

OUT OF THE BOX SOLUTIONS FOR YOUR CABLE PROTECTION NEEDS

Controlwell offers an exhaustive range of Conduit Glands (Connectors) and Accessories.

These glands are available in wide variety of sizes and orientation to suit straight, 90° and 45° cable entry. Available with Pg, Metric, PF, NPT and UNEF thread systems this is undeniably the largest range of conduit glands available today.

For applications where the mounting surface is not threaded, glands with flanges can be used.

A wide range of special glands which secure the conduit as well as the cable passing through it are also available.

Accessories like couplers, mounting clips and tube end caps complement the range of Conduit Glands ensuring high IP protection class and ease of installation.

These products carry international approvals like VDE, UL & CE mark which testify the fact that we at Controlwell remain dedicated to our principle of helping you protect - connect - simplify.

CONDUIT GLANDS & ACCESSORIES

ADDED PROTECTION AND CONVENIENCE
FOR YOUR CABLES & CONDUITS



STRAIGHT CONNECTORS (METRIC THREAD)



These straight male thread connectors are made of high quality polyamide 6. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). They are self extinguishing and free of halogen, phosphorous and cadmium.

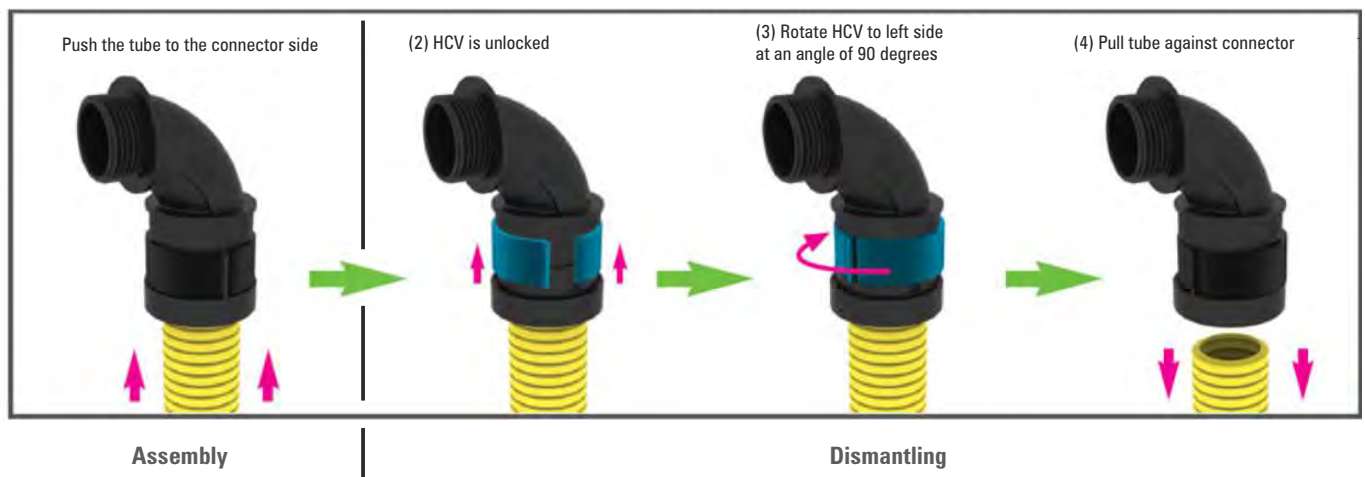
Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Metric
Approvals	  

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	7	PNC-M107G	PNC-M107B	11.8	11	50
M 16 x 1.5	7	PNC-M127G	PNC-M127B	15.8	11	50
M 20 x 1.5	7	PNC-M167G	PNC-M167B	19.8	11	50
M 12 x 1.5	10	PNC-M10G	PNC-M10B	11.8	13	50
M 16 x 1.5	10	PNC-M120G	PNC-M120B	15.8	13	50
M 20 x 1.5	10	PNC-M20G	PNC-M20B	19.8	13	50
M 12 x 1.5	12	PNC-M102G	PNC-M102B	11.8	13	50
M 16 x 1.5	12	PNC-M12G	PNC-M12B	15.8	13	50
M 20 x 1.5	12	PNC-M202G	PNC-M202B	19.8	13	50
M 16 x 1.5	16	PNC-M126G	PNC-M126B	15.8	13	50
M 20 x 1.5	16	PNC-M16G	PNC-M16B	19.8	13	50
M 25 x 1.5	16	PNC-M226G	PNC-M226B	24.7	13	30
M 25 x 1.5	22	PNC-M22G	PNC-M22B	24.7	15	30
M 32 x 1.5	22	PNC-M3222G	PNC-M3222B	31.7	15	30
M 32 x 1.5	28	PNC-M28G	PNC-M28B	31.7	15	30
M 40 x 1.5	28	PNC-M4028G	PNC-M4028B	39.6	15	30
M 40 x 1.5	36	PNC-M36G	PNC-M36B	39.6	19	10
M 50 x 1.5	36	PNC-M5036G	PNC-M5036B	49.6	19	10
M 50 x 1.5	48	PNC-M48G	PNC-M48B	49.6	21	10
M 63 x 1.5	48	PNC-M6348G	PNC-M6348B	62.6	21	10

Connector for easy assembly & dismantling. (No special tool required)



STRAIGHT CONNECTORS (PG & PF THREAD)



These straight male thread connectors are made of high quality polyamide 6. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg & PF
Approvals	 

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 7	7	PNC-P077G	PNC-P077B	12.2	11	100
Pg 9	7	PNC-P097G	PNC-P097B	14.9	11	50
Pg 11	7	PNC-P117G	PNC-P117B	18.4	11	50
Pg 13.5	7	PNC-P137G	PNC-P137B	20.2	11	50
Pg 7	10	PNC-P070G	PNC-P070B	12.2	13	100
Pg 9	10	PNC-P09G	PNC-P09B	14.9	13	50
Pg 11	10	PNC-P110G	PNC-P110B	18.4	13	50
Pg 13.5	10	PNC-P130G	PNC-P130B	20.2	13	50
Pg 16	10	PNC-P160G	PNC-P160B	22.3	13	50
Pg 9	12	PNC-P0912G	PNC-P0912B	14.9	13	50
Pg 11	12	PNC-P11G	PNC-P11B	18.4	13	50
Pg 13.5	12	PNC-P132G	PNC-P132B	20.2	13	50
Pg 16	12	PNC-P162G	PNC-P162B	22.3	13	50
Pg 13.5	16	PNC-P136G	PNC-P136B	20.2	13	50
Pg 16	16	PNC-P16G	PNC-P16B	22.3	13	50
Pg 21	16	PNC-P216G	PNC-P216B	28	13	50
Pg 16	22	PNC-P163G	PNC-P163B	22.3	15	50
Pg 21	22	PNC-P21G	PNC-P21B	28	15	30
Pg 29	28	PNC-P29G	PNC-P29B	36.8	15	30
Pg 36	36	PNC-P36G	PNC-P36B	46.7	19	10
Pg 48	48	PNC-P48G	PNC-P48B	59	21	10

PF Thread - JIS B0202

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
G 1/4"	7	PNC-G07G	PNC-G07B	12.9	11	50
G 1/2"	10	PNC-G10G	PNC-G10B	20.5	13	50
G 1/2"	12	PNC-G12G	PNC-G12B	20.5	13	50
G 1/2"	16	PNC-G16G	PNC-G16B	20.5	13	50
G 3/4"	22	PNC-G22G	PNC-G22B	26.4	15	50
G 1"	28	PNC-G28G	PNC-G28B	32.6	15	50
G 1 1/4"	36	PNC-G36G	PNC-G36B	41.7	19	30
G 1 1/2"	48	PNC-G42G	PNC-G42B	47.4	21	30
G 2"	48	PNC-G48G	PNC-G48B	59.0	20.7	30

90° ELBOW CONNECTORS



These 90° elbow male thread connectors are made of high quality polyamide 6. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). This 90° configuration enables perpendicular conduit entry into control panels and equipments. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg, Metric & PF
Approvals	  

