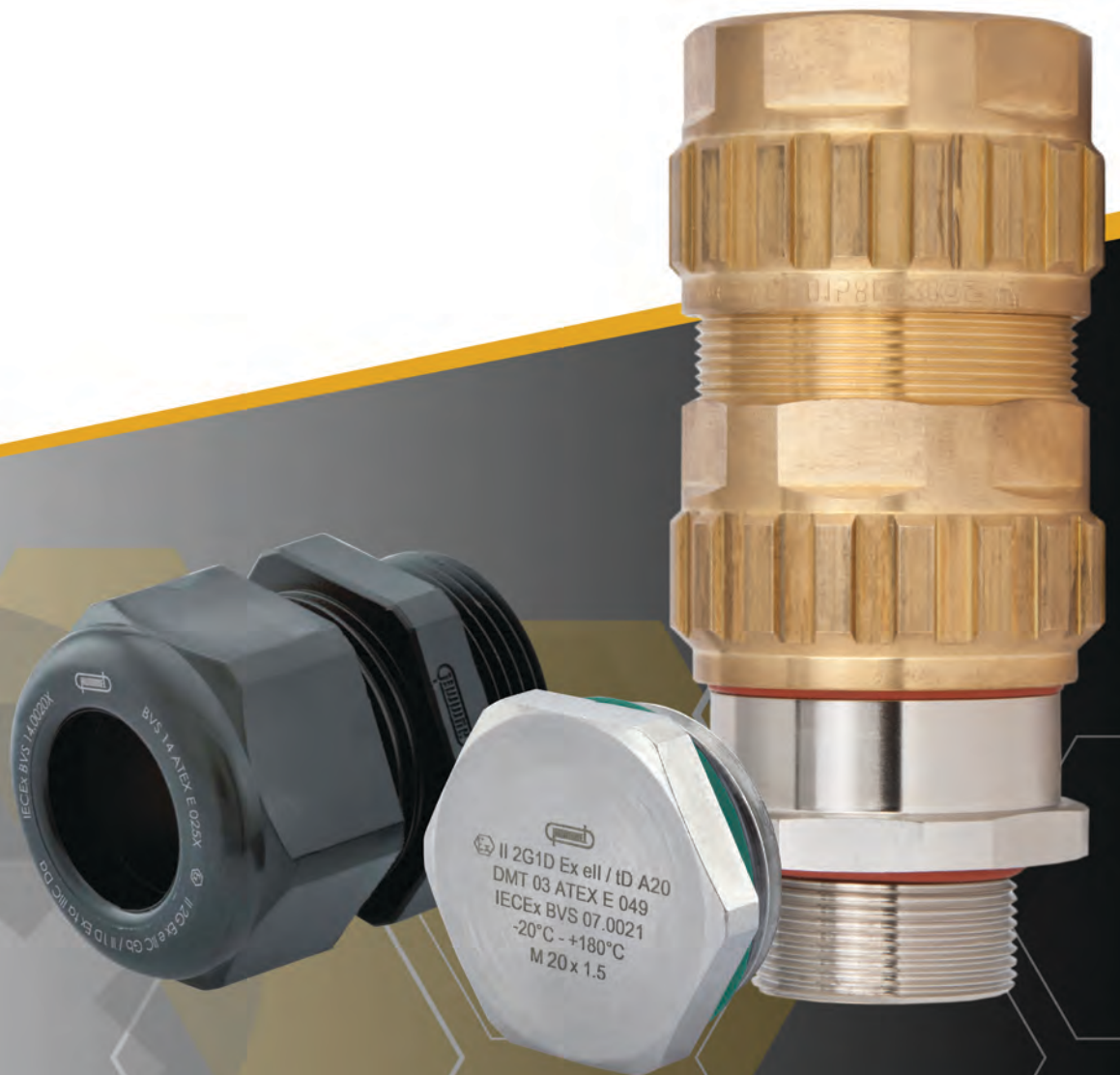
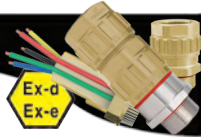


HAZARDOUS / INCREASED SAFETY

CABLE GLANDS & CIRCULAR CONNECTORS
ARMORED & NON - ARMORED SOLUTIONS



Ex-e/Ex-d EXIOS Cable Glands



Pg	Description (Armored)
3	Introduction - EXIOS (+Standard/+MZ/+Barrier) Cable Gland
4-5	EXIOS (UL +Barrier) Cable Glands - NPT/Metric UL / Ex-d (Flameproof) / Ex-e
6	EXIOS (+Barrier) Cable Glands - NPT/Metric cUS / ATEX / IECEX / Ex-d (Flameproof) / Ex-e
7	Assembly Instructions - EXIOS (+Barrier / UL +Barrier)
8-9	EXIOS (+Standard/+MZ) Cable Glands - NPT/Metric cUS / ATEX / IECEX / Ex-d / Ex-e
10-11	Overview / Assembly Instructions - EXIOS (+Standard/+MZ)
12	EXIOS (+A2F) Cable Glands - NPT/Metric (Non-Armored) cUS / ATEX / IECEX / Ex-d / Ex-e

Ex-d Nickel Plated Brass/Stainless Steel



Pg	Description (Non-Armored)
13	Introduction - Nickel Plated Brass / Stainless Steel - Ex-d
14	Nickel Plated Brass Cable Glands: Low Temp. ATEX / IECEX / Ex-d - (Nylon/PVDF) Splines - NPT/Metric
15	Nickel Plated Brass Cable Glands w/ (MZ) Clamp: Low Temp. ATEX / IECEX / Ex-d - (Nylon) Splines - NPT/Metric
16	(316L) Stainless Steel Cable Glands: Low Temp. ATEX / IECEX / Ex-d - (Nylon/PVDF) Splines - NPT/Metric

Ex-e Nylon Cable Glands



Pg	Description (Non-Armored)
17	Introduction - Nylon Cable Glands
18-19	Fiber Reinforced Nylon Black Cable Glands: Metric/NPT cUS / ATEX / IECEX / Class / Div / EN 60079-0: 2012 / Ex-e
21	Anodized Aluminum with (MZ) Clamp Black Nylon: ATEX / IECEX / Inmetro / Ex-e - NPT/Metric/PG

Ex-e Multi-Hole / Romex® Glands



Pg	Description (Non-Armored)
22	Romex® Nylon Black/Gray Cable Glands: NPT/Metric/PG UL / ATEX / Ex-e / Inmetro
23	Romex® Nickel Plated Brass Cable Glands: NPT/Metric/PG UL / ATEX / IECEX / Ex-e
24-29	Multi-Hole Nylon/Nickel Plated Brass Glands: NPT/Metric/PG UR / CSA / ATEX / IECEX / Inmetro / Ex-e

Ex-e/Ex-d Clamping (Extra Pull-Out)



Pg	Description (Non-Armored)
15	Nickel Plated Brass Cable Glands with (MZ) Clamp - Low Temp. ATEX / IECEX / Ex-d - (PVDF) Splines - NPT/Metric
21	Anodized Aluminum with (MZ) Clamp Black Nylon - Metric/PG ATEX / IECEX / Inmetro / Ex-e
33	Nickel Plated Brass Cable Glands with (MZ) Clamp (Nylon/PVDF) Splines - NPT/Metric/PG UL / UR / CSA / ATEX / IECEX / Ex-e
40	EMI/RFI (Braided) with (MZ) Clamp: Nickel Plated Brass Std/Low Temp. - (Nylon/PVDF) Splines - NPT/Metric/PG CSA / ATEX / IECEX / Ex-e

Ex-e Nickel Plated Brass/Stainless Steel



Pg	Description (Non-Armored)
30	Introduction - Nickel Plated Brass/Stainless Steel - Ex-e
31-32	Nickel Plated Brass Cable Glands: (Nylon) Splines Std/Low Temp. - NPT/Metric/PG/Elongated UL / UR / CSA / ATEX / IECEX / Ex-e
33	Nickel Plated Brass Cable Glands with (MZ) Clamp: (Nylon/PVDF) Splines - NPT/Metric/PG UL / UR / CSA / ATEX / IECEX / Ex-e
34-35	Nickel Plated Brass Cable Glands: (PVDF) Splines - NPT / Metric / PG / PG Elongated UL / UR / CSA / ATEX / IECEX / Ex-e
36	(303) Stainless Steel Cable Glands: (Nylon/PVDF) Splines - Std/Low Temp. - Metric/PG UL / UR / CSA / ATEX / IECEX / Ex-e

Ex-e EMI/RFI (Braided/Foil) Shielded



Pg	Description (Non-Armored)
37-38	EMI/RFI (Braided): Nickel Plated Brass Std/Low Temp. - (Nylon/PVDF) Splines - NPT/Metric/PG CSA / ATEX / IECEX / Ex-e
39	EMI/RFI (Braided/Foil): Nickel Plated Brass Std/Low Temp. - (Metal Coated Nylon) Spline - Metric/PG CSA / ATEX / IECEX / Ex-e
40	EMI/RFI (Braided) with (MZ) Clamp: Nickel Plated Brass Std/Low Temp. - (Nylon/PVDF) Splines - NPT/Metric/PG CSA / ATEX / IECEX / Ex-e

Ex-e/Ex-d Accessories



Pg	Description
41	Accessories Overview
41	Locking Nuts (303) Stainless Steel: Metric/PG
41	Locking Nuts Nickel Plated Brass: NPT/Metric/PG
42	Locking Nuts (EMI/RFI) Nickel Plated Brass: Metric/PG
43	Locking Nuts Nylon: NPT/Metric/PG
44	Hole Plugs (Mushroom): NPT/Metric/PG - Ex-e
45	Hex Plugs Nylon/Nickel Plated Brass: Metric/PG - Ex-e
46	Hex Plugs (303/316L) Stainless Steel: Metric/PG - Ex-e/Ex-d
47	Thread Reducers: Nickel Plated Brass: Metric/PG- Ex-e
48	Thread Reducers: Stainless Steel (303): Metric/PG- Ex-e
49	Thread Reducers: Nickel Plated Brass: Metric - Ex-e / Ex-d
49	Thread Reducers: (316L) Stainless Steel: Metric - Ex-e
50	Red Fiber Washers: NPT/Metric
50	Grounding (Earth) Tag: NPT/Metric
50	Serrated Washers: NPT/Metric
50	Shrouds: (for EXIOS Cable Glands) NPT/Metric

Technical Information / Cross Reference

Pg	Description
51	Standard Cable Gland Fittings & Accessories
52	Ex-e/Ex-i Circular Connectors (Signal/Power/RJ45)
53	Standard Sealcon Circular Connectors
53	Marketing Segments
54-57	Technical Information / Disclaimer

Technical Description

- **Approvals:** UL, CSA, ATEX, IECEX, Inmetro, Gost
- **Certifications:** ABS, German Lloyd, DNV
- **Silicone O-Ring & Seals:** Ideal in Low Temperature Applications!
- **Temperature Range:** -76°F to 221°F (-60°C to +105°C) for select products
- **Captive Interlocking Armor Cone:** Safe & Secure Assembly!
- Octagon Design keeps torque off cable and armor!
- Knurled Grip Profile Provides Quicker Hand Assembly Time!
- Fewer Parts with Maximum Grip!
- Wider Grip Wrenching Flats – Easier Tighten!
- (9) Sizes Covering a Larger Cable Range - Requiring Less Inventory!
- Easy Part Numbering System – Fewer Mistakes!



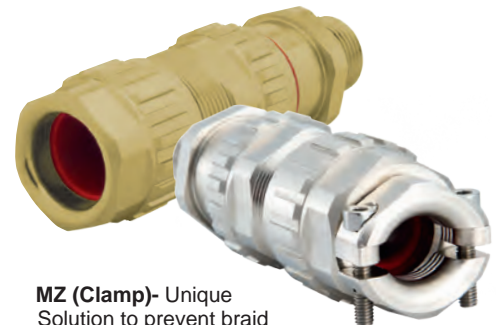
EXIOS (+Standard / +MZ) with Overlapping Clamping Splines provides the Gland with Double Compression on the inner and outer jacket of the cable.

Your One Stop Solution For All Cable & Wire Accessories!



Innovative "Interlocking Armor Cone" - Safe Assembly!

- Zero torsion on cable cores and armor
- Halogen-Free & Phosphorous-Free
- IP 68 5 bar, EN 60529
- Class 1, Div 2, cUL_{us} (cUS), ATEX, IECEX
- Class 1, Div 1, UL_{UL} (YU Gland only)
- Zone 1, Zone 2, Zone 20, Zone 21 und Zone 22
- Gas Groups IIA, IIB and IIC – Apparatus Group III
- Equipment Protection Level GbDa



MZ (Clamp)- Unique Solution to prevent braid or armor from sheering off under excessive cable torque.



Grounding (Earth) Tags
 These Tags are installed between the cable gland and equipment to provide grounding.



Shroud, Red Fiber Washers & Other Accessories Available
 On Page 46 - 54

Locking Nuts

For securing a cable gland in a knockout hole.



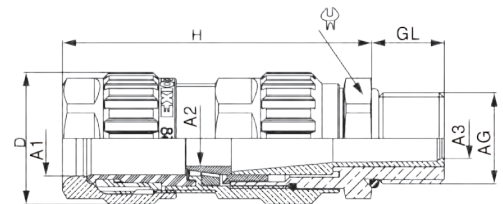
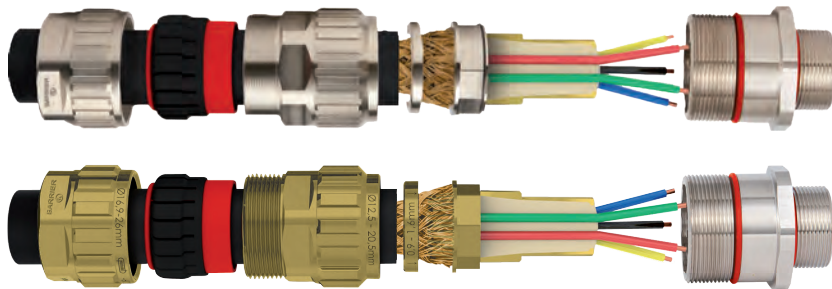
Use of a Serrated Washers will help reduce the chances of the cable gland or locking nuts from loosening under vibration.

For Armored and Non-Armored Cable with Compound

Raw Brass/NPB Cable Glands EXIOS UL +Barrier for Hazardous Duty Locations, Nylon Clamping Insert, Silicone O-Ring/Seal, V2, UL94, IP 68 (5 bar)

Part Numbers	Part Numbers	Size Type	Thread Type & Size Page 59 for Thread Specs	Dimensions in Inches (mm) (See Diagram Below)										
				Clearance Hole +.01" (+.25 mm)	Cable Range A1	Cable Range Inner Jacket A2	Dia. Over Cond. A3	Max. No. Cond.	Armor Range	Thread Length GL	H max	D	mm	L1
YU13NM-B1	YU13NM-BR	20 - 2	1/2" NPT*	.83 (21.1)	.35 - .63 (9 - 16)	.47 (12)	.35 (8.8)	10	0 - 0.05 (0 - 1.25)	.79 (20)	2.68 (68)	1.14 (29)	.94 (24)	.79 (20)
YU13NL-B1	YU13NL-BR	20 - 3	1/2" NPT*	.83 (21.1)	.49 - .81 (12.5 - 20.5)	.55 (14)	.45 (11.5)	15	0 - 0.06 (0 - 1.4)	.79 (20)	2.87 (73)	1.38 (35)	1.18 (30)	.79 (20)
YU21NK-B1	YU21NK-BR	25	3/4" NPT*	1.05 (26.7)	.67 - 1.02 (16.9 - 26)	.79 (20)	.65 (16.4)	25	0 - 0.06 (0 - 1.6)	.81 (20.5)	3.2 (81.3)	1.65 (42)	1.42 (36)	.79 (20)
YU29NK-B1	YU29NK-BR	32	1" NPT*	1.35 (34.3)	.87 - 1.30 (22 - 33)	1.02 (26)	.84 (21.4)	45	0 - 0.08 (0 - 2.0)	.98 (25)	3.37 (85.5)	2.05 (52)	1.81 (46)	1.18 (30)
YU29LK-B1	YU29LK-BR	40	1-1/4" NPT*	1.65 (41.9)	1.10 - 1.61 (28 - 41)	1.31 (33.2)	1.09 (27.6)	70	0 - 0.08 (0 - 2.0)	1.02 (26)	3.72 (94.4)	2.52 (64)	2.17 (55)	1.18 (30)
YU36NK-B1	YU36NK-BR	40	1-1/2" NPT*	1.92 (48.7)	1.10 - 1.61 (28 - 41)	1.31 (33.2)	1.09 (27.6)	70	0 - 0.08 (0 - 2.0)	1.04 (26.5)	3.72 (94.4)	2.52 (64)	2.17 (55)	1.18 (30)
YU50NK-B1	YU50NK-BR	50	2" NPT*	2.375 (60.4)	1.42 - 2.07 (36 - 52.6)	1.74 (44.2)	1.48 (37.5)	85	0 - 0.10 (0 - 2.5)	1.06 (27)	4.58 (116.3)	2.87 (73)	2.56 (65)	1.38 (35)
YU52NK-B1	YU52NK-BR	63	2-1/2" NPT*	2.875 (74.1)	1.81 - 2.57 (46 - 65.3)	2.21 (56.2)	1.86 (47.3)	120	0 - 0.10 (0 - 2.5)	1.57 (40)	5.02 (127.6)	3.54 (90)	3.15 (80)	1.57 (40)
YU30NK-B1	YU30NK-BR	75	3" NPT*	3.50 (88.9)	2.24 - 3.07 (57 - 78)	2.69 (68.2)	2.28 (58.0)	150	0 - 0.10 (0 - 2.5)	1.63 (41.5)	5.37 (136.5)	4.21 (107)	3.74 (95)	1.77 (45)
YU20MK-B1	YU20MK-BR	20 - 1	M20 x 1.5	.79 (20)	.24 - .47 (6 - 12)	.32 (8.2)	.31 (7.9)	8	0 - 0.05 (0 - 1.25)	.63 (16)	2.74 (69.5)	1.06 (27)	.87 (22)	.79 (20)
YU20MM-B1	YU20MM-BR	20 - 2	M20 x 1.5	.79 (20)	.35 - .63 (9 - 16)	.47 (12)	.35 (8.8)	10	0 - 0.05 (0 - 1.25)	.63 (16)	2.93 (74.3)	1.14 (29)	.94 (24)	.79 (20)
YU20ML-B1	YU20ML-BR	20 - 3	M20 x 1.5	.79 (20)	.49 - .81 (12.5 - 20.5)	.55 (14)	.45 (11.5)	15	0 - 0.06 (0 - 1.4)	.63 (16)	3.14 (80.5)	1.38 (35)	1.18 (30)	.79 (20)
YU25MK-B1	YU25MK-BR	20 - 3	M25 x 1.5	.98 (25)	.49 - .81 (12.5 - 20.5)	.55 (14)	.45 (11.5)	15	0 - 0.06 (0 - 1.4)	.63 (16)	3.17 (80.5)	1.38 (35)	1.18 (30)	.79 (20)
YU25MM-B1	YU25MM-BR	25	M25 x 1.5	.98 (25)	.67 - 1.02 (16.9 - 26)	.79 (20)	.65 (16.4)	25	0 - 0.06 (0 - 1.6)	.63 (16)	3.58 (91)	1.65 (42)	1.42 (36)	.79 (20)
YU32MK-B1	YU32MK-BR	32	M32 x 1.5	1.26 (32)	.87 - 1.30 (22 - 33)	1.02 (26)	.84 (21.4)	45	0 - 0.08 (0 - 2.0)	.63 (16)	3.78 (96)	2.05 (52)	1.81 (46)	1.18 (30)
YU40MK-B1	YU40MK-BR	40	M40 x 1.5	1.57 (40)	1.10 - 1.61 (28 - 41)	1.31 (33.2)	1.09 (27.6)	70	0 - 0.08 (0 - 2.0)	.63 (16)	4.21 (107)	2.52 (64)	2.17 (55)	1.18 (30)
YU50MK-B1	YU50MK-BR	50	M50 x 1.5	1.97 (50)	1.42 - 2.07 (36 - 52.6)	1.74 (44.2)	1.48 (37.5)	85	0 - 0.10 (0 - 2.5)	.63 (16)	5.18 (131.5)	2.87 (73)	2.56 (65)	1.38 (35)
YU63MK-B1	YU63MK-BR	63	M63 x 1.5	2.48 (63)	1.81 - 2.57 (46 - 65.3)	2.21 (56.2)	1.86 (47.3)	120	0 - 0.10 (0 - 2.5)	.63 (16)	5.69 (144.5)	3.54 (90)	3.15 (80)	1.57 (40)
YU75MK-B1	YU75MK-BR	75	M75 x 1.5	2.95 (75)	2.24 - 3.07 (57 - 78)	2.69 (68.2)	2.28 (58.0)	150	0 - 0.10 (0 - 2.5)	.63 (16)	6.06 (154)	4.21 (107)	3.74 (95)	1.77 (45)

*All EXIOS in NPT do not come with an O-Ring



EXIOS UL Barrier / Certificates

UL 2225 / UL 514 B / CSA 22.2
 UL File: 351373

Class I; Div 1; Groups C, D
 Class I; Div 2; Groups C, D

Class II; Div 1; Groups E, F, G
 Class II; Div 2; Groups E, F, G

Class III
 Class I; Zone 1; AEx d IIB



UL File: E351373

UL / Ex-d (Flameproof) / Ex-e

For Armored and Non-Armored Cable with Compound

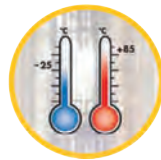
These cable glands are designed for use in "Hazardous Areas". The compound provides a Barrier seal around each cable core according to North American specifications.

The UL-Certified version is for use with Marine Shipboard cables in Hazardous Areas. The EXIOS Barrier can also be used in Zone classified Hazardous Locations.

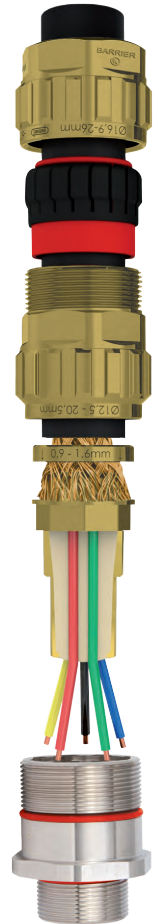
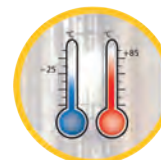
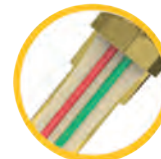
Certifications / Approvals		
UL 2225 / UL 514 B / CSA 22.2 UL File: E351373	Class I; Div 1; Groups C,D Class I; Div 2; Groups C,D Class I; Zone 1; AEx d IIB	Class II; Div 1; Groups E, F, G Class II; Div 2; Groups E, F, G Class III



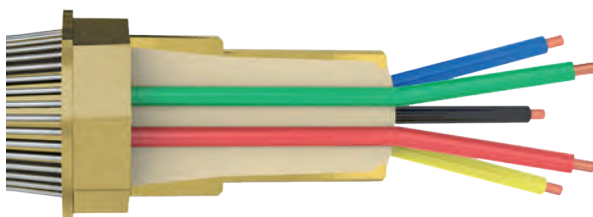
EXIOS
+ BARRIER
YU-



- Overlapping Clamping Splines seal outer jacket of the cable
- Armor accepts thickness from 0 - 0.10" (0 - 2.5 mm)
- Maximum clamping range - up to 3.75" (95 mm)
- Captive Interlocking Armor Cone: Safe & Secure Assembly!
- Octagon Design keeps torque off cable and armor!
- Temperature: -13°F to 185°F (- 25°C to 85°C)



UL File: E351373



EXIOS Barrier

The EXIOS +Barrier gland combines the outstanding features of the +Standard EXIOS but with additional Ex-d (Flameproof) barrier using the compound.

Ex-d EXIOS Cable Glands

Ex-d Nickel Plated Brass & Stainless Steel Glands

Ex-e Nylon Glands

Ex-e Multi-Hole & Romex Glands

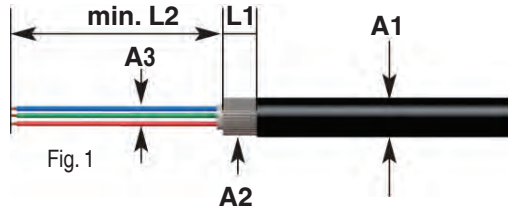
Ex-e Nickel Plated Brass & Stainless Steel Glands

Ex-e EMI / RFI Nickel Plated Brass Glands

Ex-e / Ex-d Accessories

Technical Information





Step 1

The cable is to be prepared as shown in Fig. 1. Measurements L1 should be followed. Measurement L1 can be found in Table 1 (Page 11). Choose measurement L2 depending on the installation.

Important

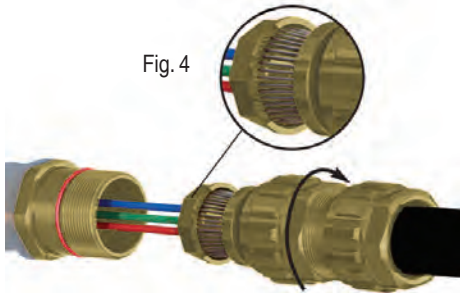
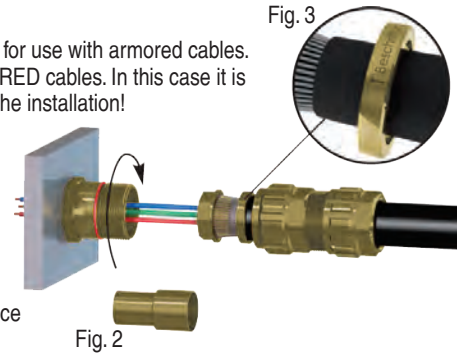
The Exios Barrier Cable Gland is typically designed for use with armored cables. However, it is also possible to use with NON-ARMORED cables. In this case it is important to use one clamping ring as a spacer for the installation!

Step 2

The cable gland is delivered with 2 armor clamping rings. Choose the appropriate clamping ring the other one must not be used. Remove the brass compound tube. After that, prepare the installation as in Fig. 2. Care should be taken with the correct installation of the armor clamping ring, Fig. 3.

Step 3

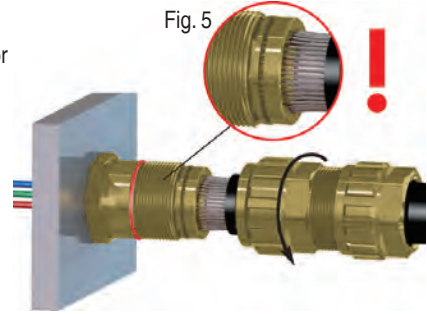
Install the entry component on the device or housing 11.06 Lb-Ft (15 Nm). The end-user is responsible for ensuring that, at the point of installation, the adapter for the entry component has been made ready in accordance with Regulations. The entry component can be provided with a locknut to keep it from working loose.



