nickel Plated • A: Aluminium Material	• C: Chloroprene • S: Silicone Seal		Dome Plug	Flat Seal	• GC: Chloroprene • GS: Silicone • GF: Fiber Gasket	Serrated Washer	Locknut	Shroud	Earth Tag	For Ex e
EBU (*BUE)	5	N	B	C	-	D	F	GC	SW	L	S	E	(TL9)

* BUE: Part Number is valid for Customs Union certificate.

Clamping Range (D)
Sealing Combinations

E-OCTANS
1 Function Ex d/e Glands

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	16,0	13,7	22	22	24,0	30,5	*EBU0SN
	3,0 - 8,0	6,0 - 8,0	3,0 - 6,0	-			20	20	22,0	27,0	*EBU0N
NPT 3/8"	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	16,0	17,1	20	20	22,0	27,0	EBU01SN
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0			22	22	24,0	30,5	EBU01N
NPT 1/2"	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	16,0	21,3	20	22	24,0	27,0	EBU1SN
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0			22		24,0	27,0	EBU1N
	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0			28	28	31,0	30,0	EBU12N
NPT 3/4"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	16,0	26,7	22	28	31,0	27,0	EBU2SN
	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0			28		31,0	30,0	EBU2N
	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0			35	35	39,0	33,0	EBU23N
NPT 1"	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	20,0	33,4	28	35	39,0	31,0	EBU3SN
	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0			35		39,0	33,0	EBU3N
	22,0 - 26,0	-	24,0 - 26,0	22,0 - 24,0			45	45	50,0	40,0	EBU34N
NPT 1 1/4"	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	42,2	35	45	50,0	33,0	EBU4SN
	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0			45		50,0	40,5	EBU4N
	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0			50	50	55,5	43,5	EBU4SN
NPT 1 1/2"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	48,3	45	55	61,0	42,5	EBU5SN
	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0			50		61,0	43,5	EBU5N
	35,0 - 41,0	-	38,0 - 41,0	35,0 - 38,0			64	64	70,0	42,0	EBU56N
NPT 2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	60,3	50	68	75,0	41,5	EBU6SN
	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0			64		75,0	43,5	EBU6N
	46,0 - 52,0	-	48,0 - 52,0	46,0 - 48,0			80	75	89,0	52,0	EBU67N
NPT 2 1/2"	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	21,0	73,0	64	80	89,0	45,5	EBU7SN
	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0			80		89,0	52,0	EBU7N
	60,0 - 64,0	-	-	60,0 - 64,0			95	95	105,0	55,0	EBU78N
NPT 3"	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0	21,0	88,9	80	95	105,0	52,0	EBU8SN
	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0			95		105,0	55,0	EBU8N
	75,0 - 79,5	-	78,0 - 79,5	75,0 - 78,0			105	105	117,0	55,0	EBU810N
NPT 4"	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0	21,0	114,3	95	115	128,0	55,0	EBU108N
	75,0 - 85,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0			105		128,0	55,0	EBU10N
	85,0 - 95,0	91,0 - 95,0	88,0 - 91,0	85,0 - 88,0			115		128,0	56,0	EBU11N
	95,0 - 101,0	-	98,0 - 101,0	95,0 - 98,0			130	130	145,0	62,5	EBU115N
NPT 5"	95,0 - 105,0	101,0 - 105,0	98,0 - 101,0	95,0 - 98,0	27,0	141,3	130	145	162,0	62,5	EBU13N
	105,0 - 115,0	111,0 - 115,0	108,0 - 111,0	105,0 - 108,0			140		162,0	65,5	EBU130N

* Only Ex e IIC Gb / Ex tb IIIC Db

1 Function Ex d/e Emc Glands

E-VELA

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
	Spring	Special Copper Alloy		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBS.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured, Shielded		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags • Dome plugs		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	20150501-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
DNV·GL	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Silicone Seal		Dome Plug	•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Shroud	Earth Tag	For Ex e
EBS	5	N	B	C	-	D	GC	SW	L	S	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-VELA
1 Function Ex d/e Emc Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Shield wire Ø mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length * Ex e min. TL mm	Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body mm	Outer Ø min. D2 mm	max. Height H mm	Part Number
M16x1,5	4,0 - 8,0	2,5	6,0 - 8,0	4,0 - 6,0	-	9,0	16,0	16,0	20	20	22,0	28,5	**EBS01MS**
									22	22	24,5		**EBS01M**
M20x1,5	4,0 - 12,0	2,5 - 10,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	18,0	20,0	22	22	24,5	27,0	**EBS1M**
M25x1,5	10,0 - 18,0	8,0 - 14,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	25,0	28	28	31,0	30,5	**EBS2M**
M32x1,5	14,0 - 24,0	12,0 - 20,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	9,0	19,0	32,0	35	35	39,0	33,0	**EBS3M**
M40x1,5	22,0 - 32,0	18,0 - 28,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	9,0	20,0	40,0	45	45	49,5	40,5	**EBS4M**
M50x1,5	26,0 - 35,0	22,0 - 31,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	9,0	20,0	50,0	55	50	61,0	43,5	**EBS5M**
M63x1,5	35,0 - 45,0	31,0 - 41,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	9,0	20,0	63,0	68	64	70,0	43,5	**EBS6M**
M75x1,5	46,0 - 62,0	42,0 - 58,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0	9,0	20,0	75,0	80	80	89,0	51,0	**EBS7M**
M90x1,5	60,0 - 75,0	56,0 - 71,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0	9,0	20,0	90,0	95	95	105,0	55,0	**EBS8M**
M100x1,5	75,0 - 85,0	71,0 - 81,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0	9,0	20,0	100,0	105	105	117,0	54,5	**EBS10M**
M110x1,5	85,0 - 95,0	81,0 - 91,0	91,0 - 95,0	88,0 - 91,0	85,0 - 88,0	9,0	20,0	110,0	115	115	128,0	56,0	**EBS11M**

* Only Ex e IIC Gb / Ex tb IIIC Db

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D mm	Shield wire Ø mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body mm	Outer Ø min. D2 mm	max. Height H mm	Part Number
NPT 3/8"	4,0 - 8,0	2,5	6,0 - 8,0	4,0 - 6,0	-	16,0	17,1	20	20	22,0	28,5	**EBS01NS**
								22	22	24,5		**EBS01N**
NPT 1/2"	4,0 - 12,0	2,5 - 10,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	18,0	21,3	22	22	24,5	27,0	**EBS1N**
NPT 3/4"	10,0 - 18,0	8,0 - 14,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	16,0	26,6	28	28	31,0	30,5	**EBS2N**
NPT 1"	14,0 - 24,0	12,0 - 20,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	33,4	35	35	39,0	33,0	**EBS3N**
NPT 1 1/4"	22,0 - 32,0	18,0 - 28,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	42,1	45	45	49,5	40,5	**EBS4N**
NPT 1 1/2"	26,0 - 35,0	22,0 - 31,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	48,2	55	50	61,0	43,5	**EBS5N**
NPT 2"	35,0 - 45,0	31,0 - 41,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	20,0	60,3	68	64	70,0	43,5	**EBS6N**
NPT 2 1/2"	46,0 - 62,0	52,0 - 58,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0	21,0	73,0	80	80	89,0	55,0	**EBS7N**
NPT 3"	60,0 - 75,0	56,0 - 71,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0	21,0	88,9	95	95	105,0	63,0	**EBS8N**
NPT 4"	75,0 - 85,0	71,0 - 81,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0	21,0	114,0	105	115	128,0	54,5	**EBS10N**
NPT 4"	85,0 - 95,0	81,0 - 91,0	91,0 - 95,0	88,0 - 91,0	85,0 - 88,0	21,0	114,0	115	115	128,0	56,0	**EBS11N**

1 Function Ex e Glands

NORMA

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	EPDM, Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		EPDM	Silicone	
	Ex e/tb	-40°C / +80°C	-60°C / +80°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD NBU.. Ex CE 0722 II 2GD Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx IMQ 13.0006X / IMQ 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:201 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•V: EPDM •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber •GE: EPDM Gasket	Serrated Washer	Locknut	Earth Tag
NBU	5	N	B	C	-	GC	SW	L	E

Clamping Range (D)
Sealing Combinations

NORMA

1 Function Ex e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	Seal Combinations S2 Ø mm	Thread Length Ex e min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø min. D2 mm	max. Height H mm	Part Number
M12x1,5	4,0 - 7,0	4,0 - 7,0	-	9,0	12,0	14	14	15,5	23,6	**NBU0XSM**
M16x1,5	5,0 - 8,0	5,0 - 8,0	-	9,0	16,0	18	18	20,0	28,2	**NBU01SM**
M20x1,5	8,0 - 14,0	11,0 - 14,0	8,0 - 11,0	9,0	20,0	22	22	24,0	27,4	**NBU1M**
M25x1,5	10,0 - 16,0	13,0 - 16,0	10,0 - 13,0	9,0	25,0	27	27	30,0	27,9	**NBU2M**
M32x1,5	16,0 - 21,0	18,0 - 21,0	16,0 - 18,0	9,0	32,0	34	34	37,5	31,9	**NBU3M**
M40x1,5	18,0 - 27,0	22,0 - 27,0	18,0 - 22,0	9,0	40,0	42	42	46,5	38,4	**NBU4M**
M50x1,5	26,0 - 35,0	30,0 - 35,0	26,0 - 30,0	9,0	50,0	52	52	59,0	38,3	**NBU5M**
M63x1,5	32,0 - 49,0	40,0 - 49,0	32,0 - 40,0	12,0	63,0	65	65	72,0	57,3	**NBU6M**

* Only Ex e IIC Gb / Ex tb IIIC Db

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	Seal Combinations S2 Ø mm	Thread Length Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø min. D2 mm	max. Height H mm	Part Number
NPT 1/4"	4,0 - 7,0	4,0 - 7,0	-	16,0	13,7	14	14	15,5	39,6	**NBU0XSN**
NPT 3/8"	5,0 - 8,0	5,0 - 8,0	-	16,0	17,2	18	18	20,0	44,2	**NBU01SN**
NPT 1/2"	8,0 - 14,0	11,0 - 14,0	8,0 - 11,0	16,0	21,3	22	22	24,0	43,4	**NBU1N**
NPT 3/4"	10,0 - 16,0	13,0 - 16,0	10,0 - 13,0	16,0	26,7	27	27	30,0	43,9	**NBU2N**
NPT 1"	16,0 - 21,0	18,0 - 21,0	16,0 - 18,0	20,0	33,4	34	34	37,5	51,9	**NBU3N**
NPT 1 1/4"	18,0 - 27,0	22,0 - 27,0	18,0 - 22,0	20,0	42,2	42	42	46,5	58,4	**NBU4N**
NPT 1 1/2"	26,0 - 35,0	30,0 - 35,0	26,0 - 30,0	20,0	48,3	52	52	59,0	58,3	**NBU5N**
NPT 2"	32,0 - 49,0	40,0 - 49,0	32,0 - 40,0	20,0	60,3	65	65	72,0	77,3	**NBU6N**

1 Function Ex d/e Glands

CRATER

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/e/tb	-40°C / +80°C	-60°C / +80°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD KBU.. Ex CE 0722 II 2GD Ex e IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6.0 IEC 60079-1:2007-04 Edition:6.0 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earth Tag
KBU	5	N	B	C	-	GC	SW	L	E

CRATER
1 Function Ex d/e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M16x1.5	3,0 - 8,5	16,0	16,0	22	26	29,0	25,0	KBU01M
	6,0 - 12,0			25	29	31,5	28,5	KBU01LM
M20x1.5	6,0 - 12,0	16,0	20,0	25	29	31,5	27,5	KBU1M
	12,0 - 14,5			28	30	33,5	29,0	KBU1LM
M25x1.5	6,0 - 12,0	18,0	25,0	29	29	31,5	28,5	KBU2SM
	12,0 - 16,0			32	35	37,0		KBU2M
	12,0 - 20,0			36	40	44,5	32,5	KBU2LM
M32x1.5	12,0 - 20,0	18,0	32,0	40	40	44,5	33,5	KBU3SM
	15,0 - 26,0			48	52	57,0	41,0	KBU3M
M40x1.5	15,0 - 26,0	18,0	40,0	48	52	57,0	41,0	KBU4SM
	20,0 - 32,0			55	60	66,0	50,0	KBU4M
M50x1.5	22,0 - 35,0	18,0	50,0	60	70	77,0	50,5	KBU5SM
	27,0 - 41,0			70			54,0	KBU5M
M63x1.5	35,0 - 45,0	20,0	63,0	75	80	89,5	61,5	KBU6SM
	40,0 - 52,0			85	85	94,0		KBU6M
M75x1.5	40,0 - 52,0	20,0	75,0	85	85	94,0	61,5	KBU7SM
	45,0 - 60,0			90	95	105,0	72,0	KBU7M
M90x1.5	45,0 - 60,0	20,0	90,0	95	95	105,0	72,0	KBU8SM
	60,0 - 72,0			110	115	127,0	84,0	KBU8M

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Lower Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT3/8"	3,0 - 8,5	16,0	17,2	22	26	29,0	25,0	KBU01N
	6,0 - 12,0			25	29	31,5	28,5	KBU01LN
NPT1/2"	6,0 - 12,0	16,0	21,3	25	29	31,5	27,5	KBU1N
	8,5 - 12,0			28	30	33,5	29,0	KBU1LN
NPT3/4"	6,0 - 12,0	18,0	26,7	29	29	31,5	28,5	KBU2SN
	12,0 - 16,0			32	35	37,0		KBU2N
	12,0 - 20,0	16,0		36	40	44,5	32,5	KBU2LN
NPT1"	12,0 - 20,0	21,0	33,4	40	40	44,5	33,5	KBU3SN
	15,0 - 26,0			48	52	57,0	41,0	KBU3N
NPT1 1/4"	15,0 - 26,0	21,0	42,2	48	52	57,0	41,0	KBU4SN
	20,0 - 32,0	18,0		55	60	66,0	50,0	KBU4N
NPT1 1/2"	22,0 - 35,0	21,0	48,3	60	70	77,0	50,5	KBU5SN
	27,0 - 41,0			70			54,0	KBU5N
NPT2"	35,0 - 45,0	20,0	60,3	75	80	89,5	61,5	KBU6SN
	40,0 - 52,0	21,0		85	85	94,0		KBU6N
NPT2 1/2"	40,0 - 52,0	21,0	73,0	85	85	94,0	61,5	KBU7SN
	45,0 - 60,0	20,0		90	95	105,0	72,0	KBU7N
NPT3"	45,0 - 60,0	21,0	88,9	95	95	105,0	72,0	KBU8SN
	60,0 - 72,0			110	115	127,0	84,0	KBU8N

bimed

Liquid Tight and Flexible Conduit Fittings for Gas & Dust Application





Ex Fittings / Group II-III / Gas & Dust
Ex II 2GD / Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db



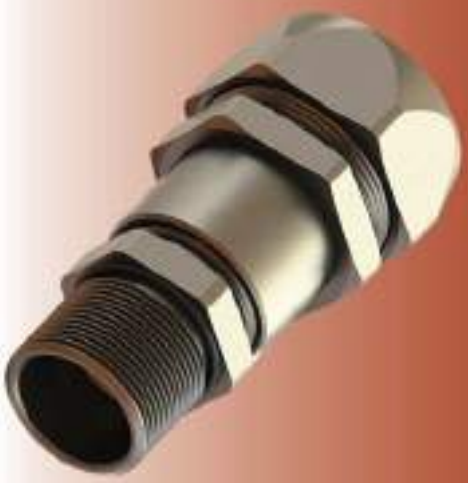


Typical applications for liquidtight conduit and liquidtight fittings include the wiring of machine tools, motors, transformers, food processing equipment, robotics, air conditioning units, illuminated store front signs and billboards, etc. The flexible metallic conduit and fittings protect conductors from mechanical damage due to vibration and movement, and seal out cutting oils, coolants, water, dust, etc. Applications such as these can be found in, but are not limited to, industries such as:

- Machine tool manufacturers
- Electric power generating plants
- Waste treatment facilities
- Paint manufacturing facilities
- Automobile manufacturing facilities
- Aerospace industries
- Breweries
- Food processing plants
- Dairies
- Pulp and paper mills
- Petroleum refineries
- Chemical and petrochemical plants

1 Function Ex d/e
Liquid Tight Conduit Straight Fittings

E-HYDRUS



Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
	Ferrule	Steel Zinc Plated, Brass Nickel Plated		
	Plastic Ring	Polyamide		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBLS.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

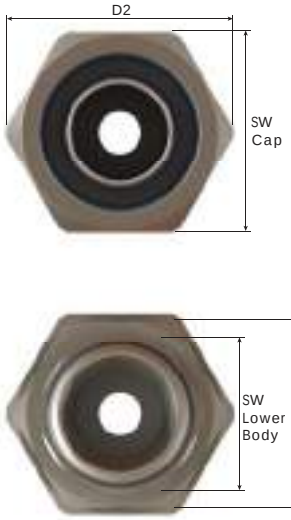
	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earth Tag	For Ex e
EBLS	5	M	B	C	-	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations



E-HYDRUS
1 Function Ex d/e
Liquid Tight Conduit Straight Fittings

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length * Ex e min. TL	Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M12x1,5	4,0 - 8,0	-	6,0 - 8,0	4 - 6	9,0	16,0	12,0	29	27	22	31,5	55,0	***EBLS02M**
M16x1,5	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4 - 6	9,0	16,0	16,0	29	27	22	31,5	55,0	**EBLS01M**
M20x1,5	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4 - 6	9,0	16,0	20,0	26	24	22	29,0	48,5	**EBLS1SM**
	4,0 - 12,0	9,0 - 12,0						29	27		31,5	51,0	**EBLS1M**
M25x1,5	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10 - 12	9,0	16,0	25,0	35	33	28	39,0	54,0	**EBLS2M**
M32x1,5	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14 - 17	9,0	16,0	32,0	45	43	35	50,0	62,0	**EBLS3M**
M40x1,5	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22 - 24	9,0	18,0	40,0	54	52	45	60,0	73,5	**EBLS4M**
M50x1,5	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26 - 28	9,0	18,0	50,0	63	60	55	69,3	79,5	**EBLS5M**

* Only Ex e/ Ex tb execution.