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Connector Cat. No. Grey	Connector Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 7	7	PWC-P077G	PWC-P077B	12.2	11	100
Pg 9	7	PWC-P097G	PWC-P097B	14.9	11	50
Pg 9	10	PWC-P09G	PWC-P09B	14.9	13	50
Pg 11	10	PWC-P110G	PWC-P110B	18.4	13	30
Pg 13.5	10	PWC-P130G	PWC-P130B	20.2	13	30
Pg 11	12	PWC-P11G	PWC-P11B	18.4	13	30
Pg 13.5	12	PWC-P132G	PWC-P132B	20.2	13	30
Pg 16	12	PWC-P162G	PWC-P162B	22.3	13	30
Pg 13.5	16	PWC-P136G	PWC-P136B	20.2	13	30
Pg 16	16	PWC-P16G	PWC-P16B	22.3	13	30
Pg 16	22	PWC-P163G	PWC-P163B	22.3	15	30
Pg 21	22	PWC-P21G	PWC-P21B	28.0	15	20
Pg 29	28	PWC-P29G	PWC-P29B	36.8	15	10
Pg 36	36	PWC-P36G	PWC-P36B	46.7	19	10
Pg 48	48	PWC-P48G	PWC-P48B	59.0	19	5

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Connector Cat. No. Grey	Connector Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	7	PWC-M107G	PWC-M107B	11.8	11	50
M 12 x 1.5	10	PWC-M10G	PWC-M10B	11.8	13	50
M 16 x 1.5	12	PWC-M12G	PWC-M12B	15.8	13	30
M 20 x 1.5	12	PWC-M202G	PWC-M202B	19.8	13	30
M 20 x 1.5	16	PWC-M16G	PWC-M16B	19.8	13	30
M 25 x 1.5	22	PWC-M22G	PWC-M22B	24.7	15	20
M 32 x 1.5	28	PWC-M28G	PWC-M28B	31.7	15	10
M 40 x 1.5	36	PWC-M36G	PWC-M36B	39.6	19	10
M 50 x 1.5	48	PWC-M48G	PWC-M48B	49.6	19	5

PF Thread JIS B0202

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
G 1/2"	10	PWC-G10G	PWC-G10B	20.5	13	50
G 1/2"	12	PWC-G12G	PWC-G12B	20.5	13	30
G 1/2"	16	PWC-G16G	PWC-G16B	20.5	13	30
G 3/4"	22	PWC-G22G	PWC-G22B	26.4	15	20
G 1"	28	PWC-G28G	PWC-G28B	32.6	15	10
G 1 1/4"	28	PWC-G368G	PWC-G368B	41.3	15	10
G 1 1/4"	36	PWC-G36G	PWC-G36B	41.5	19	10
G 1 1/2"	48	PWC-G42G	PWC-G42B	47.4	19	5
G 2"	48	PWC-G48G	PWC-G48B	59.0	19	5

45° ANGULAR CONNECTORS



These 45° angular male thread connectors are made of high quality polyamide 6. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). This 45° configuration enables angular conduit entry into control panels and equipments. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg, Metric & PF
Approvals	CE

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 9	10	PAC-P09G	PAC-P09B	14.9	13	50
Pg 11	10	PAC-P110G	PAC-P110B	18.4	13	30
Pg 13.5	10	PAC-P130G	PAC-P130B	20.2	13	30
Pg 11	12	PAC-P11G	PAC-P11B	18.4	13	30
Pg 13.5	16	PAC-P136G	PAC-P136B	20.2	13	30
Pg 16	16	PAC-P16G	PAC-P16B	22.3	13	30
Pg 21	22	PAC-P21G	PAC-P21B	28.0	15	20
Pg 29	28	PAC-P29G	PAC-P29B	36.8	15	10
Pg 36	36	PAC-P36G	PAC-P36B	46.7	19	10
Pg 48	48	PAC-P48G	PAC-P48B	59.0	19	5

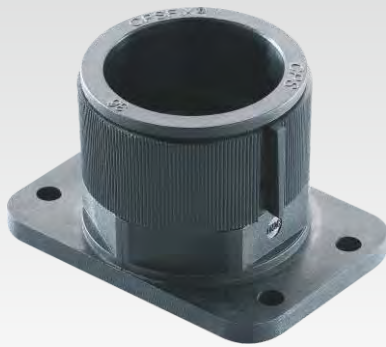
Metric Thread - EN 60423

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	10	PAC-M10G	PAC-M10B	11.8	13	50
M 16 x 1.5	12	PAC-M12G	PAC-M12B	15.8	13	30
M 20 x 1.5	12	PAC-M202G	PAC-M202B	19.8	13	30
M 20 x 1.5	16	PAC-M16G	PAC-M16B	19.8	13	30
M 25 x 1.5	22	PAC-M22G	PAC-M22B	24.7	15	20
M 32 x 1.5	28	PAC-M28G	PAC-M28B	31.7	15	10
M 40 x 1.5	36	PAC-M36G	PAC-M36B	39.6	19	10
M 50 x 1.5	48	PAC-M48G	PAC-M48B	49.6	19	5

PF Thread - JIS B0202

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
G 1/2"	10	PAC-G10G	PAC-G10B	20.5	13	50
G 1/2"	12	PAC-G12G	PAC-G12B	20.5	13	30
G 1/2"	16	PAC-G16G	PAC-G16B	20.5	13	30
G 3/4"	22	PAC-G22G	PAC-G22B	26.2	15	20
G 1"	28	PAC-G28G	PAC-G28B	33	15	10
G 1 1/4"	36	PAC-G36G	PAC-G36B	41.6	19	10
G 1 1/2"	48	PAC-G42G	PAC-G42B	41.5	19	5
G 2"	48	PAC-G48G	PAC-G48B	59.0	19	5

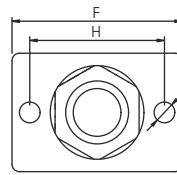
STRAIGHT CONNECTORS WITH FLANGE



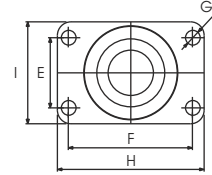
These straight connectors with flange are mounted on control panel, terminal boxes, electric motors with mounting holes and screws directly, instead of threads. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 68 (60529)



For PNOG-12/16



For PNOG-22/28/36/48

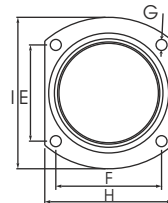
Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Standard Pack (pieces)
12	PNOG-12G	PNOG-12B	-	36.5	5.5	46	32	50
16	PNOG-16G	PNOG-16B	-	36.5	5.5	46	32	50
22	PNOG-22G	PNOG-22B	30.5	53.5	5.5	65	45	30
28	PNOG-28G	PNOG-28B	31	54.8	6.5	64.8	45	20
36	PNOG-36G	PNOG-36B	31	73.2	6.5	86.6	60	10
48	PNOG-48G	PNOG-48B	30.5	73.2	6.5	86.6	73	10

STRAIGHT CONNECTORS WITH FLANGE



Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 55 (EN 60529)



For TNOC-56/70/95

Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Standard Pack (pieces)
56	TNOC-56NG	TNOC-56B	67	61	7	96	81	5
70	TNOC-70NG	TNOC-70B	84	78	7	113	98	5
95	TNOC-95NG	TNOC-95B	108	94	8	146	125	5

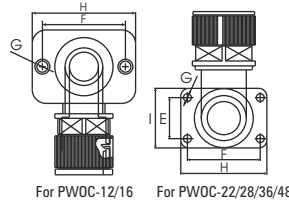
90° ELBOW FLANGE CONNECTORS



These elbow flange connectors are specially used for fixing ends of flexible corrugated conduit to 90° cable entries in the interiors of machines, control panels etc. with mounting holes and screws directly, instead of threads. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (60529)



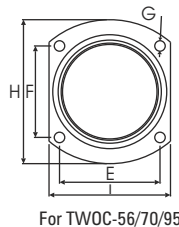
Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Standard Pack (pieces)
12	PWOC-12G	PWOC-12B	-	36.5	5.5	45	32	30
16	PWOC-16G	PWOC-16B	-	36.5	5.5	44	32	30
22	PWOC-22G	PWOC-22B	30.5	53.5	5.5	65	45	20
28	PWOC-28G	PWOC-28B	31.0	55	6	65	45	10
36	PWOC-36G	PWOC-36B	30.5	72.6	7	86	64	10
48	PWOC-48G	PWOC-48B	30.5	73.0	7	86	78	10

90° ELBOW FLANGE CONNECTORS



Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 55 (EN 60529)



Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Standard Pack (pieces)
56	TWOC-56NG	TWOC-56B	61	67	7	81	96	5
70	TWOC-70NG	TWOC-70B	78	84	7	98	113	5
95	TWOC-95NG	TWOC-95B	94	108	8	125	146	5

STRAIGHT CONNECTORS WITH FEMALE THREADS



These straight female thread connectors are made of high quality polyamide 6. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	Polyamide 6
Colour	Black & Grey
Temperature Range	-40° C to + 105° C Continuous, + 150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg, Metric, PF & UNEF