Step 4

Position the armor of the cable so that all parts of the armor are in contact with the armor cone (Fig. 4) and the ends of the armor touches the edge of the armor cone.

Now screw the gland body hand-tight onto the entry component. It helps if, while doing so, the cable is pushed slightly in towards the device or housing. Finally, with the appropriate open-ended spanner, tighten fast in order to securely clamp the armor.

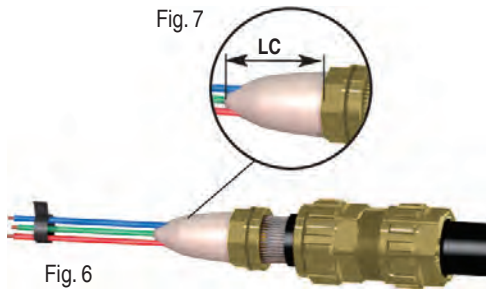


Step 5

Loosen the gland body and check for correct seating of the armor (Fig. 5). The armor must be firmly clamped. If needed, repeat Step 4.

Preparing the Compound:

Please check the compound's expiration date and take note of the contents of the attached Safety Data sheet. Use the protective gloves included, as well as suitable eye protection. The compound can be applied at temperatures between +10°C and +40°C. Application is ideally carried out at room temperature (+20°C). Processing time is approx. 15 min.



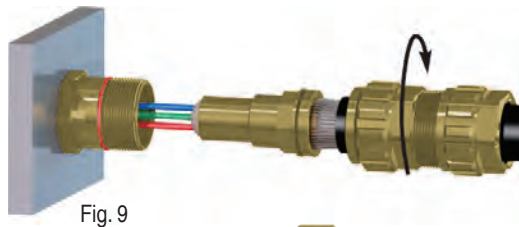
Step 6

Mix and knead the appropriate quantity of compound for the job until a completely uniform color is achieved. As in Fig. 6, apply the compound between and around the individual conductors. Filling the sleeve completely is easy if the compound has first been given a conical shape as shown in Fig. 7. The conductors can be fixed with tape to prevent them from moving out of place. Fig. 8.



Step 7

Push the sleeve and the armor cone together. This causes the compound to be compressed. Remove the excess compound. Care should be taken that sleeve has been filled to the end. If necessary, wipe the outside of the sleeve to keep the surface clean.

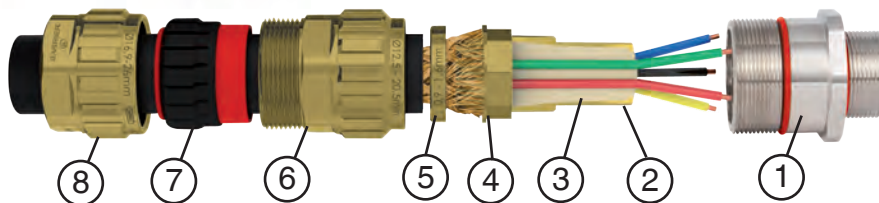
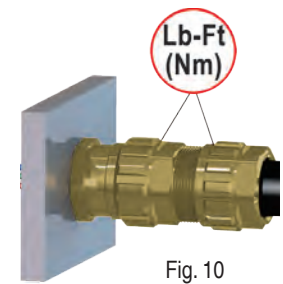


Step 8

Carefully insert the sleeve into the entry component.

Step 9

After the entry component and gland body have been threaded together, the dome nut can now be tightened. Start tightening by hand to speed up assembly time. Tighten using an open-ended spanner (4 Nm). Fig 9 & 10




Components

- 1. Entry Components
- 2. Compound Sleeve
- 3. Compound
- 4. Interlocking Armor Cone
- 5. Armor Clamping Ring
- 6. Gland Body
- 7. Outer Jacket Sealing
- 8. Dome Nut Top

For Armored Cable

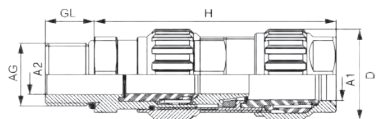
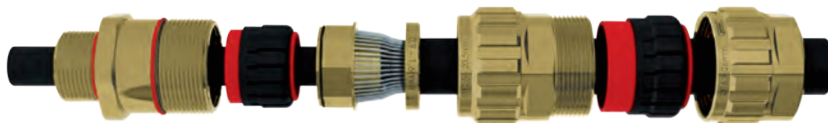
Raw Brass, Cable Gland EXIOS +Standard for Hazardous Duty Locations, Nylon 6 Clamping Insert, Silicone O-Ring/Seals, V2, UL94, IP 68, 5 bar

Part Numbers	Size Type	Thread Type & Size Page 59 for Thread Specs	Dimensions in Inches (mm) (See Diagram Below)							
			Clearance Hole +.01" (+.25 mm)	Cable Range A1	Cable Range A2	Armor Range	Thread Length GL	H (+Standard)	D	mm
										
YE09NK-BB	20 - 1	3/8" NPT*	.68 (17.2)	.24 - .47 (6 - 12)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	2.74 (69.5)	1.06 (27)	.87 (22)
YE13NM-BB	20 - 2	1/2" NPT*	.83 (21.1)	.35 - .63 (9 - 16)	.24 - .47 (6 - 12)	0 - 0.05 (0 - 1.25)	.79 (20)	2.93 (74.3)	1.14 (29)	.94 (24)
YE13NL-BB	20 - 3	1/2" NPT*	.83 (21.1)	.49 - .81 (12.5 - 20.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.79 (20)	3.17 (80.5)	1.38 (35)	1.18 (30)
YE21NK-BB	25	3/4" NPT*	1.05 (26.7)	.67 - 1.02 (16.9 - 26)	.49 - .81 (12.5 - 20.5)	0 - 0.06 (0 - 1.6)	.81 (20.5)	3.58 (91)	1.65 (42)	1.42 (36)
YE29NK-BB	32	1" NPT*	1.35 (34.3)	.87 - 1.30 (22 - 33)	.67 - 1.02 (16.9 - 26)	0 - 0.08 (0 - 2.0)	.98 (25)	3.78 (96)	2.05 (52)	1.81 (46)
YE29LK-BB	40	1-1/4" NPT*	1.65 (41.9)	1.10 - 1.61 (28 - 41)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	1.02 (26)	4.21 (107)	2.52 (64)	2.17 (55)
YE36NK-BB	40	1-1/2" NPT*	1.92 (48.7)	1.10 - 1.61 (28 - 41)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	1.04 (26.5)	4.21 (107)	2.52 (64)	2.17 (55)
YE50NK-BB	50	2" NPT*	2.375 (60.4)	1.42 - 2.07 (36 - 52.6)	1.14 - 1.75 (28.9 - 44.4)	0 - 0.10 (0 - 2.5)	1.06 (27)	5.18 (131.5)	2.87 (73)	2.56 (65)
YE52NK-BB	63	2-1/2" NPT*	2.875 (74.1)	1.81 - 2.57 (46 - 65.3)	1.57 - 2.22 (39.9 - 56.3)	0 - 0.10 (0 - 2.5)	1.57 (40)	5.69 (144.5)	3.54 (90)	3.15 (80)
YE30NK-BB	75	3" NPT*	3.50 (88.9)	2.24 - 3.07 (57 - 78)	1.99 - 2.69 (50.5 - 68.2)	0 - 0.10 (0 - 2.5)	1.63 (41.5)	6.06 (154)	4.21 (107)	3.74 (95)
YE16MK-BB	20 - 1	M16 x 1.5	.63 (16)	.24 - .47 (6 - 12)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	2.74 (69.5)	1.06 (27)	.87 (22)
YE20MK-BB	20 - 1	M20 x 1.5	.79 (20)	.24 - .47 (6 - 12)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	2.74 (69.5)	1.06 (27)	.87 (22)
YE20MM-BB	20 - 2	M20 x 1.5	.79 (20)	.35 - .63 (9 - 16)	.24 - .47 (6 - 12)	0 - 0.05 (0 - 1.25)	.63 (16)	2.93 (74.3)	1.14 (29)	.94 (24)
YE20ML-BB	20 - 3	M20 x 1.5	.79 (20)	.49 - .81 (12.5 - 20.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.63 (16)	3.17 (80.5)	1.38 (35)	1.18 (30)
YE25MK-BB	20 - 3	M25 x 1.5	.98 (25)	.49 - .81 (12.5 - 20.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.63 (16)	3.17 (80.5)	1.38 (35)	1.18 (30)
YE25MM-BB	25	M25 x 1.5	.98 (25)	.67 - 1.20 (16.9 - 26)	.49 - .81 (12.5 - 20.5)	0 - 0.06 (0 - 1.6)	.63 (16)	3.58 (91)	1.65 (42)	1.42 (36)
YE32MK-BB	32	M32 x 1.5	1.26 (32)	.87 - 1.30 (22 - 33)	.67 - 1.02 (16.9 - 26)	0 - 0.08 (0 - 2.0)	.63 (16)	3.78 (96)	2.05 (52)	1.81 (46)
YE40MK-BB	40	M40 x 1.5	1.57 (40)	1.10 - 1.61 (28 - 41)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	.63 (16)	4.21 (107)	2.52 (64)	2.17 (55)
YE50MK-BB	50	M50 x 1.5	1.97 (50)	1.42 - 2.07 (36 - 52.6)	1.14 - 1.75 (28.9 - 44.4)	0 - 0.10 (0 - 2.5)	.63 (16)	5.18 (131.5)	2.87 (73)	2.56 (65)
YE63MK-BB	63	M63 x 1.5	2.48 (63)	1.81 - 2.57 (46 - 65.3)	1.57 - 2.22 (39.9 - 56.3)	0 - 0.10 (0 - 2.5)	.63 (16)	5.69 (144.5)	3.54 (90)	3.15 (80)
YE75MK-BB	75	M75 x 1.5	2.95 (75)	2.24 - 3.07 (57 - 78)	1.99 - 2.69 (50.5 - 68.2)	0 - 0.10 (0 - 2.5)	.63 (16)	6.06 (154)	4.21 (107)	3.74 (95)

*All EXIOS in NPT do not come with an O-Ring

Materials Alternative Part Number Key (Last 2 letters)

Parts listed above are Raw Brass, as indicated by the part number ending BB. For **Nickel Plated Brass**, order part number ending BR. For **(316L) Stainless Steel**, order part number ending SS. For **Nickel Plated Brass Threads with Brass Body**, order part number ending B1. Accessories Available.



EXIOS Standards / Certificates

IEC 60079-0:2007-10	IEC 60079-1:2007-4	IEC 60079-7:2006-7	IEC 60079-31:2008	EN 60079-0:2009
EN 60079-1:2007	EN 60079-7:2007	EN 60079-31:2009	EN 60529	IECEx BVS 10.0078X
BVS-10-ATEX-E-062-X	AEX-13499-X	CSA:12.2557737X		

II 2G Ex de IIC Gb / II 1D Ex ta IIC Da

For Armored Cable

Raw Brass, Cable Gland EXIOS +MZ for Hazardous Duty Locations, Nylon 6 Clamping Insert, Silicone O-Ring/Seals, V2, UL94, IP 68, 5 bar

Part Numbers	Size Type	Thread Type & Size	Dimensions in Inches (mm) (See Diagram Below)								
			Clearance Hole +.01" (+.25 mm)	Cable Range A1	Cable Range A2	Armor Range	Thread Length GL	H (+MZ)	D	mm	
-76°F to 221°F (-60°C to 105°C)		Page 59 for Thread Specs									
YZ09NK-BB	20 - 1	3/8" NPT*	.68 (17.2)	.24 - .43 (6 - 11)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	3.11 (79)	1.06 (27)	.87 (22)	
YZ13NM-BB	20 - 2	1/2" NPT*	.83 (21.1)	.35 - .51 (9 - 13)	.24 - .47 (6 - 12)	0 - 0.05 (0 - 1.25)	.79 (20)	3.30 (83.8)	1.14 (29)	.94 (24)	
YZ13NL-BB	20 - 3	1/2" NPT*	.83 (21.1)	.49 - .69 (12.5 - 17.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.79 (20)	3.60 (91.5)	1.38 (35)	1.18 (30)	
YZ21NK-BB	25	3/4" NPT*	1.05 (26.7)	.67 - .94 (16.9 - 24)	.49 - .81 (12.5 - 20.5)	0 - 0.06 (0 - 1.6)	.81 (20.5)	4.16 (105.7)	1.65 (42)	1.42 (36)	
YZ29NK-BB	32	1" NPT*	1.35 (34.3)	.87 - 1.28 (22 - 32.5)	.67 - 1.02 (16.9 - 26)	0 - 0.08 (0 - 2.0)	.98 (25)	4.21 (107)	2.05 (52)	1.81 (46)	
YZ29LK-BB	40	1-1/4" NPT*	1.65 (41.9)	1.10 - 1.56 (28 - 39.5)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	1.02 (26)	4.21 (107)	2.52 (64)	2.17 (55)	
YZ36NK-BB	40	1-1/2" NPT*	1.92 (48.7)	1.10 - 1.56 (28 - 39.5)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	1.04 (26.5)	4.72 (120)	2.52 (64)	2.17 (55)	
YZ50NK-BB	50	2" NPT*	2.375 (60.4)	1.42 - 1.93 (36 - 49)	1.14 - 1.75 (28.9 - 44.4)	0 - 0.10 (0 - 2.5)	1.06 (27)	5.69 (144.5)	2.87 (73)	2.56 (65)	
YZ52NK-BB	63	2-1/2" NPT*	2.875 (74.1)	1.81 - 2.52 (46 - 64)	1.57 - 2.22 (39.9 - 56.3)	0 - 0.10 (0 - 2.5)	1.57 (40)	6.20 (157.5)	3.54 (90)	3.15 (80)	
YZ30NK-BB	75	3" NPT*	3.50 (88.9)	2.24 - 3.07 (57 - 78)	1.99 - 2.69 (50.5 - 68.2)	0 - 0.10 (0 - 2.5)	1.63 (41.5)	6.57 (167)	4.21 (107)	3.74 (95)	
YZ16MK-BB	20 - 1	M16 x 1.5	.63 (16)	.24 - .47 (6 - 12)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	3.11 (79)	1.06 (27)	.87 (22)	
YZ20MK-BB	20 - 1	M20 x 1.5	.79 (20)	.24 - .47 (6 - 12)	.12 - .32 (3 - 8.1)	0 - 0.05 (0 - 1.25)	.63 (16)	3.11 (79)	1.06 (27)	.87 (22)	
YZ20MM-BB	20 - 2	M20 x 1.5	.79 (20)	.35 - .63 (9 - 16)	.24 - .47 (6 - 12)	0 - 0.05 (0 - 1.25)	.63 (16)	3.30 (83.8)	1.14 (29)	.94 (24)	
YZ20ML-BB	20 - 3	M20 x 1.5	.79 (20)	.49 - .81 (12.5 - 20.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.63 (16)	3.60 (91.5)	1.38 (35)	1.18 (30)	
YZ25MK-BB	20 - 3	M25 x 1.5	.98 (25)	.49 - .81 (12.5 - 20.5)	.35 - .55 (9 - 14)	0 - 0.06 (0 - 1.4)	.63 (16)	3.60 (91.5)	1.38 (35)	1.18 (30)	
YZ25MM-BB	25	M25 x 1.5	.98 (25)	.67 - 1.20 (16.9 - 26)	.49 - .81 (12.5 - 20.5)	0 - 0.06 (0 - 1.6)	.63 (16)	4.16 (105.7)	1.65 (42)	1.42 (36)	
YZ32MK-BB	32	M32 x 1.5	1.26 (32)	.87 - 1.30 (22 - 33)	.67 - 1.02 (16.9 - 26)	0 - 0.08 (0 - 2.0)	.63 (16)	4.21 (107)	2.05 (52)	1.81 (46)	
YZ40MK-BB	40	M40 x 1.5	1.57 (40)	1.10 - 1.61 (28 - 41)	.87 - 1.30 (22 - 33)	0 - 0.08 (0 - 2.0)	.63 (16)	4.72 (120)	2.52 (64)	2.17 (55)	
YZ50MK-BB	50	M50 x 1.5	1.97 (50)	1.42 - 2.07 (36 - 52.6)	1.14 - 1.75 (28.9 - 44.4)	0 - 0.10 (0 - 2.5)	.63 (16)	5.69 (144.5)	2.87 (73)	2.56 (65)	
YZ63MK-BB	63	M63 x 1.5	2.48 (63)	1.81 - 2.57 (46 - 65.3)	1.57 - 2.22 (39.9 - 56.3)	0 - 0.10 (0 - 2.5)	.63 (16)	6.20 (157.5)	3.54 (90)	3.15 (80)	
YZ75MK-BB	75	M75 x 1.5	2.95 (75)	2.24 - 3.07 (57 - 78)	1.99 - 2.69 (50.5 - 68.2)	0 - 0.10 (0 - 2.5)	.63 (16)	6.57 (167)	4.21 (107)	3.74 (95)	

*All EXIOS in NPT do not come with an O-Ring

Materials Alternative Part Number Key (Last 2 letters)

Parts listed above are Raw Brass, as indicated by the part number ending BB. For Nickel Plated Brass, order part number ending BR. For (316L) Stainless Steel, order part number ending SS. For Nickel Plated Brass Threads with Brass Body, order part number ending B1. Accessories Available.



EXIOS Standards / Certificates

IEC 60079-0:2007-10	IEC 60079-1:2007-4	IEC 60079-7:2006-7	IEC 60079-31:2008	EN 60079-0:2009
EN 60079-1:2007	EN 60079-7:2007	EN 60079-31:2009	EN 60529	IECEx BVS 10.0078X
BVS-10-ATEX-E-062-X	AEX-13499-X	CSA:12.2557737X		

Ex-d EXIOS Cable Glands

Ex-cu Nickel Plated Brass & Stainless Steel Glands

Nylon Glands

Ex-e Multi-Hole & Romex Glands

Ex-e Nickel Plated Brass & Stainless Steel Glands

Ex-e EMI / RFI Nickel Plated Brass Glands

Ex-e / Ex-d Accessories

Technical Information

Ex-d EXIOS Cable Glands

Ex-d Nickel Plated Brass & Stainless Steel Glands

Ex-e Nylon Glands

Ex-e Multi-Hole & Romex Glands

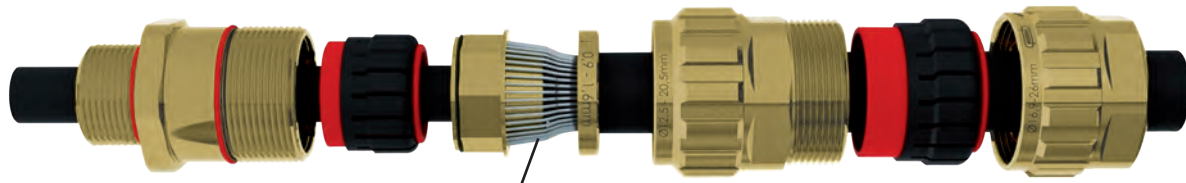
Ex-e Nickel Plated Brass & Stainless Steel Glands

Ex-e EMI / RFI Nickel Plated Brass Glands

Ex-e / Ex-d Accessories

Technical Information

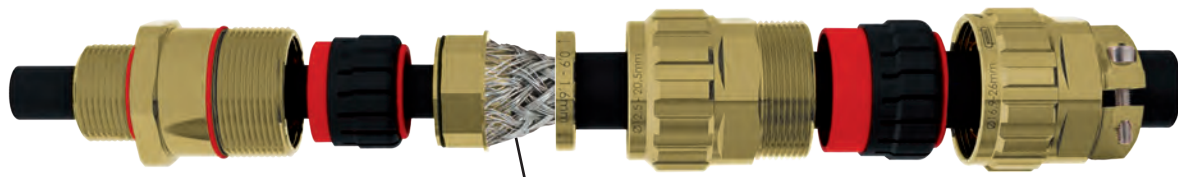
EXIOS **(YE-) Double Compression Gland**



Armor Options: Braid, Single Wire and Tape Armor

Time-proven Hummel clamping system. Innovative Interlocking Armor Cone for zero torsion on cable cores and armor. Armor acceptance from 0 - 2.5 mm (0.1"). Fast and easy assembly by hand, by use of profile material with maximum grip.

EXIOS **(YZ-) Double Compression Gland with Additional Torque Prevention Clamp**



Armor Options: Braid, Single Wire and Tape Armor

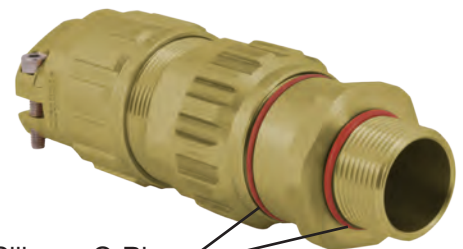
The MZ Clamp helps prevent shield or wire armor from shearing off under excessive cable torque.



Improved Pull-Out Resistance & Stronger Grip on Jacket



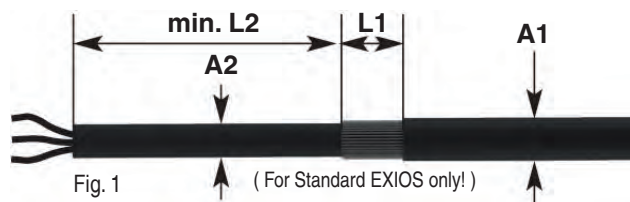
Nickel Plated Brass Option



Silicone O-Rings

Step 1

The cable is to be prepared as shown in Fig. 1. Measurement L1 should be followed as shown in Table 1. Choose measurement L2 depending on the application. The inner cable jacket must be free of damage and should extend beyond the cable gland.



Step 2

The cable gland is delivered with 2 armor clamping rings. Choose the appropriate clamping ring as per Table 1; the other ring will not be used. Prepare the installation as shown in Fig. 2. Care should be taken with the correct installation of the clamping ring, Fig. 3.



Fig. 2

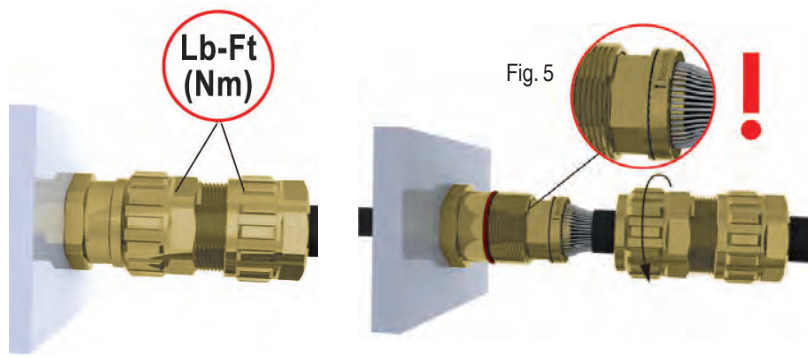
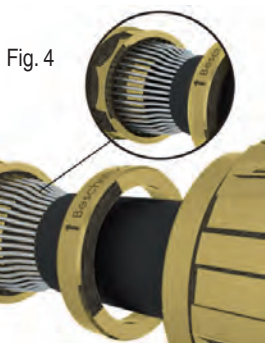
Step 3

Install the entry component on the device or housing in question 11.06 Lb-Ft (15 Nm). The end-user is responsible for ensuring that, at the point of installation, the adapter for the entry component has been made ready in accordance with Regulations. The entry component can be provided with a locknut to keep it from working loose.

Step 4

Position the armour of the cable so that all parts of the armor are in contact with the armor cone (Fig. 4) and the ends of the armour touches the edge of the armor cone.

Screw the gland body hand-tight onto the entry component. It helps if, while doing so, the cable is pushed slightly in towards the device or housing. Finally, with the appropriate open-ended spanner, tighten roughly 1/2 a turn more to securely clamp the armour.



Step 5

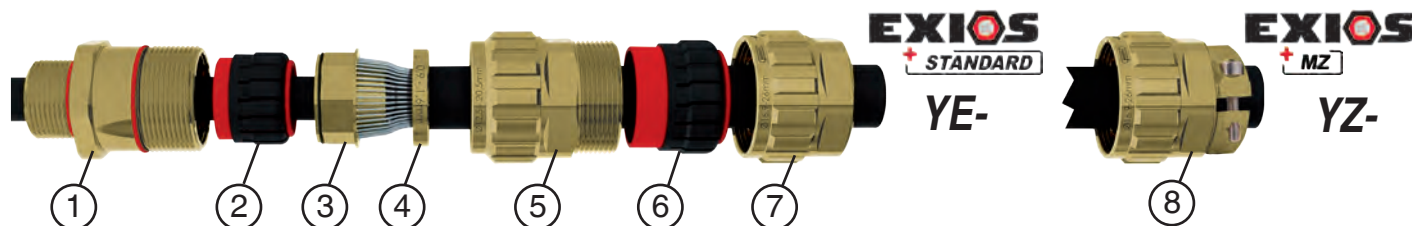
Loosen the gland body and check for correct seating of the armor (Fig. 5). The armor must be firmly clamped. If needed, repeat step 4. The o-ring on the armor cone is only for ease of installation. Damage or removal does not affect the function of the gland.

Step 6

After the entry component and gland body have been threaded together as per Step 4 Lb-Ft (Nm), the dome nut can now be tightened. Start tightening by hand to speed up assembly. Tighten using an open-ended spanner (Nm).

