

CABLE GLAND ACCESSORIES

ADDED CONVENIENCE AND PROTECTION



POLYAMIDE LOCK NUTS



In standard industrial applications, installing cable glands directly on enclosure or equipment wall surfaces is not possible. In such situations Hexagonal Lock Nuts are used to secure cable glands. They are manufactured according to the requirement of DIN 46320.

Technical Details :

Material	Polyamide 6 30% glass fibre reinforced
Colour	RAL 7001 (Grey) RAL 9005 (Black) RAL 7035 (L. Grey on request)
Temperature Range	-20°C to +100°C Continuous -30°C to +150°C Intermittant
Threads available	Pg, Metric, NPT & G Thread

Pg Thread - DIN 40430

For Gland Size	Cat. No. Grey	Cat. No. Light Grey	Cat. No. Black	⌀ (mm)	Height (mm)	Standard Pack (pieces)
Pg 7	BL-01	BL-11	BL-21	19	5	50
Pg 9	BL-02	BL-12	BL-22	22	5	50
Pg 11	BL-03	BL-13	BL-23	24	5	50
Pg 13.5	BL-04	BL-14	BL-24	27	6	50
Pg 16	BL-05	BL-15	BL-25	30	6	50
Pg 21	BL-06	BL-16	BL-26	36	7	25
Pg 29	BL-07	BL-17	BL-27	46	7	20
Pg 36	BL-08	BL-18	BL-28	60	8	10
Pg 42	BL-09	BL-19	BL-29	65	8	10
Pg 48	BL-10	BL-20	BL-30	70	8	10

Metric Thread - EN 60423

For Gland Size	Cat. No. Grey	Cat. No. Light Grey	Cat. No. Black	⌀ (mm)	Height (mm)	Standard Pack (pieces)
M 12 x 1.5	BML-0S	BML-1S	BML-2S	18	5	100
M 16 x 1.5	BML-01	BML-11	BML-21	22	5	50
M 20 x 1.5	BML-02	BML-12	BML-22	26	6	50
M 25 x 1.5	BML-03	BML-13	BML-23	32	6	25
M 32 x 1.5	BML-04	BML-14	BML-24	41	7	25
M 40 x 1.5	BML-05	BML-15	BML-25	50	7	10
M 50 x 1.5	BML-06	BML-16	BML-26	60	8	10
M 63 x 1.5	BML-07	BML-17	BML-27	75	8	10
M 75 x 2.0	BML-08	BML-18	BML-28	85	15	10

NPT Thread - ANSI B 1.20.1

For Gland Size	Cat. No. Grey	Cat. No. Light Grey	Cat. No. Black	⌀ (mm)	Height (mm)	Standard Pack (pieces)
NPT 3/8"	BPL-01	BPL-11	BPL-21	22	7	50
NPT 1/2"	BPL-02	BPL-12	BPL-22	27	7	50
NPT 3/4"	BPL-03	BPL-13	BPL-23	33	7	25
NPT 1"	BPL-04	BPL-14	BPL-24	42	7	20

G Thread - G ISO 228

For Gland Size	Cat. No. Grey	Cat. No. Light Grey	Cat. No. Black	⌀ (mm)	Height (mm)	Standard Pack (pieces)
G 3/8"	BFL-01	BFL-11	BFL-21	22	6	50
G 1/2"	BFL-02	BFL-12	BFL-22	27	6	50
G 3/4"	BFL-03	BFL-13	BFL-23	33	6.4	25
G 1"	BFL-04	BFL-14	BFL-24	42	6.5	20

STANDARD LOCK NUTS - BRASS / STAINLESS STEEL



In certain applications, installing cable glands directly on enclosure or equipment wall surfaces is not possible. In such situations Lock Nuts are used to secure cable glands.

Technical Details :

Material	Brass Nickel Plated, Stainless Steel (303)
Threads available	Pg, Metric, NPT

Pg Threads

For Gland Size	Cat. No. Brass	Cat. No. Stainless Steel	 (mm)	Height (mm)	Standard Pack (pieces)
Pg 7	GBSL-01	BSLS-01	17	2.8	100
Pg 9	GBSL-02	BSLS-02	19	2.8	100
Pg 11	GBSL-03	BSLS-03	22	3.0	100
Pg 13.5	GBSL-04	BSLS-04	24	3.0	100
Pg 16	GBSL-05	BSLS-05	27	3.0	100
Pg 21	GBSL-06	BSLS-06	32	3.5	100
Pg 29	GBSL-07	BSLS-07	41	4.0	50
Pg 36	GBSL-08	BSLS-08	51	5.0	25
Pg 42	GBSL-09	BSLS-09	60	5.0	10
Pg 48	GBSL-10	BSLS-10	64	5.5	10

Metric Threads

For Gland Size	Cat. No. Brass	Cat. No. Stainless Steel	 (mm)	Height (mm)	Standard Pack (pieces)
M 12 x 1.5	GBMBL-01	BMBLS-01	15	2.8	100
M 16 x 1.5	GBMBL-02	BMBLS-02	19	2.8	100
M 20 x 1.5	GBMBL-03	BMBLS-03	24	3.0	100
M 25 x 1.5	GBMBL-04	BMBLS-04	30	3.5	100
M 32 x 1.5	GBMBL-05	BMBLS-05	36	4.0	50
M 40 x 1.5	GBMBL-06	BMBLS-06	46	4.5	50
M 50 x 1.5	GBMBL-07	BMBLS-07	60	5.0	10
M 63 x 1.5	GBMBL-08	BMBLS-08	70	5.5	10
M 72 x 2	BMBL-09	BMBLS-09	77	7.0	10
M 75 x 2	BMBL-10	BMBLS-10	80	7.0	5
M 80 x 2	BMBL-11	BMBLS-11	90	8.0	5
M 85 x 2	BMBL-12	BMBLS-12	95	8.0	5
M 90 x 2	BMBL-13	BMBLS-13	100	8.0	5
M 90 x 1.5	BMBL-13S	-	100	8.0	5

NPT Threads

For Gland Size	Cat. No. Brass	Cat. No. Stainless Steel	 (mm)	Height (mm)	Standard Pack (pieces)
NPT 1/4"	BNLN-01S	BNLNS-01S	17	5	50
NPT 3/8"	BNLN-01	BNLNS-01	24	5	50
NPT 1/2"	BNLN-02	BNLNS-02	24	5	50
NPT 3/4"	BNLN-03	BNLNS-03	35	6	50
NPT 1"	BNLN-04	BNLNS-04	46	6	25
NPT 1 1/4"	BNLN-05	BNLNS-05	55	7	25
NPT 1 1/2"	BNLN-06	BNLNS-06	60	7	25
NPT 2"	BNLN-07	BNLNS-07	74	8	10

EMC BRASS / SS LOCK NUTS



These lock nuts are specifically designed for use with EMC cable glands. These are manufactured with special notches on their corners. On tightening against the body on which the gland is being installed, the notches chip the paint of the body and make excellent electrical contact with the bare metal surface which acts as the grounding for the cable.