PG Thread - DIN 40430

PG Thread Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Inner Thread Length (mm)	Standard Pack (pieces)
Pg 11	12	PIC-P11G	PIC-P11B	10	50
Pg 13.5	12	PIC-P132G	PIC-P132B	10	50
Pg 16	16	PIC-P16G	PIC-P16B	10	50
Pg 21	22	PIC-P21G	PIC-P21B	9.5	50

Metric Thread - EN 60423

Metric Thread Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Inner Thread Length (mm)	Standard Pack (pieces)
M16 x 1.5	12	PIC-M12G	PIC-M12B	10	50
M25 x 1.5	16	PIC-M226G	PIC-M226B	10.2	50

PF Thread - JIS B0202

PF Thread Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Inner Thread Length (mm)	Standard Pack (pieces)
G 1/2"	16	PIPC-G16G	PIPC-G16B	10	50
G 3/4"	22	PIPC-G22G	PIPC-G22B	10	30
G 1"	28	PIPC-G28G	PIPC-G28B	10	25
G 1 1/4"	36	PIPC-G36G	PIPC-G36B	19.5	10
G 1 1/2"	48	PIPC-G42G	PIPC-G42B	27.6	10
G 2"	48	PIPC-G48G	PIPC-G48B	27.6	10

UNEF Thread - ASME B1.1

UNEF Thread Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Inner Thread Length (mm)	Standard Pack (pieces)
1/2-28	10	PIC-U1010G	PIC-U1010B	12.1	50
5/8-24	10	PIC-U1210G	PIC-U1210B	12.1	50
3/4-20	10	PIC-U1410G	PIC-U1410B	12.1	50
5/8-24	12	PIC-U1212G	PIC-U1212B	10	50
3/4-20	12	PIC-U1412G	PIC-U1412B	10	50
1-20	12	PIC-U1812G	PIC-U1812B	10	50
1 3/16-18	12	PIC-U2012G	PIC-U2012B	10	50
7/8-20	16	PIC-U1616G	PIC-U1616B	10	50
1-20	16	PIC-U1816G	PIC-U1816B	10	30
1 3/16-18	16	PIC-U2016G	PIC-U2016B	10	50
1 3/8-8	16	PIC-U2316G	PIC-U2316B	10	30
1 7/16-18	16	PIC-U2816G	PIC-U2816B	10	30
1 3/16-18	22	PIC-U2222G	PIC-U2222B	9.5	30
1 7/16-18	22	PIC-U2822G	PIC-U2822B	9.5	30
2-18	22	PIC-U3622G	PIC-U3622B	9.5	30
1 7/16-18	28	PIC-U2828G	PIC-U2828B	9.2	30
1 3/4-18	28	PIC-U3228G	PIC-U3228B	9.4	30
2-18	28	PIC-U3628G	PIC-U3628B	10	30
2-18	36	PIC-U3636G	PIC-U3636B	11.3	30

CONNECTORS TO SECURE CABLES AND CONDUITS (MALE THREADS)



These male thread straight connectors with strain relief are used to secure conduits with the cable entries on control panels and equipments in accordance with standard EN 60204. They also secure cables with internal IP68 protection.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Male Thread - Pg, Metric

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Length (mm)	Clamping Range (mm)	Standard Pack (pieces)
Pg 7	10	PNCC-P07G	PNCC-P07B	15	3.5 - 6.5	30
Pg 9	10	PNCC-P09G	PNCC-P09B	15	3.5 - 6.5	30
Pg 11	12	PNCC-P11G	PNCC-P11B	15	4 - 8	30
Pg 13.5	12	PNCC-P132G	PNCC-P132B	15	4 - 8	30
Pg 13.5	16	PNCC-P13G	PNCC-P13B	15	7 - 12.3	30
Pg 16	16	PNCC-P16G	PNCC-P16B	15	7 - 12.3	30
Pg 21	22	PNCC-P21G	PNCC-P21B	15	12 - 18	30
Pg 29	28	PNCC-P29G	PNCC-P29B	15	18 - 26	15
Pg 36	36	PNCC-P36G	PNCC-P36B	19	22 - 33	5
Pg 48	48	PNCC-P48G	PNCC-P48B	19	36 - 42	5

* Metric & G Male Thread Connectors available on request.

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Length (mm)	Clamping Range (mm)	Standard Pack (pieces)
M 12 x 1.5	10	PNCC-M10G	PNCC-M10B	15	3.5 - 6.5	30
M 16 x 1.5	10	PNCC-M120G	PNCC-M120B	15	3.5 - 6.5	30
M 12 x 1.5	12	PNCC-M102G	PNCC-M102B	15	4 - 7.1	30
M 16 x 1.5	12	PNCC-M12G	PNCC-M12B	15	4 - 8	30
M 20 x 1.5	12	PNCC-M162G	PNCC-M162B	15	4 - 8	30
M 16 x 1.5	16	PNCC-M126G	PNCC-M126B	15	7 - 10.9	30
M 20 x 1.5	16	PNCC-M16G	PNCC-M16B	15	7 - 12.3	30
M 25 x 1.5	22	PNCC-M22G	PNCC-M22B	15	12 - 18	30
M 32 x 1.5	28	PNCC-M28G	PNCC-M28B	15	18 - 26	15
M 40 x 1.5	36	PNCC-M36G	PNCC-M36B	19	22 - 33	5
M 50 x 1.5	48	PNCC-M48G	PNCC-M48B	19	36 - 42	5

CONNECTORS TO SECURE CABLES AND CONDUITS (FEMALE THREADS)



These female thread straight connectors with strain relief are used to secure conduits with the cable entries on control panels and equipments in accordance with standard EN 60204. They also secure cables with internal IP68 protection.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Female Thread - UNEF

UNEF Female Thread - ASME B1.1

UNEF Thread Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Inner Thread Length (mm)	Cable Clamping Range (mm)	Standard Pack (pieces)
1/2-28	10	PICC-U1010G	PICC-U1010B	10	3.5-6.5	50
5/8-24	10	PICC-U1210G	PICC-U1210B	10	3.5-6.5	30
3/4-20	10	PICC-U1410G	PICC-U1410B	10	3.5-6.5	30
5/8-24	12	PICC-U1212G	PICC-U1212B	10	4-8	30
3/4-20	12	PICC-U1412G	PICC-U1412B	10	4-8	30
1-20	12	PICC-U1812G	PICC-U1812B	10	4-8	30
7/8-20	16	PICC-U1616G	PICC-U1616B	10	7-12.3	30
1-20	16	PICC-U1816G	PICC-U1816B	10	7-12.3	30
1 3/16-18	16	PICC-U2016G	PICC-U2016B	10	7-12.3	30
1 7/16-18	16	PICC-U2816G	PICC-U2816B	10	7-12.3	30
1 3/16-18	22	PICC-U2222G	PICC-U2222B	10	12-18	30
1 7/16-18	22	PICC-U2822G	PICC-U2822B	10	12-18	30
1 7/16-18	28	PICC-U2828G	PICC-U2828B	10	18-26	20
1 3/4-18	28	PICC-U3228G	PICC-U3228B	10	18-26	10
2-18	28	PICC-U3628G	PICC-U3628B	10	18-26	10
2-18	36	PICC-U3636G	PICC-U3636B	14	22-33	10

STRAIGHT CONNECTORS WITH METALLIC THREADS



These straight connectors are made of high grade polyamide 6 with nickel plated brass male threads. These metallic threads ensure that the threading on the glands does not wear out during installation and also offer a superior mating strength with the female threads in the mounting surface in accordance with standard EN 60204. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	High Quality Polyamide 6 with Brass Nickel Plated Threads
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Application	Rolling Stock, Railways, Tramway, Subway
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 67 (EN 60529)
Threads available	Pg & Metric

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 9	10	SPNC-P09G	SPNC-P09B	15.2	14	50
Pg 11	12	SPNC-P11G	SPNC-P11B	18.6	14	50
Pg 13.5	12	SPNC-P132G	SPNC-P132B	20.4	14	50
Pg 13.5	16	SPNC-P136G	SPNC-P136B	20.4	14	30
Pg 16	16	SPNC-P16G	SPNC-P16B	22.5	16	30
Pg 21	22	SPNC-P21G	SPNC-P21B	28.3	16	30
Pg 29	28	SPNC-P29G	SPNC-P29B	37.0	16	10
Pg 36	36	SPNC-P36G	SPNC-P36B	47.0	20	10
Pg 48	48	SPNC-P48G	SPNC-P48B	59.3	22	10