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	16,0	13,7	29	27	22	31,5	55,0	***EBLS02N**
NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	16,0	17,1	29	27	22	31,5	55,0	**EBLS01N**
NPT 1/2"	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4,0 - 6,0	16,0	21,3	26	24	22	29,0	48,5	**EBLS1SN**
	4,0 - 12,0	9,0 - 12,0					29	27		31,5	51,0	**EBLS1N**
NPT 3/4"	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	16,0	26,6	35	33	28	39,0	53,5	**EBLS2N**
NPT 1"	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	33,4	45	43	35	50,0	62,0	**EBLS3N**
NPT 1 1/4"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	42,1	54	52	45	60,0	73,5	**EBLS4N**
NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	48,2	63	60	55	69,3	79,5	**EBLS5N**

* Only Ex e/ Ex tb execution.

1 Function Ex d/e
Liquid Tight Conduit 45° Fittings

E-SCORPIUS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
	Ferrule	Steel Zinc Plated, Brass Nickel Plated		
	Plastic Ring	Polyamide		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBLQ.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armor		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ TC RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earthtag	For Ex e
EBLQ	5	M	B	C	-	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-SCORPIUS
1 Function Ex d/e
Liquid Tight Conduit 45° Fittings

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length * Ex e min. TL	Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Middle Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M12x1,5	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	12,0	29	27	27	22	31,5	86,5	***EBLQ02M**
M16x1,5	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	16,0	29	27	27	22	31,5	86,5	**EBLQ01M**
M20x1,5	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	20,0	26	22	27	22	30,0	81,0	**EBLQ1SM**
	4,0 - 12,0	9,0 - 12,0						29	27			31,5	83,0	**EBLQ1M**
M25x1,5	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	25,0	35	33	33	28	39,0	94,5	**EBLQ2M**
M32x1,5	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	9,0	16,0	32,0	45	42	42	35	50,0	111,5	**EBLQ3M**
M40x1,5	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	9,0	18,0	40,0	54	51	51	45	60,0	131,5	**EBLQ4M**
M50x1,5	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	50,0	63	60	60	55	69,3	143,5	**EBLQ5M**

* Only Ex e/ Ex tb execution.

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Middle Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	16,0	13,7	29	27	27	22	31,5	86,5	***EBLQ02N**
NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	16,0	17,1	29	27	27	22	31,5	86,5	**EBLQ01N**
NPT 1/2"	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4,0 - 6,0	16,0	21,3	26	22	27	22	30,0	81,0	**EBLQ1SN**
	4,0 - 12,0	9,0 - 12,0					29	27			31,5	83,0	**EBLQ1N**
NPT 3/4"	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	16,0	26,6	35	33	33	28	39,0	94,0	**EBLQ2N**
NPT 1"	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	33,4	45	42	42	35	50,0	111,5	**EBLQ3N**
NPT 1 1/4"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	42,1	54	51	51	45	60,0	131,5	**EBLQ4N**
NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	48,2	63	60	60	55	69,3	143,5	**EBLQ5N**

* Only Ex e/ Ex tb execution.

1 Function Ex d/e
Liquid Tight Conduit 90° Fittings

E-LUPUS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium	
	Seal	CR (Chloroprene Rubber), Silicone	
	Ferrule	Steel Zinc Plated, Brass Nickel Plated	
	Plastic Ring	Polyamide	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		CR (Chloroprene Rubber)	Silicone
	Ex d/tb	-40°C / +80°C	-60°C / +80°C
	Ex e/tb	-40°C / +80°C	-60°C / +140°C
Equipment For		Gas & Dust potentially explosive atmospheres	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db	
	Marking Example	BMD EBLN.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		Non Armor	
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags	

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ TC RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earthtag	For Ex e
EBLN	5	M	B	C	-	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-LUPUS
1 Function Ex d/e
Liquid Tight Conduit 90° Fittings

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length * Ex e min. TL	Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Middle Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M12x1,5	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	12,0	29	27	27	22	31,5	81,5	***EBLN02M**
M16x1,5	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	16,0	29	27	27	22	31,5	81,5	**EBLN01M**
M20x1,5	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	20,0	26	22	27	22	30,0	73,0	**EBLN1SM**
	4,0 - 12,0	9,0 - 12,0						29	27			31,5	77,5	**EBLN1M**
M25x1,5	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	25,0	35	33	33	28	39,0	88,0	**EBLN2M**
M32x1,5	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	9,0	16,0	32,0	45	42	42	35	50,0	102,0	**EBLN3M**
M40x1,5	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	9,0	18,0	40,0	54	51	51	45	60,0	120,0	**EBLN4M**
M50x1,5	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	50,0	63	60	60	55	69,3	135,0	**EBLN5M**

* Only Ex e/ Ex tb execution.

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D	Seal Combinations S1 Ø	S2 Ø	S3 Ø	Thread Length Ex d min. TL	Thread Ø TD	Spanner Width SW Cap	SW Upper Body	SW Middle Body	SW Lower Body	Outer min. Ø D2	max. Height H	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	16,0	13,7	29	27	27	22	31,5	81,5	***EBLN02N**
NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	16,0	17,1	29	27	27	22	31,5	81,5	**EBLN01N**
NPT 1/2"	4,0 - 10,0	9,0 - 10,0	6,0 - 9,0	4,0 - 6,0	16,0	21,3	26	22	27	22	30,0	73,0	**EBLN1SN**
	4,0 - 12,0	9,0 - 12,0					29	27			31,5	77,5	**EBLN1N**
NPT 3/4"	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	16,0	26,6	35	33	33	28	39,0	88,0	**EBLN2N**
NPT 1"	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	33,4	45	42	42	35	50,0	102,0	**EBLN3N**
NPT 1 1/4"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	42,1	54	51	51	45	60,0	120,0	**EBLN4N**
NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	48,2	63	60	60	55	69,3	135,0	**EBLN5N**

* Only Ex e/ Ex tb execution.

1 Function Ex d/e
Flexible Conduit Straight Fittings

E-CORVUS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBMC.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armor		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Size	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	• B: Brass • X: Stainless steel • BN: Nickel Plated • A: Aluminium Material	• C: Chloroprene • S: Silicone Seal		• GC: Chloroprene • GS: Silicone • GF: Fiber Gasket	Serrated Washer	Locknut	Earthtag	For Ex e
EBMC	5	M	B	C	-	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-CORVUS
1 Function Ex d/e
Flexible Conduit Straight Fittings

Thread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length * Ex e min. TL mm	Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Middle Body mm	SW Lower Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M12x1,5	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	12,0	24	24	22	26,5	40,5	***EBMC0SM**
M16x1,5	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	9,0	16,0	16,0	20	20	20	22,0	36,0	**EBMC01SM**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0				24	24	22	26,5	40,5	**EBMC01M**
M20x1,5	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	9,0	16,0	20,0	20	20	22	22,0	36,0	**EBMC1SM**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0				24	24	22	26,5	36,5	**EBMC1M**
	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0				29	29	28	31,5	39,5	**EBMC12M**
M25x1,5	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	25,0	29	29	28	31,5	40,0	**EBMC2M**
	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0				36	36	35	39,8	45,0	**EBMC23M**
M32x1,5	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	9,0	16,0	32,0	36	36	35	39.8	44,5	**EBMC3M**
	22,0 - 28,0	27,0 - 28,0	24,0 - 27,0	22,0 - 24,0				45	45	45	50,0	52,0	**EBMC34M**
M40x1,5	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	9,0	18,0	40,0	45	45	45	50,0	52,0	**EBMC4M**
	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0				52	52	50	59,0	57,5	**EBMC45M**
M50x1,5	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	50,0	52	52	55	59,0	57,5	**EBMC5M**
	35,0 - 44,0	41,0 - 44,0	38,0 - 41,0	35,0 - 38,0				65	65	64	72,0	56,0	**EBMC56M**
M63x1,5	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	9,0	18,0	63,0	65	65	68	72,0	56,5	**EBMC6M**
M75x1,5	46,0 - 59,0	56,0 - 59,0	51,0 - 56,0	46,0 - 51,0	9,0	20,0	75,0	80	80	80	89,0	67,0	**EBMC7M**

* Only Ex e/ Ex tb execution.

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length Ex d min. TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	SW Middle Body mm	SW Lower Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	16,0	13,7	24	24	22	26,5	40,5	***EBMC0SN**
NPT 3/8"	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	16,0	17,2	20	20	20	22,0	36,0	**EBMC01SN**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0			24	24	22	26,5	40,5	**EBMC01N**
NPT 1/2"	3,0 - 9,0	6,0 - 9,0	3,0 - 6,0	-	16,0	21,3	20	20	22	22,0	36,0	**EBMC1SN**
	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0			24	24	22	26,5	37,0	**EBMC1N**
	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0			29	29	28	31,5	39,5	**EBMC12N**
NPT 3/4"	10,0 - 18,0	14,5 - 18,0	12,0 - 14,5	10,0 - 12,0	16,0	26,7	29	29	28	31,5	39,5	**EBMC2N**
	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0			36	36	35	39,8	44,0	**EBMC23N**
NPT 1"	14,0 - 24,0	20,0 - 24,0	17,0 - 20,0	14,0 - 17,0	20,0	33,4	36	36	35	39,8	44,0	**EBMC3N**
	22,0 - 28,0	27,0 - 28,0	24,0 - 27,0	22,0 - 24,0			45	45	45	50,0	51,5	**EBMC34N**
NPT 1 1/4"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0	22,0 - 24,0	20,0	42,2	45	45	45	50,0	52,0	**EBMC4N**
	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0			52	52	50	59,0	57,5	**EBMC45N**
NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0	20,0	48,3	52	52	55	59,0	57,5	**EBMC5N**
	35,0 - 44,0	41,0 - 44,0	38,0 - 41,0	35,0 - 38,0			65	65	64	72,0	55,0	**EBMC56N**
NPT 2"	35,0 - 45,0	41,0 - 45,0	38,0 - 41,0	35,0 - 38,0	20,0	60,3	65	65	68	72	56,5	**EBMC6N**
NPT 2 1/2"	46,0 - 59,0	56,0 - 59,0	51,0 - 56,0	46,0 - 51,0	21,0	73,0	80	80	80	89	67	**EBMC7N**

* Only Ex e/ Ex tb execution.

bimed

RIGID CONDUIT FITTINGS
for Gas & Dust Application





Ex Fittings / Group II-III / Gas & Dust
Ex II 2GD / Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db





Despite the similarity to pipes used in plumbing, purpose-designed electrical fittings are used to connect conduit. Box connectors join conduit to a junction box or other electrical box. A typical box connector is inserted into a knockout in a junction box, with the threaded end then being secured with a ring (called a lock nut) from within the box, as a bolt would be secured by a nut. The other end of the fitting usually has a screw or compression ring which is tightened down onto the inserted conduit.

Fittings for non-threaded conduits are either secured with set screws or with a compression nut that encircles the conduit. Fittings for general purpose use with metal conduits may be made of die-cast zinc, but where stronger fittings are needed, they are made of copper-free aluminum or cast iron.

Sometimes the fittings are considered sufficiently conductive to bond (electrically unite) the metal conduit to a metal junction box (thus sharing the box's ground connection); other times, grounding bushings are used which have bonding jumpers from the bushing to a grounding screw on the box. Unlike water piping, if it the conduit is to be watertight, the idea is to keep water out, not in. In this case, gaskets are used with special fittings, such as the weatherhead leading from the overhead electrical mains to the electric meter.

1 Function Ex d/e
Rigid Conduit Fittings

E-CARINA

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBM.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx IMQ 13.0006X / IMQ 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armor		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags • Flat cable Seals		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Thread Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	Pipe Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Pipe Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Slicone Seal		Flat Seal	•GC: Chloroprene •GS: Slicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earthtag	*For Ex e
EBM	5	M	5	N	B	C	-	F	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-CARINA

1 Function Ex d/e
Rigid Conduit Fittings

Thread Type **METRIC** acc. to ISO 965-3

Thread Size M	Pipe Thread Size F	Clamping Range Ø min-max D mm	Seal Combinations S1 Ø mm	S2 Ø mm	S3 Ø mm	Thread Length TL1*	TL1 mm	TL2	Thread Ø TD mm	Spanner Width SW Cap mm	SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Design Type TDM TDF	Part Number
M12x1,5	NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	16,0	12,0	24	22	26,5	60,0	M12 1/4"	EBM0SM0SN
	NPT 3/8"													M12 3/8"	EBM0SM01N
M16x1,5	NPT 1/4"	4,0 - 8,0	-	6,0 - 8,0	4,0 - 6,0	9,0	16,0	16,0	16,0	24	22	26,5	60,0	M16 1/4"	EBM01M0SN
	NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0									46,5	M16 3/8"	EBM01M01N
	NPT 1/2"												46,0	M16 1/2"	EBM01M12N
M20x1,5	NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	16,0	20,0	30	28	33,0	46,5	M20 3/8"	EBM12M01N
	NPT 1/2"									24	22	26,5	43,0	M20K 1/2"K	EBM1M1N
		10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0					30	28	33,0	46,0	M20 1/2"	EBM12M12N
	NPT 3/4"												49,0	M20 3/4"	EBM12M23N
M25x1,5	NPT 1/2"	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	16,0	25,0	35	35	39,0	46,0	M25 1/2"	EBM23M12N
	NPT 3/4"	10,0 - 18,0	14,5 - 18,0							30	28	33,0	46,0	M25K 3/4"K	EBM2M2N
		14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0					35	35	39,0	49,0	M25 3/4"	EBM23M23N
	NPT 1"							20,0					60,0	M25 1"	EBM23M34N
M32x1,5	NPT 3/4"	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0	9,0	16,0	16,0	32,0	45	45	49,5	49,0	M32 3/4"	EBM34M23N
	NPT 1"	14,0 - 24,0	20,0 - 24,0					20,0		35	35	39,0	53,0	M32K 1"K	EBM3M3N
		22,0 - 26,0	-	24,0 - 26,0	22,0 - 24,0					45	45	49,5	60,0	M32 1"	EBM34M34N
	NPT 1 1/4"	22,0 - 28,0	27,0 - 28,0	24,0 - 27,0									63,5	M32 1 1/4"	EBM34M45N
M40x1,5	NPT 1"	22,0 - 26,0	-	24,0 - 26,0	22,0 - 24,0	9,0	18,0	20,0	40,0	50	50	56,0	60,0	M40 1"	EBM45M34N
	NPT 1 1/4"	22,0 - 32,0	28,0 - 32,0	24,0 - 27,0	22,0 - 24,0					45	45	49,5	60,5	M40K 1 1/4"K	EBM4M4N
		26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0					50	50	56,0	63,5	M40 1 1/4"	EBM45M45N
	NPT 1 1/2"									50	50	56,0	62,0	M40 1 1/2"	EBM45M56N
M50x1,5	NPT 1 1/4"	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	20,0	50,0	55	55	61,0	63,5	M50 1 1/4"	EBM5M45N
	NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0	28,0 - 31,0	26,0 - 28,0					55	55	61,0	63,5	M50K 1 1/2"K	EBM5M5N
		35,0 - 41,0	-	38,0 - 41,0	35,0 - 38,0					64	64	70,0	62,0	M50 1 1/2"	EBM56M56N
	NPT 2"	35,0 - 44,0	41,0 - 44,0	38,0 - 41,0	35,0 - 38,0					64	64	70,0	72,0	M50 2"	EBM56M67N
M63x1,5	NPT 1 1/2"	35,0 - 41,0	-	38,0 - 41,0	35,0 - 38,0	9,0	18,0	20,0	63,0	80	75	89,0	62,0	M63 1 1/2"	EBM67M56N
	NPT 2"	35,0 - 45,0	41,0 - 45,0							68	68	75,0	63,5	M63K 2"K	EBM6M6N
		46,0 - 52,0	-	48,0 - 52,0	46,0 - 48,0					80	75	89,0	72,0	M63 2"	EBM67M67N
	NPT 2 1/2"	46,0 - 56,0	52,0 - 56,0					21,0					76,0	M63 2 1/2"	EBM67M78N
M75x1,5	NPT 2 1/2"	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0	9,0	20,0	21,0	75,0	80	80	89,0	73,0	M75K 2 1/2"K	EBM7M7N
		60,0 - 64,0	-	-	60,0 - 64,0					95	95	105,0	76,0	M75 2 1/2"	EBM78M78N
	NPT 3"	60,0 - 69,0		65,0 - 69,0	60,0 - 65,0									M75 3"	EBM78M810N
M90x1,5	NPT 2 1/2"	60,0 - 64,0	-	-	60,0 - 64,0	9,0	20,0	21,0	90,0	105	105	117,0	76,0	M90 2 1/2"	EBM810M78N
	NPT 3"	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0					95	95	105,0		M90K 3"K	EBM8M8N
		75,0 - 79,5	-	78,0 - 79,5	75,0 - 78,0					105	105	117,0		M90 3"	EBM810M810N
	NPT 4"	75,0 - 82,0	81,0 - 82,0	78,0 - 81,0										M90K 4"K	EBM810M10N
M100x1,5	NPT 3"	75,0 - 79,5	-	78,0 - 79,5	75,0 - 78,0	9,0	20,0	21,0	100,0	105	105	117,0	76,0	M100 3"	EBM10M810N
	NPT 4"	75,0 - 85,0	81,0 - 85,0	78,0 - 81,0										M100K 4"K	EBM10M10N
M110x1,5	NPT 4"	85,0 - 95,0	92,0 - 95,0	89,0 - 92,0	85,0 - 89,0	9,0	20,0	21,0	110,0	115	115	128,0	77,0	M110 4"	EBM11M11N