Technical Details :

Material	Brass Nickel Plated, Stainless Steel
Threads available	Pg, Metric, NPT

Pg Threads

For Gland Size	Cat. No.	Cat. No. Stainless Steel	(mm)	Height (mm)	Standard Pack (pieces)
Pg 7	BSEL-01	BSELS-01	15	3.3	50
Pg 9	BSEL-02	BSELS-02	18	3.3	50
Pg 11	BSEL-03	BSELS-03	21	3.5	50
Pg 13.5	BSEL-04	BSELS-04	23	3.5	50
Pg 16	BSEL-05	BSELS-05	26	3.5	25
Pg 21	BSEL-06	BSELS-06	32	4.0	25
Pg 29	BSEL-07	BSELS-07	41	4.6	20
Pg 36	BSEL-08	BSELS-08	51	5.6	15
Pg 42	BSEL-09	BSELS-09	60	5.6	12
Pg 48	BSEL-10	BSELS-10	64	6.1	12

Metric Threads

For Gland Size	Cat. No.	Cat. No. Stainless Steel	(mm)	Height (mm)	Standard Pack (pieces)
M 12 x 1.5	BMEL-01	BMELS-01	15	3.3	50
M 16 x 1.5	BMEL-02	BMELS-02	19	3.5	50
M 20 x 1.5	BMEL-03	BMELS-03	24	3.7	50
M 25 x 1.5	BMEL-04	BMELS-04	30	3.7	25
M 32 x 1.5	BMEL-05	BMELS-05	36	4.0	25
M 40 x 1.5	BMEL-06	BMELS-06	46	4.6	20
M 50 x 1.5	BMEL-07	BMELS-07	60	5.6	15
M 63 x 1.5	BMEL-08	BMELS-08	70	6.7	12

NPT Threads

For Gland Size	Cat. No. Brass	Cat. No. Stainless Steel	(mm)	Height (mm)	Standard Pack (pieces)
NPT 1/4"	BNEL-01S	BNELS-01S	17	5.5	50
NPT 3/8"	BNEL-01	BNELS-01	22	5.7	50
NPT 1/2"	BNEL-02	BNELS-02	24	6.7	50
NPT 3/4"	BNEL-03	BNELS-03	30	6.5	50
NPT 1"	BNEL-04	BNELS-04	40	7.6	25
NPT 1 1/4"	BNEL-05	BNELS-05	50	7.6	25
NPT 1 1/2"	BNEL-06	BNELS-06	58	8.7	25
NPT 2"	BNEL-07	BNELS-07	70	10.8	10
NPT 2 1/2"	BNEL-08	BNELS-08	80	10.8	10
NPT 3"	BNEL-09	BNELS-09	95	10.8	10
NPT 3 1/2"	BNEL-10	BNELS-10	115	10.8	10
NPT 4"	BNEL-11	BNELS-11	130	10.8	5
NPT 5"	BNEL-12	BNELS-12	160	13.0	5

FLAT WASHERS / GASKET FOR CABLE GLANDS



Washers are mounted on threaded part of cable gland on the outer side of equipment to ensure IP rating for rough surfaces or through holes.

Technical Details :

Material	Nitrile, Black
Threads Available	Pg & Metric Thread
Temperature Range	-25 ^o C to +100 ^o C Continuous

Pg Thread

Size	Cat. No.	External Diameter (mm)	Internal Diameter (mm)	Thickness (mm)	Standard Pack (pieces)
Pg7	WSH-Pg7	16.8	11.8	1.5	50
Pg9	WSH-Pg9	21.8	14.5	1.5	50
Pg11	WSH-Pg11	25.8	17.5	1.5	50
Pg13.5	WSH-Pg13.5	27.8	19.8	1.5	50
Pg16	WSH-Pg16	29.8	21.8	1.5	50
Pg21	WSH-Pg21	35.8	27.0	1.5	50
Pg29	WSH-Pg29	46.8	35.5	1.5	50
Pg36	WSH-Pg36	59.0	45.5	1.5	50
Pg42	WSH-Pg42	66.8	52.8	1.5	50
Pg48	WSH-Pg48	71.8	57.8	1.5	25

Metric Thread

Size	Cat. No.	External Diameter (mm)	Internal Diameter (mm)	Thickness (mm)	Standard Pack (pieces)
M12 x 1.5	WSH-M12X1.5	15.5	10.3	1.5	50
M16 x 1.5	WSH-M16X1.5	21.5	14.3	1.5	50
M20 x 1.5	WSH-M20X1.5	26.0	18.5	1.5	50
M25 x 1.5	WSH-M25X1.5	31.5	23.3	1.5	50
M32 x 1.5	WSH-M32X1.5	38.5	30.5	1.5	50
M40 x 1.5	WSH-M40X1.5	48.5	38.5	1.5	50
M50 x 1.5	WSH-M50X1.5	58.0	48.0	1.5	50
M63 x 1.5	WSH-M63X1.5	70.0	61.2	1.5	50

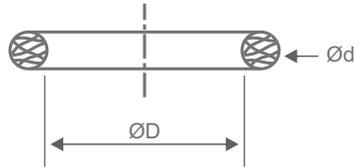
O RING



O Rings are mounted on threaded part of cable gland on the outer side of equipment to ensure IP rating for rough surfaces or through holes.