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	10	SPNC-M10G	SPNC-M10B	12.0	14	50
M 16 x 1.5	12	SPNC-M12G	SPNC-M12B	16.0	14	50
M 20 x 1.5	16	SPNC-M16G	SPNC-M16B	20.0	14	50
M 25 x 1.5	22	SPNC-M22G	SPNC-M22B	25.0	16	30
M 32 x 1.5	28	SPNC-M28G	SPNC-M28B	32.0	16	30
M 40 x 1.5	36	SPNC-M36G	SPNC-M36B	40.0	20	10
M 50 x 1.5	48	SPNC-M48G	SPNC-M48B	50.0	22	10

90° ELBOW CONNECTORS WITH METALLIC THREADS



These 90° elbow connectors are made of high quality polyamide 6 with nickel plated brass male threads. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). This 90° configuration enables perpendicular conduit entry into control panels and equipments. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	High Quality Polyamide 6 with Brass Nickel Plated Threads
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Application	Rolling Stock, Railways, Tramway, Subway
Temperature Range	-40°C to +105°C Continuous, +150°C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg & Metric

Pg Thread - DIN 40430

Size	Suitable for Conduit Size	Connector Cat. No. Grey	Connector Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 7	7	SPWC-P077G	SPWC-P077B	12.5	12	30
Pg 9	10	SPWC-P09G	SPWC-P09B	15.2	14	30
Pg 11	12	SPWC-P11G	SPWC-P11B	18.6	14	30
Pg 13.5	16	SPWC-P136G	SPWC-P136B	20.4	14	30
Pg 16	16	SPWC-P16G	SPWC-P16B	22.5	14	30
Pg 21	22	SPWC-P21G	SPWC-P21B	28.3	16	20
Pg 29	28	SPWC-P29G	SPWC-P29B	37.0	16	10
Pg 36	36	SPWC-P36G	SPWC-P36B	47.0	20	10
Pg 48	48	SPWC-P48G	SPWC-P48B	59.3	20	5

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Connector Cat. No. Grey	Connector Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	7	SPWC-M107G	SPWC-M107B	12.0	12	50
M 12 x 1.5	10	SPWC-M10G	SPWC-M10B	12.0	14	50
M 16 x 1.5	12	SPWC-M12G	SPWC-M12B	16.0	14	30
M 20 x 1.5	16	SPWC-M16G	SPWC-M16B	20.0	14	30
M 25 x 1.5	22	SPWC-M22G	SPWC-M22B	25.0	16	20
M 32 x 1.5	28	SPWC-M28G	SPWC-M28B	32.0	16	10
M 40 x 1.5	36	SPWC-M36G	SPWC-M36B	40.0	20	10
M 50 x 1.5	48	SPWC-M48G	SPWC-M48B	50.0	20	5

45° ELBOW CONNECTORS WITH METALLIC THREADS



These 45° angular connectors are made of high quality polyamide 6 with nickel plated brass male threads. They are used for fixing the ends of flexible corrugated conduits to the cable entries on control panels, terminal boxes on electric motors, automatic machinery, rail road cars, etc. with the help of threads in accordance with standard EN 60204 (safety of machinery). This 45° configuration enables angular conduit entry into control panels and equipments. They are self extinguishing and free of halogen, phosphorous and cadmium.

Technical Details :

Material	High Quality Polyamide 6 with Brass Nickel Plated Threads
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Application	Rolling Stock, Railways, Tramway, Subway
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term
Protection Class	IP 68 (EN 60529)
Threads available	Pg & Metric

Pg Thread - DIN 40430

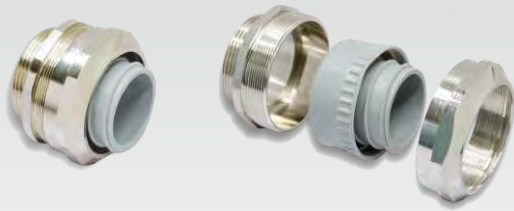
Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 9	10	SPAC-P09G	SPAC-P09B	15.2	14	50
Pg 11	12	SPAC-P11G	SPAC-P11B	18.6	14	30
Pg 13.5	16	SPAC-P136G	SPAC-P136B	20.4	14	30
Pg 16	16	SPAC-P16G	SPAC-P16B	22.5	14	30
Pg 21	22	SPAC-P21G	SPAC-P21B	28.3	16	30
Pg 29	28	SPAC-P29G	SPAC-P29B	37.0	16	10
Pg 36	36	SPAC-P36G	SPAC-P36B	47.0	20	10
Pg 48	48	SPAC-P48G	SPAC-P48B	59.3	20	5

Metric Thread - EN 60423

Size	Suitable for Conduit Size	Cat. No. Grey	Cat. No. Black	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	10	SPAC-M10G	SPAC-M10B	12.0	14	50
M 16 x 1.5	12	SPAC-M12G	SPAC-M12B	16.0	14	30
M 20 x 1.5	16	SPAC-M16G	SPAC-M16B	20.0	14	30
M 25 x 1.5	22	SPAC-M22G	SPAC-M22B	25.0	16	20
M 32 x 1.5	28	SPAC-M28G	SPAC-M28B	32.0	16	10
M 40 x 1.5	36	SPAC-M36G	SPAC-M36B	40.0	20	10
M 50 x 1.5	48	SPAC-M48G	SPAC-M48B	50.0	20	5

METAL CONDUIT GLANDS FOR MSB CONDUITS

3 part design



2 part design



These Conduit Glands are very easy and quick to install. In combination with galvanized steel conduits. They offer IP54 class protection. Manufactured from nickel plated brass they offer excellent resistance to environmental factors.

Technical Details :

Material	Nickel Plated Brass
Protection Class	IP 54
Threads Available	Pg & Metric

Pg Thread for Galvanised Steel Corrugated Flexible Conduit - Bare Metal

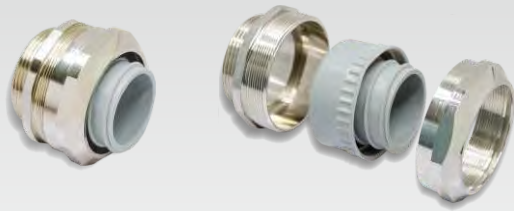
Size	Cat. No.	Cat. No.	TD (mm)	TL (mm)	Suitable for Conduit ID x OD	Type of Design
Pg7	MSBG-P07	-	12.5	5	8 x 10	2 Part
Pg9	MSBG-P09	-	15.2	5	11 x 14	2 Part
Pg11	MSBG-P11	-	18.6	6	14 x 17	2 Part
Pg11	-	SMSBG-P11	18.6	6	14 x 17	3 Part
Pg13.5	-	SMSBG-P13	20.4	6	16 x 19	3 Part
Pg16	MSBG-P16	-	22.5	6	18 x 21	2 Part
Pg21	-	SMSBG-P21	28.3	7	23 x 27	3 Part
Pg29	-	SMSBG-P29	37	8	32 x 36	2 Part
Pg36	MSBG-P36	-	47	8	40 x 45	2 Part

Metric Thread for Galvanised Steel Corrugated Flexible Conduit - Bare Metal

Size	Cat. No.	Cat. No.	TD (mm)	TL (mm)	Suitable for Conduit ID x OD	Type of Design
M20 x 1.5	MSBG-M13	-	20	6	16 x 19	2 Part
M20 x 1.5	-	SMSBG-M13	20	6	16 x 19	2 Part
M20 x 1.5	MSBG-M16	-	20	6	18 x 21	2 Part
M25 x 1.5	MSBG-M21	-	25	7	23 x 27	2 Part
M32 x 1.5	MSBG-M29	-	32	8	32 x 36	2 Part
M40 x 1.5	MSBG-M36	-	40	8	40 x 45	2 Part
M50 x 1.5	-	SMSBG-M42	50	9	45 x 52	3 Part
M63 x 1.5	MSBG-M48	-	63	10	50 x 56	2 Part

METAL CONDUIT GLANDS FOR MSP CONDUITS

3 part design



2 part design



These Conduit Glands are very easy and quick to install. In combination with PVC coated galvanized steel conduits. They offer IP54 class protection. Manufactured from nickel plated brass they offer excellent resistance to environmental factors. Liquid tight conduit glands in Metric threads are also available.