* Only Ex e IIC Gb / Ex tb IIIC Db

1 Function Ex d/e
Rigid Conduit Swivel Fittings

E-CYGNUS

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Wire Ring	Steel		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		CR (Chloroprene Rubber)	Silicone	
	Ex d/tb	-40°C / +80°C	-60°C / +80°C	
	Ex e/tb	-40°C / +80°C	-60°C / +140°C	
Equipment For		Gas & Dust potentially explosive atmospheres		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EBMS.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx IMQ 13.0006X / IMQ 13 ATEX 018X		
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type		Non Armor		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Thread Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Thread	Pipe Size	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Pipe Thread	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Slicone Seal		•GC: Chloroprene •GS: Slicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earthtag	*For Ex e
EBMS	5	M	5	N	B	C	-	GC	SW	L	E	(TL9)

Clamping Range (D)
Sealing Combinations

E-CYGNUS
1 Function Ex d/e
Rigid Conduit Swivel Fittings

Thread Type **METRIC** acc. to ISO 965-3

Thread Size	Pipe Thread Size	Clamping Range Ø min-max	Seal Combinations			Thread Length			Thread Ø	Spanner Width			Outer min. Ø	max. Height	Design Type	Part Number
		D	S1 Ø	S2 Ø	S3 Ø	TL1*	TL1	TL2	TD	SW Cap	SW Body 1	SW Body 2	D2	H	TDM TDF	
M	F	mm	mm	mm	mm	mm			mm	mm	mm	mm	mm	mm		
M16x1,5	NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	16,0	16,0	22	27	27	30,0	54,5	M16 3/8"	EBMS01M01N
	NPT 1/2"										30	32	35,5	56,0	M16 1/2"	EBMS01M12N
M20 x1,5	NPT 3/8"	4,0 - 12,0	9,0 - 12,0	6,0 - 9,0	4,0 - 6,0	9,0	16,0	16,0	20,0	28	27	27	31,0	54,5	M20 3/8"	EBMS12M01N
	NPT 1/2"									22			30,0	51,0	M20K 1/2"K	EBMS1M1N
	NPT 3/4"	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0					28	30	32	35,5	56,0	M20 1/2"	EBMS12M12N
											40	40	44,5	59,0	M20 3/4"	EBMS12M23N
M25 x1,5	NPT 1/2"	10,0 - 16,0	14,5 - 16,0	12,0 - 14,5	10,0 - 12,0	9,0	16,0	16,0	25,0	35	30	32	39,0	56,0	M25 1/2"	EBMS23M12N
	NPT 3/4"	10,0 - 18,0	14,5 - 18,0							28			35,5		M25K 3/4"K	EBMS2M2N
		14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0					35	40	40	44,5	59,0	M25 3/4"	EBMS23M23N
	NPT 1"							20,0			45	48	53,3	70,0	M25 1"	EBMS23M34N
M32 x1,5	NPT 3/4"	14,0 - 20,0	-	17,0 - 20,0	14,0 - 17,0	9,0	16,0	16,0	32,0	45	40	40	50,0	59,0	M32 3/4"	EBMS34M23N
	NPT 1"	14,0 - 24,0	20,0 - 24,0					20,0		35			44,5	63,0	M32K 1"K	EBMS3M3N
		22,0 - 28,0	27,0 - 28,0	24,0 - 27,0	22,0 - 24,0					45	45	48	53,3	70,0	M32 1"	EBMS34M34N
	NPT 1 1/4"										50	50	55,5	76,0	M32 1 1/4"	EBMS34M45N
M40 x1,5	NPT 1"	22,0 - 26,0	-	24,0 - 26,0	22,0 - 24,0	9,0	18,0	20,0	40,0	50	45	48	55,5	70,0	M40 1"	EBMS45M34N
	NPT 1 1/4"	22,0 - 32,0	27,0 - 32,0	24,0 - 27,0						45			53,3	70,5	M40K 1 1/4"K	EBMS4M4N
		26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0					50	50	50	55,5	76,0	M40 1 1/4"	EBMS45M45N
	NPT 1 1/2"										64	64	70,0	75,5	M40 1 1/2"	EBMS45M56N
M50 x1,5	NPT 1 1/4"	26,0 - 34,0	31,0 - 34,0	28,0 - 31,0	26,0 - 28,0	9,0	18,0	20,0	50,0	64	50	50	70,0	76,0	M50 1 1/4"	EBMS56M45N
	NPT 1 1/2"	26,0 - 35,0	31,0 - 35,0							55	55	55	61,0		M50K 1 1/2"K	EBMS5M5N
		35,0 - 44,0	41,0 - 44,0	38,0 - 41,0	35,0 - 38,0					64	64	64	70,0	75,5	M50 1 1/2"	EBMS56M56N
	NPT 2"										80	80	89,0	85,5	M50 2"	EBMS56M67N
M63 x1,5	NPT 1 1/2"	35,0 - 41,0	-	38,0 - 41,0	35,0 - 38,0	9,0	18,0	20,0	63,0	75	64	64	83,0	75,5	M63 1 1/2"	EBMS67M56N
	NPT 2"	35,0 - 45,0	41,0 - 45,0							68			75,0	77,0	M63K 2"K	EBMS6M6N
		46,0 - 56,0	52,0 - 56,0	48,0 - 52,0	46,0 - 48,0					75	80	80	89,0	85,5	M63 2"	EBMS67M67N
	NPT 2 1/2"							21,0			95	95	105,0	90,0	M63 2 1/2"	EBMS67M78N
M75 x1,5	NPT 2"	46,0 - 52,0	-	48,0 - 52,0	46,0 - 48,0	9,0	20,0	20,0	75,0	95	80	80	105,0	85,5	M75 2"	EBMS78M67N
	NPT 2 1/2"	46,0 - 62,0	56,0 - 62,0	51,0 - 56,0	46,0 - 51,0					80			89,0	86,5	M75K 2 1/2"K	EBMS7M7N
		60,0 - 69,0	-	65,0 - 69,0	60,0 - 65,0					95	95	95	105,0	90,0	M75 2 1/2"	EBMS78M78N
	NPT 3"										105	105	117,0		M75 3"	EBMS78M810N
M90 x1,5	NPT 2 1/2"	60,0 - 64,0	-	-	60,0 - 64,0	9,0	20,0	21,0	90,0	105	95	95	117,0	90,0	M90 2 1/2"	EBMS810M78N
	NPT 3"	60,0 - 75,0	70,0 - 75,0	65,0 - 70,0	60,0 - 65,0					95			105,0		M90K 3"K	EBMS8M8N
		75,0 - 82,0	81,0 - 82,0	78,0 - 81,0	75,0 - 78,0					105	105	105	117,0		M90 3"	EBMS810M810N
	NPT 4"										115	115	128,0		M90K 4"K	EBMS810M10N
M100 x1,5	NPT 3"	75,0 - 85,0	81,0 - 85,0	78,0 - 81,0	75,0 - 78,0	9,0	20,0	21,0	100,0	105	105	105	117,0	90,0	M100 3"	EBMS10M810N
	NPT 4"										115	115	128,0		M100K 4"K	EBMS10M10N
M110 x1,5	NPT 4"	85,0 - 95,0	92,0 - 95,0	89,0 - 92,0	85,0 - 89,0	9,0	20,0	21,0	110,0	115	115	115	128,0	91,0	M110 4"	EBMS11M11N

* Only Ex e IIC Gb / Ex tb IIIC Db

1 Function Ex d/e Rigid Conduit Swivel Fittings with Multihole Seal

PHOENIX

Technical Details

Material	**Body, Cap**	Brass, Brass Nickel Plated, Stainless Steel, Aluminium		
	Wire Ring	Steel		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Silicone		
Ex e/tb		-60°C / +80°C		
Equipment For		Gas & Dust potentially explosive atmospheres		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD SV.. Ex CE 0722 II 2GD Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx IMQ 14.0002X / IMQ 13 ATEX 029X		
Thread Type		• Metric (M) ISO Pitch 1,5 • Npt (N) ANSI ASME B1.20.1 • Other thread types also available upon request. • Other combinations: Metric-Metric/Npt-Npt/Npt-Metric		
Cable Type		Non Armor		
Accessories		• Lock nuts • Gaskets • Serrated Washers • Earth tags		

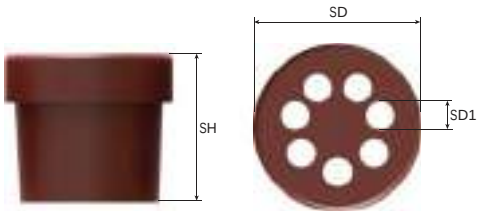
Approvals

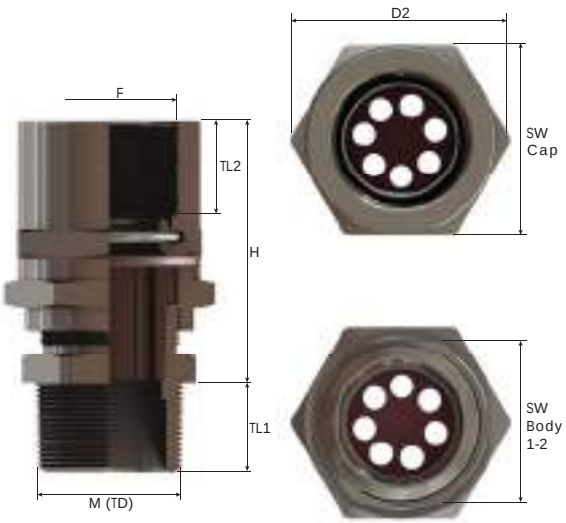
	Certificate Number	Standards
	IMQ 13 ATEX 029X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009
	IECEx IMQ 14.0002X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2008 Edition:1
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	Max. Number of Hole	Seal Hole Cable Ø	Thread Size	•M: Metric •N: NPT Thread Type	Pipe Size	•M: Metric •N: NPT Pipe Type	•B: Brass •X: Stainless steel •BN: Nickel Plated •A: Aluminium Material	•C: Chloroprene •S: Silicone Seal	•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Locknut	Earth tag
SV	7H	30	2	M	2	N	B	C	GC	SW	L	E





PHOENIX

1 Function Ex e
Rigid Conduit Swivel Fittings with Multihole Seal

Thread Type **METRIC** acc. to ISO 965-3 and **NPT** acc. to ANSI ASME B1.20.1

Thread Size	Pipe Thread Size	Thread Length		Spanner Width			Outer min. Ø	max. Height	Seal Hole Cable Ø	Number of Holes	Part Number
		TL	TL1	SW Cap	SW MiddleBody	SW Body	D2	H	SD1		
M	F	mm	mm	mm	mm	mm	mm	mm	mm		
M20x1,5	M20x1,5	11,0	16,0	33,0	33,0	28,0	32,5	47,8	2,5	1 to 7	SV7H251M1M
									3.0	1 to 4	SV4H301M1M
	M25x1,5								2,5	1 to 7	SV7H251M2M
									3,0	1 to 4	SV4H301M2M
	NPT 3/4"		17,0						2,5	1 to 7	SV7H251M2N
									3,0	1 to 4	SV4H301M2N
M25x1,5	M20x1,5	11,0	16,0	33,0	33,0	28,0	32,5	47,8	2,5	1 to 7	SV7H252M1M
									3,0	1 to 4	SV4H302M1M
									3.6	1 to 3	SV3H362M1M
									4,0	1 to 7	SV7H402M1M
	M25x1,5								2,5	1 to 7	SV7H252M2M
									3.0	1 to 4	SV4H302M2M
									3,6	1 to 3	SV3H362M2M
									4,0	1 to 7	SV7H402M2M
	NPT 3/4"								2,5	1 to 7	SV7H252M2N
									3.0	1 to 4	SV4H302M2N
									3,6	1 to 3	SV3H362M2N
									4,0	1 to 7	SV7H402M2N
NPT 3/4"	M20x1,5	16,0	17,0	33,0	33,0	28,0	32,5	45,8	2,5	1 to 7	SV7H252N1M
									3,0	1 to 4	SV4H302N1M
									3,6	1 to 3	SV3H362N1M
									4,0	1 to 7	SV7H402N1M
	M25x1,5								2,5	1 to 7	SV7H252N2M
									3,0	1 to 4	SV4H302N2M
									3,6	1 to 3	SV3H362N2M
									4,0	1 to 7	SV7H402N2M
	NPT 3/4"								2,5	1 to 7	SV7H252N2N
									3.0	1 to 4	SV4H302N2N
									3.6	1 to 3	SV3H362N2N
									4,0	1 to 7	SV7H402N2N

bimed

CABLE GLANDS and PLUGS for Gas & Dust Application





Ex Glands / Group II-III / Gas & Dust
Ex II 2GD / Ex e IIC Gb - Ex tb IIIC Db





A cable gland is a fitting that connects a cable to an electrical source, and also is able to secure the cable so it will not escape. Cable gland units are placed into different categories, depending on whether the gland is used for general industrial work or needs hazard protection against high temperatures or explosions. The cables that fit into the glands are either armored or unarmored and a different type of gland will be required for each variety. The gland itself can be made of metals, such as brass or aluminum, or plastic; each material is useful in a different environment.

There are two major categories for cable glands: industrial and hazardous. An industrial cable gland is a general-use gland that meets general hazard requirements, so it is useful in environments without high temperatures or the risk of explosions. If the environment is hazardous, a hazardous gland is used, because these glands meet the necessary extra requirements. They are extra fortified, so they are resistant to temperatures and outside forces that general glands cannot withstand.

Polyamide Ex e Glands 4 *joule*

LYRA

Technical Details

Material	**Body, Cap**	PA
	Seal	CR (Chloroprene Rubber)
Protection Class		IP 68 - 5 Bar, 30 min IP 66
Operating Temperature		**Seal Material** Chloroprene Rubber
Ex e/tb / Ex tb		-40°C / +80°C
Ex-i		-40°C / +70°C
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.
Suitable for use in		Group II Group III — Gas Group IIC Dust Group IIIC — ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db
Marking Example		BMD BM-X2LC Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db IP66/68 Ta-40°C +80°C IMQ 13 ATEX 010X IECEx IMQ 13.0003X
Type Protection		Ex e ; Ex tb ; Ex i
Impact Test Result		4J
Thread Type		• Metric (M) ISO Pitch 1,5 • Npt (N) ANSI ASME B1.20.1 • PG (P) DIN 40430 • Other thread types also available upon request.
Cable Type		Non Armoured
Accessories		• Lock nuts • Gaskets • Dome Plugs • Dust Plugs • Double Seals

Approvals

	Certificate Number	Standards
Ex	IMQ 13 ATEX 010X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014
IECEx	IECEx IMQ 13.0003X	IEC 60079-0:2011 Edition:6 IEC 60079-31:2013 Edition:2 IEC 60079-7:2006 Edition: 4
UV	IECEx IMQ 13.0003X	ISO 4892-2
EAC	№ TC RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
DNV	DNV 12.0051 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
DNV-GL	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

For more information see our webpage.