Step 7

Tighten 2 screws on MZ Clamp (YZ Only)



Components

- | | | | |
|-------------------------|----------------------------|-------------------------|-----------------|
| 1. Entry Components | 3. Interlocking Armor Cone | 5. Gland Body | 7. Dome Nut Top |
| 2. Inter Jacket Sealing | 4. Armor Clamping Ring | 6. Outer Jacket Sealing | 8. MZ Clamp |


Table 1

Size Type	Thread Type & Size		Dimensions in Inches (mm)	
	NPT	Metric	L1	* L2
20 - 1		M16 x 1.5	.79 (20)	.98 (25)
		M20 x 1.5		
20 - 2	1/2" NPT	M20 x 1.5	.79 (20)	1.38 (35)
20 - 3		M20 x 1.5	.79 (20)	1.38 (35)
		M25 x 1.5		
25	3/4" NPT	M25 x 1.5	.79 (20)	1.38 (35)
32	1" NPT	M32 x 1.5	1.18 (30)	1.38 (35)
40	1-1/4" NPT	M40 x 1.5	1.18 (30)	1.38 (35)
40	1-1/2" NPT	M40 x 1.5	1.18 (30)	1.38 (35)
50	2" NPT	M50 x 1.5	1.38 (35)	1.77 (45)
63	2-1/2" NPT	M63 x 1.5	1.57 (40)	1.77 (45)
75	3" NPT	M75 x 1.5	1.77 (45)	1.77 (45)

* Length depends on installation or customer preference

For Non-Armored Cable

Raw Brass, Cable Glands EXIOS +A2F for Non-Armored Hazardous Duty Locations, Nylon 6 Clamping Insert, Silicone O-Ring & Seals, Protection Class V2, UL94, IP 66/67/68, 5 bar

Part Numbers	Gland Size	Thread Type	Dimensions in Inches (mm)					
			Clearance Hole +.01" (+.25 mm)	Cable Range Ø A1	Thread Length GL	H max	D	mm
		Page 59 for Thread Specs						
YA09NK-BB	20 - 1	3/8" NPT*	.68 (17.2)	24 - .47 (6 - 12)	.63 (16)	1.40 (35.6)	1.06 (27)	.87 (22)
YA13NK-BB	20 - 1	1/2" NPT*	.83 (21.1)	24 - .47 (6 - 12)	.79 (20)	1.40 (35.6)	1.14 (29)	.87 (24)
YA13NM-BB	20 - 2	1/2" NPT*	.83 (21.1)	.35 - .63 (9 - 16)	.79 (20)	1.44 (36.5)	1.06 (27)	.94 (24)
YA21NK-BB	20 - 3	3/4" NPT*	1.05 (26.7)	.49 - .81 (12.5 - 20.5)	.81 (20.5)	1.87 (47.5)	1.38 (35)	1.18 (30)
YA29NK-BB	25	1" NPT*	1.35 (34.3)	.67 - 1.02 (16.9 - 26)	.98 (25)	1.88 (47.8)	1.65 (42)	1.42 (36)
YA29LK-BB	32	1 1/4" NPT*	1.65 (41.9)	.87 - 1.30 (22 - 33)	1.02 (26)	2.01 (51.1)	2.05 (52)	1.81 (46)
YA36NK-BB	40	1 1/2" NPT*	1.92 (48.7)	1.10 - 1.61 (28 - 41)	1.04 (26.5)	2.24 (56.8)	2.52 (64)	2.17 (55)
YA50NK-BB	50	2" NPT*	2.375 (60.4)	1.57 - 2.07 (40 - 52.6)	1.06 (27)	2.57 (65.4)	2.87 (73)	2.56 (65)
YA52NK-BB	63	2 1/2" NPT*	2.875 (74.1)	2.01 - 2.40 (51 - 61)	1.57 (40)	2.77 (70.3)	3.54 (90)	3.15 (80)
YA30NK-BB	75	3" NPT*	3.50 (88.9)	2.44 - 3.07 (62 - 78)	1.63 (41.5)	3.00 (76.2)	4.21 (107)	3.74 (95)
YA16MK-BB	20 - 1	M16 x 1.5	.63 (16)	24 - .47 (6 - 12)	.63 (16)	1.40 (35.6)	1.06 (27)	.87 (22)
YA20MK-BB	20 - 1	M20 x 1.5	.79 (20)	24 - .47 (6 - 12)	.63 (16)	1.40 (35.6)	1.06 (27)	.87 (22)
YA20MM-BB	20 - 2	M20 x 1.5	.79 (20)	.35 - .63 (9 - 16)	.63 (16)	1.56 (39.7)	1.14 (29)	.94 (24)
YA25MK-BB	20 - 3	M25 x 1.5	.98 (25)	.49 - .81 (12.5 - 20.5)	.63 (16)	1.87 (47.5)	1.38 (35)	1.18 (30)
YA32MK-BB	25	M32 x 1.5	.98 (25)	.67 - 1.02 (16.9 - 26)	.63 (16)	1.88 (47.8)	1.65 (42)	1.42 (36)
YA40MK-BB	32	M40 x 1.5	1.57 (40)	.87 - 1.30 (22 - 33)	.63 (16)	2.01 (51.1)	2.05 (52)	1.81 (46)
YA50MK-BB	40	M50 x 1.5	1.97 (50)	1.10 - 1.61 (28 - 41)	.63 (16)	2.24 (56.8)	2.52 (64)	2.17 (55)
YA63MK-BB	50	M63 x 1.5	2.48 (63)	1.57 - 2.07 (40 - 52.6)	.63 (16)	2.57 (65.4)	2.87 (73)	2.56 (65)
YA75MK-BB	63	M75 x 1.5	2.95 (75)	2.01 - 2.57 (51 - 65.3)	.63 (16)	2.77 (70.3)	3.54 (90)	3.15 (80)
YA90MK-BB	75	M90 x 2.0	3.74 (90)	2.44 - 3.07 (62 - 78)	.79 (20)	3.00 (76.2)	4.21 (107)	3.74 (95)

*All EXIOS in NPT do not come with an O-Ring

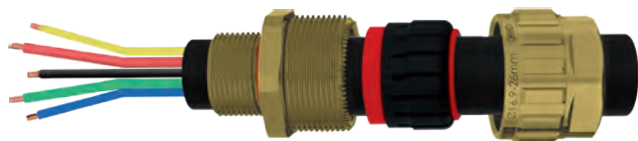
Materials Alternative Part Number Key (Last 2 letters)

Parts listed above are Raw Brass, as indicated by the part number ending BB. For **Nickel Plated Brass**, order part number ending BR. For **(316L) Stainless Steel**, order part number ending SS. For **Nickel Plated Brass Threads with Brass Body**, order part number ending B1. Accessories Available.

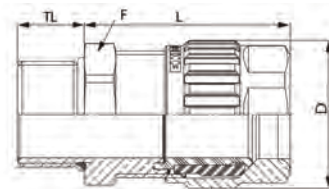
With the EXIOS A2F, HUMMEL continues to follow the successful design of the EXIOS range of cable glands. This model is especially designed for unarmored and braided cables for the use in hazardous areas (cUS), Class 1, Zone 1, Zone 2, Zone 20, Zone 21 and Zone 22, where durability and quality is a must. Braid and cable jacket are fed into the Enclosure where the braid must be terminated inside.

The EXIOS A2F incorporates the time-proven Hummel clamping system, which offers a large clamping range in a small gland size. A smaller gland size can often be more cost effective.

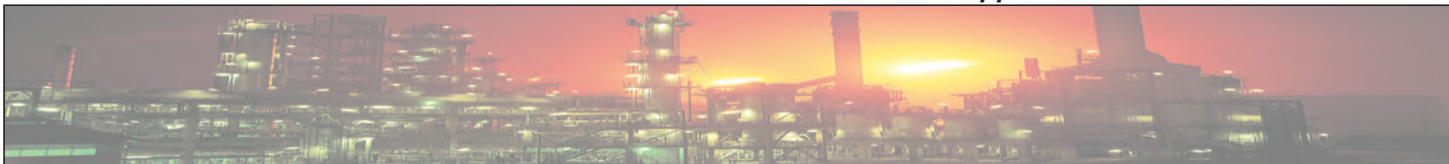
- Halogen-free and Phosphorous-free
- Silicone Seal and O-Ring are standard



EXIOS
 + A2F
YA-



This Gland can also be used in Non-Hazardous applications!



EXIOS A2F / Certificates

IEC 60079-0 / 2007	IEC 60079-1 / 2007	IEC 60079-7 / 2006	IEC 60079-31 / 2008	EN 60079-0 / 2009	EN 60079-1 / 2007
EN 60079-7 / 2007	EN 60079-31 / 2009	EN 60529	IECEx Nr. DEK 12.0039X	ATEX Nr. DEKRA 12ATEX0139 X	CSA: 12.2557737X

For Non-Armored Cable

CAGE 0 UE11

Technical Description

- Ex-d Cable Glands for non-armored cable - Cost Saving Option!
- Large Cable Range: 0.08" - 1.26" (2 - 32 mm)
- NEMA 4x & 6 (IP 67 & 68) - Liquid Tight - Submersible to 300 ft!
- Form Seal allows 150 PSIG (10 BAR) rating - Highest in Industry!
- IP 69K rated - Ideal in splash or hose down applications!
- Non-Corrosive: Resistant to salt water, weak acids, weak alkalis, alcohol, esters, ketones, ether, gasoline, mineral, animal & vegetable oil
- Approvals & Certifications - ATEX/IECEX, CE, Gost and German Lloyd!
- RoHS & Deca BDE - Environmentally Compliant to the newest standards!

Ref. Standards
EN 60079-0
EN 60079-1
EN 60079-7
EN 60079-31

Your One Stop Solution For All Cable & Wire Accessories!



Cable Protection

Overlapping clamping splines apply a concentric force to the cable.

Unique Product

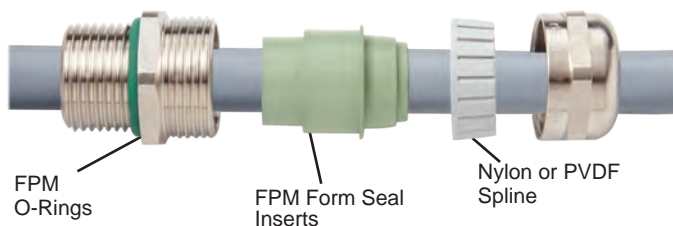
The high performance elongated green FPM seal guarantees NEMA 4x & 6 (IP 68 / IP 69K) at 150 PSIG (10 BAR).

Liquid Tight

Machined O-Ring Groove: All of our Metal Cable Glands come with an O-Ring, resulting in a liquid tight seal between fitting and installation.

Time Saving Installation



Simply push the cable through Cable Gland
Tighten Dome Nut...Done!
No disassembly of the Cable Glands required!



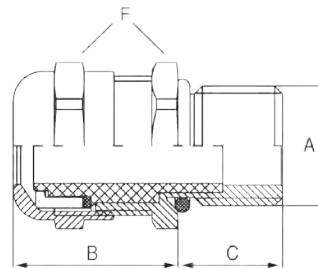
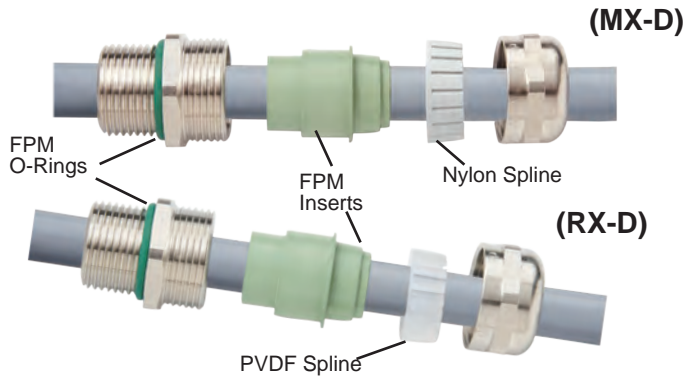
Ex-d Hex Plugs
Available in PG and Metric sizes.

Ex-d EXIOS Cable Glands
Ex-d Nickel Plated Brass & Stainless Steel Glands
Ex-e Nylon Glands
Ex-e Multi-Hole & Romex Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information

For Non-Armored Cable

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-76°F to 221°F (-60°C to 105°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F
 (Low Temp. - Nylon Spline)	 (PVDF Spline)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length	Wrench Flats
CC09NA-MX-D	CD09NA-RX-D	.20 - .39 (5 - 10)	3/8" NPT	.68 (17.2)	.87 (22)	.63 (16)	.79 (20)
CC09NR-MX-D	CD09NR-RX-D	.12 - .28 (3 - 7)					
CC16NA-MX-D	CD16NA-RX-D	.39 - .55 (10 - 14)	1/2" NPT	.83 (21.1)	.98 (25)	.79 (20)	.94 (24)
CC16NR-MX-D	CD16NR-RX-D	.28 - .47 (7 - 12)					
CC21NA-MX-D	CD21NA-RX-D	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.04 (26.5)	.81 (20.5)	1.18 (30)
CC21NR-MX-D	CD21NR-RX-D	.35 - .63 (9 - 16)					
CC29NA-MX-D	-	.71 - .98 (18 - 25)	1" NPT	1.31 (33.4)	1.26 (32)	.98 (25)	1.57 (40)
CC29NR-MX-D	-	.55 - .79 (14 - 20)					
CC29LA-MX-D	-	.87 - 1.26 (22 - 32)	1-1/4" NPT	1.65 (41.9)	1.52 (38.5)	1.02 (26)	1.97 (50)
CC29LR-MX-D	-	.79 - 1.02 (20 - 26)					
CC36NA-MX-D	-	.87 - 1.26 (22 - 32)	1-1/2" NPT	1.92 (48.7)	1.52 (38.5)	1.04 (26.5)	1.97 (50)
CC36NR-MX-D	-	.79 - 1.02 (20 - 26)					
CC12MA-MX-D	CD12MA-RX-D	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	.75 (19)	.63 (16)	.55 (14)
CC12MR-MX-D	CD12MR-RX-D	.08 - .20 (2 - 5)					
CC17MA-MX-D	CD17MA-RX-D	.20 - .39 (5 - 10)	M16 x 1.5	.63 (16)	.87 (22)	.63 (16)	.79 (20)
CC17MR-MX-D	CD17MR-RX-D	.12 - .28 (3 - 7)					
CC22MA-MX-D	CD22MA-RX-D	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	.98 (25)	.63 (16)	.94 (24)
CC22MR-MX-D	CD22MR-RX-D	.28 - .47 (7 - 12)					
CC25MA-MX-D	CD25MA-RX-D	.51 - .71 (13 - 18)	M25 x 1.5	.98 (25)	1.04 (26.5)	.63 (16)	1.18 (30)
CC25MR-MX-D	CD25MR-RX-D	.35 - .63 (9 - 16)					
CC32MA-MX-D	CD32MA-RX-D	.71 - .98 (18 - 25)	M32 x 1.5	1.26 (32)	1.26 (32)	.63 (16)	1.57 (40)
CC32MR-MX-D	CD32MR-RX-D	.55 - .79 (14 - 20)					
CC40MA-MX-D	CD40MA-RX-D	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	1.52 (38.5)	.63 (16)	1.97 (50)
CC40MR-MX-D	CD40MR-RX-D	.79 - 1.02 (20 - 26)					

* C € applies only to MX-D Nylon spline style cable glands




Suggested Clearance Hole for Non-Threaded Mounting

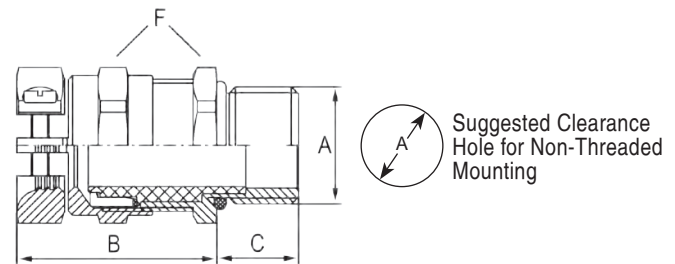
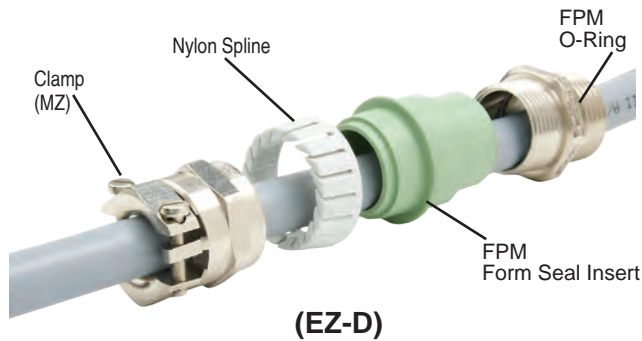
Longer Threads: All Ex-d EXIOS & Standard style cable glands have longer threads to meet the new five thread engagement requirement. Metric threads require eight threads of engagement. Manufactured according to EN 60079-1 or IEC 60079-1, which addresses the ANSI B1.20.1/.1.20.3. ANSI. NPT cable glands do not come with an O-Ring.



For Non-Armored Cable

Ex-d/Ex-e Nickel Plated Brass, Cable Glands for Hazardous Duty Locations, with Clamp, Nylon Spline with FPM Insert, IP 68/69K, 10 BAR

Part Numbers	Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
			A	B	C	F
-76°F to 221°F (-60°C to 105°C)			Clearance Hole	Body Length	Thread Length	Wrench Flats
 (Low Temp. - Nylon Spline)	Inches (mm)	Page 59 for Thread Specs	+ .01" (+.25 mm)	(Clamp)		
CC09NA-EZ-D	.20 - .39 (5 - 10)	3/8" NPT	.68 (17.2)	1.18 (30)	.63 (16)	.79 (20)
CC16NA-EZ-D	.39 - .55 (10 - 14)	1/2" NPT	.83 (21.1)	1.34 (34)	.79 (20)	.94 (24)
CC21NA-EZ-D	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.50 (38)	.81 (20.5)	1.18 (30)
CC29NA-EZ-D	.71 - .98 (18 - 25)	1" NPT	1.35 (34.3)	1.73 (44)	.98 (25)	1.57 (40)
CC29LA-EZ-D	.87 - 1.26 (22 - 32)	1 1/4" NPT	1.65 (41.9)	2.03 (51.5)	1.02 (26)	1.97 (50)
CC36NA-EZ-D	.87 - 1.26 (22 - 32)	1 1/2" NPT	1.92 (48.7)	2.03 (51.5)	1.04 (26.5)	1.97 (50)
CC12MA-EZ-D	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	1.02 (26)	.63 (16)	.55 (14)
CC17MA-EZ-D	.20 - .39 (5 - 10)	M16 x 1.5	.63 (16)	1.18 (30)	.63 (16)	.79 (20)
CC22MA-EZ-D	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	1.34 (34)	.63 (16)	.94 (24)
CC25MA-EZ-D	.51 - .71 (13 - 18)	M25 x 1.5	.98 (25)	1.50 (38)	.63 (16)	1.18 (30)
CC32MA-EZ-D	.71 - .98 (18 - 25)	M32 x 1.5	1.26 (32)	1.73 (44)	.63 (16)	1.57 (40)
CC40MA-EZ-D	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	2.03 (51.5)	.63 (16)	1.97 (50)



Nickel Plated Brass with MZ Clamps

- Extra Pull-out Resistance
- Liquid Tight to IP68/NEMA 6



Longer Threads: All Ex-d Standard style cable glands have longer threads to meet the five thread engagement requirement. Metric threads require eight threads of engagement. Manufactured according to EN 60079-1 or IEC 60079-1, which addresses the ANSI B1.20.1./1.20.3. ANSI. NPT cable glands do not come with an O-Ring.

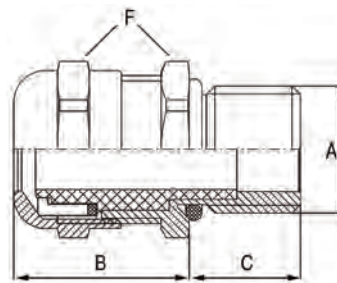
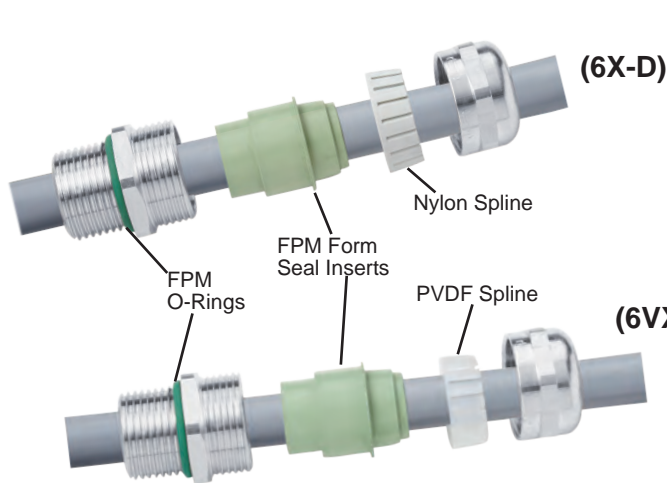


Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

Ex-d/Ex-e (316L) Stainless Steel (INOX) Cable Glands for Hazardous Duty Locations, Nylon/PVDF Spline with FPM Inserts, IP 68/69K, 10 BAR

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-76°F to 221°F (-60°C to 105°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F
 (Low Temp. - Nylon Spline)	 (PVDF Spline)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole +.01" (+.25 mm)	Body Length (Dome)	Thread Length	Wrench Flats
CC09NA-6X-D	CD09NA-6VX-D	.20 - .39 (5 - 10)	3/8" NPT	.68 (17.2)	.87 (22)	.63 (16)	.79 (20)
CC09NR-6X-D	CD09NR-6VX-D	.12 - .28 (3 - 7)					
CC16NA-6X-D	CD16NA-6VX-D	.39 - .55 (10 - 14)					
CC16NR-6X-D	CD16NR-6VX-D	.28 - .47 (7 - 12)	1/2" NPT	.83 (21.1)	.98 (25)	.79 (20)	.94 (24)
CC21NA-6X-D	CD21NA-6VX-D	.51 - .71 (13 - 18)					
CC21NR-6X-D	CD21NR-6VX-D	.35 - .63 (9 - 16)	3/4" NPT	1.05 (26.7)	1.04 (26.5)	.81 (20.5)	1.18 (30)
CC12MA-6X-D	CD12MA-6VX-D	.12 - .26 (3 - 6.5)					
CC12MR-6X-D	CD12MR-6VX-D	.08 - .20 (2 - 5)	M12 x 1.5	.47 (12)	.75 (19)	.63 (16)	.55 (14)
CC17MA-6X-D	CD17MA-6VX-D	.20 - .39 (5 - 10)	M16 x 1.5	.63 (16)	.87 (22)	.63 (16)	.79 (20)
CC17MR-6X-D	CD17MR-6VX-D	.12 - .28 (3 - 7)					
CC22MA-6X-D	CD22MA-6VX-D	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	.98 (25)	.63 (16)	.94 (24)
CC22MR-6X-D	CD22MR-6VX-D	.28 - .47 (7 - 12)					
CC25MA-6X-D	CD25MA-6VX-D	.51 - .71 (13 - 18)	M25 x 1.5	.98 (25)	1.04 (26.5)	.63 (16)	1.18 (30)
CC25MR-6X-D	CD25MR-6VX-D	.35 - .63 (9 - 16)					
CC32MA-6X-D	CD32MA-6VX-D	.71 - .98 (18 - 25)	M32 x 1.5	1.26 (32)	1.26 (32)	.63 (16)	1.57 (40)
CC32MR-6X-D	CD32MR-6VX-D	.55 - .79 (14 - 20)					
CC40MA-6X-D	CD40MA-6VX-D	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	1.52 (38.5)	.63 (16)	1.97 (50)
CC40MR-6X-D	CD40MR-6VX-D	.79 - 1.02 (20 - 26)					



Suggested Clearance Hole for Non-Threaded Mounting



Longer Threads: All Ex-d EXIOS & Standard style cable glands have longer threads to meet the new five thread engagement requirement. Metric threads require eight threads of engagement. Manufactured according to EN 60079-1 or IEC 60079-1, which addresses the ANSI B1.20.1./1.20.3. ANSI. NPT cable glands do not come with an O-Ring.

For Non-Armored Cable

Technical Description

UL/UR E103997
 CSA 104031
 CAGE 0 UE11

Ref. Standards
 DIN EN 60079-0
 DIN EN 60079-7

- Ex-e Cable Glands for non-armored cable - Cost Saving Option!
- International Approvals - cUS/ATEX/IECEX, UL/UR, CE, CSA, Gost and German Lloyd!
- NEMA 4x & 6 (IP 67 & 68) - Liquid Tight - Submersible to 300 ft!
- IP 69K rated - Ideal in splash or hose down applications!
- Patented Form Seal allows 150 PSIG (10 BAR) rating - Highest in Industry!
- V0 flame rating according to UL 94 – Halogen & Phosphorous Free – non toxic!
- UV/Ozone stable Black Nylon UL f1 (746C) – Ideal Outdoors (RTU/SCADA)!
- Concentric O-Ring Groove – for some NEMA applications!
- Safety Ratchet - Prevents Dome top from coming loose under vibration!
- Large selection in Black, Gray & Blue - Cable Range from .08 - 1.73" (2 - 44 mm)
- Non-Corrosive - Resistant to salt water, weak acids, weak alkalis, alcohol, esters, ketones, ether, gasoline, mineral, animal & vegetable oil
- RoHS & Deca BDE - Environmentally Compliant!



Your One Stop Solution For All Cable & Wire Accessories!



Pull-out Resistance & Cable Protection

Overlapping clamping splines apply a concentric force, preventing the form seal from being pulled out of the fitting. This ensures pull-out protection without damage to the cable.

Durable - Rugged Construction!

The self locking ACME thread prevents the dome nut from disengaging under extreme lateral force.

Liquid Tight

Molded groove for standard O-Ring. An O-Ring results in a secure liquid tight seal between fitting and housing. All fittings come with an O-Ring!



Fiber Reinforced Nylon

Our BXA Cable Glands are built to withstand the Highest Impact Resistance! (See pages 18-19)

Time Saving Installation

Simply push the cable through cable glands - Tighten dome nut - Done!
 No disassembly of the cable glands required.

Multi-Hole & Romex® Form Seal Inserts

UL f1 (746C)

All Black Nylon Dome Cable Glands, are made with UV / Ozone Stable material.



Nylon CP Clamps (High Pull-out Resistance)



Unique Solution to prevent excessive cable torque.