Technical Details :

Material	Nickel Plated Brass
Protection Class	IP 54
Threads Available	Pg & Metric

Pg Thread for Galvanised Steel Corrugated Flexible Conduit - PVC Sheathed

Size	Cat. No.	Cat. No.	TD (mm)	TL (mm)	Suitable for Conduit ID x OD	Type of Design
Pg9	-	SMSPG-P09	16	6	10 x 14	3 Part
Pg11	MSPG-P11	-	18.6	6	13 x 17	2 Part
Pg16	MSPG-P16	-	22.5	6	17 x 21	2 Part
Pg21	-	SMSPG-P21	28.3	7	21 x 27	3 Part
Pg29	MSPG-P29	-	37	8	28 x 36	2 Part
Pg29	-	SMSPG-P29	37	8	28 x 36	3 Part
Pg36	MSPG-P36	-	47	8	37 x 45	2 Part

Metric Thread for Galvanised Steel Corrugated Flexible Conduit - PVC Sheathed

Size	Cat. No.	Cat. No.	TD (mm)	TL (mm)	Suitable for Conduit ID x OD	Type of Design
M16 x 1.5	MSPG-M09	-	16	6	10 x 14	2 Part
M16 x 1.5	MSPG-M11/16	-	16	6	13 x 17	2 Part
M25 x 1.5	MSPG-M21	-	25	7	21 x 27	2 Part
M25 x 1.5	-	SMSPG-M21	25	7	21 x 27	3 Part
M32 x 1.5	MSPG-M29	-	32	8	28 x 36	2 Part
M32 x 1.5	-	SMSPG-M29	32	8	28 x 36	3 Part
M40 x 1.5	MSPG-M36	-	40	8	37 x 45	2 Part
M40 x 1.5	-	SMSPG-P36	40	8	37 x 45	3 Part
M63 x 1.5	MSPG-M48	-	63	10	48 x 56	2 Part

STRAIGHT CONDUIT GLANDS FOR LIQUID TIGHT CONDUITS



These Straight Conduit Glands made of 4 piece fitting are designed to suit all types of liquid tight conduits. The use of nickel-plated brass guarantees high corrosion resistance. In order to maintain a common usage standard for the fittings, small adjustments on the connection sets are necessary. They are also available in stainless steel.

Technical Details :

Material	Body, Cap - Nickel Plated Brass Ferrule - Zinc Plated Steel For SS add suffix 'X' Clamping Ring - Polyamide 6V2 O Ring - NBR
Temperature Range	-45° C to +105° C
Protection Class	IP 66
Threads available	Pg - Blue Bushing Metric - Red Bushing NPT - White Bushing

Liquid Tight Straight Conduit Glands - Pg Thread - DIN 40430

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 7	BBFB-01	1/4"	5.2	12.5	10	50
Pg 9	BBFB-02(C)	3/8"	10.2	15.2	11.5	50
Pg 11	BBFB-03	3/8"	10.2	18.6	11.5	50
Pg 13.5	BBFB-04	3/8"	10.2	20.4	11.5	50
Pg 16	BBFB-05	1/2"	13.5	22.5	13	50
Pg 21	BBFB-06	3/4"	18.5	28.3	15	25
Pg 29	BBFB-07	1"	23.5	37	15	10
Pg 36	BBFB-08	1 1/4"	31.8	47	16	5
Pg 42	BBFB-09	1 1/2"	36.8	54	18	5
Pg 48	BBFB-10	2"	47.8	59.3	20	4

Liquid Tight Straight Conduit Glands - Metric Thread - EN 60423

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 12 x 1.5	BBFM-01	1/4"	5.2	12	10	50
M 16 x 1.5	BBFM-02	3/8"	10.2	16	11.5	50
M 20 x 1.5	BBFM-03(S)	3/8"	10.2	20	13	50
M 20 x 1.5	BBFM-03	1/2"	13.5	20	13	50
M 25 x 1.5	BBFM-04	3/4"	18.5	25	15	25
M 32 x 1.5	BBFM-05	1"	23.5	32	15	10
M 40 x 1.5	BBFM-06	1 1/4"	31.8	40	16	5
M 50 x 1.5	BBFM-07	1 1/2"	36.8	50	18	5
M 63 x 1.5	BBFM-08	2"	47.8	63	20	4

Liquid Tight Straight Conduit Glands - NPT Thread - ANSI B1.20.1 (O-Ring not available)

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
NPT 1/2"	BBFN-02(S)	3/8"	10.2	21.34	13	50
NPT 1/2"	BBFN-02	1/2"	13.5	21.34	13	50
NPT 3/4"	BBFN-03	3/4"	18.5	26.67	15	25
NPT 1"	BBFN-04	1"	23.5	33.4	15	10
NPT 1 1/4"	BBFN-05	1 1/4"	31.8	42.16	16	5
NPT 1 1/2"	BBFN-06	1 1/2"	36.8	48.26	18	5
NPT 2"	BBFN-07	2"	47.8	60.33	20	4

45° CONDUIT GLANDS FOR LIQUID TIGHT CONDUITS



These 45° Conduit Glands made of 4 piece fitting are designed to suit all types of liquid tight conduits. The use of nickel-plated brass guarantees high corrosion resistance. In order to maintain a common usage standard for the fittings, small adjustments on the connection sets are necessary. They are also available in stainless steel.

Technical Details :

Material	Body, Cap - Nickel Plated Brass Ferrule - Zinc Plated Steel For SS add suffix 'X' Clamping Ring - Polyamide 6V2 O Ring - NBR
Temperature Range	-45° C to +105° C
Protection Class	IP 66
Threads available	Pg - Blue Bushing Metric - Red Bushing NPT - White Bushing

Liquid Tight 45° Conduits - Pg Thread - DIN 40430

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 11	BBFB-03 45	3/8"	10.2	18.6	11.5	50
Pg 13.5	BBFB-04 45	3/8"	10.2	20.4	11.5	50
Pg 16	BBFB-05 45	1/2"	13.5	22.5	13	50
Pg 21	BBFB-06 45	3/4"	18.5	28.3	15	25
Pg 29	BBFB-07 45	1"	23.5	37	15	10
Pg 36	BBFB-08 45	1 1/4"	31.8	47	16	5
Pg 42	BBFB-09 45	1 1/2"	36.8	54	18	5
Pg 48	BBFB-10 45	2"	47.8	59.3	20	4

Liquid Tight 45° Conduit Glands - Metric Thread - EN 60423

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 16 x 1.5	BBFM-02 45	3/8"	10.2	16	11.5	50
M 20 x 1.5	BBFM-03(S) 45	3/8"	10.2	20	13	50
M 20 x 1.5	BBFM-03 45	1/2"	13.5	20	13	50
M 25 x 1.5	BBFM-04 45	3/4"	18.5	25	15	25
M 32 x 1.5	BBFM-05 45	1"	23.8	32	15	10
M 40 x 1.5	BBFM-06 45	1 1/4"	31.8	40	16	5
M 50 x 1.5	BBFM-07 45	1 1/2"	36.8	50	18	5
M 63 x 1.5	BBFM-08 45	2"	47.8	63	20	4

Liquid Tight 45° Conduit Glands - NPT Thread - ANSI B1.20.1 (O-Ring not available)

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
NPT 1/2"	BBFN-02(S) 45	3/8"	10.2	21.34	13	50
NPT 1/2"	BBFN-02 45	1/2"	13.5	21.34	13	50
NPT 3/4"	BBFN-03 45	3/4"	18.5	26.67	15	25
NPT 1"	BBFN-04 45	1"	23.5	33.4	15	10
NPT 1 1/4"	BBFN-05 45	1 1/4"	31.8	42.16	16	5
NPT 1 1/2"	BBFN-06 45	1 1/2"	36.8	48.26	18	5
NPT 2"	BBFN-07 45	2"	47.8	60.33	20	4

90° CONDUIT GLANDS FOR LIQUID TIGHT CONDUITS



These 90° Conduit Glands made of 4 piece fitting are designed to suit all types of liquid tight conduits. The use of nickel-plated brass guarantees high corrosion resistance. In order to maintain a common usage standard for the fittings, small adjustments on the connection sets are necessary. They are also available in stainless steel.