Ex-e Gland

Ex-i Gland with Lock Nut

with Dust Plug & Gasket

with Dome Plug & Washer

Order Encoding

Part Number	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	for Blue Cap I: Ex-i Ex-i	• X:Standard • SX: Small • MX: Medium • L: Long Thread Size	• C: Chloroprene Seal	Double Seal	Dome Plug	Dust Plug		• GC: Chloroprene • GS: Slicone • GF: Fiber Gasket	Lock nut
B	M-	I	X2L	C	DS	P	DP	-	GC	L

LYRA
Polyamide Ex e Glands

Tread Type **METRIC** acc. to ISO 965-3

Size	Clamping Range Ø min-max D mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M20x1,5	5,0 - 10,0	10	20,0	24	22	25,0	29,5	BM-SX2
	6,0 - 12,0				24	27,5	30,0	BM-X2
		15						BM-X2L
	10,0 - 14,0	10		27	27	31,0	33,0	BM-X3
		15						BM-X4
M25x1,5	10,0 - 14,0	10	25,0	27	27	31,0	33,0	BM-SX5
		15						BM-SX6
	11,0 - 17,0	10		29	29	32,5	34,0	BM-XEU25
	13,0 - 18,0			33	33	37,0	35,0	BM-X5
		15						BM-X6
M32x1,5	13,0 - 18,0	10	32,0	36	33	37,0	36,0	BM-SX7
	15,0 - 21,0					41,0	42,0	BM-EU32
	18,0 - 25,0	15		42	42	47,5	40,5	BM-X7
M40x1,5	19,0 - 28,0	10	40,0	46	46	52,0	46,0	BM-XEU40
		15						BM-XEU40L
	22,0 - 32,0	18		53	53	60,0	50,0	BM-X8
M50x1,5	30,0 - 38,0	18	50,0	60	60	67,5	54,0	BM-X9
M63x1,5	34,0 - 44,0	18	63,0	65	65	72,0	54,0	BM-X10

Tread Type **PG** acc. to DIN 40430

Size	Clamping Range Ø min-max D mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
Pg 13,5	6,0 - 12,0	10	20,4	24	24	27,5	42,0	BP-X4
Pg 16	10,0 - 14,0	10	22,5	27	27	31,0	46,5	BP-X5
Pg 21	13,0 - 18,0	11	28,3	33	33	37,0	47,0	BP-X6
Pg 29	18,0 - 25,0	11	37,0	42	42	47,5	52,0	BP-X7
Pg 36	22,0 - 32,0	13	47,0	53	53	60,0	58,5	BP-X8
Pg 42	30,0 - 38,0	13	54,0	60	60	67,5	68,0	BP-X9
Pg 48	34,0 - 44,0	14	59,3	65	65	72,0	69,0	BP-X10

Tread Type **NPT** acc. to ANSI B1.20.1

Size	Clamping Range Ø min-max D mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT1/2"	5,0 - 10,0	15	21,34	24	22	25,0	45,0	BN-SX2
	6,0 - 12,0				24	27,5		BN-X2
	10,0 - 14,0			27	27	31,0	47,0	BN-LX2
NPT3/4"	13,0 - 18,0	15	26,67	33	33	37,0	50,0	BN-X3
NPT1"	18,0 - 25,0	18	33,40	42	42	47,5	58,0	BN-X4
NPT1 1/4"	22,0 - 32,0	18	42,20	53	53	59,5	68,0	BN-X8
NPT1 1/2"	30,0 - 38,0	18	48,30	60	60	66,5	72,0	BN-X9
NPT2"	34,0 - 44,0	18	60,30	65	65	72,0	72,0	BN-X10

Polyamide Ex e Glands

7 *joule*

VEGA
High Impact

Technical Details

Material	**Body, Cap**	PA		
	Seal	CR (Chloroprene Rubber), Silicone, NBR (Nitrile Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Nitrile Rubber	Chloroprene Rubber	Silicone *
	Ex e/tb / Ex tb	-30°C / +70°C	-40°C / +70°C	-60°C / +70°C
	Ex-i	-60°C / +70°C	-60°C / +70°C	-60°C / +70°C
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD EHIBM-X.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +70°C IP66/68 IECEx IMQ 13.0003X / IMQ 13 ATEX 010		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		7J		
Thread Type		• Metric (M) ISO 965-3 • Other thread types also available upon request.		
Cable Type		Non Armoured		
Accessories		• Lock nuts • Gaskets • Dome Plugs • Double Seals		

*** Operating Temperature (Silicone seal) Double seal version part number from SX1 to X6 -40°C / +70°C**

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 010X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014
	IECEx IMQ 13.0003X	IEC 60079-0:2011 Edition:6 IEC 60079-31:2013 Edition:2 IEC 60079-7:2006 Edition: 4
		ISO 4892-2
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0051 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

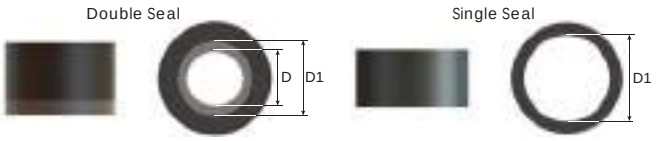
For more information see our webpage.

Option A

Option B

Order Encoding

Part Number	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	for Blue Cap I: Ex-i Ex-i	• X:Standard • SX: Small • MX: Medium • L: Long Thread Size	• A: without Flanged • B: with Flanged Option	• C: Chloroprene • S: Silicone Seal	Double Seal	Dome Plug		• GC: Chloroprene • GS: Slicone • GF: Fiber Gasket	Lock nut
EHIB	M-	I	X2L	A or B	C	DS	P	-	GC	L



VEGA
Polyamide Ex e Glands

Thread Type **METRIC** acc. to ISO 965-3 **(Single Seal Version)**

Size	Clamping Range Ø min-max Single Seal D1 mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø min D2 mm	max. Height H mm	Part Number
M12xl.5	4.0 - 6.5	10.0	12,0	15.0	15.0	17.0	22.0	**EHIBM-0XS**
		15,0						**EHIBM-XS**
M16xl.5	5.0 - 8.0	10.0	16,0	19.0	19.0	21.3	26.0	**EHIBM-SX1**
		15,0						**EHIBM-SX1L**
	6.0 - 10.0	10.0		22.0	22.0	25.0	29.5	**EHIBM-X1**
		15,0						**EHIBM-X1L**
M20xl.5	6.0 - 10.0	10.0	20,0	24.0	22.0	25.0	29.5	**EHIBM-SX2**
	7.0 - 12.0	15,0			24.0	27.5	30.0	**EHIBM-X2**
								EHIBM-X2L
	7.0 - 13.0	10.0		25.0	25.0	27.5	30.0	**EHIBM-MX2**
	11.0 - 14.0	15,0		27.0	27.0	31.0	33.0	**EHIBM-X3**
								EHIBM-X4
M25xl.5	11.0 - 14.0	10.0	25,0	27.0	27.0	31.0	33.0	**EHIBM-SX5**
		15,0						**EHIBM-SX6**
	12.0 - 17.0	10.0		29.0	29.0	32.5	34.0	**EHIBM-XEU25**
		15,0						**EHIBM-XEU25L**
	14.0 - 18.0	10.0		33.0	33.0	37.0	35.0	**EHIBM-X5**
		15,0						**EHIBM-X6**
M32xl.5	14.0 - 18.0	10.0	32,0	36.0	33.0	37.0	36.0	**EHIBM-SX7**
	16.0 - 21.0				36.0	41.0	42.0	**EHIBM-XEU32**
		15,0						**EHIBM-XEU32L**
	19.0 - 25.0			42.0	42.0	47.5	40.5	**EHIBM-X7**
M40xl.5	20.0 - 28.0	10.0	40,0	46.0	46.0	52.0	46.0	**EHIBM-XEU40**
		15,0						**EHIBM-XEU40L**
	23.0 - 32.0	18,0		53.0	53.0	60.0	50.0	**EHIBM-X8**
M50xl.5	31.0 - 38.0	18,0	50,0	60.0	60.0	67.5	54.0	**EHIBM-X9**
M63xl.5	35.0 - 44.0	18,0	63,0	65.0	65.0	72.0	54.0	**EHIBM-X10**

Thread Type **METRIC** acc. to ISO 965-3 **(Double Seal Version)**

Size	Clamping Range Ø min-max Outer Seal D mm	Clamping Range Ø min-max Double Seal D1 mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer Ø min D2 mm	max. Height H mm	*Part Number
M12x1.5	4.0 - 6.5	3.0 - 4.0	10.0	12,0	15.0	15.0	17.0	22.0	**EHIBM-OXS(DS)**
			15,0						**EHIBM-XS(DS)**
M16x1.5	5.0 - 8.0	4.0 - 5.0	10.0	16,0	19.0	19.0	21.3	26.0	***EHIBM-SX1(DS)**
			15,0						***EHIBM-SX1L(DS)**
	6.0 - 10.0	4.0 - 6.0	10.0		22.0	22.0	25.0	29.5	***EHIBM-X1(DS)**
			15,0						***EHIBM-X1L(DS)**
M20x1.5	6.0 - 10.0	4.0 - 6.0	10.0	20,0	24.0	22.0	25.0	29.5	***EHIBM-SX2(DS)**
	7.5 - 12.0	6.0 - 7.5	15,0			24.0	27.5	30.0	***EHIBM-X2(DS)**
									***EHIBM-X2L(DS)**
	7.0 - 13.0	4.0 - 7.0	10.0		25.0	25.0	27.5	30.0	***EHIBM-MX2(DS)**
	11.0 - 14.0	8.0 - 11.0	15,0		27.0	27.0	31.0	33.0	***EHIBM-X3(DS)**
									***EHIBM-X4(DS)**
M25x1.5	11.0 - 14.0	8.0 - 11.0	10.0	25,0	27.0	27.0	31.0	33.0	***EHIBM-SX5(DS)**
			15,0						***EHIBM-SX6(DS)**
	13.0 - 17.0	9.0 - 13.0	10.0		29.0	29.0	32.5	34.0	***EHIBM-XEU25(DS)**
			15,0						***EHIBM-XEU25L(DS)**
	13.0 - 18.0	10.0 - 13.0	10.0		33.0	33.0	37.0	35.0	***EHIBM-X5(DS)**
			15,0						***EHIBM-X6(DS)**
M32x1.5	13.0 - 18.0	10.0 - 13.0	10.0	32,0	36.0	33.0	37.0	36.0	**EHIBM-SX7(DS)**
	16.0 - 21.0	12.0 - 16.0	15,0			36.0	41.0	42.0	**EHIBM-XEU32(DS)**
									EHIBM-XEU32L(DS)
	20.0 - 25.0	14.0 - 20.0			42.0	42.0	47.5	40.5	**EHIBM-X7(DS)**
M40x1.5	21.0 - 28.0	17.0 - 21.0	10.0	40,0	46.0	46.0	52.0	46.0	**EHIBM-XEU40(DS)**
			15,0						**EHIBM-XEU40L(DS)**
	25.0 - 32.0	21.0 - 25.0	18,0		53.0	53.0	60.0	50.0	**EHIBM-X8(DS)**
M50x1.5	31.0 - 38.0	22.0 - 31.0	18,0	50,0	60.0	60.0	67.5	54.0	**EHIBM-X9(DS)**
M63x1.5	35.0 - 44.0	28.0 - 35.0	18,0	63,0	65.0	65.0	72.0	54.0	**EHIBM-X10(DS)**

*** Operating Temperature (Silicone) -40°C / +70°C**

Polyamide Ex e Glands

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GEMINI
for Non Circular and Heat Trace Cable

Technical Details

Material	**Body, Cap**	PA		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber	Silicone	
Ex e/tb / Ex tb		-40°C / +80°C	-60°C / +80°C	
Ex-i		-40°C / +70°C	-60°C / +70°C	
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD BM-X2.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db IP66/68 Ta-40°C +80°C IMQ 13 ATEX 011X IECEx IMQ 13.0004X		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		4J		
Thread Type		• Metric (M) ISO 965-3 • Other thread types also available upon request.		
Cable Type		Non Armoured, Non Circular, Heat Trace		
Accessories		• Lock nuts • Gaskets • Dust plugs		

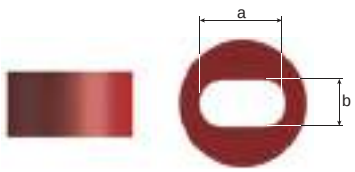
Approvals

	Certificate Number	Standards
Ex	IMQ 13 ATEX 011X	EN 60079-0:2009 EN 60079-7:2007 EN 60079-31:2009
IECEx	IECEx IMQ 13.0004X	IEC 60079-0:2007 Edition:5 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006 Edition: 4
UV		ISO 4892-2
EAC	№ TC RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
DNV	DNV 12.0051 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
DNV-GL	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	for Blue Cap I: Ex-i Ex-i	• X:Standard • SX: Small • MX: Medium • L: Long Thread Size	Seal Hole	• C: Chloroprene • S: Silicone Seal		• GC: Chloroprene • GS: Silicone • GF: Fiber Gasket	Lock nut
B	M-	I	X2	axb	C	-	GC	L



GEMINI
Polyamide Ex e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Sealing Hole Ø (±0,24) axb mm	Clamping Range Ø min. axb mm	Clamping Range Ø max. axb mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M20x1.5	10,0 x 4,0	10,0 x 3,3	10,4 x 4,0	10,0	20,0	24	24	27,5	40	**BM-X2**
	10,8 x 6,0	9,3 x 5,8	10,8 x 6,0							
	11,0 x 6,5	9,0 x 6,0	11,3 x 8,0							
	10,0 x 4,0	10,0 x 3,3	10,4 x 4,0	15,0					45	**BM-X2L**
	10,8 x 6,0	9,3 x 5,8	10,8 x 6,0							
	11,0 x 6,5	9,0 x 6,0	11,3 x 8,0							
	10,8 x 6,0	10,1 x 5,3	11,9 x 7,2	10,0		27	27	31,0	42	**BM-X3**
	12,8 x 5,0	12,1 x 4,3	12,8 x 5,3							
	12,4 x 6,5	11,9 x 5,8	13,4 x 8,9							
	10,8 x 6,0	10,1 x 5,3	11,9 x 7,2	15,0					47	**BM-X4**
	12,8 x 5,0	12,1 x 4,3	12,8 x 5,3							
	12,4 x 6,5	11,9 x 5,8	13,4 x 8,9							
M25x1.5	10,0 x 4,0	10,0 x 3,3	10,4 x 4,0	10,0	25,0	29	24	27,5	40	**BM-XSX5**
	10,8 x 6,0	9,3 x 5,8	10,8 x 6,0							
	11,0 x 6,5	9,0 x 6,0	11,3 x 8,0							
	10,8 x 6,0	10,1 x 5,3	11,9 x 7,2				27	31,0	42	**BM-SX5**
	12,8 x 5,0	12,1 x 4,3	12,8 x 5,3							
	12,4 x 6,5	11,9 x 5,8	13,4 x 8,9			33	33	37,0	45	**BM-X5**
	12,0 x 6,0	12,9 x 5,6	13,8 x 6,0							
	15,0 x 5,0	14,6 x 6,2	15,0 x 5,0							
	10,0 x 4,0	10,0 x 3,3	10,4 x 4,0	15,0		29	24	27,5		**BM-XSX6**
	10,8 x 6,0	9,3 x 5,8	10,8 x 6,0							
	11,0 x 6,5	9,0 x 6,0	11,3 x 8,0							
	10,8 x 6,0	10,1 x 5,3	11,9 x 7,2				27	31,0	47	**BM-SX6**
	12,8 x 5,0	12,1 x 4,3	12,8 x 5,3							
	12,4 x 6,5	11,9 x 5,8	13,4 x 8,9							
	12,0 x 6,0	12,9 x 5,6	13,8 x 6,0			33	33	37,0	50	**BM-X6**
	15,0 x 5,0	14,6 x 6,2	15,0 x 6,2							
M32x1.5	12,0 x 6,0	12,9 x 5,6	13,8 x 6,0	10,0	32,0	36	33	37,0	45	**BM-SX7**
	15,0 x 5,0	14,6 x 6,2	15,0 x 6,2							

Polyamide Ex e Glands

7 *joule*

HI-GEMINI
for Non Circular and Heat Trace Cable High Impact

Technical Details

Material	**Body, Cap**	PA		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber	Silicone	
Ex e/tb / Ex tb		-40°C / +80°C	-60°C / +80°C	
Ex-i		-40°C / +70°C	-60°C / +70°C	
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD HIBM-X2.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db IP66/68 Ta-40°C +80°C IMQ 13 ATEX 011X IECEx IMQ 13.0004X		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		7J		
Thread Type		• Metric (M) ISO 965-3 • Other thread types also available upon request.		
Cable Type		Non Armoured, Non Circular, Heat Trace		
Accessories		• Lock nuts • Gaskets • Dust plugs		

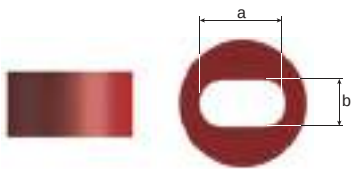
Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 011X	EN 60079-0:2009 EN 60079-7:2007 EN 60079-31:2009
	IECEx IMQ 13.0004X	IEC 60079-0:2007 Edition:5 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006 Edition: 4
		ISO 4892-2
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0051 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
DNV·GL	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

For more information see our webpage.