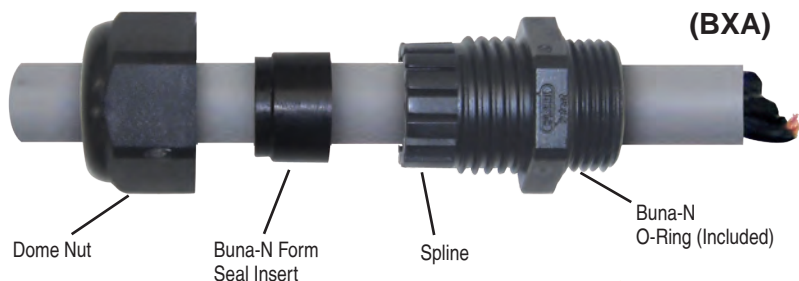


Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Ex-g Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

Fiber Reinforced Nylon, Cable Glands for Hazardous Duty Locations, Black, V0, UL94, NEMA 6, IP 68, 150 PSIG, 10 BAR, DIN EN 60079-0: 2012

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 185°F (-20°C to 85°C)	-4°F to 185°F (-20°C to 85°C)			A	B	C	D	F ₁ /F
 (Standard)	 (Elongated)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length (Standard)	Thread Length (Elongated)	Wrench Flats
CD12MA-BXA	CD12DA-BXA	.12 - .26 (3 - 6.5)		M12 x 1.5	.47 (12)	.83 (21)	.31 (8)	.59 (15)
CD12MR-BXA	CD12DR-BXA	.08 - .20 (2 - 5)	M16 x 1.5	.63 (16)	.87 (22)	.31 (8)	.59 (15)	.75 (19)
CD16MA-BXA	CD16DA-BXA	.16 - .31 (4 - 8)						
CD16MR-BXA	CD16DR-BXA	.12 - .24 (3 - 6)	M16 x 1.5	.63 (16)	.98 (25)	.31 (8)	.59 (15)	.87 (22)
CD17MA-BXA	CD17DA-BXA	.20 - .39 (5 - 10)						
CD17MR-BXA	CD17DR-BXA	.12 - .28 (3 - 7)	M20 x 1.5	.79 (20)	1.06 (27)	.35 (9)	.59 (15)	.94 (24)
CD20MA-BXA	CD20DA-BXA	.26 - .47 (6.5 - 12)						
CD20MR-BXA	CD20DR-BXA	.20 - .35 (5 - 9)	M20 x 1.5	.79 (20)	1.10 (28)	.35 (9)	.59 (15)	1.06 (27)
CD22MA-BXA	CD22DA-BXA	.39 - .55 (10 - 14)						
CD22MR-BXA	CD22DR-BXA	.28 - .47 (7 - 12)	M25 x 1.5	.98 (25)	1.22 (31)	.43 (11)	.59 (15)	1.30 (33)
CD25MA-BXA	CD25DA-BXA	.51 - .71 (13 - 18)						
CD25MR-BXA	CD25DR-BXA	.35 - .63 (9 - 16)	M32 x 1.5	1.26 (32)	1.53 (39)	.43 (11)	.59 (15)	1.65 (42)
CD32MA-BXA	CD32DA-BXA	.71 - .98 (18 - 25)						
CD32MR-BXA	CD32DR-BXA	.51 - .79 (13 - 20)	M40 x 1.5	1.57 (40)	1.88 (48)	.51 (13)	.71 (18)	2.09 (53)
CD40MA-BXA	CD40DA-BXA	.87 - 1.26 (22 - 32)						
CD40MR-BXA	CD40DR-BXA	.79 - 1.02 (20 - 26)	M50 x 1.5	1.97 (50)	1.93 (49)	.51 (13)	.71 (18)	2.36 (60)
CD50MA-BXA	CD50DA-BXA	1.26 - 1.50 (32 - 38)						
CD50MR-BXA	CD50DR-BXA	.98 - 1.22 (25 - 31)	M63 x 1.5	2.48 (63)	1.93 (49)	.55 (14)	.71 (18)	2.56 (65) / 2.68 (68)
CD63MA-BXA	CD63DA-BXA	1.46 - 1.73 (37 - 44)						
CD63MR-BXA	CD63DR-BXA	1.14 - 1.38 (29 - 35)						



The **Fiber Reinforced Nylon Cable Gland** has been designed for applications in electrical equipment, which require Ex-e and Ex-ta types of protection according to the latest standards in Class I, Div 2, Class I, Div 1, Zones 1, 2, 20, 21, 22

CSA Certificate:
70010389

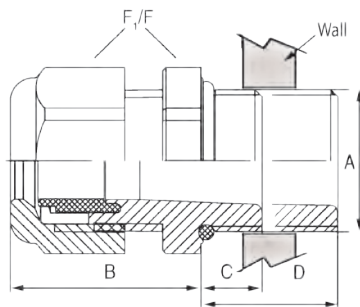
CSA Approvals:
cUS Class 1 & Div 2
cUS Class 2 & Div 1
cUS Zone 1



ATEX Certificate:
BVS 14 ATEX E 025 X

IECEx Certificate of Conformity:
IECEx BVS 14.0020X


According to the latest EN Standards:
 EN 60079-0:2012 IEC 60079-0:2011
 EN 60079-7:2007 IEC 60079-7:2015
 EN 60079-31:2014 IEC 60079-31:2008



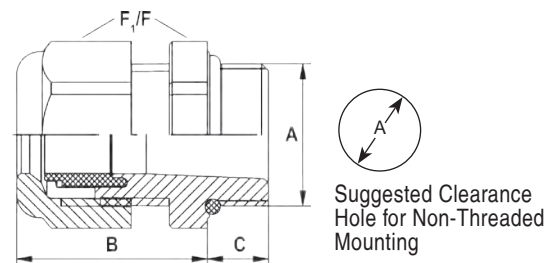
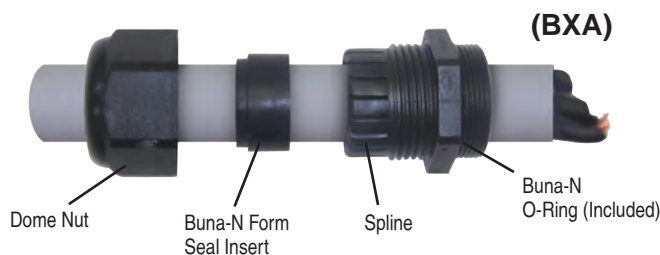
Elongated Thread is recommended where the Cable Gland has to pass through a thick wall or the application needs Extra Thread Length.

For Non-Armored Cable

Fiber Reinforced Nylon, Cable Glands for Hazardous Duty Locations, Black, V0, UL94, NEMA 6, IP 68, 150 PSIG, 10 BAR, DIN EN 60079-0: 2012

Part Numbers	Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
			A	B	C	F ₁ /F
-4°F to 185°F (-20°C to 85°C)			Clearance Hole	Body Length	Thread Length	Wrench Flats
 (Standard)	Inches (mm)	Page 59 for Thread Specs	+ .01" (+.25 mm)	(Dome)	(Standard)	
CD09NA-BXA	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	.87 (22)	.59 (15)	.74 (19) / .87 (22)
CD09NR-BXA	.08 - .24 (2 - 6)					
CD13NA-BXA	.24 - .47 (6 - 12)	1/2" NPT	.83 (21.1)	1.06 (27)	.51 (13)	.95 (24)
CD13NR-BXA	.20 - .35 (5 - 9)					
CD16NA-BXA	.39 - .55 (10 - 14)	1/2" NPT	.83 (21.1)	1.10 (28)	.51 (13)	1.06 (27)
CD16NR-BXA	.28 - .47 (7 - 12)					
CD21NA-BXA	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.22 (31)	.55 (14)	1.29 (33)
CD21NR-BXA	.35 - .63 (9 - 16)					
CD29NA-BXA	.71 - .98 (18 - 25)	1" NPT	1.35 (34.3)	1.53 (39)	.75 (19)	1.65 (42)
CD29NR-BXA	.51 - .79 (13 - 20)					
CD29LA-BXA	.71 - .98 (18 - 25)	1-1/4" NPT	1.65 (41.9)	1.53 (39)	.63 (16)	1.62 (42)/1.81 (46)
CD29LR-BXA	.51 - .79 (13 - 20)					
CD36NA-BXA	.87 - 1.26 (22 - 32)	1-1/2" NPT	1.92 (48.7)	1.89 (48)	.79 (20)	2.09 (53)
CD36NR-BXA	.79 - 1.02 (20 - 26)					

*Note: UL f1 (746C) rating applies to Black Nylon Fittings only.



This product has been specially developed for the ignition protection category Ex-e, passing all of the new norms and withstanding a high degree of shock resistance with its fiber reinforced body.

- Halogen-Free
- Flame rating V0 according to UL 94
- Protection IP 68 – 10 bar according to DIN EN 60529
- 7 Joule Impact Resistant
- Anti - vibration dome nut
- Wide clamping range
- Applicable up to +85°C (185°F)
- Abrasion resistant labeling
- O-Ring standard
- Applicable in Class, Div & Zone areas
- No additional mechanical protection of the gland necessary



When ordering the Blue version of this product please substitute the BX for BXI! (e.g.- CD20MR-UX)

Ex-d EXIOS
Cable Glands
Ex-d Nickel Plated Brass & Stainless Steel Glands
Nylon Glands
Ex-e
Ex-e Multi-Hole & Romex Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information

Fiber Reinforced Nylon Strain Relief Fitting (BXA)

This non-metallic solution for non-armored cables is designed for applications in electrical equipment and potentially explosive atmospheres.

Now Available For Low Voltage Applications (BXI)

- **Material:** Black Fiber Reinforced Nylon
- **Protection Rating:** IP68 (10 bar)
- **High Impact Resistance:** 7 Joule
- **Low Smoke:** Halogen-free (V0)
- **Temperature Range:** -4°F to 185°F (-20°C to 85°C)
- **Zones:** 1, 2, 20, 21, 22
- **Sizes:** M12 - M63, NPT 3/8" - NPT 1 1/2"
- **Approvals:** CSA, ATEX, IECEx
- **ATEX Certificate:** BVS 14 ATEX E 025 X
- **IECEX Certificate of Conformity:** IECEX BVS 14.0020X
- **CSA Certificate:** 70010389

**DIN EN
 60079-0: 2012**



Meets Latest Standards

EN 60079-0: 2012	IEC 60079-7: 2015
EN 60079-31: 2014	

Markings


II 2G Ex eb IIC Gb
 II 1D Ex ta IIIC Da

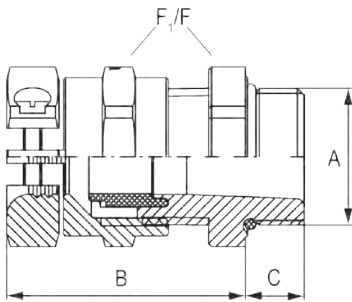
CSA Approvals

cUS Class 1 & Div 2
 cUS Class 2 & Div 1
 cUS Zone 1

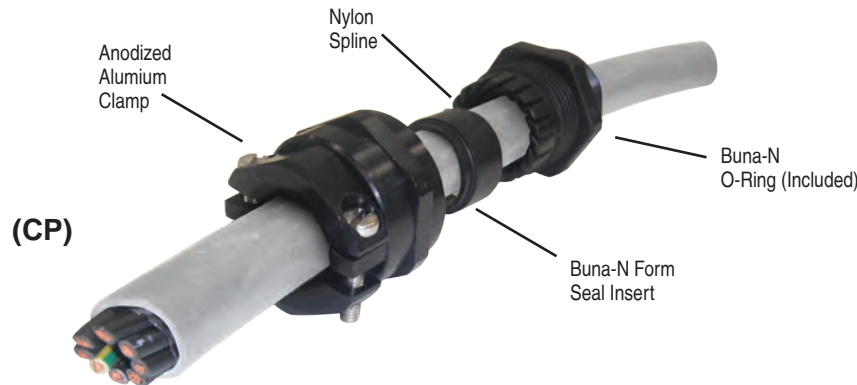
For Non-Armored Cable

Nylon, Cable Glands for Hazardous Duty Locations, Black Anodized Aluminum Clamp, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

Part Numbers	Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
			A	B	C	F ₁ /F
 (Standard)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole	Body Length	Thread Length	Wrench Flats
			+ .01" (+.25 mm)	(Dome)	(Standard)	
CD09AA-CP	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	.87 (22)	.59 (15)	.75 (19)
CD11AA-CP	.24 - .39 (6 - 10)	PG 11	.73 (18.5)	.98 (25)	.59 (15)	.87 (22)
CD13AA-CP	.24 - .47 (6 - 12)	PG 13	.80 (20.3)	1.06 (27)	.59 (15)	.94 (24)
CD16AA-CP	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	1.10 (28)	.39 (10)	1.06 (27)
CD21AA-CP	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	1.22 (31)	.43 (11)	1.30 (33)
CD29AA-CP	.71 - .98 (18 - 25)	PG 29	1.47 (37.3)	1.53 (39)	.51 (13)	1.65 (42)
CD36AA-CP	.87 - 1.26 (22 - 32)	PG 36	1.85 (47)	1.88 (48)	.51 (13)	2.09 (53)
CD42AA-CP	1.26 - 1.50 (32 - 38)	PG 42	2.13 (54.1)	1.93 (49)	.51 (13)	2.36 (60)
CD48AA-CP	1.46 - 1.73 (37 - 44)	PG 48	2.34 (59.4)	1.93 (49)	.55 (14)	2.56 (65)
CD16MA-CP	.16 - .31 (4 - 8)	M16 x 1.5	.63 (16)	1.14 (29)	.59 (15)	.75 (19)
CD20MA-CP	.24 - .47 (6 - 12)	M20 x 1.5	.79 (20)	1.40 (35.5)	.59 (15)	.94 (24)
CD25MA-CP	.51 - .71 (13 - 18)	M25 x 1.5	.98 (25)	1.61 (41)	.43 (11)	1.30 (33)
CD32MA-CP	.71 - .98 (18 - 25)	M32 x 1.5	1.26 (32)	1.93 (49)	.43 (11)	1.65 (42)
CD40MA-CP	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	2.28 (58)	.51 (13)	2.09 (53)
CD50MA-CP	1.26 - 1.50 (32 - 38)	M50 x 1.5	1.97 (50)	2.42 (61.5)	.51 (13)	2.36 (60)
CD63MA-CP	1.46 - 1.73 (37 - 44)	M63 x 1.5	2.48 (63)	2.44 (62)	.55 (14)	2.56 (65) / 2.68 (68)



Nylon body with Anodized Aluminum Clamp provides extra pull-out resistance and torque prevention to the cable.



Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

Fiber Reinforced Nylon, Cable Glands with Romex® Inserts, Hazardous Duty Locations, Black/Gray, V0, UL 94, NEMA 6, IP 68

Part Numbers		Slot Size Inches (mm) H x W	Thread Type & Size Page 59 for Thread Specs	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)			A	B	C	F ₁ /F
(Standard)	(Standard)			Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length (Standard)	Wrench Flats
CD16NS-E1-BXA	CD16NS-E2-BXI	.24 x .55 (6 x 14)	1/2"-E NPT	.83 (21.1)	1.10 (28)	.51 (13)	1.06 (27)
CD16NS-E5-BXA	CD16NS-E6-BXI	.28 x .47 (7 x 12)					
CD21NS-E1-BXA	CD21NS-E2-BXI	.24 x .55 (6 x 14)					
CD29NS-E1-BXA	CD29NS-E2-BXI	.31 x .87 (8 x 22)	1" NPT	1.35 (34.3)	1.53 (39)	.75 (19)	1.65 (42)
CD29LS-E1-BXA	CD29LS-E2-BXI	1.26 x .87 (8 x 22)	1-1/4" NPT	1.65 (41.9)	1.53 (39)	.63 (16)	1.65 / 1.81 (42 / 46)
CD36NS-E1-BXA	CD36NS-E2-BXI	.39 x 1.12 (10 x 28.5)	1-1/2" NPT	1.92 (48.7)	2.09 (53)	.26 (6.5)	.55 (14)
CD36NS-E3-BXA	CD36NS-E4-BXI	.22 x 1.14 (5.5 x 29)					
CD36NS-E5-BXA	CD36NS-E6-BXI	.47 x 1.20 (12 x 30.5)					
CD36NS-E7-BXA	CD36NS-E8-BXI	.30 x 1.22 (7.5 x 31)					
CD22MS-E1-BXA	CD22MS-E2-BXI	.24 x .55 (6 x 14)	M20 x 1.5	.79 (20)	1.10 (28)	.35 (9)	1.06 (27)
CD22MS-E5-BXA	CD22MS-E6-BXI	.28 x .47 (7 x 12)	M25 x 1.5	.98 (25)	1.22 (31)	.43 (11)	1.29 (33)
CD25MS-E1-BXA	CD25MS-E2-BXI	.24 x .55 (6 x 14)					
CD25MS-E3-BXA	CD25MS-E4-BXI	.28 x .55 (7 x 14)	M32 x 1.5	1.26 (32)	1.53 (39)	.43 (11)	1.65 (42)
CD32MS-E1-BXA	CD32MS-E2-BXI	.31 x .87 (8 x 22)					
CD40MS-E1-BXA	CD40MS-E2-BXI	.39 x 1.12 (10 x 28.5)	M40 x 1.5	1.57 (40)	1.89 (48)	.51 (13)	2.09 (53)
CD40MS-E3-BXA	CD40MS-E4-BXI	.20 x 1.14 (5.5 x 29)					
CD40MS-E5-BXA	CD40MS-E6-BXI	.47 x 1.20 (12 x 30.5)					
CD40MS-E7-BXA	CD40MS-E8-BXI	.30 x 1.22 (7.5 x 31)					
CD50MS-E1-BXA	CD50MS-E2-BXI	.45 x 1.31 (11.5 x 33.5)	M50 x 1.5	1.97 (50)	1.93 (49)	.51 (13)	2.36 (60)
CD16AS-E1-BXA	CD16AS-E2-BXI	.24 x .55 (6 x 14)	PG 16	.89 (22.5)	1.10 (28)	.39 (10)	1.06 (27)
CD16AS-E5-BXA	CD16AS-E6-BXI	.28 x .47 (7 x 12))					
CD21AS-E1-BXA	CD21AS-E2-BXI	.24 x .55 (6 x 14)	PG 21	1.12 (28.4)	1.22 (31)	.43 (11)	1.29 (33)
CD21AS-E3-BXA	CD21AS-E4-BXI	.28 x .55 (7 x 14)					
CD29AS-E1-BXA	CD29AS-E2-BXI	.31 x .87 (8 x 22)	PG 29	1.47 (37.3)	1.53 (39)	.43 (11)	1.65 (42)
CD36AS-E1-BXA	CD36AS-E2-BXI	.39 x 1.12 (10 x 28.5)	PG 36	1.85 (47)	1.89 (48)	.51 (13)	2.09 (53)
CD36AS-E3-BXA	CD36AS-E4-BXI	.20 x 1.14 (5.5 x 29)					
CD36AS-E5-BXA	CD36AS-E6-BXI	.47 x 1.20 (12 x 30.5)					
CD36AS-E7-BXA	CD36AS-E8-BXI	.30 x 1.22 (7.5 x 31)					
CD42AS-E1-BXA	CD42AS-E2-BXI	.45 x 1.31 (11.5 x 33.5)	PG 42	2.13 (54.1)	1.93 (49)	.51 (13)	2.36 (60)

*Note: UL f1 (746C) rating applies to Black Nylon Fittings only.

ROMEX® is a federally registered trademark of Southwire Company.

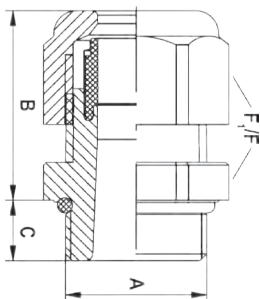


Cable Glands with Inserts for Flat Cables


These form seals are also available with Cable Glands made of other materials. (Nickel Plated Brass, Stainless Steel, etc.)

* Additional UL Information

- Our FLAKA (for Romex® style cable) HSK-K-Ex PG 16 & 1/2"-Enlarged are UL listed. UL file # E168975.
- To meet UL, only Romex® style cable (flat top and bottom) can be used with this style Cable Glands (No Zip Cable, No Ribbon cable, etc.)



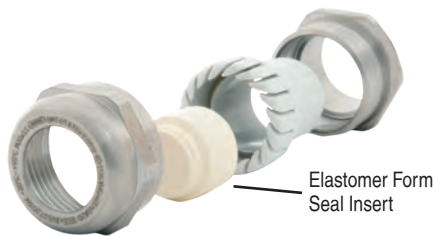
For Non-Armored Cable

Nickel Plated Brass, Cable Glands with Romex® Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68						
Part Numbers	Slot Size	Thread Type & Size	Dimensions in Inches (mm)			
			A	B	C	F ₁ /F
-4°F to 203°F (-20°C to 95°C)			Clearance Hole	Body Length	Thread Length	Wrench Flats
Nickel Plated Brass  (Standard)	Inches (mm) H x W	Page 59 for Thread Specs	+ .01" (+.25 mm)	(Dome)	(Standard)	
CD21NS-EB1	.24 x .55 (6 x 14)	3/4" NPT	1.05 (26.7)	.98 (25)	.51 (13)	1.18 (30)
CD21NS-EB2	.28 x .55 (7 x 14)					
CD29NS-EB1	.31 x .87 (8 x 22)	1" NPT	1.35 (34.3)	1.14 (29)	.75 (19)	1.57 (40)
CD22MS-EB1	.24 x .55 (6 x 14)	M20 x 1.5	.79 (20)	.94 (24)	.24 (6)	.94 (24)
CD22MS-EB2	.28 x .47 (7 x 12)					
CD25MS-EB1	.24 x .55 (6 x 14)	M25 x 1.5	.98 (25)	1.02 (26)	.28 (7)	1.18 (30)
CD25MS-EB2	.28 x .55 (7 x 14)					
CD32MS-EB1	.31 x .87 (8 x 22)	M32 x 1.5	1.26 (32)	1.22 (31)	.31 (8)	1.57 (40)
CD40MS-EB1	.39 x 1.12 (10 x 28.5)	M40 x 1.5	1.57 (40)	1.46 (37)	.31 (8)	1.97 (50)
CD40MS-EB2	.20 x 1.14 (5.5 x 29)					
CD40MS-EB3	.47 x 1.20 (12 x 30.5)					
CD40MS-EB4	.29 x 1.22 (7.5 x 31)					
CD50MS-EB1	.45 x 1.31 (11.5 x 33.5)	M50 x 1.5	1.97 (50)	1.46 (37)	.35 (9)	2.24 (57)
CD63MS-EB1	.47 x 1.50 (12 x 38)	M63 x 1.5	2.48 (63)	1.49 (38)	.39 (10)	2.52 (64) / 2.68 (68)
CD16AS-EB1	.24 x .55 (6 x 14)	PG 16	.89 (22.5)	.91 (23)	.26 (6.5)	.94 (24)
CD16AS-EB2	.28 x .47 (7 x 12)					
CD21AS-EB1	.24 x .55 (6 x 14)	PG 21	1.12 (28.4)	.94 (24)	.28 (7)	1.18 (30)
CD21AS-EB2	.28 x .55 (7 x 14)					
CD29AS-EB1	.31 x .87 (8 x 22)	PG 29	1.47 (37.3)	1.14 (29)	.31 (8)	1.57 (40)
CD36AS-EB1	.39 x 1.12 (10 x 28.5)	PG 36	1.85 (47)	1.37 (35)	.31 (8)	1.97 (50)
CD36AS-EB2	.20 x 1.14 (5.5 x 29)					
CD36AS-EB3	.47 x 1.18 (12 x 30)					
CD36AS-EB4	.29 x 1.22 (7.5 x 31)					
CD42AS-EB1	.45 x 1.31 (11.5 x 33.5)	PG 42	2.13 (54.1)	1.46 (37)	.35 (9)	2.24 (57)
CD48AS-EB2	.47 x 1.50 (12 x 38)	PG 48	2.34 (59.4)	1.49 (38)	.39 (10)	2.52 (64)

ROMEX® is a federally registered trademark of Southwire Company.

Cable Glands with Inserts for Flat Cables

These form seals are also available with Cable Glands made of other materials. (Nickel Plated Brass, Stainless Steel, etc.)



*** Additional UL Information**

- Our FLAKA (for Romex® style cable) HSK-K-Ex PG16 are UL listed (UL file # E168975)
- To meet UL, only Romex® style cable (flat top and bottom) can be used with this style Cable Gland (No Zip Cable, No Ribbon cable, etc.)



Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)		No. of Holes	Diameter of Holes		Part Numbers of Inserts only	
Black	Blue	Nickel Plated Brass	mm		Inches			
			3/8" NPT Page 59 for Thread Specs	4	1.4	.06	1.089.0900.19	
CD09N1-BXA	CD09N1-BXI	CD09N1-MX		2	3.0	.12	1.089.0901.19	
CD09N2-BXA	CD09N2-BXI	CD09N2-MX		5	1.6	.06	1.089.0902.19	
CD09N3-BXA	CD09N3-BXI	CD09N3-MX		2	1.7	.07	1.089.0903.19	
CD09N4-BXA	CD09N4-BXI	CD09N4-MX		10	1.4	.06	1.089.0904.19	
CD09N5-BXA	CD09N5-BXI	CD09N5-MX		6	1.4	.06	1.089.0905.19	
CD09N6-BXA	CD09N6-BXI	CD09N6-MX		3	1.7	.07	1.089.0906.19	
CD09N7-BXA	CD09N7-BXI	CD09N7-MX		4	1.7	.07	1.089.0907.19	
CD09N8-BXA	CD09N8-BXI	CD09N8-MX		4	2.3	.09	1.089.0908.19	
CD09N9-BXA	CD09N9-BXI	CD09N9-MX		Solid Insert			1.089.0999.19	
CD09NP-BXA	CD09NP-BXI	CD09NP-MX						
CD13N1-BXA	CD13N1-BXI	CD13N1-MX		1/2" NPT	3	2.0	.08	1.089.1300.19
CD13N2-BXA	CD13N2-BXI	CD13N2-MX			6	3.0	.12	1.089.1301.19
CD13N3-BXA	CD13N3-BXI	CD13N3-MX	3		4.0	.16	1.089.1302.19	
CD13N4-BXA	CD13N4-BXI	CD13N4-MX	2		5.0	.20	1.089.1303.19	
CD13N5-BXA	CD13N5-BXI	CD13N5-MX	3		3.0	.12	1.089.1304.19	
CD13N6-BXA	CD13N6-BXI	CD13N6-MX	2		5.2	.20	1.089.1305.19	
CD13N7-BXA	CD13N7-BXI	CD13N7-MX	2		3.8	.15	1.089.1306.19	
CD13N8-BXA	CD13N8-BXI	CD13N8-MX	2		4.2	.17	1.089.1307.19	
CD13N9-BXA	CD13N9-BXI	CD13N9-MX	2		2.5	.10	1.089.1308.19	
CD13NP-BXA	CD13NP-BXI	CD13NP-MX	Solid Insert			1.089.1399.19		
CD16N0-BXA	CD16N0-BXI	CD16N0-MX	1/2"-E NPT	6	3.8	.15	1.089.1609.19	
CD16N1-BXA	CD16N1-BXI	CD16N1-MX		3	3.0	.12	1.089.1600.19	
CD16N2-BXA	CD16N2-BXI	CD16N2-MX		3	4.0	.16	1.089.1601.19	
CD16N3-BXA	CD16N3-BXI	CD16N3-MX		4	4.0	.16	1.089.1602.19	
CD16N4-BXA	CD16N4-BXI	CD16N4-MX		5	4.0	.16	1.089.1603.19	
CD16N5-BXA	CD16N5-BXI	CD16N5-MX		6	4.0	.16	1.089.1604.19	
CD16N6-BXA	CD16N6-BXI	CD16N6-MX		2	6.0	.24	1.089.1605.19	
CD16N7-BXA	CD16N7-BXI	CD16N7-MX		3	5.6	.22	1.089.1606.19	
CD16N8-BXA	CD16N8-BXI	CD16N8-MX		6	3.0	.12	1.089.1607.19	
CD16NP-BXA	CD16NP-BXI	CD16NP-MX	Solid Insert			1.089.1699.19		

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole
 **Note: UL f1 (746C) rating applies to Black Nylon Fittings only.