Technical Details :

Material	Body, Cap - Nickel Plated Brass Ferrule - Zinc Plated Steel For SS add suffix 'X' Clamping Ring - Polyamide 6V2 O Ring - NBR
Temperature Range	-45° C to +105° C
Protection Class	IP 66
Threads available	Pg - Blue Bushing Metric - Red Bushing NPT - White Bushing

Liquid Tight 90° Conduit Glands (Pg Thread) - DIN 40430

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 11	BBFB-03 90	3/8"	10.2	18.6	11.5	50
Pg 13.5	BBFB-04 90	3/8"	10.2	20.4	11.5	50
Pg 16	BBFB-05 90	1/2"	13.5	22.5	13	50
Pg 21	BBFB-06 90	3/4"	18.5	28.3	15	25
Pg 29	BBFB-07 90	1"	23.5	37	15	10
Pg 36	BBFB-08 90	1 1/4"	31.8	47	16	5
Pg 42	BBFB-09 90	1 1/2"	36.8	54	18	5
Pg 48	BBFB-10 90	2"	47.8	59.3	20	4

Liquid Tight 90° Conduits (Metric Thread) - EN 60423

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M 16 x 1.5	BBFM-02(S) 90	5/16"	8.3	16	11.5	50
M 16 x 1.5	BBFM-02 90	3/8"	10.2	16	11.5	50
M 20 x 1.5	BBFM-03(S) 90	3/8"	10.2	20	13	50
M 20 x 1.5	BBFM-03 90	1/2"	13.5	20	13	50
M 25 x 1.5	BBFM-04 90	3/4"	18.5	25	15	25
M 32 x 1.5	BBFM-05 90	1"	23.8	32	15	10
M 40 x 1.5	BBFM-06 90	1 1/4"	31.8	40	16	5
M 50 x 1.5	BBFM-07 90	1 1/2"	36.8	50	18	5
M 63 x 1.5	BBFM-08 90	2"	47.8	63	20	4

Liquid Tight 90° Conduit Glands - NPT Thread - ANSI B1.20.1 (O-Ring not available)

Size	Cat. No.	Suitable for Conduit Size	Internal Diameter (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
NPT 1/2"	BBFN-02(S) 90	3/8"	10.2	21.34	13	50
NPT 1/2"	BBFN-02 90	1/2"	13.5	21.34	13	50
NPT 3/4"	BBFN-03 90	3/4"	18.5	26.67	15	25
NPT 1"	BBFN-04 90	1"	23.5	33.4	15	10
NPT 1 1/4"	BBFN-05 90	1 1/4"	31.8	42.16	16	5
NPT 1 1/2"	BBFN-06 90	1 1/2"	36.8	48.26	18	5
NPT 2"	BBFN-07 90	2"	47.8	60.33	20	4

STRAIGHT AND 90° ELBOW CONDUIT GLANDS FOR ANMSF CONDUITS



These fittings are designed for use with conduit types ANMSF. When used in combination with one of these conduits an IP 67 leak-tight cable protection system with a strong pull strength is achieved.

Technical Details :

Material	Polyamide PA-6, V-2 , halogen free
Construction	Plastic fitting, consisting of 2 parts (Cap and Body)
Temperature Range	-40° C to +120° C Continuous
Colour	Grey
Protection Class	IP 67(Dust proof, Water tight)
Approvals	UL   

Liquid Tight Straight Conduit Glands (Metric Thread)

Size	Cat. No.	Suitable for Conduit Size	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M16 X 1.5	BBFM-02A	3/8"	10.9	16	14	25
M20 X 1.5	BBFM-03A	1/2"	14.4	20	14	25
M25 X 1.5	BBFM-04A	3/4"	18.0	25	14	10
M32 X 1.5	BBFM-05A	1"	23.9	32	16	5
M40 X 1.5	BBFM-06A	1 1/4"	31.8	40	16	5

Liquid Tight 90° Conduit Glands (Metric Thread)

Size	Cat. No.	Suitable for Conduit Size	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M16 X 1.5	BBFM-02A 90	3/8"	10.9	16	14	10
M20 X 1.5	BBFM-03A 90	1/2"	14.4	20	14	10
M25 X 1.5	BBFM-04A 90	3/4"	18.0	25	14	10
M32 X 1.5	BBFM-05A 90	1"	23.9	32	16	5

Liquid Tight Straight Conduit Glands (NPT Thread)

Size	Cat. No.	Suitable for Conduit Size	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
NPT 1/2"	BBFN-02A	3/8"	10.9	21.34	14	25
NPT 1/2"	BBFN-03A	1/2"	14.4	21.34	14	25
NPT 3/4"	BBFN-04A	3/4"	18.0	26.67	16	10
NPT 1"	BBFN-05A	1"	23.9	33.40	16	5
NPT 1 1/4"	BBFN-06A	1 1/4"	30.6	42.16	18	5
NPT 1 1/2"	BBFN-07A	1 1/2"	35.4	48.26	19	1
NPT 2"	BBFN-08A	2"	47.8	60.33	21	1

Liquid Tight 90° Conduit Glands (NPT Thread)

Size	Cat. No.	Suitable for Conduit Size	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
NPT 1/2"	BBFN-02A 90	3/8"	10.9	21.34	13	10
NPT 1/2"	BBFN-03A 90	1/2"	14.4	21.34	13	10
NPT 3/4"	BBFN-04A 90	3/4"	18.0	26.67	14	10
NPT 1"	BBFN-05A 90	1"	23.9	33.40	16	5
NPT 1 1/4"	BBFN-06A 90	1 1/4"	30.6	42.16	18	5
NPT 1 1/2"	BBFN-07A 90	1 1/2"	35.4	48.26	19	1
NPT 2"	BBFN-08A 90	2"	47.8	60.33	21	1

STRAIGHT CONDUIT GLANDS FOR AMPC CONDUITS



These fittings are exclusively designed for use with type AMPC conduits. These fittings are lightweight, easy to install and when combined with a type MPC conduit an IP 67 cable protection system with a strong pull out strength is achieved.

Technical Details :

Material	PP (Polypropylene)
Construction	One piece swivel fitting with integrated ferrule
Temperature Range	-10°C to +110°C Continuous
Colour	Grey
Protection Class	IP 54
Approvals	RoHS

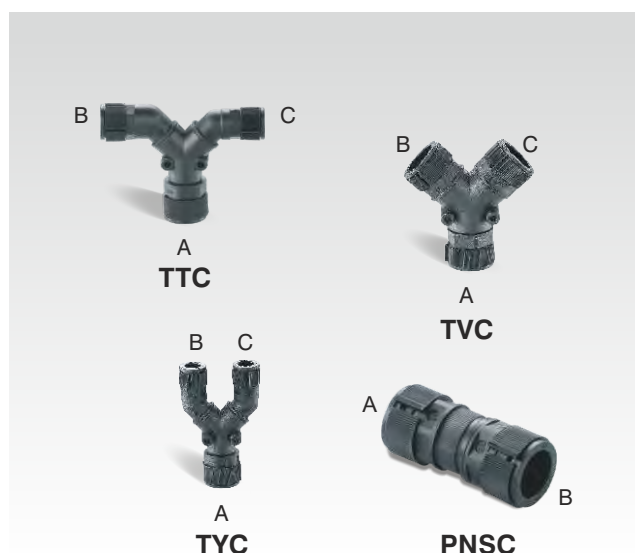
Liquid Tight Straight Conduit Glands (Metric Thread)

Size	Cat. No.	Suitable for Conduit Size (DIN)	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
M16 X 1.5	ABFM-9	9	8.8	16	9	50
M20 X 1.5	ABFM-11	11	11.1	20	9	50
M25 X 1.5	ABFM-16	16	14.8	25	10	50
M32 X 1.5	ABFM-21	21	19.4	32	11	25
M40 X 1.5	ABFM-29	29	27.9	40	12	25
M50 X 1.5	ABFM-36	36	35.6	50	13	25
M63 X 1.5	ABFM-48	48	45.9	63	14	10

Liquid Tight Straight Conduit Glands (NPT Thread)

Size	Cat. No.	Suitable for Conduit Size (DIN)	Minimum Internal Bore (mm)	Thread Diameter (mm)	Thread Length (mm)	Standard Pack (pieces)
Pg 9	ABFP-9	9	8.8	15.2	9	50
Pg 11	ABFP-11	11	11.1	18.6	9	50
Pg 13.5	ABFP-13	13	13.0	20.4	10	50
Pg 16	ABFP-16	16	14.8	22.5	10	50
Pg 21	ABFP-21	21	19.4	28.3	11	25
Pg 29	ABFP-29	29	27.9	37.0	12	25
Pg 36	ABFP-36	36	35.6	47.0	13	25
Pg 42	ABFP-42	42	41.9	54.0	13	25
Pg 48	ABFP-48	48	45.9	59.3	14	10

SNAP ON CONDUIT COUPLERS



Distributors made of Polyamide can be used instead of a distribution box. These special connectors are used to clamp standard corrugated conduits. They can be configured into the basic shapes of Y (TYC), T (TTC), V(TVC) and straight through (PNSC). They are free of Halogen Phosphorous Cadmium.