Order Encoding

Part Number	• M: Metric • N: NPT • C: PF • P: Pg • G: Gas Thread	for Blue Cap I: Ex-i Ex-i	• X:Standard • SX: Small • MX: Medium • L: Long Thread Size	Sealing Hole	• C: Chloroprene • S: Slicone Seal	-	• WC: Chloroprene • WS: Slicone • WF: Fiber Washer	Lock nut
HIB	M-	I	X2	axb	C	-	WC	L



HI-GEMINI
Polyamide Ex e Glands

Thread Type **METRIC** acc. to ISO 965-3

Size	Sealing Hole Ø (±0,24) axb mm	Clamping Range Ø min. axb mm	Clamping Range Ø max. axb mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW Cap mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M25x1.5	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21	10,0	25,0	27	27	30,0	33,0	**HIBM-SX5**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21			33	33	36,0	35,0	**HIBM-X5**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	5,0 x 15,0	6,09 x 13,72	7,11 x 15,24							
	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21			29	29	31,5	34,0	**HIBM-XEU25**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	5,0 x 15,0	6,09 x 13,72	7,11 x 15,24							
	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21	15,0		27	27	30,0	33,0	**HIBM-SX6**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21			33	33	36,0	35,0	**HIBM-X6**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	5,0 x 15,0	6,09 x 13,72	7,11 x 15,24							
	6,0 x 10,8	4,21 x 11,69	5,23 x 13,21			29	29	31,5	34,0	**HIBM-XEU25L**
	5,0 x 12,8	5,03 x 12,50	6,05 x 14,02							
	5,0 x 15,0	6,09 x 13,72	7,11 x 15,24							

Polyamide Ex e Hexagonal Plugs 4 joule

DRACO

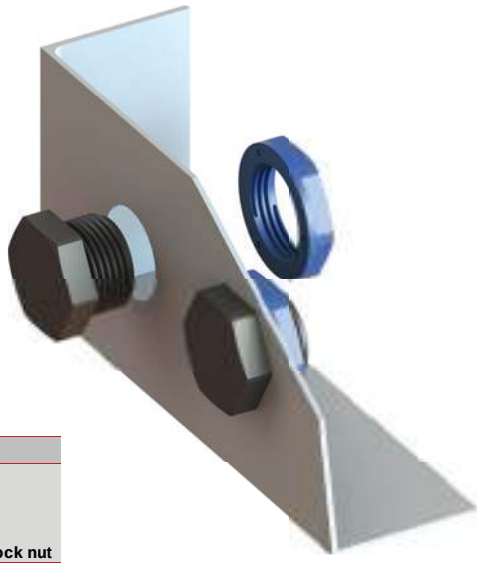
Technical Details

Material	**Body, Cap**	PA	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		**Seal Material**	
		Chloroprene Rubber	Silicone
	Ex e/tb / Ex tb / Ex-i	-40°C / +80°C	-60°C / +80°C
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.	
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD TP-X2C Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db IP66/68 Ta-40°C +80°C IMQ 13 ATEX 010X IECEx IMQ 13.0003X		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		4J		
Thread Type		• Metric (M) ISO 965-3		
Accessories		• Lock nuts • Gaskets		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 010X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014
	IECEx IMQ 13.0003X	IEC 60079-0:2011 Edition:6 IEC 60079-31:2013 Edition:2 IEC 60079-7:2006 Edition: 4
		ISO 4892-2
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 14.0114 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

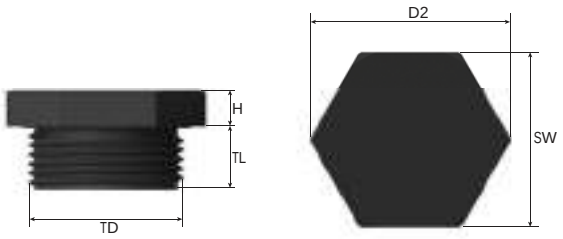
For more information see our webpage.



Order Encoding

Part Number	•P: Metric •N: NPT Thread	for Blue Lock Nut I: Ex-i Ex-i	•X:Standard •SX: Small •MX: Medium •L: Long Thread Size	•C: Chloroprene •S: Slicone Seal		•GC: Chloroprene •GS: Slicone •GF: Fiber Gasket	Lock nut
T	P-	I	X2L	C	-	GC	L

DRACO
Polyamide Ex e Hexagonal Plugs

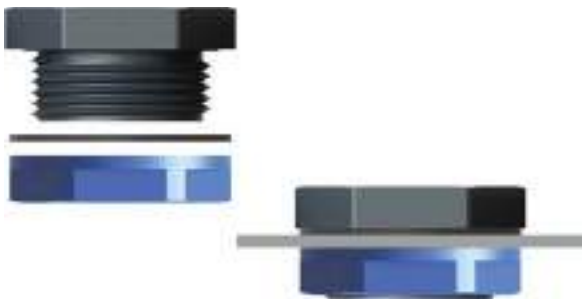


Thread Type **METRIC** acc. to ISO 965-3

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M12x1,5	10,0	12,0	15	16,5	5,0	TP-X02
M16x1,5	11,0	16,0	19	21,0	4,0	TP-X01
M20x1,5	11,0	20,0	23	25,0	6,0	TP-X1
M25x1,5	10,0	25,0	28	31,0	6,7	TP-X2
M32x1,5	15,5	32,0	36	35,5	7,5	TP-X3
M40x1,5	18,0	40,0	46	51,0	9,0	TP-X4
M50x1,5	18,0	50,0	55	61,0	9,8	TP-X5
M63x1,5	18,0	63,0	69	76,0	9,6	TP-X6

See Example "A" for IP protection degree and clamping note:

The plugs Ex e II,can be used with circuits Ex i.These cable glands should have a nut painted **light blue**.The plugs must be supplied with the flat washer for IP protection degree.



Polyamide Ex e Hexagonal Plugs 7 *joule*

HI-DRACO
High Impact

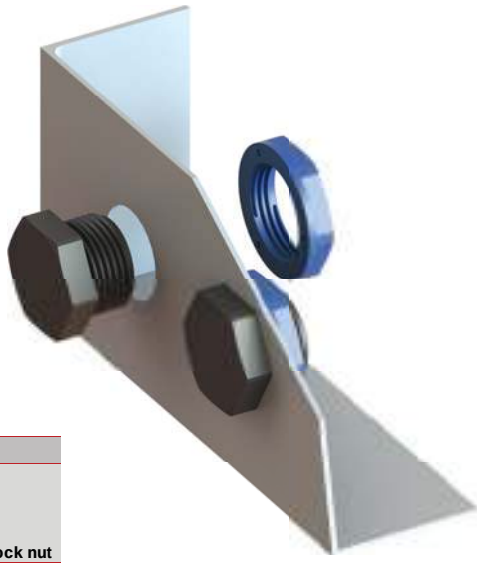
Technical Details

Material	**Body, Cap**	PA		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber	Silicone	
	Ex e/tb / Ex tb / Ex-i	-40°C / +70°C	-60°C / +70°C	
Equipment For		• Gas & Dust potentially explosive atmospheres. • Cable glands should be also used for intrinsically safe circuits Ex-i.These cable glands shall have a light blue colored cap. The symbol "I" will be added beside of the "BM" for order processing.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD HITP-X2C Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db IP66/68 Ta-40°C +70°C IMQ 13 ATEX 010X IECEx IMQ 13.0003X		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		7J		
Thread Type		• Metric (M) ISO 965-3 • NPT (N) ANSI ASME B1.20.1		
Accessories		• Lock nuts • Gaskets		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 010X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014
	IECEx IMQ 13.0003X	IEC 60079-0:2011 Edition:6 IEC 60079-31:2013 Edition:2 IEC 60079-7:2006 Edition: 4
		ISO 4892-2
	№ ТС RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 14.0114 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 & IEC/EN 62444

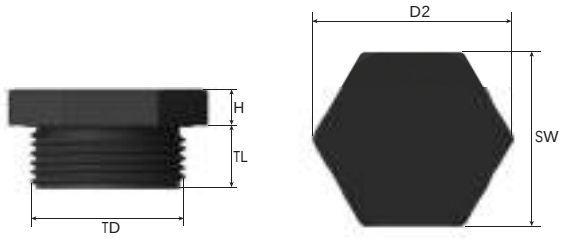
For more information see our webpage.



Order Encoding

Part Number	•P: Metric •N: NPT Thread	for Blue Lock Nut I: Ex-i Ex-i	•X:Standard •SX: Small •MX: Medium •L: Long Thread Size	•C: Chloroprene •S: Slicone Seal		•GC: Chloroprene •GS: Slicone •GF: Fiber Gasket	Lock nut
HIT	P-	I	X2L	C	-	GC	L

HI-DRACO
Polyamide Ex e Hexagonal Plugs



Thread Type **METRIC** acc. to ISO 965-3

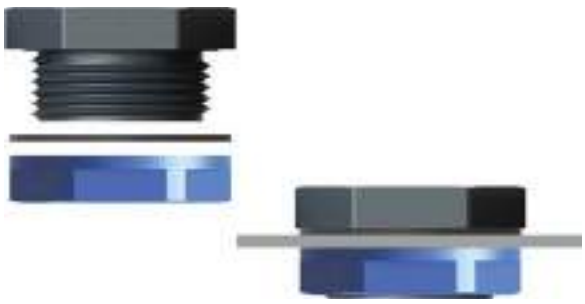
Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M12x1.5	10,0	12,0	15,0	17,0	5,0	**HITP-X02**
M16x1.5	11,0	16,0	19,0	22,0	4,3	**HITP-X01**
	12,0					**HITP-X01L**
	15,0					**HITP-X01HL**
M20x1.5	11,0	20,0	23,0	26,0	6,0	**HITP-X1**
	12,0					**HITP-X1L**
	15,0					**HITP-X1HL**
M25x1.5	10,0	25,0	28,0	32,0	5,8	**HITP-X2**
	15,0					**HITP-X2HL**
M32x1.5	15,0	32,0	36,0	41,5	7,8	**HITP-X3**
M40x1.5	18,0	40,0	46,0	53,0	8,5	**HITP-X4**
M50x1.5	18,0	50,0	55,0	63,5	9,5	**HITP-X5**
M63x1.5	18,0	63,0	69,0	80,0	9,5	**HITP-X6**

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT 1/4"	10,0	13,7	15.0	7.0	5,0	**HITN-X02**
NPT 3/8"	15,0	17,1	19.0	11.0	4,3	**HITN-X01HL**
NPT 1/2"	15,0	21,3	23.0	13.5	6,0	**HITN-X1HL**
NPT 3/4"	15,0	26,7	28.0	18.8	5,8	**HITN-X2HL**
NPT 1"	15,0	33,4	36.0	25.0	7,8	**HITN-X3**
NPT 1 1/4"	18,0	42,1	46.0	32.0	8,5	**HITN-X4**
NPT 1 1/2"	18,0	48,3	55.0	40.0	9,5	**HITN-X5**
NPT 2"	18,0	60,3	69.0	52.0	9,5	**HITN-X6**

See Example "A" for IP protection degree and clamping note:

The plugs Ex e II,can be used with circuits Ex i.These cable glands should have a nut painted **light blue**.The plugs must be supplied with the flat washer for IP protection degree.



Polyamide Dome Plugs for sealing cable insert

CETUS

Technical Details

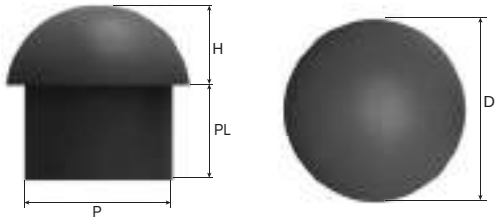
Material	**Body, Cap**	PA		
	Seal	CR (Chloroprene Rubber), Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber	Silicone	
	Ex e/tb / Ex tb	-40°C / +70°C	-60°C / +70°C	
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
Marking Example				
Gland Marking for	**Octans**	**BMD EBU..** Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
	Vela	**BMD EBS..** Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +80°C IP66/68 IECEx CES 13.0006X / CESI 13 ATEX 018X		
	Lyra	**BMD BM-X.** Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +80°C IP66/68 IP66/68 IECEx IMQ 13.0003X / IMQ 13 ATEX 010X		
	Vega	**BMD EHIBM-X**.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +70°C IP66/68 IECEx IMQ 13.0003X / IMQ 13 ATEX 010X		
Type Protection		Ex e ; Ex tb ; Ex i		
Impact Test Result		7J		
Thread Type		• Metric (M) ISO 965-3 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Accessories		• Lock nuts • Gaskets		
Remarks		• For standard Ex-Proof applications. • Sealing of cable glands when no cable is used.		

Approvals

	Octans and Vela		Lyra and Vega	
	Certificate Number	**Standards**	**Certificate Number**	**Standards**
	IMQ 13 ATEX 018X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014 EN 60079-1:2007	IMQ 13 ATEX 010X	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2014
	IECEx IMQ 13.0006X	IEC 60079-0:2011 Edition:6 IEC 60079-7:2006 Edition:4 IEC 60079-31:2013 Edition:2 IEC 60079-1:2014 Edition:7	IECEx IMQ 13.0003X	IEC 60079-0:2011 Edition:6 IEC 60079-31:2013 Edition:2 IEC 60079-7:2006 Edition: 4
	20150501-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12	UV	UV resistantance according to standard ISO 4892-2
	№ TC RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008	№ TC RU C-TR.ГБ05.B.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0052 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008 e ABNT NBR IEC 60079-31:2011	DNV 12.0051 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-7:2008 ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444	E-14045	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN 62444

For more information see our webpage.

CETUS
Polyamide Dome Plugs for sealing cable insert



Dome plugs for Metal Glands (Octans & Vela)

Size	Plug Ø P mm	Dome Ø D mm	Plug Length PL mm	max. Height H mm	Clamping Ranges used for Dome Plug Octans Seals mm	Vela Seals mm	Part Number RAL 9005 black	Packing Unit
15	5.8	15.0	10.0	4,0	3,0 - 6,0 / 4,0 - 6,0	4,0 - 6,0	**BDPX-15-21**	50
22	11.8	21.5	15.0	6.0	10,0 - 12,0	10,0 - 12,0	**BDPX-22-20**	25
28	16.8	27.5	17.0	8.0	14,0 - 17,0	14,0 - 17,0	**BDPX-28-21**	25
36	23.8	36.0	20.0	10.0	22,0 - 24,0	22,0 - 24,0	**BDPX-36-21**	20
40	27.8	40.0	24.0	10.0	26,0 - 28,0	26,0 - 28,0	**BDPX-40-21**	15
50	37.8	50.0	24.0	12.0	35,0 - 38,0	35,0 - 38,0	**BDPX-50-21**	10
63	47.8	63.0	26.0	14.0	46,0 - 48,0	-	**BDPX-63-21**	5

Dome plugs for Polyamide Glands (Lyra & Vega)

Size	Plug Ø P mm	Dome Ø D mm	Plug Length PL mm	max. Height H mm	Dome Plug fits into Clamping Range Ø min-max Standard Seal mm	Reducing Seal mm	Double Seal mm	Outer Seal mm	Part Number RAL 9005 black	Packing Unit
9	4,0	9,2	12,0	4,0	-	2,0 - 5,0	2,0 - 4,0	-	**BDPX-09-21**	100
	6,4				3,0 - 6,5	-	-	3,0 - 6,5	**BDPX-09-22**	
11	5,0	10,5	14,0	5,0	-	2,0 - 6,0	3,0 - 5,0	-	**BDPX-11-21**	50
	8,0		13,7	4,7	4,0 - 8,0	-	-	4,0 - 8,0	**BDPX-11-22**	
13	7,0	13,3	15,0	5,7	-	3,0 - 7,0	3,0 - 7,0		**BDPX-13-21**	50
	9,7		9,0	5,3	5,0 - 10,0	-	-	5,0 - 10,0	**BDPX-13-22**	
			15,0	5,7	-	-	-	-	**BDPX-13-22S**	
16	7,0	15,8	14,0	7,5	-	-	4,0 - 7,0	-	**BDPX-16-20**	50
	8,5		13,0	7,7	-	5,0 - 9,0	5,0 - 8,5	-	**BDPX-16-21**	
	12,0				6,0 - 12,0	-	-	6,0 - 12,0	**BDPX-16-22**	
	13,0		14,0	7,5	7,0 - 13,0	-	-	7,0 - 13,0	**BDPX-16-23**	
18	11,0	18,0	13,5	8,5	-	7,0 - 12,0	7,0 - 11,0	-	**BDPX-18-21**	50
	13,6				10,0 - 14,0	-	-	10,0 - 14,0	**BDPX-18-22**	
20	13,0	20,0	14,5	7,0	-	9,0 - 13,0	8,0 - 13,0	-	**BDPX-20-21**	50
	16,4				11,0 - 17,0	-	-	11,0 - 17,0	**BDPX-20-22**	
22	14,0	22,0	14,0	9,5	-	11,0 - 15,0	9,0 - 14,0	-	**BDPX-22-21**	25
	17,8				13,0 - 18,0	-	-	13,0 - 18,0	**BDPX-22-22**	
24	16,1	24,0	15,5	9,0	-	9,0 - 16,0	11,0 - 16,0	-	**BDPX-24-21**	25
	20,4				15,0 - 21,0	-	-	15,0 - 21,0	**BDPX-24-22**	
29	20,3	28,5	15,0	9,7	-	12,0 - 20,0	13,0 - 20,0	-	**BDPX-29-21**	25
	25,0				18,0 - 25,0	-	-	18,0 - 25,0	**BDPX-29-22**	
32	21,1	31,5	15,8	9,2	-	16,0 - 23,0	16,0 - 21,0	-	**BDPX-32-21**	10
	27,5				19,0 - 28,0	-	-	19,0 - 28,0	**BDPX-32-22**	
37	26,3	36,8	17,0	10,7	-	20,0 - 26,0	20,0 - 26,0	-	**BDPX-37-21**	10
	31,8				22,0 - 32,0	-	-	22,0 - 32,0	**BDPX-37-22**	
45	31,2	43,3	20,2	11,9	-	25,0 - 31,0	21,0 - 31,0	-	**BDPX-45-21**	10
	38,0				30,0 - 38,0	-	-	30,0 - 38,0	**BDPX-45-22**	
52	35,2	51,0	22,5	16,0	-	29,0 - 35,0	27,0 - 35,0	-	**BDPX-52-21**	10
	44,2				34,0 - 44,0	-	-	34,0 - 44,0	**BDPX-52-22**	

bimed

ADAPTORS and PLUGS
for Gas & Dust Application





Ex Glands / Group II-III / Gas & Dust
Ex II 2GD / Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db

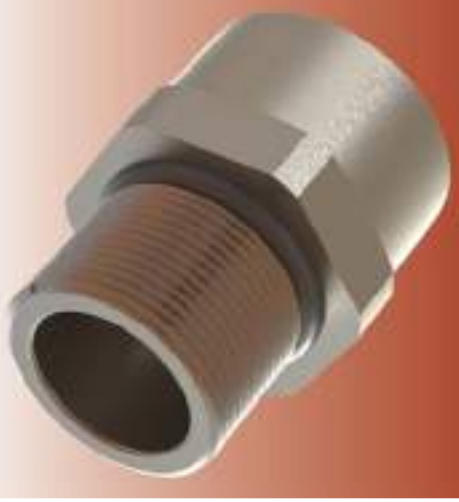




Adaptors are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size, to the entry thread of the enclosure.Reducers are used where the thread size of the cable gland or entry device is smaller than the entry thread of the enclosure.A coupling is a very short length of pipe or tube, with a socket at one or both ends that allows two pipes or tubes to be joined.Alternatively it is a short length of pipe with two female National pipe threads (NPT) (in North American terms, a coupler is a double female while a nipple is double male) or two male or female British standard pipe threads.When the two ends use the same connection method but are of a different size, the terms reducing coupling or reducer are used.