For Specifications and Dimensions for Black & Gray Nylon (page 22) or Nickel Plated Brass (page 35) where the appropriate Fittings are listed.



For Non-Armored Cable

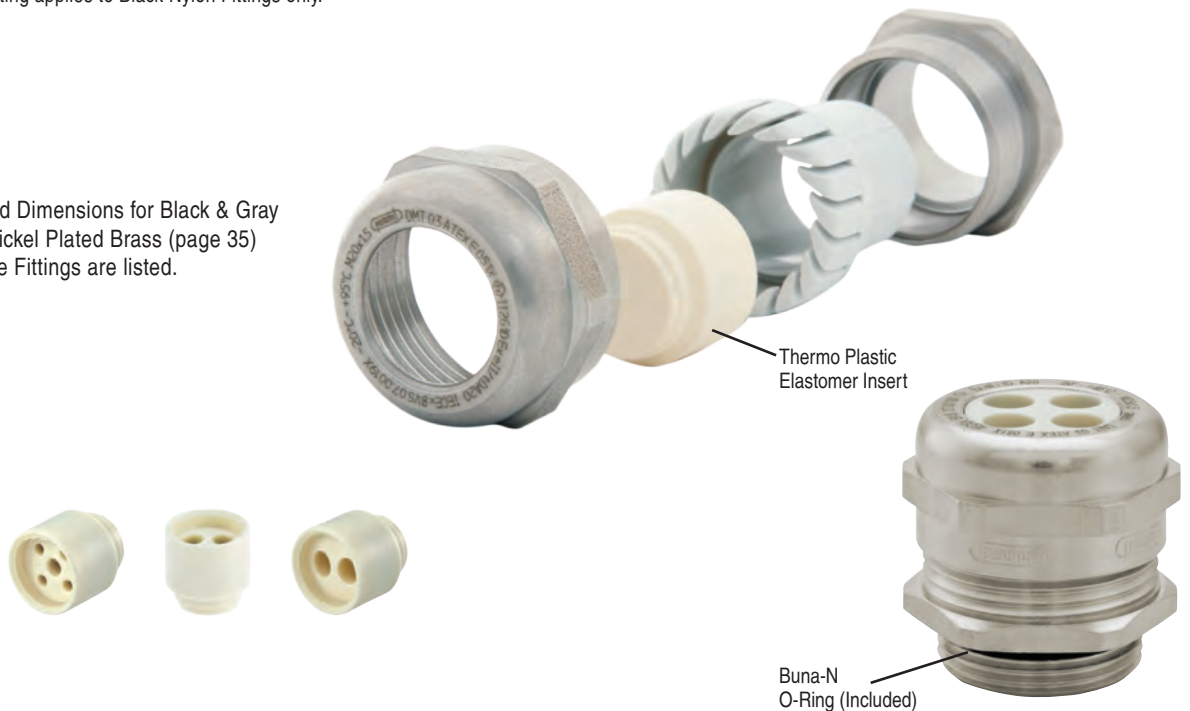
Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)			Part Numbers of Inserts only
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)		No. of Holes	Diameter of Holes		
Black	Blue	Nickel Plated Brass	Page 59 for Thread Specs		mm	Inches	
				3/4" NPT	4	6.0	.24
CD21N1-BXA	CD21N1-BXI	CD21N1-MX	3		7.0	.28	1.089.2101.19
CD21N2-BXA	CD21N2-BXI	CD21N2-MX	2		8.0	.31	1.089.2102.19
CD21N3-BXA	CD21N3-BXI	CD21N3-MX	4		5.0	.20	1.089.2103.19
CD21N4-BXA	CD21N4-BXI	CD21N4-MX	1		8.0	.31	1.089.2104.19
CD21N5-BXA	CD21N5-BXI	CD21N5-MX	4		5.2	.20	1.089.2105.19
CD21N6-BXA	CD21N6-BXI	CD21N6-MX	3		5.2	.20	1.089.2106.19
CD21N7-BXA	CD21N7-BXI	CD21N7-MX	4/1		5.2/3.7	.20/.15	1.089.2107.19
CD21N8-BXA	CD21N8-BXI	CD21N8-MX	2		7.4	.29	1.089.2108.19
CD21N9-BXA	CD21N9-BXI	CD21N9-MX	Solid Insert			1.089.2199.19	
CD21NP-BXA	CD21NP-BXI	CD21NP-MX					
CD29N1-BXA	CD29N1-BXI	CD29N1-MX	1" NPT		6	6.5	.26
CD29N2-BXA	CD29N2-BXI	CD29N2-MX		4	9.0	.35	1.089.2901.19
CD29N3-BXA	CD29N3-BXI	CD29N3-MX		4	9.5	.37	1.089.2902.19
CD29NP-BXA	CD29NP-BXI	CD29NP-MX		Solid Insert			1.089.2999.19
CD29L1-BXA	CD29L1-BXI	-	1-1/4" NPT	6	6.5	.26	1.089.2900.19
CD29L2-BXA	CD29L2-BXI	-		4	9.0	.35	1.089.2901.19
CD29L3-BXA	CD29L3-BXI	-		4	9.5	.37	1.089.2902.19
CD29LP-BXA	CD29LP-BXI	-		Solid Insert			1.089.2999.19
CD36N1-BXA	CD36N1-BXI	-	1-1/2" NPT	5	9.0	.35	1.089.3600.19
CD36N2-BXA	CD36N2-BXI	-		7	9.0	.35	1.089.3601.19
CD36N3-BXA	CD36N3-BXI	-		6	8.0	.31	1.089.3602.19
CD36N4-BXA	CD36N4-BXI	-		2	15.0	.59	1.089.3603.19
CD36NP-BXA	CD36NP-BXI	-		Solid Insert			1.089.3699.19

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole
 **Note: UL f1 (746C) rating applies to Black Nylon Fittings only.

***Note: InMetro only applies to all Nylon Cable Glands.




For Specifications and Dimensions for Black & Gray Nylon (page 22) or Nickel Plated Brass (page 35) where the appropriate Fittings are listed.



Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)			Part Numbers of Inserts only
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)		No. of Holes	Diameter of Holes		
 CD12MP-BXA	 CD12MP-BXI	 CD12MP-MX	Page 59 for Thread Specs M12 x 1.5	Solid Insert			1.089.0799.19
					mm	Inches	
CD16M1-BXA	CD16M1-BXI	CD16M1-MX	M16 x 1.5	4	1.4	.06	1.089.0900.19
CD16M2-BXA	CD16M2-BXI	CD16M2-MX		2	3.0	.12	1.089.0901.19
CD16M3-BXA	CD16M3-BXI	CD16M3-MX		5	1.6	.06	1.089.0902.19
CD16M4-BXA	CD16M4-BXI	CD16M4-MX		2	1.7	.07	1.089.0903.19
CD16M5-BXA	CD16M5-BXI	CD16M5-MX		10	1.4	.06	1.089.0904.19
CD16M6-BXA	CD16M6-BXI	CD16M6-MX		6	1.4	.06	1.089.0905.19
CD16M7-BXA	CD16M7-BXI	CD16M7-MX		3	1.7	.07	1.089.0906.19
CD16M8-BXA	CD16M8-BXI	CD16M8-MX		4	1.7	.07	1.089.0907.19
CD16M9-BXA	CD16M9-BXI	CD16M9-MX		4	2.3	.09	1.089.0908.19
CD16MP-BXA	CD16MP-BXI	CD16MP-MX		Solid Insert			
CD17M1-BXA	CD17M1-BXI	CD17M1-MX	M16 x 1.5 (Enlarged)	2	3.0	.12	1.089.1100.19
CD17M2-BXA	CD17M2-BXI	CD17M2-MX		3	3.0	.12	1.089.1101.19
CD17M3-BXA	CD17M3-BXI	CD17M3-MX		2	4.0	.16	1.089.1102.19
CD17M4-BXA	CD17M4-BXI	CD17M4-MX		3	1.5	.06	1.089.1103.19
CD17M5-BXA	CD17M5-BXI	CD17M5-MX		4	2.8	.11	1.089.1104.19
CD17MP-BXA	CD17MP-BXI	CD17MP-MX	Solid Insert				1.089.1199.19
CD20M1-BXA	CD20M1-BXI	CD20M1-MX	M20 x 1.5	3	2.0	.08	1.089.1300.19
CD20M2-BXA	CD20M2-BXI	CD20M2-MX		6	3.0	.12	1.089.1301.19
CD20M3-BXA	CD20M3-BXI	CD20M3-MX		3	4.0	.16	1.089.1302.19
CD20M4-BXA	CD20M4-BXI	CD20M4-MX		2	5.0	.20	1.089.1303.19
CD20M5-BXA	CD20M5-BXI	CD20M5-MX		3	3.0	.12	1.089.1304.19
CD20M6-BXA	CD20M6-BXI	CD20M6-MX		2	5.2	.20	1.089.1305.19
CD20M7-BXA	CD20M7-BXI	CD20M7-MX		2	3.8	.15	1.089.1306.19
CD20M8-BXA	CD20M8-BXI	CD20M8-MX		2	4.2	.17	1.089.1307.19
CD20M9-BXA	CD20M9-BXI	CD20M9-MX		2	2.5	.10	1.089.1308.19
CD20MP-BXA	CD20MP-BXI	CD20MP-MX		Solid Insert			
CD22M0-BXA	CD22M0-BXI	CD22M0-MX	M20 x 1.5 (Enlarged)	6	3.8	.15	1.089.1609.19
CD22M1-BXA	CD22M1-BXI	CD22M1-MX		3	3.0	.12	1.089.1600.19
CD22M2-BXA	CD22M2-BXI	CD22M2-MX		3	4.0	.16	1.089.1601.19
CD22M3-BXA	CD22M3-BXI	CD22M3-MX		4	4.0	.16	1.089.1602.19
CD22M4-BXA	CD22M4-BXI	CD22M4-MX		5	4.0	.16	1.089.1603.19
CD22M5-BXA	CD22M5-BXI	CD22M5-MX		6	4.0	.16	1.089.1604.19
CD22M6-BXA	CD22M6-BXI	CD22M6-MX		2	6.0	.24	1.089.1605.19
CD22M7-BXA	CD22M7-BXI	CD22M7-MX		3	5.6	.22	1.089.1606.19
CD22M8-BXA	CD22M8-BXI	CD22M8-MX		6	3.0	.12	1.089.1607.19
CD22MP-BXA	CD22MP-BXI	CD22MP-MX		Solid Insert			

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole

***Note: InMetro only applies to all Nylon Cable Glands.

**Note: UL F1 rating applies to Black Nylon Fittings only.



For Specifications and Dimensions for Black (page 20) & Gray Nylon (page 22) or Nickel Plated Brass (page 35) where the appropriate Fittings are listed.

For Non-Armored Cable

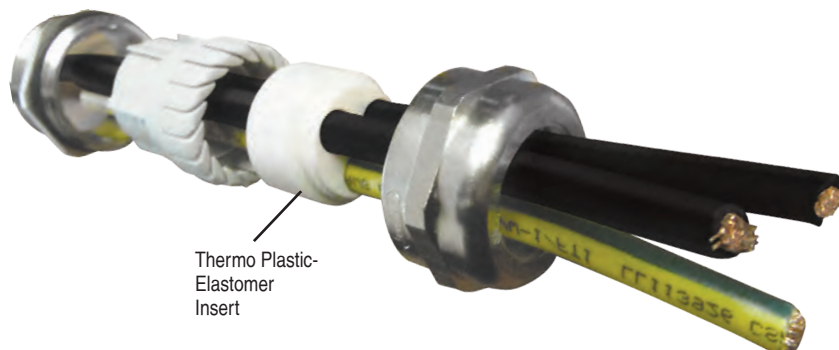
Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)			Part Numbers of Inserts only	
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)		No. of Holes	Diameter of Holes			
UL F1** Black	Blue	Nickel Plated Brass	Page 59 for Thread Specs		mm	Inches		
					M25 x 1.5	4		6.0
CD25M1-BXA	CD25M1-BXI	CD25M1-MX	3	7.0		.28	1.089.2101.19	
CD25M2-BXA	CD25M2-BXI	CD25M2-MX	2	8.0		.31	1.089.2102.19	
CD25M3-BXA	CD25M3-BXI	CD25M3-MX	4	5.0		.20	1.089.2103.19	
CD25M4-BXA	CD25M4-BXI	CD25M4-MX	1	8.0		.31	1.089.2104.19	
CD25M5-BXA	CD25M5-BXI	CD25M5-MX	4	5.2		.20	1.089.2105.19	
CD25M6-BXA	CD25M6-BXI	CD25M6-MX	3	5.2		.20	1.089.2106.19	
CD25M7-BXA	CD25M7-BXI	CD25M7-MX	4/1	5.2/3.7		.20/.15	1.089.2107.19	
CD25M8-BXA	CD25M8-BXI	CD25M8-MX	2	7.4		.29	1.089.2108.19	
CD25M9-BXA	CD25M9-BXI	CD25M9-MX	Solid Insert				1.089.2199.19	
CD25MP-BXA	CD25MP-BXI	CD25MP-MX						
CD32M1-BXA	CD32M1-BXI	CD32M1-MX	M32 x 1.5	6		6.5	.26	1.089.2900.19
CD32M2-BXA	CD32M2-BXI	CD32M2-MX		4		9.0	.35	1.089.2901.19
CD32M3-BXA	CD32M3-BXI	CD32M3-MX		4	9.5	.37	1.089.2902.19	
CD32MP-BXA	CD32MP-BXI	CD32MP-MX		Solid Insert			1.089.2999.19	
CD40M1-BXA	CD40M1-BXI	CD40M1-MX	M40 x 1.5	5	9.0	.35	1.089.3600.19	
CD40M2-BXA	CD40M2-BXI	CD40M2-MX		7	9.0	.35	1.089.3601.19	
CD40M3-BXA	CD40M3-BXI	CD40M3-MX		6	8.0	.31	1.089.3602.19	
CD40M4-BXA	CD40M4-BXI	CD40M4-MX		2	15.0	.59	1.089.3603.19	
CD40MP-BXA	CD40MP-BXI	CD40MP-MX		Solid Insert			1.089.3699.19	
CD50MP-BXA	CD50MP-BXI	CD50MP-MX	M50 x 1.5	Solid Insert			1.089.4299.19	
CD63M1-BXA	CD63M1-BXI	CD63M1-MX	M63 x 1.5	8	10.0	.39	1.089.4800.19	
CD63M2-BXA	CD63M2-BXI	CD63M2-MX		6	12.0	.47	1.089.4801.19	
CD63M3-BXA	CD63M3-BXI	CD63M3-MX		3	18.0	.71	1.089.4802.19	
CD63MP-BXA	CD63MP-BXI	CD63MP-MX		Solid Insert			1.089.4899.19	

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole
 **Note: UL F1 rating applies to Black Nylon Fittings only.

***Note: InMetro only applies to all Nylon Cable Glands.


For Specifications and Dimensions for Black (page 20) & Gray Nylon (page 22) or Nickel Plated Brass (page 35) where the appropriate Fittings are listed.



Optional Locking Nuts & Other Accessories on page 46 - 54

For Non-Armored Cable

Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68


Part Numbers	Thread Type & Size	Dimensions in Inches (mm)			Part Numbers of Inserts only
		No. of Holes	Diameter of Holes		
			mm	Inches	
-4°F to 203°F (-20°C to 95°C) Nickel Plated Brass 	Page 59 for Thread Specs				
CD07AP-MX	PG 7	Solid Insert			1.089.0799.19
CD09A1-MX	PG 9	4	1.4	.06	1.089.0900.19
CD09A2-MX		2	3.0	.12	1.089.0901.19
CD09A3-MX		5	1.6	.06	1.089.0902.19
CD09A4-MX		2	1.7	.07	1.089.0903.19
CD09A5-MX		10	1.4	.06	1.089.0904.19
CD09A6-MX		6	1.4	.06	1.089.0905.19
CD09A7-MX		3	1.7	.07	1.089.0906.19
CD09A8-MX		4	1.7	.07	1.089.0907.19
CD09A9-MX		4	2.3	.09	1.089.0908.19
CD09AP-MX		Solid Insert			1.089.0999.19
CD11A1-MX	PG 11	2	3.0	.12	1.089.1100.19
CD11A2-MX		3	3.0	.12	1.089.1101.19
CD11A3-MX		2	4.0	.16	1.089.1102.19
CD11A4-MX		3	1.5	.06	1.089.1103.19
CD11A5-MX		4	2.8	.11	1.089.1104.19
CD11AP-MX		Solid Insert			1.089.1199.19
CD13A1-MX	PG 13 / 13.5	3	2.0	.08	1.089.1300.19
CD13A2-MX		6	3.0	.12	1.089.1301.19
CD13A3-MX		3	4.0	.16	1.089.1302.19
CD13A4-MX		2	5.0	.20	1.089.1303.19
CD13A5-MX		3	3.0	.12	1.089.1304.19
CD13A6-MX		2	5.2	.20	1.089.1305.19
CD13A7-MX		2	3.8	.15	1.089.1306.19
CD13A8-MX		2	4.2	.17	1.089.1307.19
CD13A9-MX		2	2.5	.10	1.089.1308.19
CD13AP-MX		Solid Insert			1.089.1399.19
CD16A0-MX	PG 16	6	3.8	.15	1.089.1609.19
CD16A1-MX		3	3.0	.12	1.089.1600.19
CD16A2-MX		3	4.0	.16	1.089.1601.19
CD16A3-MX		4	4.0	.16	1.089.1602.19
CD16A4-MX		5	4.0	.16	1.089.1603.19
CD16A5-MX		6	4.0	.16	1.089.1604.19
CD16A6-MX		2	6.0	.24	1.089.1605.19
CD16A7-MX		3	5.6	.22	1.089.1606.19
CD16A8-MX		6	3.0	.12	1.089.1607.19
CD16AP-MX		Solid Insert			1.089.1699.19

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole

***Note: InMetro only applies to all Nylon Cable Glands.

For Non-Armored Cable

Fiber Reinforced Nylon & Nickel Plated Brass, Cable Glands with Multi-Hole Inserts, Hazardous Duty Locations, V0, UL94, NEMA 6, IP 68

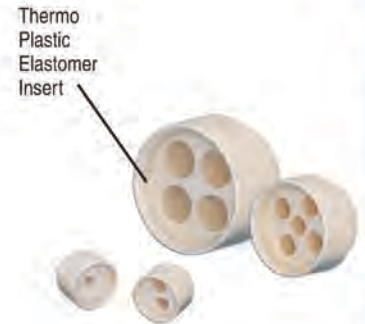
Part Numbers	Thread Type & Size	Dimensions in Inches (mm)			Part Numbers of Inserts only
		No. of Holes	Diameter of Holes		
			mm	Inches	
-4°F to 203°F (-20°C to 95°C) Nickel Plated Brass 	Page 59 for Thread Specs				
CD21A1-MX	PG 21	4	6.0	.24	1.089.2100.19
CD21A2-MX		3	7.0	.28	1.089.2101.19
CD21A3-MX		2	8.0	.31	1.089.2102.19
CD21A4-MX		4	5.0	.20	1.089.2103.19
CD21A5-MX		1	8.0	.31	1.089.2104.19
CD21A6-MX		4	5.2	.20	1.089.2105.19
CD21A7-MX		3	5.2	.20	1.089.2106.19
CD21A8-MX		4/1	5.2/3.7	.20/.15	1.089.2107.19
CD21A9-MX		2	7.4	.29	1.089.2108.19
CD21AP-MX			Solid Insert		1.089.2199.19
CD29A1-MX	PG 29	6	6.5	.26	1.089.2900.19
CD29A2-MX		4	9.0	.35	1.089.2901.19
CD29A3-MX		4	9.5	.37	1.089.2902.19
CD29AP-MX		Solid Insert		1.089.2999.19	
CD36A1-MX	PG 36	5	9.0	.35	1.089.3600.19
CD36A2-MX		7	9.0	.35	1.089.3601.19
CD36A3-MX		6	8.0	.31	1.089.3602.19
CD36A4-MX		2	15.0	.59	1.089.3603.19
CD36AP-MX		Solid Insert		1.089.3699.19	
CD42AP-MX	PG 42	Solid Insert		1.089.4299.19	
CD48A1-MX	PG 48	8	10.0	.39	1.089.4800.19
CD48A2-MX		6	12.0	.47	1.089.4801.19
CD48A3-MX		3	18.0	.71	1.089.4802.19
CD48AP-MX		Solid Insert		1.089.4899.19	

* Note: IECEx approval apply only to Nickel Plated Brass Multi-Hole
 **Note: UL F1 rating applies to Black Nylon Fittings only.

***Note: InMetro only applies to all Nylon Cable Glands.



Optional Locking Nuts & Other Accessories starting on page 46 - 54.



Thermo Plastic Elastomer Insert

Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands Ex-e
 Ex-e Multi-Hole & Homex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

UL/UR E103997
CSA 104031
CAGE 0 UE11

Technical Description

- Ex-e Cable Glands for non-armored cable - Cost Saving Option!
- Approvals & Certifications - ATEX/IECEX, UL/UR, CE, CSA, Gost and German Lloyd!
- NEMA 4x & 6 (IP 67 & 68) - Liquid Tight - Submersible to 300 ft!
- IP 69K rated - Ideal in splash or hose down applications!
- Patented form seal allows 150 PSIG (10 BAR) rating - Highest in Industry!
- V0 flame rating according to UL 94 – Halogen & Phosphorous Free – non toxic!
- RoHS & Deca BDE - Environmentally Compliant to the newest standards!
- Large selection in Nickel Plated Brass and Stainless Steel - Cable Range from .08” (2 mm) to 1.73” (44 mm)
- Non-Corrosive - Resistant to salt water, weak acids, weak alkalis, alcohol, esters, ketones, ether, gasoline, mineral, animal & vegetable oil.

Ref. Standards
EN 60079-0
EN 60079-7

Your One Stop Solution For All Cable & Wire Accessories!



Unique Product

The patented recess form seal guarantees NEMA 4x & 6 (IP 68 / IP 69K) at 150 PSIG (10 BAR).

Pull-out Resistance & Cable Protection

Overlapping clamping splines apply a concentric force, preventing the form seal from being pulled out of the gland. This ensures pull-out protection without damage to the cable.

Liquid Tight

Machined O-Ring Groove: All of our Ex Cable Glands come with an O-Ring, resulting in a Liquid Tight Seal between cable gland and installation.

Time Saving Installation

Simply push the cable through Cable Glands - Tighten Dome Nut - Done!
No disassembly of the cable glands required!



Ex-d EXIOS
Cable Glands

Ex-d Nickel Plated Brass &
Stainless Steel Glands

Ex-e
Nylon Glands

Ex-e Multi-Hole &
Romex Glands

Ex-e Nickel Plated Brass &
Stainless Steel Glands



Ex-e EMI / RFI Nickel
Plated Brass Glands

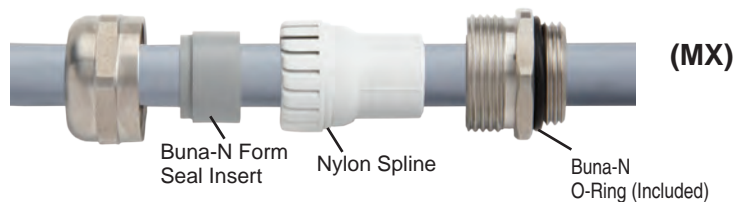
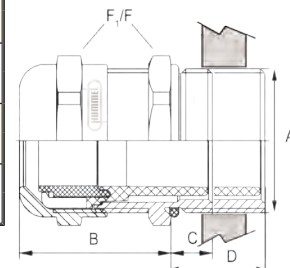
Ex-e / Ex-d
Accessories

Technical
Information

For Non-Armored Cable




Nickel Plated Brass Cable Glands for Hazardous Duty Locations, Low Temperature, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)			A	B	C	F ₁ /F
		Inches (mm)	Page 59 for Thread Specs	Clearance Hole	Body Length	Thread Length	Wrench Flats
(Standard)	(Low Temp.)			+ .01" (+.25 mm)	(Dome)	(Standard & Low Temp.)	
CD09NA-MX	CC09NA-MX	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	.83 (21)	.59 (15)	.67 (17) / .75 (19)
CD09NR-MX	CC09NR-MX	.08 - .24 (2 - 6)		1/2" NPT	.83 (21.1)	.94 (24)	.51 (13)
CD13NA-MX	CC13NA-MX	.24 - .47 (6 - 12)	3/4" NPT		1.05 (26.7)	.98 (25)	.51 (13)
CD13NR-MX	CC13NR-MX	.20 - .35 (5 - 9)		1" NPT	1.35 (34.3)	1.14 (29)	.75 (19)
CD21NA-MX	CC21NA-MX	.55 - .71 (14 - 18)					
CD21NR-MX	CC21NR-MX	.39 - .63 (10 - 16)					
CD29NA-MX	CC29NA-MX	.79 - .98 (20 - 25)					
CD29NR-MX	CC29NR-MX	.51 - .79 (13 - 20)					



Elongated Metric Threads are recommended where the Cable Gland has to pass through a thick wall or the application just needs the Extra Thread Length.