Technical Details :

Material	NBR, Black
Threads Available	Pg & Metric Thread
Temperature Range	-35°C to +120°C Continuous



Pg Thread

Size	Cat. No.	Internal Diameter D (mm)	Thickness d (mm)	Standard Pack (pieces)
Pg7	OR-P07	10.5	1.5	50
Pg9	OR-P09	14.5	1.5	50
Pg11	OR-P11	16.5	1.5	50
Pg13.5	OR-P13.5	18.5	1.5	50
Pg16	OR-P16	20.5	1.5	50
Pg21	OR-P21	26.0	2.0	50
Pg29	OR-P29	35.0	2.0	50
Pg36	OR-P36	45.0	2.0	50
Pg42	OR-P42	52.1	2.0	50
Pg48	OR-P48	57.0	2.0	50

Metric Thread

Size	Cat. No.	Internal Diameter (mm)	Thickness (mm)	Standard Pack (pieces)
M12 x 1.5	OR-M12	10.3	1.5	50
M16 x 1.5	OR-M16	14.3	1.5	50
M20 x 1.5	OR-M20	18.5	1.5	50
M25 x 1.5	OR-M25	23.3	2.0	50
M32 x 1.5	OR-M32	30.5	2.0	50
M40 x 1.5	OR-M40	38.5	2.0	50
M50 x 1.5	OR-M50	48.0	3.5	50
M63 x 1.5	OR-M63	61.2	3.5	50

DUST COVER / BLIND WASHER



Dust cover is mounted under the cap nut of cable gland to protect the gland from dust entering in cable gland during transport and storage.

Technical Details :

Material	Polyethylene
Colour	Red
Temperature Range	-30°C to +100°C Continuous

For Gland Size	Cat. No. Red	External Diameter (mm)	Thickness (mm)	Standard Pack (pieces)
M12 / Pg 7 / Pg 9	BDC-M12	12	2	50
M16 / Pg 11 / Pg 13.5	BDC-M16	16	2	50
M20 / Pg 16	BDC-M20	20	2	50
M25 / Pg 21	BDC-M25	25	2	50
M32 / Pg 29	BDC-M32	32	2	50
M40 / Pg 36	BDC-M40	40	2	25
M50 / Pg 42	BDC-M50	50	2	25
M63 / Pg 48	BDC-M63	63	2	25

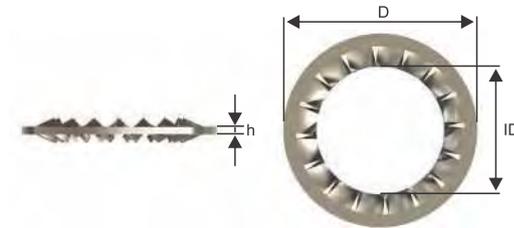
SERRATED WASHER



Serrated washers are used to fix lock nuts where mechanical stress occurs.

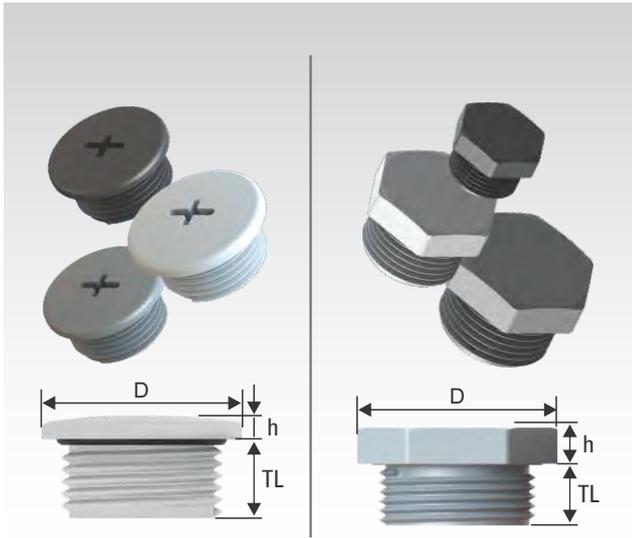
Technical Details :

Material	Brass Nickel Plated / Stainless Steel
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Cat. No. Brass Nickel Plated	Cat. No. Stainless Steel	Thread Size Metric / NPT	External Diameter (mm)	Thickness (mm)	Standard Pack (pieces)
BMTW-02BN	BMTW-02X	M16 / NPT3/8"	25.5	1.5	1000
BMTW-03BN	BMTW-03X	M20 / NPT1/2"	32.5	1.5	1000
BMTW-04BN	BMTW-04X	M25 / NPT3/4"	40.0	1.5	1000
BMTW-05BN	BMTW-05X	M32 / NPT1"	43.5	1.5	500
BMTW-06BN	BMTW-06X	M40 / NPT1 1/4"	64.5	1.5	500
BMTW-07BN	BMTW-07X	M50 / NPT1 1/2"	80.0	1.5	300
BMTW-08SBN	BMTW-08SX	M60 / -	97.0	1.5	200
BMTW-08BN	BMTW-08X	M63 / NPT2"	100.0	1.5	200
BMTW-09SBN	BMTW-09SX	M70 / -	112.0	1.5	100
BMTW-09BN	BMTW-09X	M75 / NPT2 1/2"	112.0	1.5	100
BMTW-10SBN	BMTW-10SX	M80 / -	121.0	1.5	100
BMTW-10MBN	BMTW-10MX	M85 / -	128.0	1.5	100
BMTW-10BN	BMTW-10X	M90 / NPT3"	135.0	1.5	100
BMTW-11BN	BMTW-11X	M100 / NPT3 1/2"	145.0	1.5	100
BMTW-11MBN	BMTW-11MX	M110 / -	151.0	1.5	100
BMTW-11LBN	BMTW-11LX	M115 / NPT4"	159.0	1.5	100
BMTW-13BN	BMTW-13X	M130 / -	181.5	1.5	50
BMTW-14BN	BMTW-14X	- / NPT5"	185.0	1.5	50

STANDARD POLYAMIDE BLIND STOPS



Blind Stops made of Polyamide 6 are used wherever threads previously cut must be closed for preventing dust, dirt and foreign matters from entering the enclosure or equipment. O rings of Neoprene should be mounted on the threaded part to get the IP 68 protection. They are also available in Hexagonal shape and longer thread length.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black) RAL 7035 (L. Grey on request)
Threads available	Pg, Metric, (NPT on request)
Protection Class	IP 68 - 5 Bar, 30 m
Temperature Range	-20°C to +100°C Continuous -30°C to +150°C Intermittant

Long threads also available on request.