Ex d / e Enlargers

APUS



Technical Details

Material	**Body**	Brass, Brass Bickel Plated Stainless Steel Galvanised Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material** Chloroprene Rubber		
	Ex d/e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD B-RB.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +100°C IP66/68 CESI 13 ATEX 066X / IECEx CES 13.0022X		
Type Protection		Ex d ; Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1 • Pg (P) DIN 40430 • Pf (PF) GAS UNI ISO 228/1		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 066X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0022X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2007-04 Edition:6 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0150 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

For more information see our webpage.

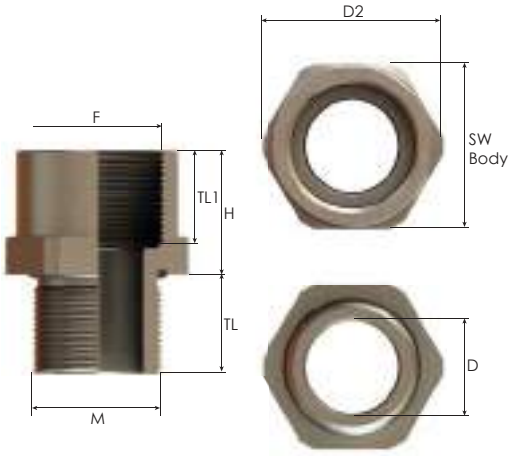
Size Selection Table

Thread Type	Sizes & Code Nr.									
METRIC EN 60423 (M)	16	20	25	32	40	50	63	75	90	110
	01	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**10**
NPT ANSI B1.20.1 (N)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**10**
PG DIN 40430 (P)	9	11	13,5	16	21	29	36	42	48	
	2	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	
PF GAS UNI ISO 228/1 (PF)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**10**

Order Encoding

Code	**Female Thread Size Code**	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas **Female Thread**	**Male Thread Size Code**	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas **Male Thread**	B – Brass BN- Brass Nickel Plated X – Stainless Steel Z - Galvanised steel **Material**	•C: Chloroprene **Sealing**	**Code Example**
B-RB	01	M	01	M	BN	C	B-RB01M01MBNC

APUS
Ex d / e Enlargers



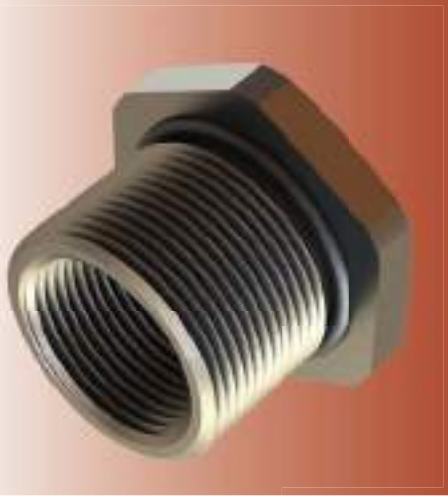
Thread Type **METRIC** > **METRIC** acc. to EN 60423

Size Female F	Size Male M	max. Cable Ø Male D mm	Thread Length Female TL1 mm	Thread Length Female TL mm	Thread Ø Female F mm	Thread Ø Male M mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M16x1.5	M16x1.5	10,0	15,0	15,0	16,0	16,0	22,0	24,0	34,0	B-RB01M01M
M20x1.5					20,0		25,0	27,5		B-RB1M01M
M25x1.5					25,0		30,0	33,0		B-RB2M01M
M20x1.5	M20x1.5	14,0	15,0	15,0	20,0	20,0	25,0	27,5	34,0	B-RB1M1M
M25x1.5					25,0		30,0	33,0		B-RB2M1M
M32x1.5					32,0		36,0	39,8		B-RB3M1M
M25x1.5	M25x1.5	19,0	15,0	15,0	25,0	25,0	30,0	33,0	34,0	B-RB2M2M
M32x1.5					32,0		36,0	39,8		B-RB3M2M
M40x1.5			18,0		40,0		45,0	50,0	37,0	B-RB4M2M
M32x1.5	M32x1.5	26,0	15,0	15,0	32,0	32,0	36,0	39,8	34,0	B-RB3M3M
M40x1.5			18,0		40,0		45,0	50,0	37,0	B-RB4M3M
M50x1.5					50,0		55,0	61,0	40,0	B-RB5M3M
M40x1.5	M40x1.5	34,0	18,0	18,0	40,0	40,0	45,0	50,0	40,0	B-RB4M4M
M50x1.5					50,0		55,0	61,0		B-RB5M4M
M50x1.5	M50x1.5	44,0	18,0	18,0	50,0	50,0	55,0	61,0	40,0	B-RB5M5M
M63x1.5					63,0		68,0	75,0	40,5	B-RB6M5M
M63x1.5	M63x1.5	57,0	18,0	18,0	63,0	63,0	70,0	78,0	40,5	B-RB6M6M
M75x1.5					75,0		80,0	89,0		B-RB7M6M
M75x1.5	M75x1.5	69,0	18,0	18,0	75,0	75,0	85,0	94,0	40,5	B-RB7M7M
M90x1.5					90,0		95,0	105,0	43,5	B-RB8M7M
M90x1.5	M90x1.5	84,0	21,0	21,0	90,0	90,0	100,0	111,0	47,0	B-RB8M8M
M110x1.5					110,0		115,0	128,0		B-RB10M8M
M110x1.5	M110x1.5	104,0	21,0	21,0	110,0	110,0	120,0	134,0	47,0	B-RB10M10M

Thread Type **METRIC** acc. to EN 60423 > **NPT** acc. to ANSI ASME B1.20.1

Size Female F	Size Male M	max. Cable Ø Male D mm	Thread Length Female TL1 mm	Thread Length Female TL mm	Thread Ø Female F mm	Thread Ø Male M mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M16x1.5	NPT 3/8"	12,0	15,0	16,0	17,15	16,0	22,0	24,0	34,5	B-RB01M01N
M20x1.5						20,0	25,0	27,5	35,0	B-RB1M01N
M20x1.5	NPT 1/2"	14,5	15,0	21,0	21,34	20,0	25,0	27,5	40,0	B-RB1M1N
M25x1.5						25,0	30,0	33,0		B-RB2M1N
M25x1.5	NPT 3/4"	19,0	15,0	21,0	26,67	25,0	30,0	33,0	40,0	B-RB2M2N
M32x1.5						32,0	36,0	39,8		B-RB3M2N
M32x1.5	NPT 1"	26,0	15,0	26,0	33,40	32,0	36,0	39,8	45,0	B-RB3M3N
M40x1.5						40,0	45,0	50,0		B-RB4M3N
M40x1.5	NPT 1 1/4"	35,0	18,0	28,0	42,16	40,0	45,0	50,0	50,0	B-RB4M4N
M50x1.5						50,0	55,0	61,0		B-RB5M4N
M50x1.5	NPT 1 1/2"	40,0	18,0	28,0	48,26	50,0	55,0	61,0	50,0	B-RB5M5N
M63x1.5						63,0	68,0	75,0	50,5	B-RB6M5N
M63x1.5	NPT 2"	51,0	18,0	28,0	60,33	63,0	68,0	75,0	50,5	B-RB6M6N
M75x1.5						75,0	80,0	89,0		B-RB7M6N
M75x1.5	NPT 2 1/2"	62,0	28,0	41,0	73,03	75,0	80,0	89,0	73,5	B-RB7M7N
M90x1.5						90,0	95,0	105,0	74,0	B-RB8M7N
M90x1.5	NPT 3"	75,0	28,0	43,0	88,90	90,0	95,0	105,0	76,0	B-RB8M8N
M110x1.5						110,0	115,0	128,0		B-RB10M8N
M110x1.5	NPT 4"	100,0	28,0	45,0	114,30	110,0	120,0	134,0	78,0	B-RB10M10N

Ex d / e Reducers



Technical Details

Material	**Body**	Brass, Brass Bickel Plated Stainless Steel Galvanised Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material** Chloroprene Rubber		
	Ex d/e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD B-RA.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +100°C IP66/68 CESI 13 ATEX 066X / IECEx CES 13.0022X		
Type Protection		Ex d ; Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1 • Pg (P) DIN 40430 • Pf (PF) GAS UNI ISO 228/1		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 066X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0022X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2007-04 Edition:6 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0150 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

For more information see our webpage.

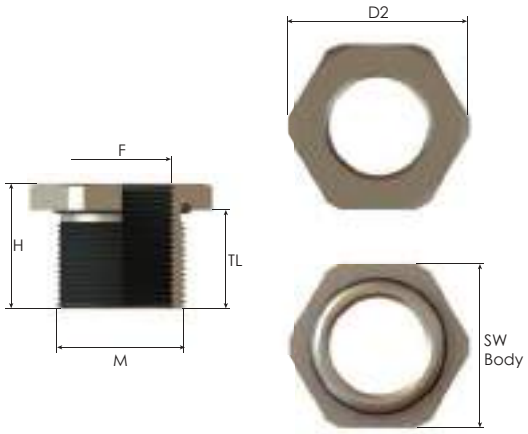
Size Selection Table

Thread Type	Sizes & Code Nr.									
METRIC EN 60423 (M)	16	20	25	32	40	50	63	75	90	110
	01	1	2	3	4	5	6	7	8	10
NPT ANSI B1.20.1 (N)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10
PG DIN 40430 (P)	9	11	13,5	16	21	29	36	42	48	
	2	3	4	5	6	7	8	9	10	
PF GAS UNI ISO 228/1 (PF)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10

Order Encoding

Code	Male Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Male Thread	Female Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Female Thread	B – Brass BN- Brass Nickel Plated X – Stainless Steel Z - Galvanised steel Material	•C: Chloroprene Sealing	Code Example
B-RA	01	M	01	M	BN	C	B-RA01M01MBNC

GRUS
Ex d / e Reducers



Thread Type **METRIC** > **METRIC** acc. to EN 60423

Size Male M	Size Female F	Thread Length TL mm	Thread Ø Male M mm	Thread Ø Female F mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M20x1.5	M16x1.5	15,0	20,0	16,0	25,0	27,5	19,0	B-RA1M01M
M25x1.5	M16x1.5	15,0	25,0	16,0	30,0	33,0	19,0	B-RA2M01M
	M20x1.5		32,0	20,0				B-RA2M1M
M32x1.5	M20x1.5	15,0	32,0	20,0	36,0	39,8	19,0	B-RA3M1M
	M25x1.5			25,0				B-RA3M2M
M40x1.5	M20x1.5	18,0	40,0	20,0	45,0	50,0	22,0	B-RA4M1M
	M25x1.5			25,0				B-RA4M2M
	M32x1.5			32,0				B-RA4M3M
M50x1.5	M32x1.5	18,0	50,0	32,0	55,0	61,0	23,0	B-RA5M3M
	M40x1.5			40,0				B-RA5M4M
M63x1.5	M40x1.5	18,0	63,0	40,0	70,0	78,0	23,0	B-RA6M4M
	M50x1.5			50,0				B-RA6M5M
M75x1.5	M50x1.5	18,0	75,0	50,0	85,0	94,0	24,0	B-RA7M5M
	M63x1.5			63,0				B-RA7M6M
M90x1.5	M63x1.5	21,0	90,0	63,0	100,0	111,0	29,0	B-RA8M6M
	M75x1.5			75,0				B-RA8M7M
M110x1.5	M75x1.5	21,0	110,0	75,0	120,0	134,0	31,0	B-RA10M7M
	M90x1.5			90,0				B-RA10M8M

Thread Type **METRIC** acc. to EN 60423 > **NPT** acc. to ANSI ASME B1.20.1

Size Male M	Size Female F	Thread Length TL mm	Thread Ø Male M mm	Thread Ø Female F mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M25x1.5	Npt 1/2"	15,0	25,0	21,34	30,0	33,0	21,0	B-RA2M1N
M32x1.5	Npt 1/2"	18,0	32,0	21,34	36,0	36,0	21,0	B-RA3M1N
	Npt 3/4"			26,67			26,0	B-RA3M2N
M40x1.5	Npt 3/4"	18,0	40,0	26,67	45,0	50,0	26,0	B-RA4M2N
	Npt 1"			33,40			28,0	B-RA4M3N
M50x1.5	Npt 1"	18,0	50,0	33,40	55,0	61,0	28,0	B-RA5M3N
	Npt 1 1/4"			42,16				B-RA5M4N
M63x1.5	Npt 1 1/4"	18,0	63,0	42,16	70,0	78,0	28,0	B-RA6M4N
	Npt 1 1/2"			48,26				B-RA6M5N
M75x1.5	Npt 1 1/2"	18,0	75,0	48,26	85,0	94,0	28,0	B-RA7M5N
	Npt 2"			60,33				B-RA7M6N
M90x1.5	Npt 2"	21,0	90,0	60,33	100,0	111,0	28,0	B-RA8M6N
	Npt 2 1/2"	31,0		73,03			41,0	B-RA8M7N
M110x1.5	Npt 2 1/2"	31,0	110,0	73,03	120,0	134,0	41,0	B-RA10M7N
	Npt 3"	33,0		88,90			43,0	B-RA10M8N

Ex d / e Couplings

Technical Details

Material	**Body**	Brass, Brass Bickel Plated Stainless Steel Galvanised Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber		
	Ex d/e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD B-RM.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +100°C IP66/68 CESI 13 ATEX 066X / IECEx CES 13.0022X		
Type Protection		Ex d ; Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1 • Pg (P) DIN 40430 • Pf (PF) GAS UNI ISO 228/1		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 066X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0022X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2007-04 Edition:6 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0150 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

For more information see our webpage.

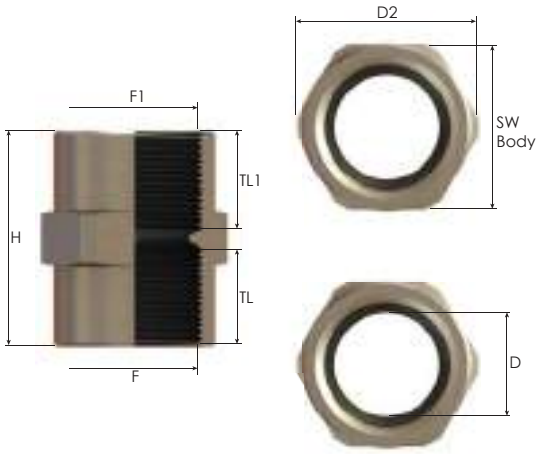
Size Selection Table

Thread Type	Sizes & Code Nr.									
METRIC EN 60423 (M)	16	20	25	32	40	50	63	75	90	110
	01	1	2	3	4	5	6	7	8	10
NPT ANSI B1.20.1 (N)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10
PG DIN 40430 (P)	9	11	13,5	16	21	29	36	42	48	
	2	3	4	5	6	7	8	9	10	
PF GAS UNI ISO 228/1 (PF)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10

Order Encoding

Code	Female Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Female Thread	Female Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Female Thread	B – Brass BN- Brass Nickel Plated X – Stainless Steel Z - Galvanised steel Material	•C: Chloroprene Sealing	Code Example
B-RM	01	M	01	M	BN	C	B-RM01M01MBNC

ARIES
Ex d / e Couplings



Thread Type **METRIC** > **METRIC** acc. to EN 60423

Size Female F	Size Female F1	max. Cable Ø D mm	Thread Length TL mm	Thread Length TL1 mm	Thread Ø Female F mm	Thread Ø Female F1 mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M16x1.5	**M16x1.5**	13,0	15,0	15,0	16,0	16,0	20,0	22,0	33,0	**B-RM01M01M**
M20x1.5	**M16x1.5**	13,5	15,0	15,0	20,0	16,0	25,0	27,5	33,0	**B-RM1M01M**
	M20x1.5	16,0				20,0				**B-RM1M1M**
M25x1.5	**M20x1.5**	17,0	15,0	15,0	25,0	20,0	32,0	35,5	33,0	**B-RM2M1M**
	M25x1.5	22,0				25,0				**B-RM2M2M**
M32x1.5	**M25x1.5**	22,0	15,0	15,0	32,0	25,0	36,0	39,8	34,0	**B-RM3M2M**
	M32x1.5	29,0				32,0				**B-RM3M3M**
M40x1.5	**M32x1.5**	29,0	18,0	15,0	40,0	32,0	45,0	50,0	37,0	**B-RM4M3M**
	M40x1.5	37,0				40,0			38,0	**B-RM4M4M**
M50x1.5	**M40x1.5**	37,5	18,0	18,0	50,0	40,0	55,0	61,0	40,0	**B-RM5M4M**
	M50x1.5	47,0				50,0				**B-RM5M5M**
M63x1.5	**M50x1.5**	47,0	18,0	18,0	63,0	50,0	68,0	75,0	41,0	**B-RM6M5M**
	M63x1.5	60,0				63,0				**B-RM6M6M**
M75x1.5	**M63x1.5**	60,0	18,0	18,0	75,0	63,0	80,0	89,0	41,0	**B-RM7M6M**
	M75x1.5	72,0				75,0				**B-RM7M7M**
M90x1.5	**M75x1.5**	72,0	21,0	18,0	90,0	75,0	95,0	105,0	45,0	**B-RM8M7M**
	M90x1.5	87,0		21,0		90,0				**B-RM8M8M**
M110x1.5	**M110x1.5**	107,0	21,0	21,0	110,0	110,0	120,0	134,0	45,0	**B-RM10M10M**