Nickel Plated Brass Cable Glands for Hazardous Duty Locations, Low Temperature, Protection Class V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

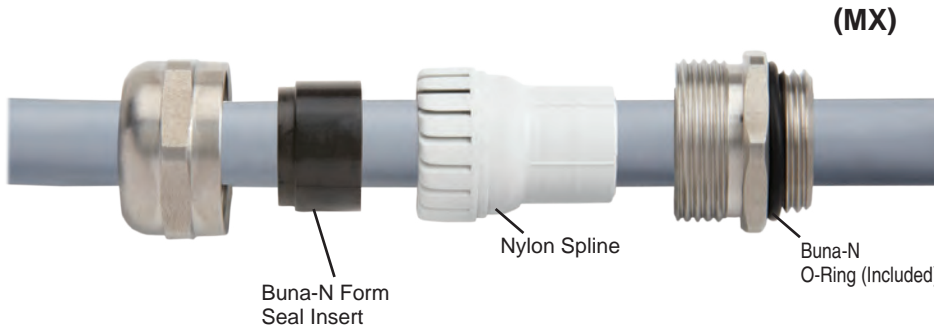
Part Numbers			Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)	-4°F to 203°F (-20°C to 95°C)			A	B	C	D	F ₁ /F
			Inches (mm)	Page 59 for Thread Specs	Clearance Hole	Body Length	Thread Length	Thread Length	Wrench Flats
(Standard)	(Low Temp.)	(Elongated)			+ .01" (+.25 mm)	(Dome)	(Standard & Low Temp.)	(Elongated)	
CD12MA-MX	CC12MA-MX	CD12DA-MX	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	.75 (19)	.26 (6.5)	.39 (10)	.55 (14)
CD12MR-MX	CC12MR-MX	CD12DR-MX	.08 - .20 (2 - 5)		M16 x 1.5	.63 (16)	.83 (21)	.24 (6)	.39 (10)
CD16MA-MX	CC16MA-MX	CD16DA-MX	.16 - .31 (4 - 8)	M16 x 1.5		.63 (16)	.87 (22)	.24 (6)	.39 (10)
CD16MR-MX	CC16MR-MX	CD16DR-MX	.08 - .24 (2 - 6)		M20 x 1.5	.79 (20)	.91 (23)	.24 (6)	.39 (10)
CD17MA-MX	CC17MA-MX	CD17DA-MX	.24 - .39 (6 - 10)	M20 x 1.5		.79 (20)	.94 (24)	.24 (6)	.39 (10)
CD17MR-MX	CC17MR-MX	CD17DR-MX	.12 - .28 (3 - 7)		M25 x 1.5	.98 (25)	1.02 (26)	.28 (7)	.47 (12)
CD20MA-MX	CC20MA-MX	CD20DA-MX	.24 - .47 (6 - 12)	M32 x 1.5		1.26 (32)	1.22 (31)	.31 (8)	.47 (12)
CD20MR-MX	CC20MR-MX	CD20DR-MX	.20 - .35 (5 - 9)		M40 x 1.5	1.57 (40)	1.46 (37)	.31 (8)	.59 (15)
CD22MA-MX	CC22MA-MX	CD22DA-MX	.39 - .55 (10 - 14)	M50 x 1.5		1.97 (50)	1.46 (37)	.35 (9)	.59 (15)
CD22MR-MX	CC22MR-MX	CD22DR-MX	.28 - .47 (7 - 12)		M63 x 1.5	2.48 (63)	1.50 (38)	.39 (10)	.59 (15)
CD25MA-MX	CC25MA-MX	CD25DA-MX	.55 - .71 (14 - 18)						
CD25MR-MX	CC25MR-MX	CD25DR-MX	.39 - .63 (10 - 16)						
CD32MA-MX	CC32MA-MX	CD32DA-MX	.79 - .98 (20 - 25)						
CD32MR-MX	CC32MR-MX	CD32DR-MX	.51 - .79 (13 - 20)						
CD40MA-MX	CC40MA-MX	CD40DA-MX	.87 - 1.26 (22 - 32)						
CD40MR-MX	CC40MR-MX	CD40DR-MX	.79 - 1.02 (20 - 26)						
CD50MA-MX	CC50MA-MX	CD50DA-MX	1.26 - 1.50 (32 - 38)						
CD50MR-MX	CC50MR-MX	CD50DR-MX	.98 - 1.22 (25 - 31)						
CD63MA-MX	CC63MA-MX	CD63DA-MX	1.46 - 1.73 (37 - 44)						
CD63MR-MX	CC63MR-MX	CD63DR-MX	1.14 - 1.38 (29 - 35)						

Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

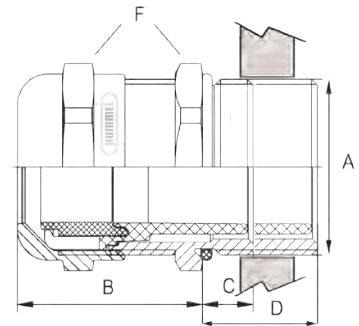
For Non-Armored Cable

Nickel Plated Brass Cable Glands for Hazardous Duty Locations, Low Temperature, V0, UL94, NEMA 6, 150 PSIG, IP 69K, 10 BAR

Part Numbers				Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 203°F (-20°C to 95°C)	-78°F to 203°F (-60°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-78°F to 203°F (-60°C to 95°C)			A	B	C	D	F ₁ /F
				Inches (mm)	Page 59 for Thread Specs	Clearance Hole	Body Length	Thread Length	Thread Length	Wrench Flats
(Standard)	(Low Temp.)	(Elongated)	(Elongated Low Temp.)			+ .01" (+.25 mm)	(Dome)	(Standard)	(Elongated & Low Temp.)	
CD07AA-MX	CC07AA-MX	CD07CA-MX	CC07CA-MX	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	.75 (19)	.20 (5)	.39 (10)	.55 (14)
CD07AR-MX	CC07AR-MX	CD07CR-MX	CC07CR-MX	.08 - .20 (2 - 5)		PG 9	.60 (15.2)	.83 (21)	.24 (6)	.39 (10)
CD09AA-MX	CC09AA-MX	CD09CA-MX	CC09CA-MX	.16 - .31 (4 - 8)	PG 11		.73 (18.5)	.87 (22)	.24 (6)	.39 (10)
CD09AR-MX	CC09AR-MX	CD09CR-MX	CC09CR-MX	.08 - .24 (2 - 6)		PG 13	.80 (20.3)	.94 (24)	.26 (6.5)	.39 (10)
CD11AA-MX	CC11AA-MX	CD11CA-MX	CC11CA-MX	.24 - .39 (6 - 10)	PG 16		.89 (22.5)	.91 (23)	.26 (6.5)	.39 (10)
CD11AR-MX	CC11AR-MX	CD11CR-MX	CC11CR-MX	.12 - .28 (3 - 7)		PG 21	1.12 (28.4)	.94 (24)	.28 (7)	.47 (12)
CD13AA-MX	CC13AA-MX	CD13CA-MX	CC13CA-MX	.24 - .47 (6 - 12)	PG 29		1.47 (37.3)	1.14 (29)	.31 (8)	.47 (12)
CD13AR-MX	CC13AR-MX	CD13CR-MX	CC13CR-MX	.20 - .35 (5 - 9)		PG 36	1.85 (47)	1.38 (35)	.31 (8)	.59 (15)
CD16AA-MX	CC16AA-MX	CD16CA-MX	CC16CA-MX	.39 - .55 (10 - 14)	PG 42		2.13 (54.1)	1.46 (37)	.35 (9)	.59 (15)
CD16AR-MX	CC16AR-MX	CD16CR-MX	CC16CR-MX	.28 - .47 (7 - 12)		PG 48	2.34 (59.4)	1.50 (38)	.39 (10)	.59 (15)
CD21AA-MX	CC21AA-MX	CD21CA-MX	CC21CA-MX	.55 - .71 (14 - 18)						
CD21AR-MX	CC21AR-MX	CD21CR-MX	CC21CR-MX	.39 - .63 (10 - 16)						
CD29AA-MX	CC29AA-MX	CD29CA-MX	CC29CA-MX	.79 - .98 (20 - 25)						
CD29AR-MX	CC29AR-MX	CD29CR-MX	CC29CR-MX	.51 - .79 (13 - 20)						
CD36AA-MX	CC36AA-MX	CD36CA-MX	CC36CA-MX	.87 - 1.26 (22 - 32)						
CD36AR-MX	CC36AR-MX	CD36CR-MX	CC36CR-MX	.79 - 1.02 (20 - 26)						
CD42AA-MX	CC42AA-MX	CD42CA-MX	CC42CA-MX	1.26 - 1.50 (32 - 38)						
CD42AR-MX	CC42AR-MX	CD42CR-MX	CC42CR-MX	.98 - 1.22 (25 - 31)						
CD48AA-MX	CC48AA-MX	CD48CA-MX	CC48CA-MX	1.46 - 1.73 (37 - 44)						
CD48AR-MX	CC48AR-MX	CD48CR-MX	CC48CR-MX	1.14 - 1.38 (29 - 35)						





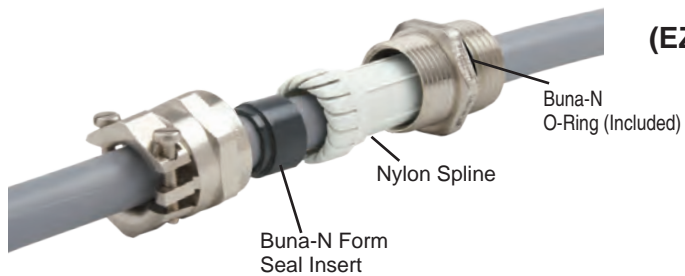
Elongated PG Threads are recommended where the Cable Gland has to pass through a thick wall or the application just needs the Extra Thread Length.



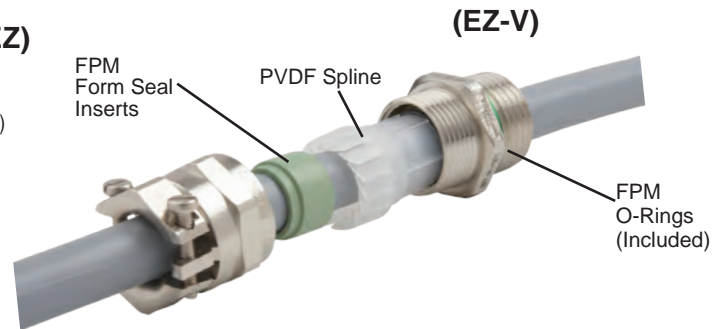
For Non-Armored Cable

Nickel Plated Brass Cable Glands with MZ Clamp for Hazardous Duty Locations, Nylon/PVDF Splines with Buna-N/ FPM Inserts, V0, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

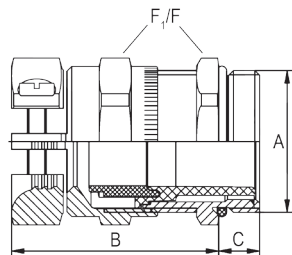
Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F ₁ /F
		Inches (mm)	Page 59 for Thread Specs	Clearance Hole +.01" (+.25 mm)	Body Length (Clamp)	Thread Length	Wrench Flats
CD09NA-EZ	CD09NA-EZ-V	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	1.10 (28)	.59 (15)	.67 (17) / .75 (19)
CD13NA-EZ	CD13NA-EZ-V	.28 - .47 (7 - 12)	1/2" NPT	.83 (21.1)	1.30 (33)	.51 (13)	.87 (22) / .94 (24)
CD21NA-EZ	CD21NA-EZ-V	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.46 (37)	.51 (13)	1.18 (30)
CD29NA-EZ	-	.79 - .98 (20 - 25)	1" NPT	1.35 (34.3)	1.69 (43)	.75 (19)	1.57 (40)
CD12MA-EZ	CD12MA-EZ-V	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	1.02 (26)	.26 (6.5)	.55 (14)
CD16MA-EZ	CD16MA-EZ-V	.16 - .31 (4 - 8)	M16 x 1.5	.63(16)	1.10 (28)	.24 (6)	.75 (19)
CD17MA-EZ	CD17MA-EZ-V	.24 - .39 (6 - 10)	M16 x 1.5	.73 (16)	1.18 (30)	.24 (6)	.79 (20)
CD20MA-EZ	CD20MA-EZ-V	.24 - .47 (6 - 12)	M20 x 1.5	.79 (20)	1.30 (33)	.24 (6)	.87 (22)
CD22MA-EZ	CD22MA-EZ-V	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	1.30 (33)	.24 (6)	.94 (24)
CD25MA-EZ	CD25MA-EZ-V	.55 - .71 (14 - 18)	M25 x 1.5	.98 (25)	1.46 (37)	.28 (7)	1.18 (30)
CD32MA-EZ	CD32MA-EZ-V	.79 - .98 (20 - 25)	M32 x 1.5	1.26 (32)	1.69 (43)	.31 (8)	1.57 (40)
CD40MA-EZ	CD40MA-EZ-V	.94 - 1.26 (24 - 32)	M40 x 1.5	1.57 (40)	1.97 (50)	.31 (8)	1.97 (50)
CD50MA-EZ	-	1.26 - 1.50 (32 - 38)	M50 x 1.5	1.97 (50)	2.01 (51)	.35 (9)	2.24 (57)
CD63MA-EZ	-	1.46 - 1.73 (37 - 44)	M63 x 1.5	2.48 (63)	2.04 (52)	.39 (10)	2.52 (64) / 2.68 (68)
CD07AA-EZ	CD07AA-EZ-V	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	1.02 (26)	.20 (5)	.55 (14)
CD09AA-EZ	CD09AA-EZ-V	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	1.10 (28)	.24 (6)	.67 (17)
CD11AA-EZ	CD11AA-EZ-V	.24 - .39 (6 - 10)	PG 11	.73 (18.5)	1.14 (29)	.24 (6)	.79 (20)
CD13AA-EZ	CD13AA-EZ-V	.28 - .47 (7 - 12)	PG 13	.80 (20.3)	1.30 (33)	.24 (6)	.87 (22)
CD16AA-EZ	CD16AA-EZ-V	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	1.30 (33)	.24 (6)	.94 (24)
CD21AA-EZ	CD21AA-EZ-V	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	1.46 (37)	.28 (7)	1.18 (30)
CD29AA-EZ	CD29AA-EZ-V	.79 - .98 (20 - 25)	PG 29	1.47 (37.3)	1.69 (43)	.31 (8)	1.57 (40)
CD36AA-EZ	CD36AA-EZ-V	.94 - 1.26 (24 - 32)	PG 36	1.85 (47)	1.97 (50)	.31 (8)	1.97 (50)
CD42AA-EZ	CD42AA-EZ-V	1.26 - 1.50 (32 - 38)	PG 42	2.13 (54.1)	2.01 (51)	.35 (9)	2.24 (57)
CD48AA-EZ	CD48AA-EZ-V	1.46 - 1.73 (37 - 44)	PG 48	2.34 (59.4)	2.04 (52)	.39 (10)	2.52 (64)



(EZ)



(EZ-V)




Nickel Plated Brass with MZ Clamps
 • Extra Pull-out Resistance and Cable torque prevention

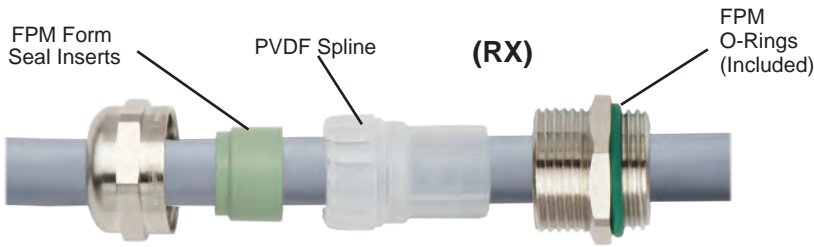
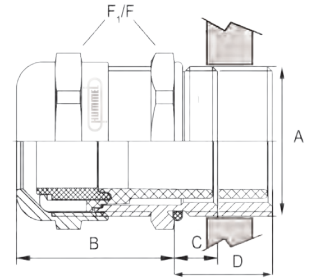


For Non-Armored Cable

Nickel Plated Brass Cable Glands for Hazardous Duty Locations, **PVDF Spline with FPM Insert, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR**



Part Numbers	Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
			A	B	C	F ₁ /F
-4°F to 266°F (-20°C to 130°C)			Clearance Hole	Body Length	Thread Length	Wrench Flats
	Inches (mm)	Page 59 for Thread Specs	+ .01" (+.25 mm)	(Dome)	(Standard)	
CD09NA-RX	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	.83 (21)	.59 (15)	.67 (17) / .75 (19)
CD09NR-RX	.08 - .24 (2 - 6)					
CD13NA-RX	.24 - .47 (6 - 12)	1/2" NPT	.83 (21.1)	.94 (24)	.51 (13)	.87 (22) / .94 (24)
CD13NR-RX	.20 - .35 (5 - 9)					
CD21NA-RX	.55 - .71 (14 - 18)	3/4" NPT	1.05 (26.7)	.98 (25)	.51 (13)	1.18 (30)
CD21NR-RX	.39 - .63 (10 - 16)					

Elongated Thread is recommend where the Cable Glands has to pass through a thick wall or the application just needs the Extra Thread Length.





PVDF is Ideal for Higher Temperature Applications!

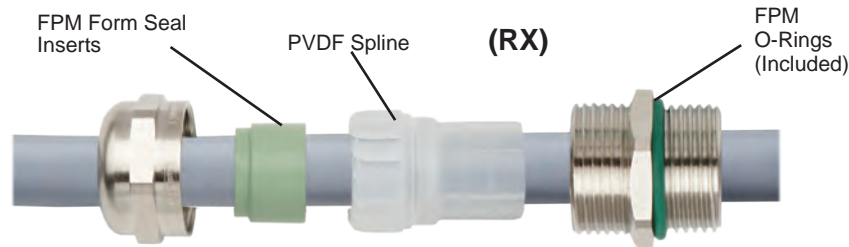
Nickel Plated Brass Cable Glands for Hazardous Duty Locations, **PVDF Spline with FPM Insert, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR**

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 266°F (-20°C to 130°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	D	F ₁ /F
		Inches (mm)	Page 59 for Thread Specs	Clearance Hole	Body Length	Thread Length	Thread Length	Wrench Flats
(Standard)	(Elongated)			+ .01" (+.25 mm)	(Dome)	(Standard)	(Elongated)	
CD12MA-RX	CD12DA-RX	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	.75 (19)	.26 (6.5)	.39 (10)	.55 (14)
CD12MR-RX	CD12DR-RX	.08 - .20 (2 - 5)						
CD16MA-RX	CD16DA-RX	.16 - .31 (4 - 8)	M16 x 1.5	.63 (16)	.83 (21)	.24 (6)	.39 (10)	.67 (17) / .75 (19)
CD16MR-RX	CD16DR-RX	.08 - .24 (2 - 6)						
CD17MA-RX	CD17DA-RX	.24 - .39 (6 - 10)	M16 x 1.5	.63 (16)	.87 (22)	.24 (6)	.39 (10)	.79 (20)
CD17MR-RX	CD17DR-RX	.12 - .28 (3 - 7)						
CD20MA-RX	CD20DA-RX	.24 - .47 (6 - 12)	M20 x 1.5	.79 (20)	.91 (23)	.24 (6)	.39 (10)	.87 (22)
CD20MR-RX	CD20DR-RX	.20 - .35 (5 - 9)						
CD22MA-RX	CD22DA-RX	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	.94 (24)	.24 (6)	.39 (10)	.94 (24)
CD22MR-RX	CD22DR-RX	.28 - .47 (7 - 12)						
CD25MA-RX	CD25DA-RX	.55 - .71 (14 - 18)	M25 x 1.5	.98 (25)	1.02 (26)	.28 (7)	.47 (12)	1.18 (30)
CD25MR-RX	CD25DR-RX	.39 - .63 (10 - 16)						
CD32MA-RX	CD32DA-RX	.79 - .98 (20 - 25)	M32 x 1.5	1.26 (32)	1.22 (31)	.31 (8)	.47 (12)	1.57 (40)
CD32MR-RX	CD32DR-RX	.51 - .79 (13 - 20)						
CD40MA-RX	CD40DA-RX	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	1.46 (37)	.31 (8)	.59 (15)	1.97 (50)
CD40MR-RX	CD40DR-RX	.79 - 1.02 (20 - 26)						

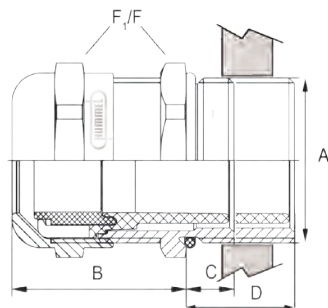
For Non-Armored Cable

Nickel Plated Brass Cable Glands for Hazardous Duty Locations, PVDF Splines with FPM Insert, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

Part Numbers		Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 266°F (-20°C to 130°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	D	F ₁ /F
		Inches (mm)	Page 59 for Thread Specs	Clearance Hole +.01" (+.25 mm)	Body Length (Dome)	Thread Length (Standard)	Thread Length (Elongated)	Wrench Flats
CD07AA-RX	CD07CA-RX	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	.75 (19)	.20 (5)	.39 (10)	.55 (14)
CD07AR-RX	CD07CR-RX	.08 - .20 (2 - 5)	PG 9	.60 (15.2)	.83 (21)	.24 (6)	.39 (10)	.67 (17)
CD09AA-RX	CD09CA-RX	.16 - .31 (4 - 8)	PG 11	.73 (18.5)	.87 (22)	.24 (6)	.39 (10)	.79 (20)
CD09AR-RX	CD09CR-RX	.08 - .24 (2 - 6)	PG 13	.80 (20.3)	.94 (24)	.26 (6.5)	.39 (10)	.87 (22)
CD11AA-RX	CD11CA-RX	.24 - .39 (6 - 10)	PG 16	.89 (22.5)	.91 (23)	.26 (6.5)	.39 (10)	.94 (24)
CD11AR-RX	CD11CR-RX	.12 - .28 (3 - 7)	PG 21	1.12 (28.4)	.94 (24)	.28 (7)	.47 (12)	1.18 (30)
CD13AA-RX	CD13CA-RX	.24 - .47 (6 - 12)	PG 29	1.47 (37.3)	1.14 (29)	.31 (8)	.47 (12)	1.57 (40)
CD13AR-RX	CD13CR-RX	.20 - .35 (5 - 9)	PG 36	1.85 (47)	1.38 (35)	.31 (8)	.59 (15)	1.97 (50)
CD16AA-RX	CD16CA-RX	.39 - .55 (10 - 14)	PG 42	2.13 (54.1)	1.46 (37)	.35 (9)	.59 (15)	2.24 (57)
CD16AR-RX	CD16CR-RX	.28 - .47 (7 - 12)	PG 48	2.34 (59.4)	1.50 (38)	.39 (10)	.59 (15)	2.52 (64)
CD21AA-RX	CD21CA-RX	.55 - .71 (14 - 18)						
CD21AR-RX	CD21CR-RX	.39 - .63 (10 - 16)						
CD29AA-RX	CD29CA-RX	.79 - .98 (20 - 25)						
CD29AR-RX	CD29CR-RX	.51 - .79 (13 - 20)						
CD36AA-RX	CD36CA-RX	.87 - 1.26 (22 - 32)						
CD36AR-RX	CD36CR-RX	.79 - 1.02 (20 - 26)						
CD42AA-RX	CD42CA-RX	1.26 - 1.50 (32 - 38)						
CD42AR-RX	CD42CR-RX	.98 - 1.22 (25 - 31)						
CD48AA-RX	CD48CA-RX	1.46 - 1.73 (37 - 44)						
CD48AR-RX	CD48CR-RX	1.14 - 1.38 (29 - 35)						



PVDF is Ideal for Higher Temperature Applications!



Elongated Thread is recommended where the Cable Gland has to pass through a thick wall or the application just needs the Extra Thread Length.

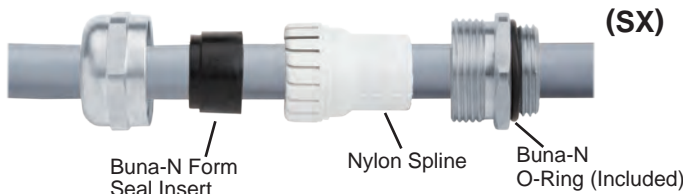
Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

For Non-Armored Cable

(303) Stainless Steel (INOX) Cable Glands for Hazardous Duty Locations, Low Temperature, Nylon/PVDF Clamping Spline with Buna-N/ FPM Inserts, V0, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

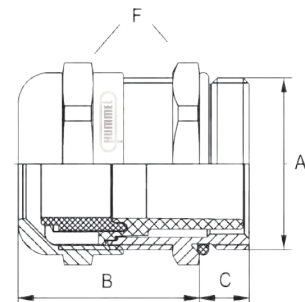
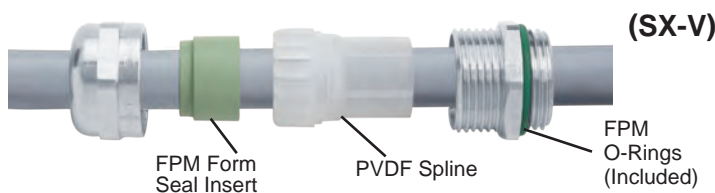
Part Numbers			Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-78°F to 203°F (-60°C to 95°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F
			Inches (mm)	Page 59 for Thread Specs	Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length	Wrench Flats
CD12MA-SX	CC12MA-SX	CD12MA-SX-V	.12 - .26 (3 - 6.5)	M12 x 1.5	.47 (12)	.75 (19)	.26 (6.5)	.55 (14)
CD12MR-SX	CC12MR-SX	CD12MR-SX-V	.08 - .20 (2 - 5)					
CD17MA-SX	CC17MA-SX	CD17MA-SX-V	.20 - .39 (5 - 10)	M16 x 1.5	.63 (16)	.87 (22)	.24 (6)	.87 (22)
CD17MR-SX	CC17MR-SX	CD17MR-SX-V	.12 - .28 (3 - 7)					
CD22MA-SX	CC22MA-SX	CD22MA-SX-V	.39 - .55 (10 - 14)	M20 x 1.5	.79 (20)	.91 (23)	.24 (6)	.94 (24)
CD22MR-SX	CC22MR-SX	CD22MR-SX-V	.28 - .47 (7 - 12)					
CD25MA-SX	CC25MA-SX	CD25MA-SX-V	.51 - .71 (13 - 18)	M25 x 1.5	.98 (25)	.94 (24)	.28 (7)	1.18 (30)
CD25MR-SX	CC25MR-SX	CD25MR-SX-V	.35 - .63 (9 - 16)					
CD32MA-SX	CC32MA-SX	CD32MA-SX-V	.79 - .98 (20 - 25)	M32 x 1.5	1.26 (32)	1.14 (29)	.31 (8)	1.61 (41)
CD32MR-SX	CC32MR-SX	CD32MR-SX-V	.51 - .79 (13 - 20)					
CD40MA-SX	CC40MA-SX	CD40MA-SX-V	.87 - 1.26 (22 - 32)	M40 x 1.5	1.57 (40)	1.38 (35)	.31 (8)	1.97 (50)
CD40MR-SX	CC40MR-SX	CD40MR-SX-V	.79 - 1.02 (20 - 26)					
CD07AA-SX	CC07AA-SX	CD07AA-SX-V	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	.75 (19)	.20 (5)	.55 (14)
CD07AR-SX	CC07AR-SX	CD07AR-SX-V	.08 - .20 (2 - 5)					
CD09AA-SX	CC09AA-SX	CD09AA-SX-V	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	.83 (21)	.24 (6)	.67 (17)
CD09AR-SX	CC09AR-SX	CD09AR-SX-V	.08 - .24 (2 - 6)					
CD11AA-SX	CC11AA-SX	CD11AA-SX-V	.20 - .39 (5 - 10)	PG 11	.73 (18.5)	.87 (22)	.24 (6)	.87 (22)
CD11AR-SX	CC11AR-SX	CD11AR-SX-V	.12 - .28 (3 - 7)					
CD13AA-SX	CC13AA-SX	CD13AA-SX-V	.24 - .47 (6 - 12)	PG 13	.80 (20.3)	.94 (24)	.24 (6)	.87 (22)
CD13AR-SX	CC13AR-SX	CD13AR-SX-V	.20 - .35 (5 - 9)					
CD16AA-SX	CC16AA-SX	CD16AA-SX-V	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	.91 (23)	.24 (6)	.94 (24)
CD16AR-SX	CC16AR-SX	CD16AR-SX-V	.28 - .47 (7 - 12)					
CD21AA-SX	CC21AA-SX	CD21AA-SX-V	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	.94 (24)	.28 (7)	1.18 (30)
CD21AR-SX	CC21AR-SX	CD21AR-SX-V	.35 - .63 (9 - 16)					
CD29AA-SX	CC29AA-SX	CD29AA-SX-V	.79 - .98 (20 - 25)	PG 29	1.47 (37.3)	1.14 (29)	.31 (8)	1.61 (41)
CD29AR-SX	CC29AR-SX	CD29AR-SX-V	.51 - .79 (13 - 20)					
CD36AA-SX	CC36AA-SX	CD36AA-SX-V	.87 - 1.26 (22 - 32)	PG 36	1.85 (47)	1.38 (35)	.31 (8)	1.97 (50)
CD36AR-SX	CC36AR-SX	CD36AR-SX-V	.79 - 1.02 (20 - 26)					

*CE & CSA apply to all SX style cable glands.