Pg Thread in Polyamide (Circular)

Size	Cat. No. Black	Cat. No. Grey	Cat. No. Light Grey	h (mm)	Outer Diameter D (mm)	Thread Length TL (mm)	Standard Pack (pieces)
Pg 7	BBS-21(Y)	BBS-01(Y)	BBS-11(Y)	3.0	15.0	6	100
Pg 9	BBS-22(Y)	BBS-02(Y)	BBS-12(Y)	3.0	19.5	6	100
Pg 11	BBS-23(Y)	BBS-03(Y)	BBS-13(Y)	3.0	22.0	6	50
Pg 13.5	BBS-24(Y)	BBS-04(Y)	BBS-14(Y)	3.0	24.7	6	50
Pg 16	BBS-25(Y)	BBS-05(Y)	BBS-15(Y)	3.4	27.0	6	50
Pg 21	BBS-26(Y)	BBS-06(Y)	BBS-16(Y)	4.0	33.0	8	25
Pg 29	BBS-27(Y)	BBS-07(Y)	BBS-17(Y)	3.2	44.0	8	25
Pg 36	BBS-28(Y)	BBS-08(Y)	BBS-18(Y)	3.7	55.0	10	25
Pg 42	-	-	BBS-19(Y)	6.0	-	10	20
Pg 48	-	-	BBS-20(Y)	6.5	-	12	20

Metric Thread in Polyamide (Circular)

Size	Cat. No. Black	Cat. No. Grey	Cat. No. Light Grey	h (mm)	Outer Diameter D (mm)	Thread Length TL (mm)	Standard Pack (pieces)
M 12 x 1.5	BMBS-2S(Y)	BMBS-0S(Y)	BMBS-1S(Y)	3.0	15.0	6	100
M 16 x 1.5	BMBS-21(Y)	BMBS-01(Y)	BMBS-11(Y)	3.4	19.5	6	50
M 20 x 1.5	BMBS-22(Y)	BMBS-02(Y)	BMBS-12(Y)	3.0	25.0	6	50
M 25 x 1.5	BMBS-23(Y)	BMBS-03(Y)	BMBS-13(Y)	4.0	30.0	6	50
M 32 x 1.5	BMBS-24(Y)	BMBS-04(Y)	BMBS-14(Y)	4.0	37.0	8	25
M 40 x 1.5	BMBS-25(Y)	BMBS-05(Y)	BMBS-15(Y)	4.5	46.0	8	10
M 50 x 1.5	BMBS-26(Y)	BMBS-06(Y)	BMBS-16(Y)	3.7	54.9	10	10
M 63 x 1.5	BMBS-27(Y)	BMBS-07(Y)	-	6.0	68.0	12	10

Metric Thread in Polyamide (Hexagonal)

Size	Cat. No. Black	Cat. No. Grey	h (mm)	Outer Diameter D (mm)	Thread Length TL (mm)	Standard Pack (pieces)
M 12 x 1.5	BMBS-2S(A)	-	5.0	17.0	10	50
M 16 x 1.5	BMBS-21(A)	BMBS-01(A)	4.3	22.0	12	50
M 20 x 1.5	BMBS-22(A)	-	6.0	26.0	11	50
M 25 x 1.5	BMBS-23(A)	-	5.8	32.0	10	50
M 32 x 1.5	BMBS-24(A)	-	7.8	41.5	15	10
M 40 x 1.5	BMBS-25(A)	-	8.5	53.0	18	10
M 50 x 1.5	-	BMBS-06(A)	9.5	63.5	18	10

NPT Thread in Polyamide (Hexagonal)

Size	Cat. No. Black	h (mm)	Outer Diameter D (mm)	Thread Length TL (mm)	Standard Pack (pieces)
NPT 1/2"	BNBS-22(A)	6.0	26.0	15	50
NPT 3/4"	BNBS-23(A)	5.8	32.0	15	50
NPT 1"	BNBS-24(A)	7.8	41.0	15	50

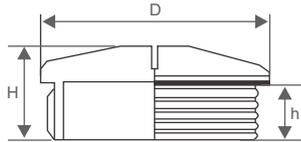
BRASS BLIND STOPS



Blind Stops made of Brass are used wherever threads previously cut must be closed for preventing dust, dirt and foreign matters from entering the enclosure or equipment.

Technical Details :

Material	Brass, Nickel Plated
O Ring	Neoprene
Temperature Range	-40° C to +140° C
Threads available	Pg, Metric
Protection Class	IP 68 - 5 Bar, 30 m



Pg Thread in Brass

Size	Cat. No.	H (mm)	D (mm)	h (mm)	Standard Pack (pieces)
Pg 7	GBBS-01	7.5	15	5	50
Pg 9	GBBS-02	8	18	5	50
Pg 11	GBBS-03	8	22	5	50
Pg 13.5	GBBS-04	9	24	6	50
Pg 16	GBBS-05	9	26	6	50
Pg 21	GBBS-06	10	32	6	25
Pg 29	GBBS-07	12	40	8	25
Pg 36	GBBS-08	15	50	9	20

Metric Thread in Brass

Size	Cat. No.	H (mm)	D (mm)	h (mm)	Standard Pack (pieces)
M 12 x 1.5	GBMBS-0S	7.5	14	5	50
M 16 x 1.5	GBMBS-01	8	18	5	50
M 20 x 1.5	GBMBS-02	9.5	22	6	50
M 25 x 1.5	GBMBS-03	11	28	7	50
M 32 x 1.5	GBMBS-04	12	35	8	25
M 40 x 1.5	GBMBS-05	13	44	8	25
M 50 x 1.5	GBMBS-06	15	54	9	20
M 63 x 1.5	GBMBS-07	16	67	10	20

MULTI-HOLE SEALING INSERTS



These inserts are used in applications where sealing and strain relief protection is required for multiple cables passing through a single cable gland.