Thread Type **NPT** > **NPT** acc. to ANSI ASME B1.20.1

Size Female F	Size Female F1	max. Cable Ø D mm	Thread Length TL mm	Thread Length TL1 mm	Thread Ø Female F mm	Thread Ø Female F1 mm	Spanner Width SW Body mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT 3/8"	**NPT 3/8"**	12,5	15,0	15,0	17,15	17,15	20,0	22,0	32,0	**B-RM02N02**
NPT 1/2"	**NPT 3/8"**	13,0	15,0	15,0	21,34	17,15	25,0	27,5	33,0	**B-RM1N02**
	NPT 1/2"	16,0				21,34			32,0	**B-RM1N1**
NPT 3/4"	**NPT 1/2"**	16,0	15,0	15,0	26,67	21,34	32,0	35,5	33,0	**B-RM2N1**
	NPT 3/4"	21,0				26,67			32,0	**B-RM2N2**
NPT 1"	**NPT 3/4"**	21,0	15,0	15,0	33,40	26,67	36,0	39,8	33,0	**B-RM3N2**
	NPT 1"	27,0				33,40			32,0	**B-RM3N3**
NPT 1 1/4"	**NPT 1"**	35,5	18,0	15,0	42,16	33,40	45,0	50,0	37,0	**B-RM4N3**
	NPT 1 1/4"	36,0		18,0		42,16			38,0	**B-RM4N4**
NPT 1 1/2"	**NPT 1 1/4"**	41,5	18,0	18,0	48,26	42,16	55,0	61,0	39,0	**B-RM5N4**
	NPT 1 1/2"					48,26			38,0	**B-RM5N5**
NPT 2"	**NPT 1 1/2"**	41,5	18,0	18,0	60,33	48,26	65,0	72,0	42,0	**B-RM6N5**
	NPT 2"	53,5				60,33			38,0	**B-RM6N6**
NPT 2 1/2"	**NPT 2"**	53,5	28,0	18,0	73,03	60,33	80,0	89,0	51,0	**B-RM7N6**
	NPT 2 1/2"	64,0				73,03			60,0	**B-RM7N7**
NPT 3"	**NPT 2 1/2"**	64,0	28,0	28,0	88,90	73,03	95,0	105,0	53,0	**B-RM8N7**
	NPT 3"	80,0				88,90			58,0	**B-RM8N8**
NPT 4"	**NPT 3"**	81,0	28,0	28,0	114,30	88,90	120,0	134,0	59,0	**B-RM10N8**
	NPT 4"	105,0				114,30			59,0	**B-RM10N10**

Ex d / e Nipples

Technical Details

Material	**Body**	Brass, Brass Bickel Plated Stainless Steel Galvanised Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber		
	Ex d/e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD B-RN.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +100°C IP66/68 CESI 13 ATEX 066X / IECEx CES 13.0022X		
Type Protection		Ex d ; Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1 • Pg (P) DIN 40430 • Pf (PF) GAS UNI ISO 228/1		

Approvals

	Certificate Number	Standards
	CESI 13 ATEX 066X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0022X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2007-04 Edition:6 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0150 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

For more information see our webpage.

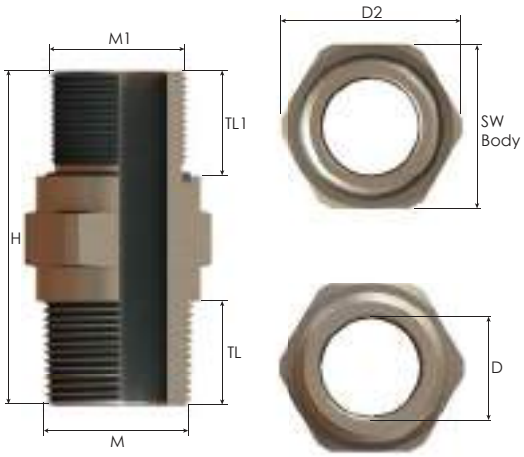
Size Selection Table

Thread Type	Sizes & Code Nr.									
METRIC EN 60423 (M)	16	20	25	32	40	50	63	75	90	110
	01	1	2	3	4	5	6	7	8	10
NPT ANSI B1.20.1 (N)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10
PG DIN 40430 (P)	9	11	13,5	16	21	29	36	42	48	
	2	3	4	5	6	7	8	9	10	
PF GAS UNI ISO 228/1 (PF)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
	01	1	2	3	4	5	6	7	8	10

Order Encoding

Code	Male Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Male Thread	Male Thread Size Code	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas Male Thread	B – Brass BN- Brass Nickel Plated X – Stainless Steel Z - Galvanised steel Material	•C: Chloroprene Sealing	Code Example
B-RN	01	M	01	M	BN	C	B-RN01M01MBNC

PAVO
Ex d / e Nipples



Thread Type **METRIC** > **METRIC** acc. to EN 60423

Size		max. Cable Ø	Thread Length	Thread Length	Thread Ø	Thread Ø	Spanner Width	Outer min. Ø	max. Height	Part Number
Male M	Male M1	D mm	TL mm	TL1 mm	Male M	Male M1 mm	SW Body mm	D2 mm	H mm	
M16x1.5	M16x1.5	10,0	15,0	15,0	16,0	16,0	20,0	22,0	48,0	B-RN01M01M
M20x1.5	M20x1.5	14,0	15,0	15,0	20,0	20,0	24,0	26,5	48,0	B-RN1M1M
M25x1.5	M25x1.5	19,0	15,0	15,0	25,0	25,0	32,0	35,5	50,0	B-RN2M2M
M32x1.5	M32x1.5	26,0	15,0	15,0	32,0	32,0	36,0	39,8	50,0	B-RN3M3M
M40x1.5	M40x1.5	34,0	18,0	18,0	40,0	40,0	45,0	50,0	56,0	B-RN4M4M
M50x1.5	M50x1.5	44,0	18,0	18,0	50,0	50,0	55,0	61,0	58,0	B-RN5M5M
M63x1.5	M63x1.5	57,0	18,0	18,0	63,0	63,0	70,0	78,0	58,0	B-RN6M6M
M75x1.5	M75x1.5	69,0	18,0	18,0	75,0	75,0	85,0	94,0	62,0	B-RN7M7M
M90x1.5	M90x1.5	84,0	21,0	21,0	90,0	90,0	100,0	111,0	68,0	B-RN8M8M
M110x1.5	M110x1.5	100,0	21,0	21,0	110,0	110,0	120,0	134,0	69,0	B-RN10M10M

Thread Type **NPT** > **NPT** acc. to ANSI ASME B1.20.1

Size		max. Cable Ø	Thread Length	Thread Length	Thread Ø	Thread Ø	Spanner Width	Outer min. Ø	max. Height	Part Number
Male M	Male M1	D mm	TL mm	TL1 mm	Male M	Male M1 mm	SW Body mm	D2 mm	H mm	
NPT 3/8"	NPT 3/8"	12,0	16,0	16,0	17,15	17,15	20,0	22,0	50,0	B-RN01N01N
	NPT 1/2"			21,0		21,34	24,0	26,5	55,0	B-RN01N1N
NPT 1/2"	NPT 1/2"	15,5	21,0	21,0	21,34	21,34	24,0	26,5	60,0	B-RN1N1N
	NPT 3/4"					26,67	32,0	35,5	62,0	B-RN1N2N
NPT 3/4"	NPT 3/4"	19,0	21,0	21,0	26,67	26,67	32,0	35,5	62,0	B-RN2N2N
	NPT 1"			26,0		33,40	36,0	39,8	67,0	B-RN2N3N
NPT 1"	NPT 1"	25,0	26,0	26,0	33,40	33,40	36,0	39,8	72,0	B-RN3N3N
	NPT 1 1/4"			28,0		42,16	45,0	50,0	74,0	B-RN3N4N
NPT 1 1/4"	NPT 1 1/4"	33,0	28,0	28,0	42,16	42,16	45,0	50,0	76,0	B-RN4N4N
NPT 1 1/2"	NPT 1 1/2"	40,0	28,0	28,0	48,26	48,26	55,0	61,0	78,0	B-RN5N5N
NPT 2"	NPT 2"	52,0	28,0	28,0	60,33	60,33	65,0	72,0	78,0	B-RN6N6N
NPT 2 1/2"	NPT 2 1/2"	62,0	41,0	41,0	73,03	73,03	80,0	89,0	108,0	B-RN7N7N

Ex d / e Plugs

Technical Details

Material	**Body**	Brass, Brass Bickel Plated Stainless Steel Galvanised Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber		
	Ex d/e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	BMD B-TS.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-40°C +100°C IP66/68 CESI 13 ATEX 066X / IECEx CES 13.0022X		
Type Protection		Ex d ; Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1 • Pg (P) DIN 40430 • Pf (PF) GAS UNI ISO 228/1		

Approvals

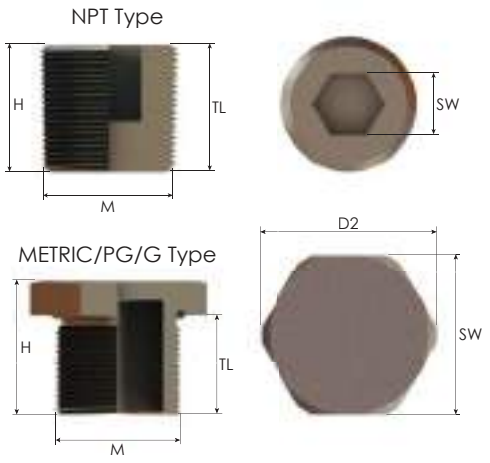
	Certificate Number	Standards
	CESI 13 ATEX 066X	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0022X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2007-04 Edition:6 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	№ ТС RU C-TR.ГБ05.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ Р МЭК 60079-0:2011 ГОСТ Р МЭК 60079-7:2012 ГОСТ Р МЭК 60079-31:2010 ГОСТ Р МЭК 60079-14:2008
	DNV 12.0150 X	ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

For more information see our webpage.

Order Encoding

Code	Male Thread	Material	Sealing	Code Example
	•M: Metric •N: NPT •C: PF •P: Pg •G: Gas	B – Brass BN- Brass Nickel Plated X – Stainless Steel Z - Galvanised steel	•C: Chloroprene	
B-TS	M	BN	C	B-TS01BNC

Aquila
Ex d / e Plugs



Thread Type **METRIC** acc. to EN 60423

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M16x1.5	15,5	16,0	22,0	24,0	21,0	**B-TS01M**
M20x1.5	15,5	20,0	25,0	27,5	21,0	**B-TS1M**
M25x1.5	15,5	25,0	30,0	33,0	21,0	**B-TS2M**
M32x1.5	15,5	32,0	37,0	41,0	21,0	**B-TS3M**
M40x1.5	17,5	40,0	45,0	50,0	23,0	**B-TS4M**
M50x1.5	17,5	50,0	55,0	61,0	23,0	**B-TS5M**
M63x1.5	17,5	63,0	70,0	78,0	23,0	**B-TS6M**
M75x1.5	20,0	75,0	85,0	89,0	25,0	**B-TS7M**
M90x1.5	20,0	90,0	100,0	111,0	25,0	**B-TS8M**
M110x1.5	20,0	110,0	120,0	134,0	25,0	**B-TS10M**

Thread Type **PG** acc. to DIN 40430

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
Pg 9	16,5	15,2	20,0	22,0	22,0	**B-TS2P**
Pg 11	16,5	18,6	25,0	27,5	22,0	**B-TS3P**
Pg 13,5	16,5	20,4	25,0	27,5	22,0	**B-TS4P**
Pg 16	16,5	22,5	27,0	30,0	22,0	**B-TS5P**
Pg 21	17,0	28,3	35,0	39,0	22,0	**B-TS6P**
Pg 29	17,0	37,0	42,0	47,0	22,0	**B-TS7P**
Pg 36	17,0	47,0	55,0	61,0	22,0	**B-TS8P**
Pg 42	17,0	54,0	60,0	66,5	22,0	**B-TS9P**
Pg 48	17,0	59,3	65,0	72,0	22,0	**B-TS10P**

Thread Type **PF(G)** acc. to GAS UNI ISO 228/1

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
Pf 3/8"	17,5	17,14	22,0	24,0	23,0	**B-TS01C**
Pf 1/2"	18,0	21,34	25,0	27,5	23,0	**B-TS1C**
Pf 3/4"	18,0	26,67	32,0	35,5	23,0	**B-TS2C**
Pf 1"	22,0	33,40	37,0	41,0	27,0	**B-TS3C**
Pf 1 1/4"	22,0	42,16	45,0	50,0	27,0	**B-TS4C**
Pf 1 1/2"	22,0	48,26	55,0	61,0	27,0	**B-TS5C**
Pf 2"	22,0	60,33	65,0	72,0	27,0	**B-TS6C**
Pf 2 1/2"	22,0	73,03	85,0	94,0	30,0	**B-TS7C**
Pf 3"	22,0	88,90	95,0	105,0	30,0	**B-TS8C**
Pf 4"	22,0	114,30	120,0	134,0	30,0	**B-TS10C**

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT3/8"	16,0	17,14	6.1	-	16,0	**B-TS01N**
NPT1/2"	21,0	21,34	10.1	-	21,0	**B-TS1N**
NPT3/4"	21,0	26,67	10.1	-	21,0	**B-TS2N**
NPT1"	26,0	33,40	14.1	-	26,0	**B-TS3N**
NPT1 1/4"	28,0	42,16	20.1	-	28,0	**B-TS4N**
NPT1 1/2"	28,0	48,26	25.1	-	28,0	**B-TS5N**
NPT2"	28,0	60,33	30.1	-	28,0	**B-TS6N**
NPT2 1/2"	41,0	73,03	45.1	-	41,0	**B-TS7N**
NPT3"	43,0	88,90	55.1	-	43,0	**B-TS8N**
NPT4"	45,0	114,30	65.1	-	45,0	**B-TS10**

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PRESSURE BALANCE ELEMENTS
for Gas & Dust Application





Ex Glands / Group II-III / Gas & Dust
Ex II 2GD / Ex e IIC Gb - Ex tb IIIC Db





In order to choose the right ventilation plug unit (pressure balance elements) for a specific application, the working principles of the unit must be known first Ventilation plugs are permeable to "gases and vapours, e.g. air" but impermeable to "liquids and dust, e.g. water". The permeability resistance to liquids depends on the pore size and structure of the membrane inside these devices.

If the working conditions of water (the most common liquid) are studied, it is possible to say that the water intrusion pressure goes down as air permeability increases. The relevant specifications are collected in tabulated data.

Of the relevant parameters, the "Pressure Balance" function depends on the differantial pressure between the inner and the outer environnements of the enclosure. As a reference pressure, 70 mBar (70mBar = 1 Psi) value is choosen to present data. Under normal conditions, air circulation exists for all differential pressure levels. But the volume flow rate is very low for smaller values and obviously increases with increasing pressure values. Of course the air flow rate also depends on the properties of the membrane (classified as standard, medium, high and ultra high permeability types).

If there is no water pressure danger (if the device is not immersed in the water), it is always better to choose highly permeable elements for good circulation even for low differantial pressure levels.

In essence, there is air circulation in the enclosure from the inside to the outside when the device is heating up due to its operation. Similarly, a circulation in reverse direction occurs during the cooling period. It should also be noted that there is always a level of humidity in air, hence some water in the form of vapour is also circulated with air. However condensed water is blocked by the water repellent membrane unless the differential pressure exceeds the intrusion pressure threshold.

After this technical overview, the utility of the "Ventilation Plugs" can be listed as follows;

• Prevention of pressure increase inside the enclosure. The pressure sensitive elements are not threatened.

• Limiting of temperature increase by the air circulation. The temperature sensitive elements are not threatened.

• Added flexibility for maintenance. In traditional units, when the enclosures are heated, generaly the dilated air goes out from the seals but can not return back when the device is colder. Because of the vacuum formed inside the enclosure, the gaskets are exposed to large pressure levels. In result, it is very difficult to open the covers for maintenance. Especially in “luminaires” it is obligatory to change the bulbs when the device is cold. The ventilation plugs in our system prevent these kind of limitations.

• Prevention of accidental water suction into the system. During the cooling period, we know that there is air circulation from the outside to the inside. Hence, if the enclosure is wet from rain or due to other reasons, some water may be sucked inside the enclosure if there is no ventilation plug.

• Prevention of exposure to hot, humid, compressed gases. There is always a level of humidity in the enclosure due to atmospheric conditions. Hence when the device is hot, all the components will be exposed to a hot, humid and compressed environment without the ventilation plug.

To conclude, the ventilation plug can reduce and even fully eliminate the adverse effects of humidity in the environment. Water drops on the bottom of the enclosure are normal,but the inherent damage becomes insignificant due to the existence of a ventilation plug.