Also available 316L Stainless Steel
e.g. - CDxxxx-6X & CDxxxx-6X-V
See more information online




Nylon is Ideal for Lower Temperature Applications!



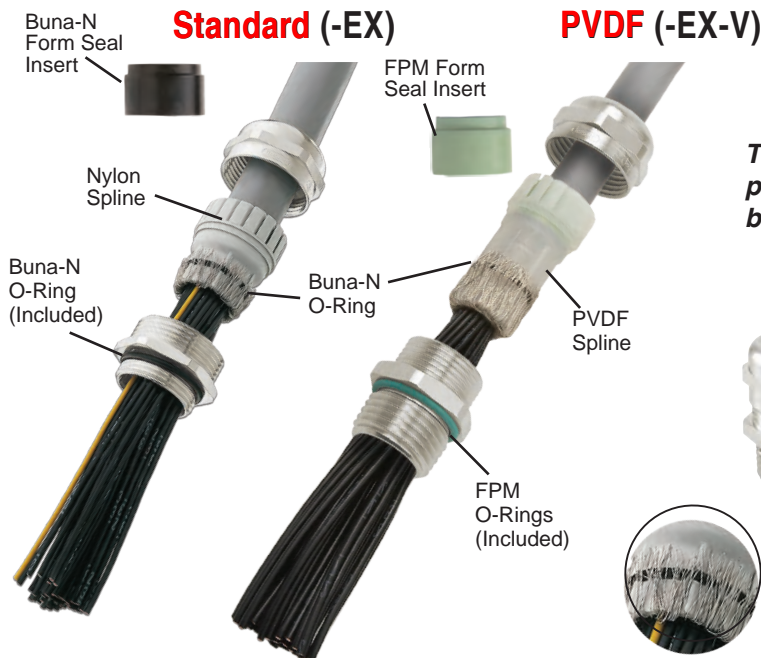
PVDF is Ideal for Higher Temperature Applications!

For Non-Armored Braided Cable

Nickel Plated Brass, Cable Glands EMI/RFI Proof for Braided Cables for Hazardous Duty Locations, Low Temperatures, Nylon/PVDF Spline with Buna-N & FPM Inserts, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

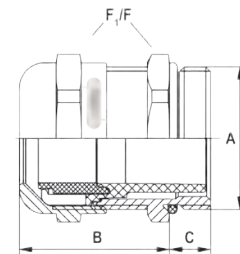
Part Numbers			Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F ₁ /F
 (Nylon Spline w/ Buna-N)	 (Nylon Spline Low Temp.)	 (PVDF Spline w/ FPM)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole +.01" (+.25 mm)	Body Length (Dome)	Thread Length	Wrench Flats
CD09NA-EX	CC09NA-EX	CD09NA-EX-V			.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	.83 (21)
CD09NR-EX	CC09NR-EX	CD09NR-EX-V	.08 - .24 (2 - 6)	1/2" NPT	.83 (21.1)	.94 (24)	.51 (13)	.87 (22) / .94 (24)
CD13NA-EX	CC13NA-EX	CD13NA-EX-V	.24 - .47 (6 - 12)					
CD13NR-EX	CC13NR-EX	CD13NR-EX-V	.20 - .35 (5 - 9)	3/4" NPT	1.05 (26.7)	.98 (25)	.51 (13)	1.18 (30)
CD21NA-EX	CC21NA-EX	CD21NA-EX-V	.55 - .71 (14 - 18)					
CD21NR-EX	CC21NR-EX	CD21NR-EX-V	.39 - .63 (10 - 16)	M12 x 1.5	.47 (12)	.75 (19)	.26 (6.5)	.55 (14)
CD12MA-EX	CC12MA-EX	-	.12 - .26 (3 - 6.5)					
CD12MR-EX	CC12MR-EX	-	.08 - .20 (2 - 5)	M16 x 1.5	.63 (16)	.87 (22)	.24 (6)	.79 (20)
CD17MA-EX	CC17MA-EX	-	.24 - .39 (6 - 10)					
CD17MR-EX	CC17MR-EX	-	.12 - .27 (3 - 7)	M20 x 1.5	.79 (20)	.91 (23)	.24 (6)	.94 (24)
CD22MA-EX	CC22MA-EX	-	.39 - .55 (10 - 14)					
CD22MR-EX	CC22MR-EX	-	.27 - .47 (7 - 12)	M25 x 1.5	.98 (25)	.94 (24)	.28 (7)	1.18 (30)
CD25MA-EX	CC25MA-EX	-	.55 - .71 (14 - 18)					
CD25MR-EX	CC25MR-EX	-	.39 - .63 (10 - 16)	M32 x 1.5	1.26 (32)	1.22 (31)	.31 (8)	1.57 (40)
CD32MA-EX	CC32MA-EX	-	.79 - .98 (20 - 25)					
CD32MR-EX	CC32MR-EX	-	.51 - .79 (13 - 20)	M40 x 1.5	1.57 (40)	1.46 (37)	.31 (8)	1.97 (50)
CD40MA-EX	CC40MA-EX	-	.87 - 1.26 (22 - 32)					
CD40MR-EX	CC40MR-EX	-	.79 - 1.02 (20 - 26)	M50 x 1.5	1.97 (50)	1.46 (37)	.35 (9)	2.24 (57)
CD50MA-EX	CC50MA-EX	-	1.26 - 1.50 (32 - 38)					
CD50MR-EX	CC50MR-EX	-	.98 - 1.22 (25 - 31)	M63 x 1.5	2.48 (63)	1.50 (38)	.39 (10)	2.52 (64) / 2.68 (68)
CD63MA-EX	CC63MA-EX	-	1.46 - 1.73 (37 - 44)					
CD63MR-EX	CC63MR-EX	-	1.14 - 1.38 (29 - 35)					

*CE apply to all "-EX" style cable glands.



Elongated Threads are also available in Metric Stainless Steel

The Standard version has an integral O-ring, which presses the braiding against the inside wall of the body. Can only be used with braided shield.






Patented 360° grounding due to the internal O-Ring, ensures perfect contact between braided shield of cable and fitting.

Ex-d EXIOS Cable Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Nylon Glands
Ex-e Multi-Hole & Romex Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information

For Non-Armored Braided Cable

Nickel Plated Brass, Cable Glands EMI/RFI Braided Cables for Hazardous Duty Locations, Low Temperatures, Nylon/PVDF Spline with Buna-N & FPM Inserts, V0, UL94, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

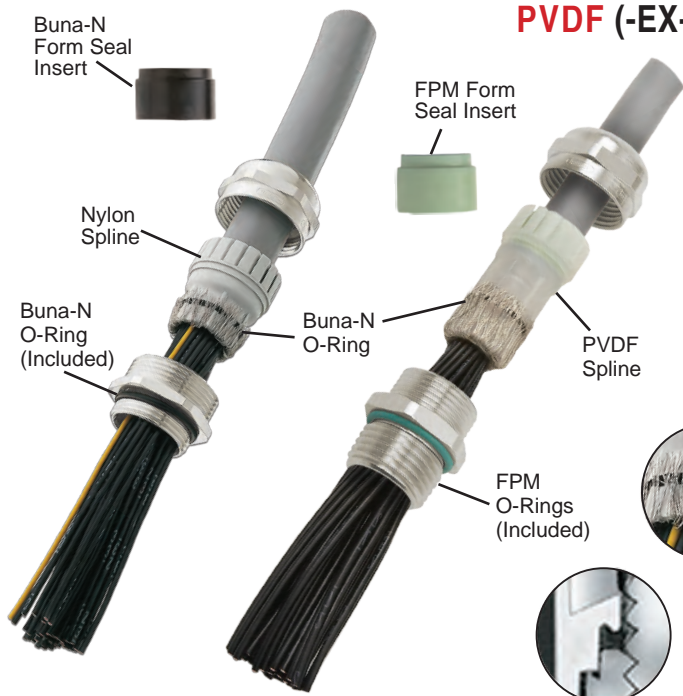
Part Numbers			Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F
 (Nylon Spline w/ Buna-N)	 (Nylon Spline Low Temp.)	 (PVDF Spline w/ FPM)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length	Wrench Flats
CD07AA-EX	CC07AA-EX	CD07AA-EX-V	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	.75 (19)	.20 (5)	.55 (14)
CD07AR-EX	CC07AR-EX	CD07AR-EX-V	.08 - .20 (2 - 5)					
CD09AA-EX	CC09AA-EX	CD09AA-EX-V	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	.83 (21)	.24 (6)	.67 (17)
CD09AR-EX	CC09AR-EX	CD09AR-EX-V	.08 - .24 (2 - 6)					
CD11AA-EX	CC11AA-EX	CD11AA-EX-V	.24 - .39 (6 - 10)	PG 11	.73 (18.5)	.87 (22)	.24 (6)	.79 (20)
CD11AR-EX	CC11AR-EX	CD11AR-EX-V	.12 - .28 (3 - 7)					
CD13AA-EX	CC13AA-EX	CD13AA-EX-V	.24 - .47 (6 - 12)	PG 13	.80 (20.3)	.94 (24)	.26 (6.5)	.87 (22)
CD13AR-EX	CC13AR-EX	CD13AR-EX-V	.20 - .35 (5 - 9)					
CD16AA-EX	CC16AA-EX	CD16AA-EX-V	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	.91 (23)	.26 (6.5)	.94 (24)
CD16AR-EX	CC16AR-EX	CD16AR-EX-V	.28 - .47 (7 - 12)					
CD21AA-EX	CC21AA-EX	CD21AA-EX-V	.55 - .71 (14 - 18)	PG 21	1.12 (28.4)	.94 (24)	.28 (7)	1.18 (30)
CD21AR-EX	CC21AR-EX	CD21AR-EX-V	.39 - .63 (10 - 16)					
CD29AA-EX	CC29AA-EX	CD29AA-EX-V	.79 - .98 (20 - 25)	PG 29	1.47 (37.3)	1.14 (29)	.31 (8)	1.57 (40)
CD29AR-EX	CC29AR-EX	CD29AR-EX-V	.51 - .79 (13 - 20)					
CD36AA-EX	CC36AA-EX	CD36AA-EX-V	.87 - 1.26 (22 - 32)	PG 36	1.85 (47)	1.38 (35)	.31 (8)	1.97 (50)
CD36AR-EX	CC36AR-EX	CD36AR-EX-V	.79 - 1.02 (20 - 26)					
CD42AA-EX	CC42AA-EX	CD42AA-EX-V	1.26 - 1.50 (32 - 38)	PG 42	2.13 (54.1)	1.46 (37)	.35 (9)	2.24 (57)
CD42AR-EX	CC42AR-EX	CD42AR-EX-V	.98 - 1.22 (25 - 31)					
CD48AA-EX	CC48AA-EX	CD48AA-EX-V	1.46 - 1.73 (37 - 44)	PG 48	2.34 (59.4)	1.50 (38)	.39 (10)	2.52 (64)
CD48AR-EX	CC48AR-EX	CD48AR-EX-V	1.14 - 1.38 (29 - 35)					

Elongated Threads also available in PG

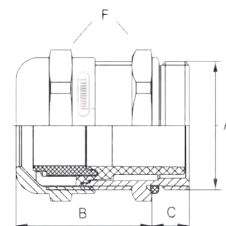
*CE apply to all "-EX" style cable glands.

Standard (-EX)

PVDF (-EX-V)



The Standard version has an integral O-Ring, which presses the braiding against the inside wall of the body. Can only be used with braided shield.







Patented 360° grounding due to the internal O-Ring, ensures perfect contact between braided shield of cable and fitting.

The patented internal sealing edge results in a superior seal between the Nylon & PVDF clamping splines and Nickel Plated Brass body.

For Non-Armored Foil & Braided Cable

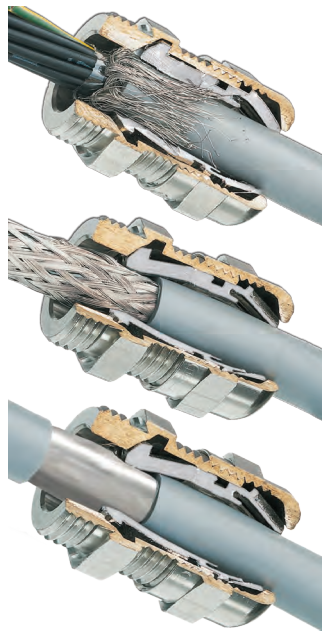
Nickel Plated Brass, Cable Glands for EMI/RFI Braided & Foil Shielded Cables in Hazardous Duty Locations, Low Temperature, Metallized Nylon Spline with Buna-N Inserts, V0, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

Part Numbers				Cable Range	Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 203°F (-20°C to 95°C)	-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)	-76°F to 203°F (-60°C to 95°C)			A	B	C	D	F
 (Standard)	 (Elongated)	 (Standard Low Temp.)	 (Elongated Low Temp.)	Inches (mm)	Page 59 for Thread Specs	Clearance Hole + .01" (+.25 mm)	Body Length (Dome)	Thread Length (Standard)	Thread Length (Elongated)	Wrench Flats
CD17MA-FX	CD17DA-FX	CC17MA-FX	CC17DA-FX			.20 - .39 (5 - 10)	M16 x 1.5	.73 (18.5)	1.14 (29)	.24 (6)
CD22MA-FX	CD22DA-FX	CC22MA-FX	CC22DA-FX	.39 - .55 (10 - 14)	M20 x 1.5	.89 (22.5)	1.22 (31)	.24 (6)	.39 (10)	.94 (24)
CD25MA-FX	CD25DA-FX	CC25MA-FX	CC25DA-FX	.51 - .71 (13 - 18)	M25 x 1.5	1.12 (28.4)	1.49 (38)	.28 (7)	.47 (12)	1.18 (30)
CD32MA-FX	CD32DA-FX	CC32MA-FX	CC32DA-FX	.71 - .98 (18 - 25)	M32 x 1.5	1.47 (37.3)	1.69 (43)	.31 (8)	.47 (12)	1.57 (40)
CD40MA-FX	CD40DA-FX	CC40MA-FX	CC40DA-FX	.94 - 1.26 (24 - 32)	M40 x 1.5	1.85 (47)	2.03 (51)	.31 (8)	.59 (15)	1.97 (50)
CD11AA-FX	-	CC11AA-FX	-	.20 - .39 (5 - 10)	PG 11	.73 (18.5)	1.14 (29)	.24 (6)	-	.79 (20)
CD13AA-FX	-	CC13AA-FX	-	.24 - .47 (6 - 12)	PG 13	.80 (20.3)	1.22 (31)	.26 (6.5)	-	.87 (22)
CD16AA-FX	-	CC16AA-FX	-	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	1.26 (32)	.26 (6.5)	-	.94 (24)
CD21AA-FX	-	CC21AA-FX	-	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	1.49 (38)	.28 (7)	-	1.18 (30)
CD29AA-FX	-	CC29AA-FX	-	.71 - .98 (18 - 25)	PG 29	1.47 (37.3)	1.69 (43)	.31 (8)	-	1.57 (40)
CD36AA-FX	-	CC36AA-FX	-	.87 - 1.26 (22 - 32)	PG 36	1.85 (47)	1.89 (48)	.31 (8)	-	1.97 (50)

*Note: Approval rating applies to Metric Threads only.
*CE apply to all EX style (Nylon Spline) cable glands.

Feed-Through (-FX)

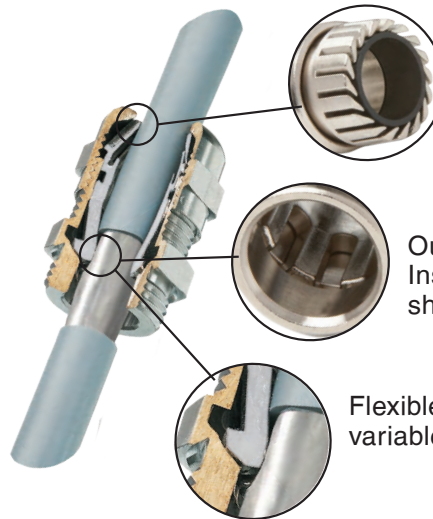
Feed-Through works well with foil or braided shield and provides reliable grounding by means of metal spring fingers.



Fold Shield Over Jacket

Total Jacket Removal

Partial Jacket Stripping



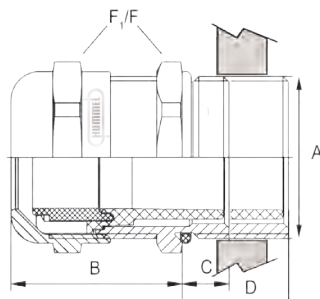
Overlapping clamping splines apply a concentric force, preventing the form seal from being pulled out of the fitting. This ensures pull-out protection without damage to the cable.

Our Metal-Coated Nylon Spline Insert provides the highest electrical shielding in the industry.

Flexible contact points allow contact with variable braid and foil cable diameters.



(FX)



Elongated Thread is recommended where the Cable Glands have to pass through a thick wall or an application that needs the Extra Thread Length.






Use our recommended EMI Locking Nuts with cutting edges which cut through paint to ensure proper grounding (see page 47).

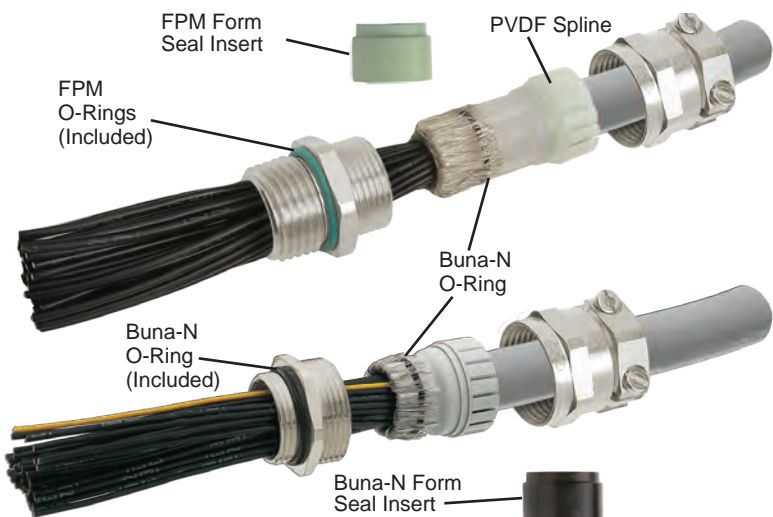
Ex-d EXIOS Cable Glands
Ex-d Nickel Plated Brass & Stainless Steel Glands
Nylon Glands
Ex-e Multi-Hole & Nylon Glands
Ex-e Multi-Hole & Nylon Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information

For Non-Armored Braided Cable

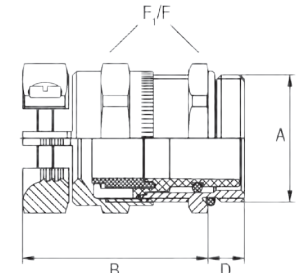
Nickel Plated Brass, Cable Glands for EMI/RFI Braided Cables in Hazardous Duty Locations, Low Temperature, Nylon/PVDF Spline with Buna-N & FPM Inserts, V0, NEMA 6, 150 PSIG, IP 68/69K, 10 BAR

Part Numbers			Cable Range	Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-76°F to 203°F (-60°C to 95°C)	-4°F to 266°F (-20°C to 130°C)			A	B	C	F ₁ /F
			Inches (mm)	Page 59 for Thread Specs	Clearance Hole +.01" (+.25 mm)	Body Length (Clamp)	Thread Length	Wrench Flats
CD09NA-EXZ	CC09NA-EXZ	CD09NA-EXZ-V	.16 - .31 (4 - 8)	3/8" NPT	.68 (17.2)	1.06 (27)	.59 (15)	.67/.75 (17/19)
CD13NA-EXZ	CC13NA-EXZ	CD13NA-EXZ-V	.28 - .47 (7 - 12)	1/2" NPT	.83 (21.1)	1.22 (31)	.51 (13)	.87/.94 (22/24)
CD21NA-EXZ	CC21NA-EXZ	CD21NA-EXZ-V	.51 - .71 (13 - 18)	3/4" NPT	1.05 (26.7)	1.42 (36)	.51 (13)	1.18 (30)
CD12MA-EXZ	CC12MA-EXZ	-	.12 - .26 (3 - 6.5)	M12 x 1.5	.49 (12.5)	1.02 (26)	.26 (6.5)	.55 (14)
CD17MA-EXZ	CC17MA-EXZ	-	.24 - .39 (6 - 10)	M16 x 1.5	.73 (18.5)	1.14 (29)	.24 (6)	.79 (20)
CD22MA-EXZ	CC22MA-EXZ	-	.39 - .55 (10 - 14)	M20 x 1.5	.89 (22.5)	1.26 (32)	.24 (6)	.94 (24)
CD25MA-EXZ	CC25MA-EXZ	-	.55 - .71 (14 - 18)	M25 x 1.5	1.12 (28.4)	1.38 (35)	.28 (7)	1.18 (30)
CD32MA-EXZ	CC32MA-EXZ	-	.79 - .98 (20 - 25)	M32 x 1.5	1.47 (37.3)	1.61 (41)	.31 (8)	1.57 (40)
CD40MA-EXZ	CC40MA-EXZ	-	.94 - 1.26 (24 - 32)	M40 x 1.5	1.85 (47)	1.89 (48)	.31 (8)	1.97 (50)
CD50MA-EXZ	CC50MA-EXZ	-	1.26 - 1.50 (32 - 38)	M50 x 1.5	1.85 (47)	2.01 (51)	.35 (9)	2.24 (57)
CD50MR-EXZ	CC50MR-EXZ	-	1.10 - 1.22 (28 - 31)					
CD63MA-EXZ	CC63MA-EXZ	-	1.46 - 1.73 (37 - 44)	M63 x 1.5	1.85 (47)	2.04 (52)	.39 (10)	2.68 (68)
CD63MR-EXZ	CC63MR-EXZ	-	1.26 - 1.38 (32 - 35)					
CD07AA-EXZ	CC07AA-EXZ	CD07AA-EXZ-V	.12 - .26 (3 - 6.5)	PG 7	.49 (12.5)	1.02 (26)	.20 (5)	.55 (14)
CD09AA-EXZ	CC09AA-EXZ	CD09AA-EXZ-V	.16 - .31 (4 - 8)	PG 9	.60 (15.2)	1.10 (28)	.24 (6)	.67 (17)
CD11AA-EXZ	CC11AA-EXZ	CD11AA-EXZ-V	.24 - .39 (6 - 10)	PG 11	.73 (18.5)	1.14 (29)	.24 (6)	.79 (20)
CD13AA-EXZ	CC13AA-EXZ	CD13AA-EXZ-V	.28 - .47 (7 - 12)	PG 13	.80 (20.3)	1.30 (33)	.26 (6.5)	.87 (22)
CD16AA-EXZ	CC16AA-EXZ	CD16AA-EXZ-V	.39 - .55 (10 - 14)	PG 16	.89 (22.5)	1.26 (32)	.26 (6.5)	.94 (24)
CD21AA-EXZ	CC21AA-EXZ	CD21AA-EXZ-V	.51 - .71 (13 - 18)	PG 21	1.12 (28.4)	1.38 (35)	.28 (7)	1.18 (30)
CD29AA-EXZ	CC29AA-EXZ	CD29AA-EXZ-V	.79 - .98 (20 - 25)	PG 29	1.47 (37.3)	1.61 (41)	.31 (8)	1.57 (40)
CD36AA-EXZ	CC36AA-EXZ	CD36AA-EXZ-V	.94 - 1.26 (24 - 32)	PG 36	1.85 (47)	1.89 (48)	.31 (8)	1.97 (50)
CD42AA-EXZ	CC42AA-EXZ	CD42AA-EXZ-V	1.26 - 1.50 (32 - 38)	PG 42	2.13 (54.1)	2.01 (51)	.35 (9)	2.24 (57)
CD42AR-EXZ	CC42AR-EXZ	CD42AR-EXZ-V	1.10 - 1.22 (28 - 31)					
CD48AA-EXZ	CC48AA-EXZ	CD48AA-EXZ-V	1.46 - 1.73 (37 - 44)	PG 48	2.34 (59.4)	2.01 (51)	.39 (10)	2.52 (64)
CD48AR-EXZ	CC48AR-EXZ	CD48AR-EXZ-V	1.26 - 1.38 (32 - 35)					

*CE apply to all EX style (Nylon Spline) cable glands.