Technical Details :

Material	Perbunan (NBR)
Colour	RAL 9005 (Black)
Application	For Pg, Metric and NPT threaded Cable Glands

For Cable Gland Size in Polyamide	Cat. No.	Number of Holes	Diameter of Hole (mm)	Standard Pack (pieces)
Pg 7 / M 12 (3 - 6.5)	BMS-01A	2	1	50
Pg 9 / M 16 (4 - 8)	BMS-02A	2	3	50
Pg 9 / M 16 (4 - 8)	BMS-02C	4	2	50
Pg 9 / M 16 (4 - 8)	BMS-02D	4	3	50
Pg 9 / M 16 (4 - 8)	BMS-02E	2	4	50
Pg 11 / M 16 (5 - 10)	BMS-03A	2	4	50
M 16 / EX M 16 (4.5 - 10)	BMS-03AA	2	4	50
Pg 11 / M 16 (5 - 10)	BMS-03C	3	4	50
Pg 11 / M 16 (5 - 10)	BMS-03D	3	5	50
Pg 11 / M 16 (5 - 10)	BMS-03E	4	3.5	50
Pg 13.5 / M 20 (6 - 12)	BMS-04A	2	6	50
Pg 13.5 / M 20 (6 - 12)	BMS-04C	3	5	50
Pg 13.5 / M 20 (6 - 12)	BMS-04D	2	2.1	50
Pg 16 / M 20L (10 - 14)	BMS-05A	2	4	50
Pg 16 / M 20 (10 - 14)	BMS-05D	3	6	50
Pg 16 / M 20 (10 - 14)	BMS-05E	4	6	50
Pg 16 / M 20 (10 - 14)	BMS-05F	4	3.5	50
Pg 16 / M 20 (10 - 14)	BMS-05G	2	5 / 8	50
Pg 21 / M 25 (13 - 18)	BMS-06A	2	7	50
Pg 21 / M 25 (13 - 18)	BMS-06B	2	8	50
Pg 21 / M 25 (13 - 18)	BMS-06C	2	9	50
Pg 21 / M 25 (13 - 18)	BMS-06D	3	7	50
Pg 21 / M 25 (13 - 18)	BMS-06E	4	7	50
Pg 21 / M 25 (13 - 18)	BMS-06F	3	4	50
Pg 29 / M 32 (18 - 25)	BMS-07A	3	8.5	50
Pg 29 / M 32 (18 - 25)	BMS-07B	5	8.5	50
Pg 29 / M 32 (18 - 25)	BMS-07C	8	5	50
Pg 29 / M 32 (18 - 25)	BMS-07D	2	10.5 / 12	50
Pg 29 / M 32 (18 - 25)	BMS-07E	9	4	50
Pg 29 / M 32 (18 - 25)	BMS-07F	6	7.5	50
Pg 29 / M 32 (18 - 25)	BMS-07G	2	8	50
Pg 29 / M 32 (18 - 25)	BMS-07H	4	8	50
Pg 29 / M 32 (18 - 25)	BMS-07J	2	7.5 / 10	50
Pg 36 / M 40 (22 - 32)	BMS-08A	6	10	50
Pg 36 / M 40 (22 - 32)	BMS-08B	2	11	50
Pg 36 / M 40 (22 - 32)	BMS-08C	8	8	50
Pg 36 / M 40 (22 - 32)	BMS-08D	6	11	50
Pg 36 / M 40 (22 - 32)	BMS-08E	2	13	50
Pg 36 / M 50 BRASS (22 - 32)	BMS-08F	2	7.5	50
Pg 42 / M 50 (30 - 38)	BMS-09A	3	6.7 / 7.3 / 8.6	50
M 25 (EU) (11 - 17)	BMS-56A	2	6	50
M 25 (EU) (11 - 17)	BMS-56B	6	5	50
M 25 (BRASS) (11 - 17)	BMS-56C	6	5	50
M 40 (EU) (19 - 28)	BMS-89A	2	13	50
M 40 (EU) (19 - 28)	BMS-89B	4	9	50
M 40 (EU) (19 - 28)	BMS-89C	8	5.4	50
M 40 (EU) (19 - 28)	BMS-89D	7	7	50

POLYAMIDE DOME PLUG / PROTECTION TAB



Dome Plugs made of Polyamide 6 are used in assembly work for instruments, machines etc., where only Cable Glands are mounted and cable connection is made later. This prevents dust and moisture from penetrating the enclosure or equipment.

Technical Details :

Material	Polyamide 6
Flammability	UL 94 V2
Colour	RAL 9005 (Black)
Temperature Range	-20°C to +100°C Continuous, -30°C to +150°C Intermittent
Application	For Pg, Metric and NPT threaded Cable Glands

Dome Plugs for Pg Thread Polyamide Cable Glands

Size	Clamping Range	Cat. No.	PL (mm)	D (mm)Ø	h (mm)	P (mm)Ø	Standard Pack (pieces)
9	3 - 6.5	BDP-09-22	12	9.2	4	6.4	100
11	4 - 8	BDP-11-22	13.7	10.5	4.7	8	50
13	5 - 10	BDP-13-22	9	13.3	5.3	9.7	50
16	6 - 12	BDP-16-22	13	15.8	8	12	50
18	10 - 14	BDP-18-22	13.5	18	8.7	13.6	50
22	13 - 18	BDP-22-22	14	22	10	17.8	25
29	18 - 25	BDP-29-22	15	28.5	9.7	25	25
37	22 - 32	BDP-37-22	17	36.8	10.7	31.8	10
45	30 - 38	BDP-45-22	20.2	43.3	11.9	38	10
52	34 - 44	BDP-52-22	22.5	51	16	44.2	10

Dome Plugs for Metric / NPT Thread Polyamide Cable Glands

Cable Gland Size	Clamping Range	Cat. No.	PL (mm)	D (mm)Ø	h (mm)	P (mm)Ø	Standard Pack (pieces)
M 12	3 - 6.5	BDP-09-22	12	9.2	4	6.4	100
M16 (EU)	4 - 8	BDP-11-22	13.7	10.5	4.7	8	50
M 16 / NPT 3/8"	5 - 10	BDP-13-22	9	13.3	5.3	9.7	50
M 20 / NPT 1/2"	6 - 12	BDP-16-22	13	15.8	8	12	50
M 20 / NPT 1/2"	10 - 14	BDP-18-22	13.5	18	8.7	13.6	50
M 25 (EU)	11 - 17	BDP-20-22	14.5	19.9	7.3	16.4	50
M 25 / NPT 3/4"	13 - 18	BDP-22-22	14	22	10	17.8	25
M 32 (EU)	15 - 21	BDP-24-22	15.5	24.1	9.2	20.4	25
M 32 / NPT 1"	18 - 25	BDP-29-22	15	28.5	9.7	25	25
M 40 (EU)	19 - 28	BDP-32-22	15.8	31.5	9.2	27.3	10
M 40	22 - 32	BDP-37-22	17	36.8	10.7	31.8	10
M 50	30 - 38	BDP-45-22	20.2	43.3	11.9	38	10
M 63	34 - 44	BDP-52-22	22.5	51	16	44.2	10

REDUCERS - POLYAMIDE & BRASS



Reducers are used for threaded holes on machines or equipment housing which are too large for the necessary gland.