Ex e Ventilation Plugs

Technical Details				
Material	**Body**	Stainless Steel		
	Seal	CR (Chloroprene Rubber)		
Protection Class		IP 66 (EN 60529)		
Operating Temperature		**Seal Material**		
		Chloroprene Rubber		
	Ex e/tb	-40°C / +100°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
	Suitable for use in	Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
	Equipment Marking	Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
	Marking Example	RST DAE... IBExU 10 ATEX 1169 U Ex II2D		
Type Protection		Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423		

Approvals

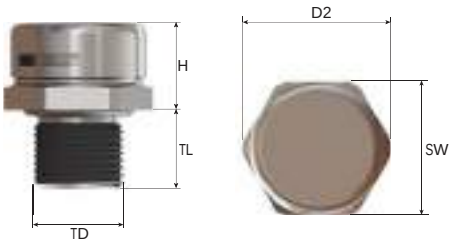
	Certificate Number	Standards
Ex	IBExU 10 ATEX 1169 U	EN 60079-0:2009 EN 60079-7:2007 EN 60079-31:2009

For more information see our webpage.

Order Encoding

Type	Thread	Air Permeability	Code Examples
BBVP-X	M (Metric)	S-M-H-UH	MBBVP-X01 SBBVP-X01L HBBVP-X01 UHBBVP-X01L

HYDRA
Ex e Ventilation Plugs



Thread Type **METRIC** acc. to EN 60423

Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	ΔP=1 Psi=70 mBar Average Air Permeability in lt/hour				Water Instrusion pressure in Bar				Part Number
						S	M	H	UH	S	M	H	UH	
M12x1.5	6,0	12,0	17,0	18,8	11,0	16,0	25,0	120,0	300,0	0,9	0,5	0,2	0,1	**BBVP-X01**
	10,0													**BBVP-X01L**

VIRGO

Ex e Drain Plugs

Technical Details				
Material	**Body**	Brass, Brass Bickel Plated Stainless Steel		
	Bushing	Bronze		
	Seal	Silicone		
Protection Class		IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature		**Seal Material**		
		Silicone		
Ex e/tb		-60°C / +85°C		
Equipment For		• Gas & Dust potentially explosive atmospheres.		
Suitable for use in		Group II Group III	Gas Group IIC Dust Group IIIC	ZONE1/ZONE2 ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex e IIC Gb / Ex tb IIIC Db		
Marking Example		BMD BDRV.. Ex CE 0722 II 2GD Ex e IIC Gb Ex tb IIIC Db Ta-60°C +85°C IP66/68 IMQ 13 ATEX 030/IECEx IMQ 14.0003U		
Type Protection		Ex e ; Ex tb		
Thread Type		• Metric (M) EN 60423 • Npt (N) ANSI ASME B1.20.1		

Approvals

	Certificate Number	Standards
	IMQ 13 ATEX 030U	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009
	IECEx IMQ 14.0003U	IEC 60079-0:2011 Edition:6.0 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4

For more information see our webpage.

Drain Plug provides a method of effectively draining any moisture within an enclosure whilst allowing the air inside the enclosure to breathe with the surrounding atmosphere.

Order Encoding

Type	Thread	Material	Code Examples
BDRV	M (Metric) N (Npt)	B (Brass) BN (Brass Nickel Plated) X (Stainless Steel)	BDRV-1MBN BDRV-2NX

VIRGO
Ex e Drain Plugs

Thread Type **METRIC** acc. to EN 60423

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
M20x1,5	15,0	20,0	25	27,5	16,0	**BDRV-1M**
M25x1,5	15,0	25,0	30	33,0	16,0	**BDRV-2M**

Thread Type **NPT** acc. to ANSI ASME B1.20.1

Thread Size	Thread Length TL mm	Thread Ø TD mm	Spanner Width SW mm	Outer min. Ø D2 mm	max. Height H mm	Part Number
NPT 1/2"	15,0	21,34	25	27,5	16,0	**BDRV-1N**
NPT 3/4"	15,0	26,67	30	33,0	16,0	**BDRV-2N**

bimed

ACCESSORIES
for Mining, Gas & Dust Application











Earth Tags

Technical Details

Material	Brass, Brass Bickel Plated Stainless Steel 304 Stainless Steel 316

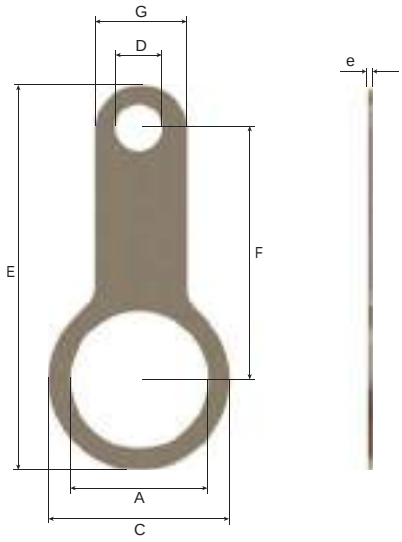
For more information see our webpage.

Size Selection Table

Thread Type	Sizes & Code Nr.											
METRIC	12	16	20	25	32	40	50	63	75	80	90	110
EN 60423 (M)	02	01	1	2	3	4	5	6	7	8	9	10
NPT	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2				
ANSI B1.20.1 (N)	02	01	1	2	3	4	5	6				

Order Encoding

Size	Material	Code Examples
BMET	B (Brass)	BMET01B
BNET	BN (Brass Nickel Plated)	BNET1BN
	X304	BMET2X304
	X316	BMET01X316



Type **METRIC**

Size	Dimensions AØ mm	e mm	CØ mm	DØ mm	E mm	F mm	G mm	Part Number
M12	12,20	1,5	22,0	6,2	46,00	30,0	12,0	**BMET02**
M16	16,20	1,5	25,0	6,2	48,75	30,0	12,5	**BMET01**
M20	20,20	1,5	28,6	6,2	53,55	33,0	12,5	**BMET1**
M25	25,20	1,5	34,0	6,2	59,50	36,0	13,0	**BMET2**
M32	32,20	1,5	42,0	12,2	73,00	41,0	22,0	**BMET3**
M40	40,20	1,5	54,0	14,2	86,50	46,5	26,0	**BMET4**
M50	50,20	1,5	67,0	14,2	111,50	63,5	29,0	**BMET5**
M63	63,20	1,5	77,0	14,2	125,50	72,5	29,0	**BMET6**
M75	75,20	1,5	89,0	14,2	137,50	77,0	32,0	**BMET7**
M80	80,20	1,5	100,0	14,2	158,0	91,5	32,0	**BMET8**
M90	90,20	1,5	109,5	14,2	167,00	94,5	35,5	**BMET9**
M110	110,20	1,5	138,0	14,2	214,00	125,0	40,0	**BMET10**

Type **NPT**

Size	Dimensions AØ mm	e mm	CØ mm	DØ mm	E mm	F mm	G mm	Part Number
NPT 1/4"	13,50	1,5	22,0	6,2	46,00	30,0	12,0	**BNET02**
NPT 3/8"	17,35	1,5	25,0	6,2	48,75	30,0	12,5	**BNET01**
NPT 1/2"	21,70	1,5	28,6	6,2	53,55	33,0	12,5	**BNET1**
NPT 3/4"	26,90	1,5	34,0	6,2	59,50	36,0	13,0	**BNET2**
NPT 1"	33,60	1,5	42,0	12,2	73,00	41,0	22,0	**BNET3**
NPT 1 1/4"	42,35	1,5	54,0	14,2	86,50	46,5	26,0	**BNET4**
NPT 1 1/2"	48,50	1,5	67,0	14,2	111,50	63,5	29,0	**BNET5**
NPT 2"	60,50	1,5	77,0	14,2	125,50	72,5	29,0	**BNET6**

Shrouds

Technical Details

Material	Pvc

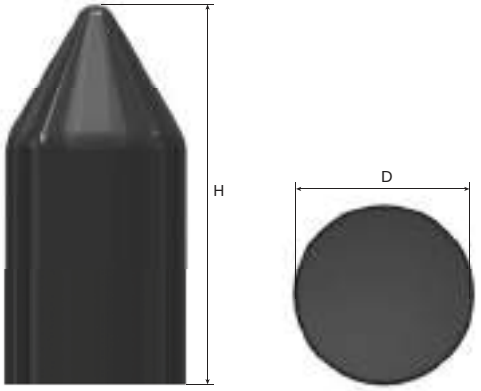
For more information see our webpage.

Size Selection Table

Size	Sizes & Code Nr.									
METRIC	16	20	25	32	40	50	63	75	90	110
EN 60423 (M)	01	1	2	3	4	5	6	7	8	10

Order Encoding

Type	Size	Gland Type	
BMSH	M16	KBA (Orion) BU (Octans)	Code Examples
BMSH	01	BA	BMSH01BA



ORION TYPE SHROUDS

Size	Gland Code	D Ø mm	H mm	Part Number
M16	KBA01S	29.1	67.0±2.0	BMSH01SKBA
M20	KBA1S			BMSH1SKBA
M16	KBA01	31.7	68.0±2.0	BMSH01KBA
M20	KBA1			BMSH1KBA
M25	KBA2S			BMSH2SKBA
M20	KBA1L	35.2	76.6±2.0	BMSH1LKBA
M25	KBA2S	37.2	78.6±2.0	BMSH2SKBA
M25	KBA2			BMSH2KBA
M25	KBA2L	44.2	81.6±2.0	BMSH2LKBA
M32	KBA3S			BMSH3SKBA
M32	KBA3	57.2	112.0±3.0	BMSH3KBA
M40	KBA4S			BMSH4SKBA
M40	KBA4	66.2	117.1±3.0	BMSH4KBA
M50	KBA5S	82.2	132.6±3.0	BMSH5SKBA
M50	KBA5	83.2	132.6±3.0	BMSH5KBA
M63	KBA6S	89.7	148.0±3.0	BMSH6SKBA
M63	KBA6	94.2	143.8±3.0	BMSH6KBA
M75	KBA7S			BMSH7SKBA
M75	KBA7	110.6	182.7±3.0	BMSH7KBA
M90	KBA8S			BMSH8SKBA

OCTANS TYPE SHROUDS

Size	Gland Code	D Ø mm	H mm	Product Number
M16	BU01	24.5	56.1±2.0	BMSH01BU
M20	BU1			BMSH1BU
M20	BU12	31.0	67.5±2.0	BMSH12BU
M25	BU2			BMSH2BU
M25	BU23	39.0	72.6±2.0	BMSH23BU
M32	BU3			BMSH3BU
M32	BU34	49.5	91.7±2.0	BMSH34BU
M40	BU4			BMSH4BU
M40	BU45	56.1	88.0±2.0	BMSH45BU
M50	BU5			BMSH5BU
M50	BU56	70.1	93.9±2.0	BMSH56BU
M63	BU6			BMSH6BU
M63	BU67	89.0	100.8±3.0	BMSH67BU
M75	BU7			BMSH7BU

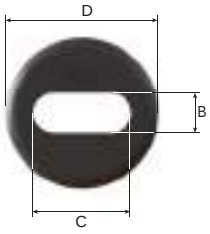
Flat Seals

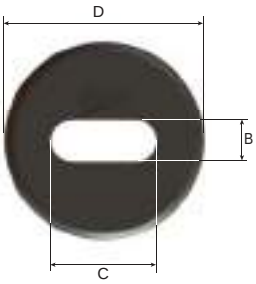
Technical Details		
Material	Chloroprene - Silicone	
Operating Temperature	Chloroprene	Silicone -60°C / +140°C
	-40°C / +100°C	-60°C / +140°C

For more information see our webpage.

Order Encoding

Gland Type	Seal Type	Flat Hole Dimension	Gland Size	Material	Code Examples
EBU (OCTANS)	Fx	A	1 (M 20)	C (Chloroprene) S (Silicone)	FxA1C
EBM (CARINA)		B	EN 60423		FxB1C
EBMS (CYGNUS)		C	1 (NPT 1/2")		FxC2S
EBLS (HYDRUS)		D	ANSI B1.20.1		FxD2C
EBLQ (SCORPIUS)		E	2 (M 25)		FxE1C
EBLN (LUPUS)		F	EN 60423		FxF2C
EBMC (CORVUS)		G	2 (NPT 3/4")		FxG2S
		H	ANSI B1.20.1		FxH2S

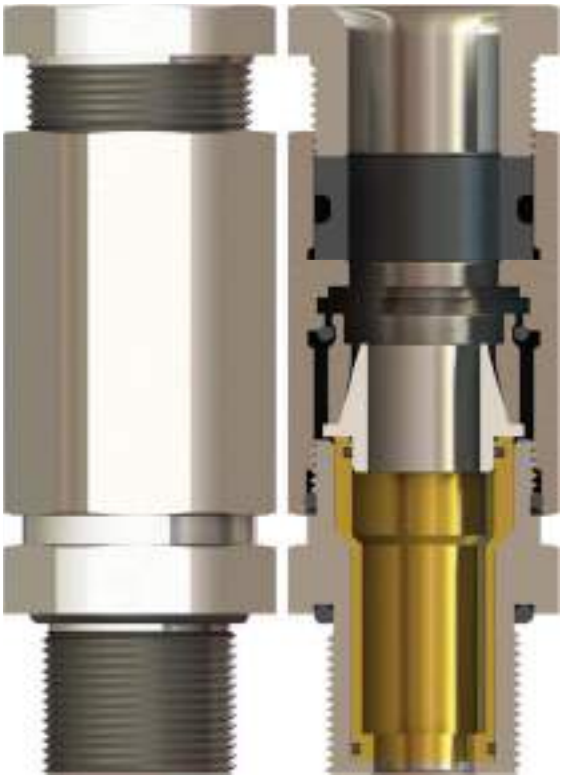




Size		Flat Hole Dimension A mm	Flat Hole Dimension B mm	Seal Dimensions D mm	Seal Dimensions H mm	Part Number
M 20	NPT 1/2"	5,00	12,20	19,00	24,20	FxA1
		6,00	8,50	19,00		FxB1
		5,50	11,70	19,00		FxC1
		6,00	12,20	19,00		FxD1
		6,30	10,80	19,00		FxE1
		6,70	12,70	19,00		FxG1
M 25	NPT 3/4"	5,00	12,80	24,20	22,00	FxA2
		6,00	8,50	24,20		FxB2
		5,50	11,70	24,20		FxC2
		6,00	14,00	24,20		FxD2
		9,10	12,30	24,20		FxE2
		7,35	13,35	24,20		FxF2
		6,80	15,30	24,20		FxG2
		5,50	10,70	24,20		FxH2

Further Accessories for Hazardous Applications

Ex-d Centaurus Teck Glands



Ex-d Centaurus Barrier Glands

Ex-d Union Fittings

Ex-d Plugs

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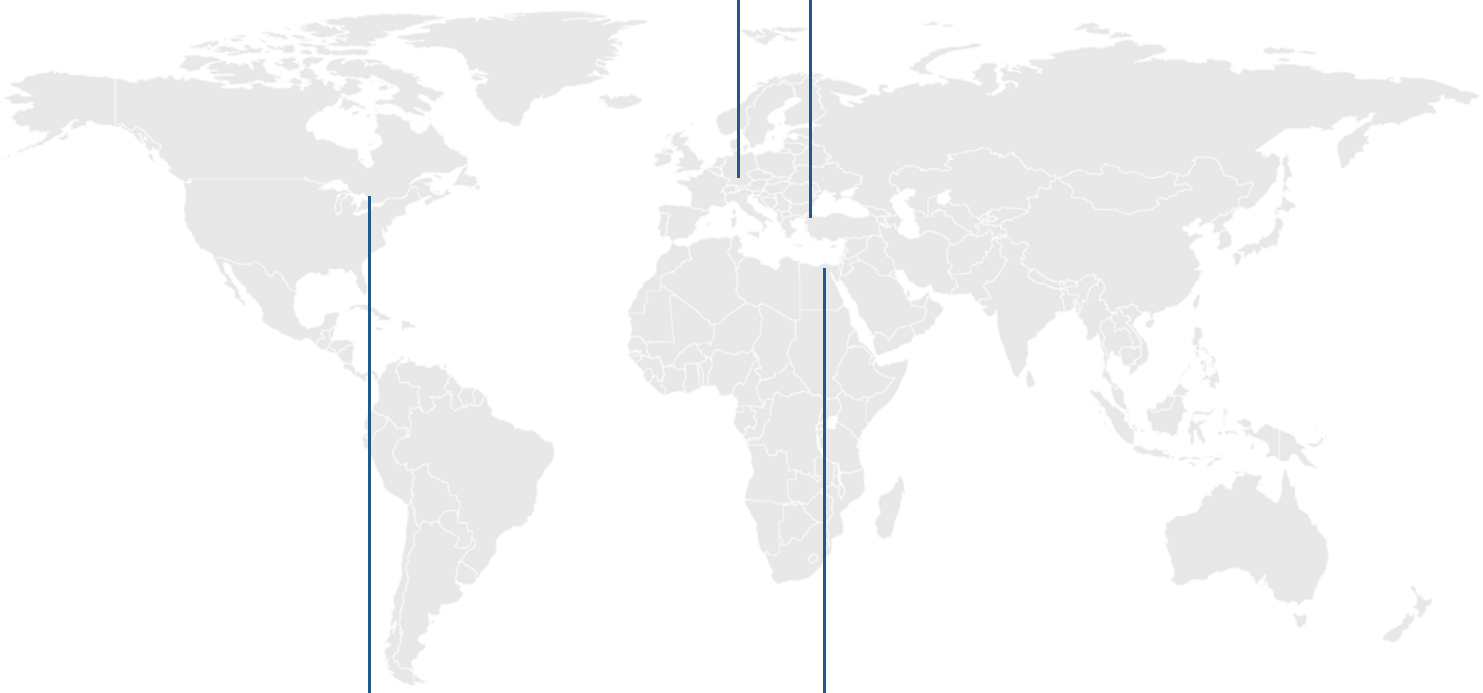

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