Technical Details :

Material	Polyamide 6
Colour	Black
Temperature Range	-40 ⁰ C to +105 ⁰ C Continuous
Protection Class	IP 67

Cat. No. for TYC Configuration	Cat. No. for TTC Configuration	Cat. No. for TVC Configuration	Cat. No. for TNSC Configuration	Suitable for Conduit Size			Standard Pack (pieces)
				A	B	C	
TYC 101010	TTC 101010	TVC 101010	-	10	10	10	10
TYC 121010	TTC 121010	TVC 121010	-	12	10	10	10
TYC 121210	TTC 121210	TVC 121210	-	12	12	10	10
TYC 121212	TTC 121212	TVC 121212	-	12	12	12	10
TYC 161010	TTC 161010	TVC 161010	-	16	10	10	10
TYC 161210	TTC 161210	TVC 161210	-	16	12	10	10
TYC 161212	TTC 161212	TVC 161212	-	16	12	12	10
TYC 161616	TTC 161616	TVC 161616	-	16	16	16	10
TYC 222222	TTC 222222	TVC 222222	-	22	22	22	10
TYC 282222	TTC 282222	TVC 282222	-	28	22	22	10
TYC 282822	TTC 282822	TVC 282822	-	28	28	22	10
TYC 282828	TTC 282828	TVC 282828	-	28	28	28	10
-	-	-	PNSC-10B	10	10	-	10
-	-	-	PNSC-12B	12	12	-	10
-	-	-	PNSC-16B	16	16	-	10
-	-	-	PNSC-22B	22	22	-	10
-	-	-	PNSC-28B	28	28	-	10
-	-	-	PNSC-36B	36	36	-	10
-	-	-	PNSC-48B	48	48	-	10

CONNECTORS FOR FITTING CONDUITS TO SENSORS



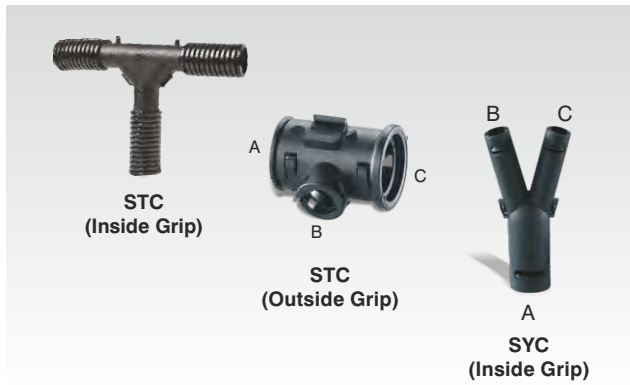
These connectors are used to connect conduits to standard proximity sensors. They are free for Halogen Phosphorous Cadmium.

Technical Details :

Material	High Quality Polycarbonate
Colour	Transparent White
Temperature Range	-40 ⁰ C to +105 ⁰ C Continuous + 150 ⁰ C Short Term
Protection Class	IP 67 (EN 60529)

Proximity Sensor Size	Suitable for Conduit Size	Cat. No.	Total Length (mm)	Standard Pack (pieces)
M8x1	10	TIS-M08T	61.5	100
M12x1	10	TIS-M12T	61.5	50
M18x1	10	TIS-M18T	61.5	50
M30x1.5	10	TIS-M30T	61.5	30

Y & T CONDUIT COUPLERS WITH CLAMP LOCKS



These manifolds are used to join three flexible Conduits of the same size or of different sizes with inside or outside gripping. They are available in 'T' and 'Y' shapes.

Technical Details :

Material	Polyamide 66 (PA)
Colour	RAL 9005 (Black)
Temperature Range	-40° C to + 135° C Continuous, + 150° C Short Term

Y & T Conduit Couplers

Cat. No.	Type of Gripping	Suitable for Conduit OD			Standard Pack (pieces)
		A Ø mm	B Ø mm	C Ø mm	
SYC101010	INSIDE	13	13	13	50
SYC121210	INSIDE	15.7	15.7	13	50
SYC161210	INSIDE	18.9	15.7	13	50
SYC161212	INSIDE	18.9	15.7	15.7	50
SYC161610	INSIDE	18.9	18.9	13	50
SYC161612	INSIDE	18.9	18.9	15.7	50
SYC221616	INSIDE	25.4	18.9	15.7	50
SYC222216	INSIDE	25.4	25.4	18.9	50
SYC222222	INSIDE	25.4	25.4	25.4	50
STC070707/A	OUTSIDE	10	10	10	50
STC080808	OUTSIDE	11.7	11.7	11.7	50
STC100707/A	OUTSIDE	13	10	10	50
STC100410	OUTSIDE	13	7.1	13	50
STC100707/D	OUTSIDE	13	10	10	50
STC100710	OUTSIDE	13	10	13	50
STC100810/A	OUTSIDE	13	11.7	13	50
STC101007	OUTSIDE	13	13	10	50
STC101010	OUTSIDE	13	13	13	50
STC120810/A	OUTSIDE	15.7	11.7	13	50
STC120712/A	OUTSIDE	15.7	10	15.7	50
STC120812/C	OUTSIDE	15.7	11.7	15.7	50
STC121012/B	OUTSIDE	15.7	13	15.7	50
STC121010	OUTSIDE	15.7	13	13	50
STC121207/A	OUTSIDE	15.7	15.7	10	50
STC121210	OUTSIDE	15.7	15.7	13	50
STC121212	OUTSIDE	15.7	15.7	15.7	50
STC161012	OUTSIDE	18.9	13	15.7	50
STC160712/B	OUTSIDE	18.9	10	15.7	50
STC160716/A	OUTSIDE	18.9	10	18.9	50
STC160816	OUTSIDE	18.9	11.7	18.9	50
STC161016	OUTSIDE	18.9	13	18.9	50
STC161212	OUTSIDE	18.9	15.7	15.7	50
STC161216	OUTSIDE	18.9	15.7	18.9	50
STC161607/A	OUTSIDE	18.9	18.9	10	50
STC161612	OUTSIDE	18.9	18.9	15.7	50
STC161616	INSIDE	18.9	18.9	18.9	50
STC162216	OUTSIDE	18.9	25.4	18.9	50
STC220822	OUTSIDE	25.4	11.7	25.4	50
STC221016	OUTSIDE	25.4	13	18.9	50
STC221022	OUTSIDE	25.4	13	25.4	50
STC221212	OUTSIDE	25.4	15.7	15.7	50
STC221216	OUTSIDE	25.4	15.7	18.9	50
STC221612	OUTSIDE	25.4	18.9	15.7	50
STC221222/B	OUTSIDE	25.4	15.7	25.4	50
STC222216	OUTSIDE	25.4	25.4	18.9	50
STC222222	OUTSIDE	25.4	25.4	25.4	50

CONDUIT COUPLERS WITH CLAMP LOCKS - STRAIGHT & ELBOW



These manifolds are used to join two flexible Conduits of the same size or of different sizes with outside gripping. They are available in Straight & Elbow shapes.

Technical Details :

Material	Polyamide 66 (PA)
Protection Class	RAL 9005 (Black)
Temperature Range	-40° C to +135° C Continuous, +150° C Short Term

Straight & Elbow Conduit Coupler

Cat. No.	Type of Gripping	Suitable for Conduit OD		Standard Pack (pieces)
		A Ø mm	B Ø mm	
SSC1007	OUTSIDE	13	10	50
SSC1010	OUTSIDE	13	13	50
SSC1210	OUTSIDE	15.7	13	50
SSC1212	OUTSIDE	15.7	15.7	50
SSC1616	OUTSIDE	18.9	18.9	50
SEC1010	OUTSIDE	13	13	50
SEC1212	OUTSIDE	15.7	15.7	50
SEC1616	OUTSIDE	18.9	18.9	50

'P' TYPE MOUNTING CLIPS



'P' type mounting clips are ideal elements for retaining / holding pipes, cables, cable harnesses, hoses etc. These 'P' clips act as form fitting adjustable bands for ease of assembly & installation. The band ends of these clips are reinforced to prevent any tearing or loosening due to high mechanical loads. These galvanized steel, 'P' clips are fitted with EPDM liners which help achieve a tighter grip on the cable / conduit & also act as dampers for sound & vibration.

Technical Details :

Material	Clip - Zinc Plated Galvanised Steel
Profile	EPDM
Temperature Range	-40° C to +120° C

Size	Cat. No.	Nominal ID (mm)	B Width (mm)	d Screw Size	Standard Pack (pieces)
0542-06-12	FHC-06	06	12	M5	50
0542-08-12	FHC-08	08	12	M5	50
0542-10-12	FHC-10	10	12	M5	50
0542-12-12	FHC-12	12	12	M5	50
0542-15-15	FHC-15	15	15	M6	50
0542-18-15	FHC-18	18	15	M6	50
0542-22-15	FHC-22	22	15	M6	50
0542-25-15	FHC-25	25	15	M6	50
0542-30-15	FHC-30	30	15	M6	50
0542-35-15	FHC-35	35	15	M6	50
0542-40-20	FHC-40	40	20	M8	50
0542-48-25	FHC-48	48	25	M10	50

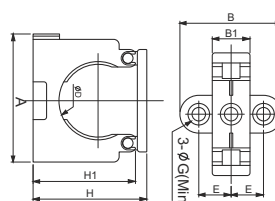
MOUNTING CLIPS



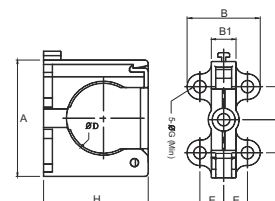
Mounting Clips are used for supporting conduits. These clips are made of High Quality Impact Resistant Polyamide. The mounting clips are stackable and are fixed with the help of screws on to the panel or equipment surface.