Technical Details :

Material	Perbunan (NBR)
Colour	RAL 9005 (Black)
Application	For Pg, Metric and NPT threaded Cable Glands

Pg Thread Reducers

Size	External Thread	Internal Thread	Cat. No. Brass	Thread Length Brass (mm)	Cat. No. Polyamide	Thread Length Polyamide (mm)	Standard Pack (pieces)
Pg 9 - Pg 7	Pg9	Pg7	SBBR P9/P7	7	-	-	50
Pg 11 - Pg 9	Pg11	Pg9	SBBR P11/P9	8	-	-	50
Pg 13.5 - Pg 9	Pg13.5	Pg9	SBBR P13.5/P9	8	-	9	50
Pg 13.5 - Pg 11	Pg13.5	Pg11	SBBR P13.5/P11	9	BPR P13.5/P11	9	50
Pg 16 - Pg 9	Pg16	Pg9	-	-	BPR P16/P9	10	25
Pg 16 - Pg 11	Pg16	Pg11	SBBR P16/P11	9	BPR P16/P11	10	25
Pg 16 - Pg 13.5	Pg16	Pg13.5	SBBR P16/P13.5	9	-	-	25
Pg 21 - Pg 13.5	Pg21	Pg13.5	SBBR P21/P13.5	9	BPR P21/P13.5	10.5	25
Pg 21 - Pg 16	Pg21	Pg16	SBBR P21/P16	11.3	BPR P21/P16	10.5	25
Pg 29 - Pg 21	Pg29	Pg21	SBBR P29/P21	12	BPR P29/P21	12	10
Pg 36 - Pg 29	Pg36	Pg29	SBBR P36/P29	14	BPR P36/P29	18	10

Metric Thread Reducers

Size	External Thread	Internal Thread	Cat. No. Brass	Thread Length Brass (mm)	Cat. No. Polyamide	Thread Length Polyamide (mm)	Standard Pack (pieces)
M 16 - M 12	M16 x 1.5	M12 x 1.5	GBBR M16/M12	7	-	-	25
M 20 - M 12	M20 x 1.5	M12 x 1.5	GBBR M20/M12	8	BPR M20/M12	9	25
M 20 - M 16	M20 x 1.5	M16 x 1.5	GBBR M20/M16	9	BPR M20/M16	9	25
M 25 - M 16	M25 x 1.5	M16 x 1.5	GBBR M25/M16	9	BPR M25/M16	10	10
M 25 - M 20	M25 x 1.5	M20 x 1.5	GBBR M25/M20	10	BPR M25/M20	10	10
M 32 - M 16	M32 x 1.5	M16 x 1.5	GBBR M32/M16	11	BPR M32/M16	11	10
M 32 - M 20	M32 x 1.5	M20 x 1.5	GBBR M32/M20	11	BPR M32/M20	11	10
M 32 - M 25	M32 x 1.5	M25 x 1.5	GBBR M32/M25	11	BPR M32/M25	11	10
M 40 - M 20	M40 x 1.5	M20 x 1.5	GBBR M40/M20	11	BPR M40/M20	12	10
M 40 - M 25	M40 x 1.5	M25 x 1.5	GBBR M40/M25	11	BPR M40/M25	12	10
M 40 - M 32	M40 x 1.5	M32 x 1.5	GBBR M40/M32	11	BPR M40/M32	12	10
M 50 - M 25	M50 x 1.5	M25 x 1.5	GBBR M50/M25	12	BPR M50/M25	13	10
M 50 - M 32	M50 x 1.5	M32 x 1.5	GBBR M50/M32	12	BPR M50/M32	13	10
M 50 - M 40	M50 x 1.5	M40 x 1.5	GBBR M50/M40	12	BPR M50/M40	13	10
M 63 - M 40	M63 x 1.5	M40 x 1.5	GBBR M63/M40	12	BPR M63/M40	15	5
M 63 - M 50	M63 x 1.5	M50 x 1.5	GBBR M63/M50	12	BPR M63/M50	15	5

BRASS ENLARGERS



These are used for threaded holes on machines or equipment housing which are too small for the necessary glands.

Technical Details :

Material	Brass Nickel Plated Polyamide (On request)
Threads available	Pg and Metric

Pg Thread Enlargers

Size	External Thread	Internal Thread	Cat. No.	Thread Length (mm)	Standard Pack (pieces)
Pg7 - Pg9	Pg7	Pg9	GBBE P7/P9	5	50
Pg9 - Pg11	Pg9	Pg11	GBBE P9/P11	6	50
Pg9 - Pg13.5	Pg9	Pg13.5	GBBE P9/P13.5	6	-
Pg11 - Pg13.5	Pg11	Pg13.5	GBBE P11/P13.5	6	100
Pg11 - Pg16	Pg11	Pg16	GBBE P11/P16	6	50
Pg13.5 - Pg16	Pg13.5	Pg16	GBBE P13.5/P16	6.5	50
Pg13.5 - Pg21	Pg13.5	Pg21	GBBE P13.5/P21	6.5	50
Pg16 - Pg21	Pg16	Pg21	GBBE P16/P21	6.5	25
Pg21 - Pg29	Pg21	Pg29	GBBE P21/P29	7	100
Pg29 - Pg36	Pg29	Pg36	GBBE P29/P36	8	50
Pg29 - Pg48	Pg29	Pg48	GBBE P29/P48	8	-
Pg36 - Pg42	Pg36	Pg42	GBBE P36/P42 *	9	25

Metric Thread Enlargers

Size	External Thread	Internal Thread	Cat. No.	Thread Length (mm)	Standard Pack (pieces)
M12 - M16	M12	M16	GBBE M12/M16	5	100
M16 - M20	M16	M20	GBBE M16/M20 *	5	100
M16 - M25	M16	M25	GBBE M16/M25	6	-
M20 - M25	M20	M25	GBBE M20/M25 *	6	50
M25 - M32	M25	M32	GBBE M25/M32 *	7	25
M25 - M40	M25	M40	GBBE M25/M40	7	-
M32 - M40	M32	M40	GBBE M32/M40 *	8	25
M32 - M50	M32	M50	GBBE M32/M50	8	-
M40 - M50	M40	M50	GBBE M40/M50	8	25

* Hexagonal Design

BRASS CONVERTERS / ADAPTERS



Circular

Hexagonal

These are used for threaded holes on machines or equipment housing where the threads are to be changed from Pg to Metric or from Metric to Pg.

Technical Details :

Material	Brass Nickel Plated
Threads Available	Pg, and Metric

Converters - Pg Thread

Size	Cat. No.	External Thread	Internal Thread	Thread Length (mm)	Standard Pack (pieces)
Pg11 - M20	SBBC P11/M20	Pg11	M20	6.5	50
Pg16 - M20	SBBC P16/M20	Pg16	M20	7	20
Pg16 - M25	SBBC P16/M25	Pg16	M25	7	20
Pg21 - M25	SBBC P21/M25 *	Pg21	M25	8	20
Pg29 - M25	SBBC P29/M25 *	Pg29	M25	9	10
Pg29 - M32	SBBC P29/M32 *	Pg29	M32	9	10
Pg36 - M32	SBBC P36/M32 *	Pg36	M32	7	10
Pg36 - M40	SBBC P36/M40 *	Pg36	M40	7	10

Converters - Metric Thread

Size	Cat. No.	External Thread	Internal Thread	Thread Length (mm)	Standard Pack (pieces)
M20 - Pg9	SBBC M20/P9 *	M20	Pg9	6.5	10
M20 - Pg11	SBBC M20/P11 *	M20	Pg11	7	10
M20 - Pg21	SBBC M20/P21	M20	Pg21	7	10
M25 - P11	SBBC M25/P11 *	M25	Pg11	7	10
M25 - P16	SBBC M25/P16 *	M25	Pg16	7	10
M25 - P21	SBBC M25/P21	M25	Pg21	8	10
M32 - P21	SBBC M32/P21	M32	Pg21	8	10
M50 - Pg42	SBBC M50/P42	M50	Pg42	7	10

* Hexagonal design

VENTILATION PLUGS - POLYAMIDE & METAL



Ventilation Plugs are used for equalizing the pressure inside and outside the enclosure. The same is achieved with the help of a membrane inside the ventilation plug, which allows for gases (air) to pass through it while blocking liquids and particulate solids (dust).

Applications / Benefits :

- 1) These prevent components inside the enclosure from being exposed to pressurized gases when the enclosure heats up. (By virtue of pressure equalization)
- 2) These also prevent generation of vacuum inside the enclosure when a heated enclosure cools off. (e.g. In luminaires)
- 3) These help maintain IP 68 rating of the enclosure while allowing for the above benefits.

Technical Details :

Material	Polyamide 6 Stainless Steel
Colour	RAL 7035 (Light Grey) RAL 9005 (Black)
Membrane Material	Acrylic copolymer on nylon support
Membrane Feature	Hydrophobic - Oleophobic
O Ring	Nitrile Rubber (NBR)
Temperature Range	-20° C to +100° C Continuous -30° C to +150° C Intermittent
Protection Class	IP 68 / IP 67 (Pressure 0.1 bar)
Flammability	V2 according to UL 94
Approvals	UL

Ventilation Plug in Polyamide

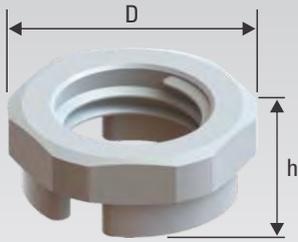
Size	Cat. No. Light Grey	Cat. No. Black	Thread Diameter TD (mm)	Thread Length TL (mm)	Design Type	Avg. Air Flow lt/hour	Water Intrusion Pressure (Bar)
M 12 x 1.5	SBVPB-11L	SBVPB-21L	12	10	A	16	0.9
M 12 x 1.5	HBVPB-11L	HBVPB-21L	12	10	A	120	0.2
M 12 x 1.5	UHBVPB-11L	UHBVPB-21L	12	10	A	300	0.1
M 16 x 1.5	SBVPF-11	SBVPF-21	16	10	A	42	0.9
M 20 x 1.5	UHBVPE-11	UHBVPE-21	20	10	E	750	0.1
M 40 x 1.5	HBVPX-18S	HBVPX-28S	40	18	F	1350	0.2

Ventilation Plug in Stainless Steel

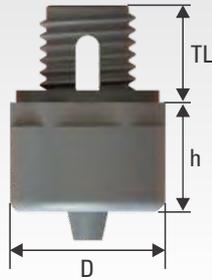
Size	Cat. No.	Cat. No.	Thread Diameter TD (mm)	Thread Length TL (mm)	Design Type	Avg. Air Flow lt/hour	Water Intrusion Pressure (Bar)
M 12 x 1.5	SBBVP-01L	-	12	10	C	16	0.9
M 16 x 1.5	SBBVP-02L	-	16	6	C	16	0.9
M 20 x 1.5	SBBVP-03L	-	20	6	C	16	0.9
M 40 x 1.5	SBBVPX-05	-	40	10	D	120	0.9

POLYAMIDE DRAIN PLUGS

Locknut



Drain Plug



Polyamide Drain Plugs balances pressure difference between inner housing and outside environment. It also prevents the formation of water condensation in tightly sealed housings.