Technical Details :

Material	Polyamide 6
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Temperature Range	-40° C to +105° C Continuous, +150° C Short Term



For NFH 56/70/95



For NFH 10 to 48

Suitable for Conduit Size	Cat. No. Black	Cat. No. Grey	Dimensions							
			Ø D	A	H	E	B	B1	Ø G	Bolt
7	NFH-07B	NFH-07NG	10	16.6	20.5	-	14.5	10	5	1-M4
10	NFH-10B	NFH-10NG	13	23	22	-	-	10	5	1-M4
12	NFH-12B	NFH-12NG	16	27.5	25	11.3	33	14	5.4	3-M5
16	NFH-16B	NFH-16NG	21.5	34.3	33	12	35.9	14	5.4	3-M5
22	NFH-22B	NFH-22NG	29	45.5	41.7	12	38	14	6.4	3-M6
28	NFH-28B	NFH-28NG	35	55	49.8	12.5	37	14	6.4	5-M6
36	NFH-36B	NFH-36NG	42	66	59.3	13.5	41.5	14	6.4	5-M6
48	NFH-48B	NFH-48NG	53.6	84.9	72.7	13.5	41.5	14	6.4	5-M6
56	NFH-56B	NFH-56NG	66.8	98.6	86.3	17.75	52	19	6.4	5-M6
70	NFH-70B	NFH-70NG	82	121	105.8	21.5	63	23	8.4	5-M8
95	NFH-95B	NFH-95NG	105.6	155.4	136.3	28	82	30	8.4	5-M8

TUBE END CAPS



Tube End caps provide an IP66 covering at the end of corrugated tubes. The cap can be cut to accommodate pass through of different size wires.

Technical Details :

Material	High Quality Rubber (NBR)
Colour	Black
Protection Class	IP 66 (EN 60529)

Suitable for Conduit Size	Cat. No.	Inner Diameter (mm)	Cable Range Ø min - Ø max (mm)	Total Length (mm)
7	FEC-07B	10.0	2 - 7	24.0
10	FEC-10B	12.5	3 - 10	33.0
12	FEC-12B	16	4.2 - 12	33.0
16	FEC-16B	21.2	6 - 16	34.5
22	FEC-22B	28.5	6 - 22	43.0
28	FEC-28B	34.5	6 - 28	43.0
36	FEC-36B	42.5	6 - 36	58.5
48	FEC-48B	54.5	6 - 48	58.5
56	FEC-56B	67.2	9 - 56	71
70	FEC-70B	82.5	10 - 70	86
95	FEC-95B	106.0	13 - 95	110

METAL FERRULES FOR LIQUID TIGHT CONDUITS



These metal ferrules are used in the combination with clamping ring to maintain the IP 67 grade of protection for liquid tight PVC coated smooth conduits. They are also used as cover at conduit ends to avoid cable damage.

Technical Details :

Material	Nickel Plated Brass
Colour	Metallic

Conduit Size	Cat. No. Nickel Plated Brass	Standard Pack (Pieces)
3/8"	BFER-03	25
1/2"	BFER-04	25
3/4"	BFER-05	25
1"	BFER-06	5
1 1/4"	BFER-07	5
1 1/2"	BFER-08	5
2"	BFER-09	2

METAL CLAMPING RING FOR CONDUITS



For using liquid tight conduit glands with metallic conduits it is recommended to replace the standard polyamide clamping ring inside these glands with metal clamping rings. These clamping rings also increase the pull out strength of the conduit.

Technical Details :

Material	Zinc Plated Steel
Colour	Metallic

Conduit Size	Cat. No. Zinc Plated Steel	Standard Pack (Pieces)
5/16"	ACRB-02	50
3/8"	ACRB-03	50
1/2"	ACRB-04	50
3/4"	ACRB-05	25
1"	ACRB-06	10
1 1/4"	ACRB-07	5
1 1/2"	ACRB-08	5
2"	ACRB-09	4

POLYAMIDE LOCK NUTS



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

Technical Details :

Material	Polyamide 6 30% glass fibre reinforced
Colour	RAL 7001 (Grey) RAL 9005 (Black)
Threads available	Pg, Metric, NPT & PF

Pg Thread (DIN 40430)

For Gland Size	Cat. No. Grey	Cat. No. Black	 (mm)	Height (mm)	Standard Pack (pieces)
Pg 7	FLN P07NG	FLN P07B	19	4	50
Pg 9	FLN P09NG	FLN P09B	22	4	50
Pg 11	FLN P11NG	FLN P11B	24	6	50
Pg 13.5	FLN P13NG	FLN P13B	27	6	50
Pg 16	FLN P16NG	FLN P16B	30.3	6	50
Pg 21	FLN P21NG	FLN P21B	36	6.8	25
Pg 29	FLN P29NG	FLN P29B	46	6.8	20
Pg 36	FLN P36NG	FLN P36B	60	8	10
Pg 48	FLN P48NG	FLN P48B	70.2	8	5

Metric Thread (EN 60423)

For Gland Size	Cat. No. Grey	Cat. No. Black	 (mm)	Height (mm)	Standard Pack (pieces)
M 12 x 1.5	FLN M10NG	FLN M10B	17	6	50
M 16 x 1.5	FLN M12NG	FLN M12B	22	6	50
M 20 x 1.5	FLN M16NG	FLN M16B	26	6	50
M 25 x 1.5	FLN M22NG	FLN M22B	33	6.8	50
M 32 x 1.5	FLN M28NG	FLN M28B	40	6.8	25
M 40 x 1.5	FLN M36NG	FLN M36B	50	8	10
M 50 x 1.5	FLN M48NG	FLN M48B	60	8	10
M 63 x 1.5	BML-07	BML-27	75	8	5

PF(G) Thread (JIS B0202)

For Gland Size	Cat. No. Grey	Cat. No. Black	 (mm)	Height (mm)	Standard Pack (pieces)
G 1/4"	FLN G07NG	FLN G07B	19	6	100
G 1/2"	FLN G10NG	FLN G10B	27.3	6	100
G 1/2"	FLN G12NG	FLN G12B	27.3	6	100
G 1/2"	FLN G16NG	FLN G16B	27.3	6	100
G 3/4"	FLN G22NG	FLN G22B	36	6.8	100
G 1"	FLN G28NG	FLN G28B	44	6.8	50
G 1 1/4"	FLN G36NG	FLN G36B	49	8	50
G 1 1/2"	FLN G42NG	FLN G42B	65	8	50
G 2"	FLN G48NG	FLN G48B	70	8	50

BRASS LOCK NUTS



In certain applications, installing conduit glands directly on enclosure or equipment wall surfaces is not possible as the entry holes are not threaded. In such situations Brass Lock Nuts are used to secure the cable glands.

Technical Details :

Material	Brass, Nickel Plated
Threads available	Pg, Metric

Pg Threads

For Gland Size	Cat. No.	 (mm)	Height (mm)	Standard Pack (pieces)
Pg 7	GBSL-01	17	2.8	50
Pg 9	GBSL-02	19	2.8	50
Pg 11	GBSL-03	22	3.0	50
Pg 13.5	GBSL-04	24	3.0	50
Pg 16	GBSL-05	27	3.0	25
Pg 21	GBSL-06	32	3.5	25
Pg 29	GBSL-07	41	4.0	20
Pg 36	GBSL-08	51	5.0	15
Pg 42	GBSL-09	60	5.0	12
Pg 48	GBSL-10	64	5.5	12

Metric Threads

For Gland Size	Cat. No.	 (mm)	Height (mm)	Standard Pack (pieces)
M 12 x 1.5	GBMBL-01	15	2.8	50
M 16 x 1.5	GBMBL-02	19	3.0	50
M 20 x 1.5	GBMBL-03	24	3.5	50
M 25 x 1.5	GBMBL-04	30	4.0	25
M 32 x 1.5	GBMBL-05	36	5.0	25
M 40 x 1.5	GBMBL-06	46	5.0	20
M 50 x 1.5	GBMBL-07	60	5.0	10
M 63 x 1.5	GBMBL-08	70	6.0	10