Technical Details :

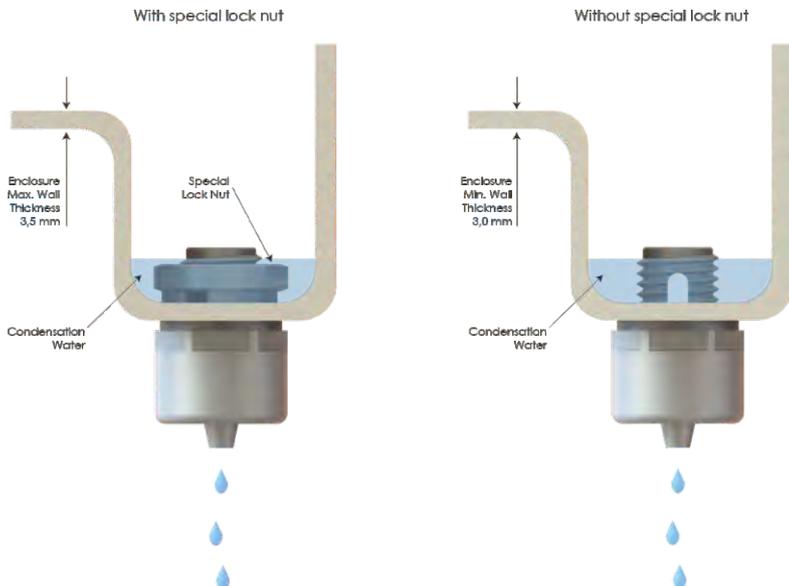
Material	Polyamide 66
Protection Class	IP 56 / IP 66
Flammability	V2 according to UL 94
Temperature Range	-20°C to +100°C Continuous -30°C to +150°C Intermittent

Metric Thread

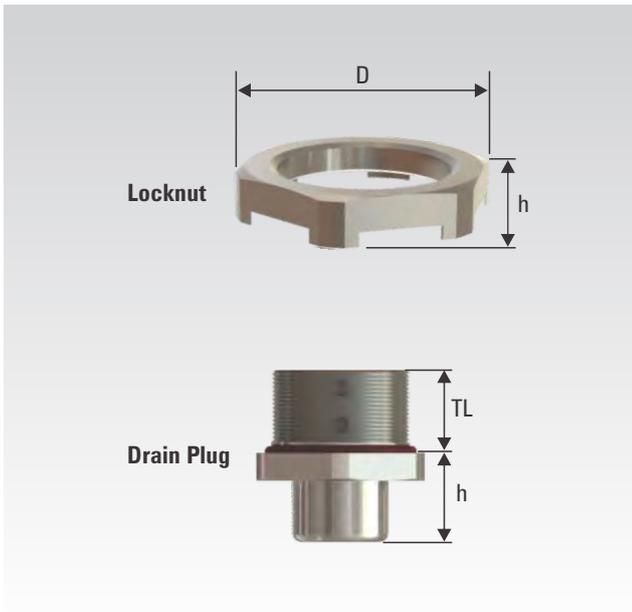
Size	Cat. No. Light Grey	Cat. No. Black	Outer Diameter D (mm)	Thread Length TL (mm)	Height h (mm)
M 12 x 1.5	BPDRP-11	BPDRP-21	19	12	17

Special Lock Nuts for drain plugs

Size	Cat. No. Light Grey	Cat. No. Black	Outer Diameter D (mm)	(mm)	Height h (mm)
M12 X 1.5	BMDL-1S	BMDL-2S	19.2	18	7



METAL DRAIN PLUGS



Metal Drain Plugs balances pressure difference between inner housing and outside environment. It also prevents the formation of water condensation in tightly sealed housings.

Technical Details :

Material Body	Brass Nickel Plated / Stainless Steel
Bushing	Bronze
O Ring	Silicon
Protection Class	IP 68 - 5 Bar, 30 min IP 66 - 5 Bar, 30 min
Temperature Range	-60°C to +85°C

Metric Thread - Drain Plug - Brass

Size	Cat. No.	Outer Diameter D (mm)	Thread Length TL (mm)	⌀ (mm)	Height h (mm)
M 20 x 1.5	IBDRV-1M	27.5	15	25	16
M 25 x 1.5	IBDRV-2M	33.0	15	30	16

NPT Thread - Drain Plug - Brass

Size	Cat. No.	Outer Diameter D (mm)	Thread Length TL (mm)	⌀ (mm)	Height h (mm)
NPT 1/2"	IBDRV-1N	27.5	16	25	16
NPT 3/4"	IBDRV-2N	33.0	16	30	16

Special Lock Nuts for drain plugs - Brass

Size	Cat. No.	Outer Diameter D (mm)	⌀ (mm)	Height h (mm)
M20 X 1.5	BDRL-03	27.5	25	5
M25 X 1.5	BDRL-04	33.0	30	5
NPT 1/2"	BDRLN-03	27.5	25	5
NPT 3/4"	BDRLN-04	33.0	30	5

Threaded Hole

Non-Threaded Hole



COMPREHENSIVE SAFETY WITH ATEX BY CONTROLWELL

The use of ATEX cable glands is one of several technical measures to make ignition sources ineffective. The explosion rating plate of a piece of equipment includes the ignition protection type. Versions for increased safety, inherent safety and pressure-resistant enclosure are of particular significance in this context:

- "Ex d" protection - pressure-resistant enclosure
- "Ex i" protection - inherent safety
- "Ex e" protection - increased safety

Controlwell's ATEX explosion-proof products are made of high-quality materials. These items are made of high-quality plastics, nickel-plated brass, and stainless steel, ensuring optimal safety.

The current international regulations for machine manufacturers (94/9/EC) and operators (99/92/EC) prescribe high safety levels. Therefore, in addition to the traditional field of electrical engineering, legally compliant explosion protection also considers all relevant mechanical components - in order to avoid all ignition sources, including sparks, which can result from electrostatic charges, or hot spots. The ATEX – IECEx Directive besides taking into account the electrical sources of explosion, also considers potentially explosive concentration of gas, vapour or mist along with dust in the air.

Explosion protection - the danger zones: According to their risk potential explosion-prone rooms and equipment interiors are divided into zones. For gases, vapours and fogs the zone designations are 0, 1 and 2, for combustible dust they are 20, 21 and 22. Category 1 equipment is safe even in case of rare equipment malfunctions and may be used in zone 0/20. Category 2 equipment must be designed so that safety is assured even in case of expected malfunctions and may be used in zone 1/21. Equipment in protection category 3 is safe in normal operations and suitable for zone 2/22.