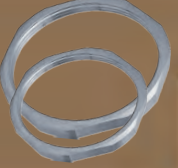
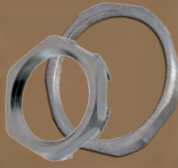



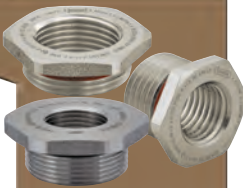




PVDF Clamp (-EXZ-V)



Standard Clamp (-EXZ)



- Nickel Plated Brass MZ Clamps**
- Extra Pull-out Resistance
 - Torque Prevention on Braid


	Locking Nuts 303 Stainless Steel	Page 41	Page 42	Locking Nuts Nickel Plated Brass	
	Locking Nuts Nylon (Black & Gray)	Page 43	Page 44	Hole Plugs Mushroom Hole Plugs	
	Hex Hole Plugs Nylon & Nickel Plated Brass	Page 45-46	Page 47-49	Thread Reducers Metric & PG	
	Seal Ring Fiber Reinforced Nylon	Page 50	Page 50	Earth Tags Grounding Tags	
	Washers Serrated Washers	Page 50	Page 50	Shroud Protective Sleeve	


Ex-d EXIOS Cable Glands
Ex-d Nickel Plated Brass & Stainless Steel Glands
Ex-e Nylon Glands
Ex-e Multi-Hole & Romex Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information

Locking Nuts - Accessories

(303) Stainless Steel (INOX) - Metric / PG Sizes

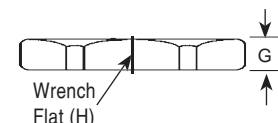


Locking Nuts: (303) Stainless Steel - Metric Threads			
Part Numbers	Thread Type & Size <small>Page 59 for Thread Specs</small>	Dimensions in Inches (mm)	
		G Thickness	H Wrench Flats
			
NM-12-SS	M12 x 1.5	.11 (2.8)	.59 (15)
NM-16-SS	M16 x 1.5	.11 (2.8)	.75 (19)
NM-20-SS	M20 x 1.5	.12 (3)	.94 (24)
NM-25-SS	M25 x 1.5	.14 (3.5)	1.18 (30)
NM-32-SS	M32 x 1.5	.14 (3.5)	1.42 (36)
NM-40-SS	M40 x 1.5	.20 (5)	1.81 (46)
NM-50-SS	M50 x 1.5	.20 (5)	2.24 (57)
NM-63-SS	M63 x 1.5	.24 (6)	2.76 (70)

Locking Nuts: (303) Stainless Steel - PG Threads			
Part Numbers	Thread Type & Size <small>Page 59 for Thread Specs</small>	Dimensions in Inches (mm)	
		G Thickness	H Wrench Flats
			
NP-07-SS	PG 7	.11 (2.8)	.67 (17)
NP-09-SS	PG 9	.11 (2.8)	.87 (22)
NP-11-SS	PG 11	.12 (3)	.87 (22)
NP-13-SS	PG 13 / 13.5	.12 (3)	.94 (24)
NP-16-SS	PG 16	.12 (3)	1.06 (27)
NP-21-SS	PG 21	.14 (3.5)	1.26 (32)
NP-29-SS	PG 29	.16 (4)	1.61 (41)
NP-36-SS	PG 36	.20 (5)	1.97 (50)

Typical applications for Stainless Steel:
Off-shore, Marine, Chemical Plants, Food Processing, Clean Room, Other Rugged Applications

(303) Stainless Steel Locking Nuts





Ex-d EXIOS
Cable Glands

Ex-d Nickel Plated Brass &
Stainless Steel Glands

Ex-e
Nylon Glands

Ex-e Multi-Hole &
Romex Glands


Ex-e Nickel Plated Brass &
Stainless Steel Glands

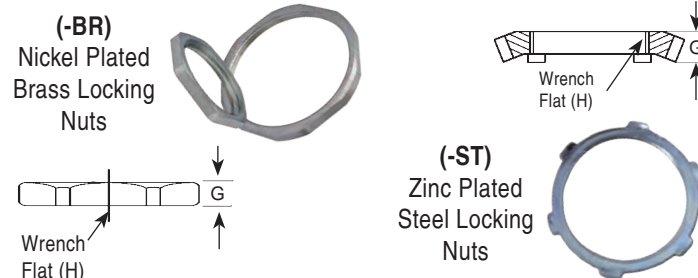
Ex-e EMI / RFI Nickel
Plated Brass Glands

Ex-e / Ex-d
Accessories


Technical
Information

Locking Nuts: Nickel Plated Brass - NPT & Metric Threads


Part Numbers	Thread Type & Size	Dimensions in Inches (mm)		
		G	H	
	Page 59 for Thread Specs	Thickness	Wrench Flats	
NN-09-BR		3/8" NPT	.14 (3.5)	.75 (19)
NN-13-BR		1/2" NPT	.12 (3)	.94 (24)
NN-21-BR		3/4" NPT	.14 (3.5)	1.18 (30)
NN-29-BR		1" NPT	.14 (3.5)	1.38 (35)
NM-12-BR	M12 x 1.5	.11 (2.8)	.59 (15)	
NM-16-BR	M16 x 1.5	.11 (2.8)	.75 (19)	
NM-20-BR	M20 x 1.5	.12 (3)	.91 (23)	
NM-25-BR	M25 x 1.5	.14 (3.5)	1.14 (29)	
NM-32-BR	M32 x 1.5	.16 (4)	1.42 (36)	
NM-40-BR	M40 x 1.5	.18 (4.5)	1.77 (45)	
NM-50-BR	M50 x 1.5	.22 (5.5)	2.17 (55)	
NM-63-BR	M63 x 1.5	.24 (6)	2.76 (70)	
NM-75-XL	M75 x 1.5	.31 (8)	3.35 (85)	



Locking Nuts: Nickel Plated Brass - PG Threads

Part Numbers	Thread Type & Size	Dimensions in Inches (mm)		
		G	H	
	Page 59 for Thread Specs	Thickness	Wrench Flats	
NP-07-BR		PG 7	.11 (2.8)	.59 (15)
NP-09-BR		PG 9	.11 (2.8)	.71 (18)
NP-11-BR		PG 11	.12 (3)	.83 (21)
NP-13-BR		PG 13 / 13.5	.12 (3)	.91 (23)
NP-16-BR		PG 16	.12 (3)	1.02 (26)
NP-21-BR		PG 21	.14 (3.5)	1.26 (32)
NP-29-BR		PG 29	.16 (4)	1.61 (41)
NP-36-BR		PG 36	.20 (5)	2.01 (51)
NP-42-BR		PG 42	.20 (5)	2.36 (60)
NP-48-BR		PG 48	.22 (5.5)	2.52 (64)


Locking Nuts: Zinc Plated Steel - NPT Threads

Part Numbers	Thread Type & Size	Dimensions in Inches (mm)		
		G	H	
	Page 59 for Thread Specs	Thickness	Wrench Flats	
NN-10-ST		1" NPT	.24 (6)	1.73 (44)
NN-34-ST		1-1/4" NPT	.20 (5)	2.01 (53)
NN-36-ST		1-1/2" NPT	.16 (4)	2.19 (55.5)


EMI/RFI Locking Nuts - Accessories

Nickel Plated Brass - Metric / PG Sizes

Locking Nuts: (EMI/RFI) Nickel Plated Brass
NPT & Metric Threads

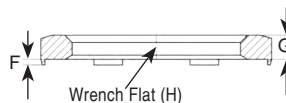
Part Numbers	Thread Type & Size	Dimensions in Inches (mm)		
		G	H	
	Page 59 for Thread Specs	Thickness	Wrench Flats	
NN-13-BE		1/2" NPT	.12 (3)	.94 (24)
NM-12-BE		M12 x 1.5	.11 (2.8)	.59 (15)
NM-16-BE		M16 x 1.5	.11 (2.8)	.75 (19)
NM-20-BE		M20 x 1.5	.12 (3)	.94 (24)
NM-25-BE		M25 x 1.5	.14 (3.5)	1.18 (30)
NM-32-BE		M32 x 1.5	.18 (4.5)	1.42 (36)
NM-40-BE		M40 x 1.5	.20 (5)	1.81 (46)
NM-50-BE		M50 x 1.5	.20 (5)	2.36 (60)
NM-63-BE		M63 x 1.5	.24 (6)	2.76 (70)

Locking Nuts: (EMI/RFI) Nickel Plated Brass
PG Threads

Part Numbers	Thread Type & Size	Dimensions in Inches (mm)		
		G	H	
	Page 59 for Thread Specs	Thickness	Wrench Flats	
NP-07-BE		PG 7	.11 (2.8)	.59 (15)
NP-09-BE		PG 9	.11 (2.8)	.71 (18)
NP-11-BE		PG 11	.12 (3)	.83 (21)
NP-13-BE		PG 13 / 13.5	.12 (3)	.91 (23)
NP-16-BE		PG 16	.12 (3)	1.02 (26)
NP-21-BE		PG 21	.14 (3.5)	1.26 (32)
NP-29-BE		PG 29	.16 (4)	1.61 (41)
NP-36-BE		PG 36	.20 (5)	2.01 (51)
NP-42-BE		PG 42	.20 (5)	2.36 (60)
NP-48-BE		PG 48	.22 (5.5)	2.52 (64)

These Locking Nuts have cutting edges which slice through paint coatings on metal enclosures to ensure grounding. Ideal in vibrating installations too.

EMI/RFI Proof
Locking Nuts



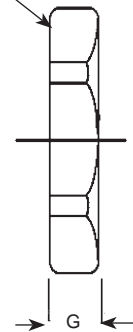
Locking Nuts: Nylon Black & Gray, V0 Rated UL 94

Part Numbers		Thread Type & Size	Dimensions in Inches (mm)	
-40°F to 212°F (-40°C to 100°C)	-40°F to 212°F (-40°C to 100°C)		G	H
Black	Gray		Thickness	Wrench Flats
		Page 59 for Thread Specs		
NN-09-BK	NN-09-GY	3/8" NPT	.28 (7)	.94 (24)
NN-13-BK	NN-13-GY	1/2" NPT	.24 (6)	1.06 (27)
NN-21-BK	NN-21-GY	3/4" NPT	.28 (7)	1.26 (32)
NN-29-BK	NN-29-GY	1" NPT	.28 (7)	1.57 (40)
NM-12-BK	NM-12-GY	M12 x 1.5	.20 (5)	.67 (17)
NM-16-BK	NM-16-GY	M16 x 1.5	.20 (5)	.87 (22)
NM-20-BK	NM-20-GY	M20 x 1.5	.24 (6)	1.06 (27)
NM-25-BK	NM-25-GY	M25 x 1.5	.26 (6.5)	1.26 (32)
NM-32-BK	NM-32-GY	M32 x 1.5	.28 (7)	1.61 (41)
NM-40-BK	NM-40-GY	M40 x 1.5	.28 (7)	1.97 (50)
NM-50-BK	NM-50-GY	M50 x 1.5	.31 (8)	2.36 (60)
NM-63-BK	NM-63-GY	M63 x 1.5	.31 (8)	2.95 (75)
NP-07-BK	NP-07-GY	PG 7	.20 (5)	.75 (19)
NP-09-BK	NP-09-GY	PG 9	.20 (5)	.87 (22)
NP-11-BK	NP-11-GY	PG 11	.20 (5)	.94 (24)
NP-13-BK	NP-13-GY	PG 13 / 13.5	.24 (6)	1.06 (27)
NP-16-BK	NP-16-GY	PG 16	.24 (6)	1.18 (30)
NP-21-BK	NP-21-GY	PG 21	.28 (7)	1.41 (36)
NP-29-BK	NP-29-GY	PG 29	.28 (7)	1.81 (46)
NP-36-BK	NP-36-GY	PG 36	.31 (8)	2.36 (60)
NP-42-BK	NP-42-GY	PG 42	.31 (8)	2.56 (65)
NP-48-BK	NP-48-GY	PG 48	.31 (8)	2.76 (70)

Nylon Locking Nuts



Wrench Flat (H)



Ex-d EXIOS
Cable Glands

Ex-d Nickel Plated Brass &
Stainless Steel Glands

Ex-e
Nylon Glands

Ex-e Multi-Hole &
Romez Glands

Ex-e Nickel Plated Brass &
Stainless Steel Glands

Ex-e EMI / RFI Nickel
Plated Brass Glands


Ex-e / Ex-d
Accessories

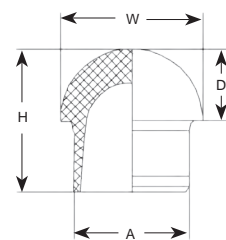
Technical
Information



Ex-d EXIOS Cable Glands
Ex-d Nickel Plated Brass & Stainless Steel Glands
Nylon Glands
Ex-e Multi-Hole & Romex Glands
Ex-e Nickel Plated Brass & Stainless Steel Glands
Ex-e EMI / RFI Nickel Plated Brass Glands
Ex-e / Ex-d Accessories
Technical Information



Hole Plugs: Mushroom - NPT/Metric & PG Threads

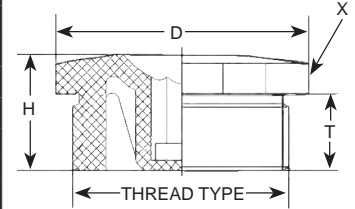
Part Numbers	Thread Type & Size	Dimensions in Inches (mm)			
		A	D	H	W
-4°F to 203°F (-20°C to 95°C)					
 (Mushroom Plug)	Page 59 for Thread Specs	Plug Diameter	Dome Height	Overall Height	Dome Width
PV-07-BX	PG 7 / M12 x 1,5	.25 (6.3)	.18 (4.5)	.45 (11.5)	.37 (9.5)
PV-09-BX	PG 9 / M16 x 1.5 / 3/8" NPT	.31 (7.8)	.22 (5.5)	.53 (13.5)	.43 (11)
PV-11-BX	PG 11 / M16-E	.39 (9.8)	.22 (5.5)	.57 (14.5)	.53 (13.5)
PV-13-BX	PG 13 / M20 x 1.5 / 1/2" NPT	.46 (11.8)	.32 (8)	.71 (18)	.63 (16)
PV-16-BX	PG 16 / 1/2" NPT-E / M20-E	.54 (13.8)	.35 (9)	.75 (19)	.73 (18.5)
PV-21-BX	PG 21 / M25 x 1.5 / 3/4" NPT	.70 (17.8)	.43 (11)	.87 (22)	.87 (22)
PV-29-BX	PG 29 / M32 x 1.5 / 1" NPT / 1 1/4" NPT	.98 (25)	.39 (10)	.98 (25)	1.14 (29)
PV-36-BX	PG 36 / M40 x 1.5 / 1 1/4" NPT	1.26 (32)	.43 (11)	1.10 (28)	1.50 (38)
PV-42-BX	PG 42 / M50 x 1.5	1.50 (38)	.47 (12)	1.18 (30)	1.69 (43)
PV-48-BX	PG 48 / M63 x 1.5	1.73 (44)	.47 (12)	1.18 (30)	1.93 (49)



* Note: Mushroom Plugs should only be used in cable glands with standard inserts.

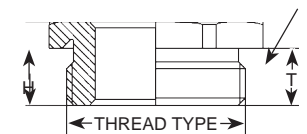
Hex Plugs: Nylon w/ Buna-N O-Ring - Metric & PG Threads, IP 68/69K, 150 PSIG, 10 BAR

Part Numbers	Thread Type & Size	Dimensions in Inches (mm)					
		H	D	T	X		
-4°F to 194°F (-20°C to 90°C)	 Black Nylon Page 59 for Thread Specs	Overall Height	Overall Width	Thread Length	Wrench Flat	Allen Wrench Size	
HM-12-BX		M12 x 1.5	.51 (13)	.65 (16.5)	.33 (8.5)	.59 (15)	.24 (6)
HM-16-BX		M16 x 1.5	.51 (13)	.81 (20.5)	.33 (8.5)	.75 (19)	.31 (8)
HM-20-BX		M20 x 1.5	.57 (14.5)	1.00 (25.5)	.35 (9)	.94 (24)	.31 (8)
HM-25-BX		M25 x 1.5	.63 (16)	1.20 (30.5)	.41 (10.5)	1.10 (28)	.31 (8)
HM-32-BX		M32 x 1.5	.69 (17.5)	1.50 (38)	.45 (11.5)	1.42 (36)	.31 (8)
HM-40-BX		M40 x 1.5	.71 (18)	1.89 (48)	.45 (11.5)	1.81 (46)	.31 (8)
HM-50-BX		M50 x 1.5	.79 (20)	2.36 (60)	.53 (13.5)	2.17 (55)	.31 (8)
HM-63-BX		M63 x 1.5	.83 (21)	2.95 (75)	.57 (14.5)	2.76 (70)	.31 (8)
HP-07-BX		PG 7	.51 (13)	.65 (16.5)	.33 (8.5)	.59 (15)	.24 (6)
HP-09-BX		PG 9	.51 (13)	.81 (20.5)	.33 (8.5)	.75 (19)	.31 (8)
HP-11-BX		PG 11	.57 (14.5)	1.00 (25.5)	.35 (9)	.94 (24)	.31 (8)
HP-13-BX		PG 13 / 13.5	.57 (14.5)	1.00 (25.5)	.35 (9)	.94 (24)	.31 (8)
HP-16-BX		PG 16	.63 (16)	1.20 (30.5)	.41 (10.5)	1.10 (28)	.31 (8)
HP-21-BX		PG 21	.69 (17.5)	1.50 (38)	.45 (11.5)	1.42 (36)	.31 (8)
HP-29-BX	PG 29	.71 (18)	1.89 (48)	.45 (11.5)	1.81 (46)	.31 (8)	
HP-36-BX	PG 36	.79 (20)	2.36 (60)	.53 (13.5)	2.17 (55)	.31 (8)	
HP-42-BX	PG 42	.79 (20)	2.56 (65)	.53 (13.5)	2.36 (60)	.31 (8)	
HP-48-BX	PG 48	.83 (21)	2.95 (75)	.57 (14.5)	2.76 (70)	.31 (8)	






Note: HP & HM Nylon Plugs can be tightened with Hex & Allen wrenches, as well as regular screwdrivers.

Nickel Plated Brass Hex Plug



*CE applies to all Nickel Plated Brass Hex Plugs only!

Hex Plugs: Nickel Plated Brass - Metric & PG Threads, IP 68/69K, 150 PSIG, 10 BAR

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-4°F to 356°F (-20°C to 180°C)	-76°F to 356°F (-60°C to 180°C)		H	T	X	
 Buna-N	 FPM	 Silicone	Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat	
HM-12-MX	HM-12-MX-V	HM-12-MX-S		M12 x 1.5	.37 (9.5)	.26 (6.5)	.55 (14)
HM-16-MX	HM-16-MX-V	HM-16-MX-S		M16 x 1.5	.35 (9)	.24 (6)	.75 (19)
HM-20-MX	HM-20-MX-V	HM-20-MX-S		M20 x 1.5	.37 (9.5)	.24 (6)	.87 (22)
HM-25-MX	HM-25-MX-V	HM-25-MX-S		M25 x 1.5	.41 (10.5)	.28 (7)	1.18 (30)
HM-32-MX	HM-32-MX-V	HM-32-MX-S		M32 x 1.5	.49 (12.5)	.31 (8)	1.61 (41)
HM-40-MX	HM-40-MX-V	HM-40-MX-S		M40 x 1.5	.51 (13)	.31 (8)	1.81 (46)
HM-50-MX	HM-50-MX-V	HM-50-MX-S		M50 x 1.5	.59 (15)	.35 (9)	2.17 (55)
HM-63-MX	HM-63-MX-V	HM-63-MX-S		M63 x 1.5	.65 (16.5)	.39 (10)	2.76 (70)
HP-07-MX	HP-07-MX-V	HP-07-MX-S		PG 7	.31 (8)	.20 (5)	.55 (14)
HP-09-MX	HP-09-MX-V	HP-09-MX-S		PG 9	.35 (9)	.24 (6)	.67 (17)
HP-11-MX	HP-11-MX-V	HP-11-MX-S		PG 11	.37 (9.5)	.24 (6)	.79 (20)
HP-13-MX	HP-13-MX-V	HP-13-MX-S		PG 13.5	.39 (10)	.26 (6.5)	.87 (22)
HP-16-MX	HP-16-MX-V	HP-16-MX-S		PG 16	.39 (10)	.26 (6.5)	.94 (24)
HP-21-MX	HP-21-MX-V	HP-21-MX-S		PG 21	.41 (10.5)	.28 (7)	1.18 (30)
HP-29-MX	HP-29-MX-V	HP-29-MX-S	PG 29	.49 (12.5)	.31 (8)	1.61 (41)	
HP-36-MX	HP-36-MX-V	HP-36-MX-S	PG 36	.51 (13)	.31 (8)	1.97 (50)	
HP-42-MX	HP-42-MX-V	HP-42-MX-S	PG 42	.59 (15)	.35 (9)	2.28 (58)	
HP-48-MX	HP-48-MX-V	HP-48-MX-S	PG 48	.65 (16.5)	.39 (10)	2.56 (65)	

Also Available:

Nickel Plated Brass Hex Plug in Metric Threads Ex-d versions.






When extra approvals are required, use the part numbers on page 50!

Part Numbers	O-Rings
HM-xx-MX-D	Buna-N
HM-xx-MX-V-D	FPM
HM-xx-MIX-D	Silicone

Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Nylon Glands
 Ex-e Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information

Hex Plugs: (303) Stainless Steel Ex-e - Metric & PG Threads, IP 68/69K, NEMA 6, 150 PSIG, 10 BAR

Part Numbers			Thread Type & Size	Dimensions in Inches (mm)			
-4°F to 203°F (-20°C to 95°C)	-4°F to 356°F (-20°C to 180°C)	-78°F to 356°F (-60°C to 180°C)		H	T	X	
			Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat	
Buna-N	FPM	Silicone					
HM-12-SX	HM-12-SX-V	HM-12-SX-S		M12 x 1.5	.37 (9.5)	.26 (6.5)	.55 (14)
HM-16-SX	HM-16-SX-V	HM-16-SX-S		M16 x 1.5	.35 (9)	.24 (6)	.75 (19)
HM-20-SX	HM-20-SX-V	HM-20-SX-S		M20 x 1.5	.37 (9.5)	.24 (6)	.87 (22)
HM-25-SX	HM-25-SX-V	HM-25-SX-S		M25 x 1.5	.41 (10.5)	.28 (7)	1.18 (30)
HM-32-SX	HM-32-SX-V	HM-32-SX-S		M32 x 1.5	.49 (12.5)	.31 (8)	1.61 (41)
HM-40-SX	HM-40-SX-V	HM-40-SX-S		M40 x 1.5	.51 (13)	.31 (8)	1.81 (46)
HM-50-SX	HM-50-SX-V	HM-50-SX-S		M50 x 1.5	.59 (15)	.35 (9)	2.17 (55)
HM-63-SX	HM-63-SX-V	HM-63-SX-S		M63 x 1.5	.65 (16.5)	.39 (10)	2.76 (70)
HP-07-SX	HP-07-SX-V	HP-07-SX-S		PG 7	.31 (8)	.20 (5)	.55 (14)
HP-09-SX	HP-09-SX-V	HP-09-SX-S		PG 9	.35 (9)	.24 (6)	.67 (17)
HP-11-SX	HP-11-SX-V	HP-11-SX-S		PG 11	.37 (9.5)	.24 (6)	.79 (20)
HP-13-SX	HP-13-SX-V	HP-13-SX-S		PG 13.5	.39 (10)	.26 (6.5)	.87 (22)
HP-16-SX	HP-16-SX-V	HP-16-SX-S		PG 16	.39 (10)	.26 (6.5)	.94 (24)
HP-21-SX	HP-21-SX-V	HP-21-SX-S		PG 21	.41 (10.5)	.28 (7)	1.18 (30)
HP-29-SX	HP-29-SX-V	HP-29-SX-S		PG 29	.49 (12.5)	.31 (8)	1.61 (41)
HP-36-SX	HP-36-SX-V	HP-36-SX-S	PG 36	.51 (13)	.31 (8)	1.97 (50)	
HP-42-SX	HP-42-SX-V	HP-42-SX-S	PG 42	.59 (15)	.35 (9)	2.28 (58)	
HP-48-SX	HP-48-SX-V	HP-48-SX-S	PG 48	.65 (16.5)	.39 (10)	2.56 (65)	







Silicone version accommodates **-60°C** Temperature

AISI 303 Stainless Steel Hex Plugs



Hex Plugs - Accessories - Nickel Plated Brass & (316L) Stainless Steel - NPT / Metric - Ex-d/Ex-e

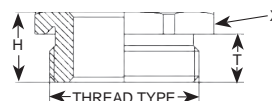
Hex Plugs: Nickel Plated Brass & (316L) Stainless Steel Ex-d/Ex-e - Metric Threads, IP 68/69K, NEMA 6, 150 PSIG, 10 BAR

Part Numbers - Nickel Plated Brass *			Part Numbers - Stainless Steel **			Thread Type & Size	Dimensions in Inches (mm)				
-4°F to 203°F (-20°C to 95°C)	-4°F to 356°F (-20°C to 180°C)	-76°F to 356°F (-60°C to 180°C)	-4°F to 203°F (-20°C to 95°C)	-4°F to 356°F (-20°C to 180°C)	-76°F to 356°F (-60°C to 180°C)		H	H	T	X	
						Page 59 for Thread Specs	Overall Height (Nickel Plated Brass)	Overall Height (Stainless Steel)	Thread Length	Wrench Flat	
Buna-N	Viton	Silicone	Buna-N	Viton	Silicone						
HN-38-MX-D*			HN-38-6X-D*				NPT 3/8"	.79 (20)	.79 (20)	.63 (16)	*.63 (16) & **.75 (19)
HN-12-MX-D*			HN-12-6X-D*				NPT 1/2"	.93 (23.5)	.93 (23.5)	.79 (20)	.75 (24)
HN-34-MX-D*			HN-34-6X-D*				NPT 3/4"	.94 (24)	.94 (24)	.81 (20.5)	1.18 (30)
HN-10-MX-D*			HN-10-6X-D*				NPT 1"	1.16 (29.5)	1.16 (29.5)	.98 (25)	1.61 (41)
HN-54-MX-D*			HN-54-6X-D*				NPT 1 1/4"	1.22 (31)	1.22 (31)	1.02 (26)	1.81 (46)
HN-64-MX-D*			HN-64-6X-D*			NPT 1 1/2"	1.27 (32.5)	1.27 (32.5)	1.04 (26.5)	2.17 (55)	
HM-12-MX-D	HM-12-MVX-D	HM-12-MIX-D	HM-12-6X-D	HM-12-6VX-D	HM-12-6IX-D	M12 x 1.5	.67 (17)	.75 (19)	.63 (16)	.55 (14)	
HM-16-MX-D	HM-16-MVX-D	HM-16-MIX-D	HM-16-6X-D	HM-16-6VX-D	HM-16-6IX-D	M16 x 1.5	.63 (16)	.75 (19)	.63 (16)	.75 (19)	
HM-20-MX-D	HM-20-MVX-D	HM-20-MIX-D	HM-20-6X-D	HM-20-6VX-D	HM-20-6IX-D	M20 x 1.5	.61 (15.5)	.77 (19.5)	.63 (16)	.87 (22)	
HM-25-MX-D	HM-25-MVX-D	HM-25-MIX-D	HM-25-6X-D	HM-25-6VX-D	HM-25-6IX-D	M25 x 1.5	.61 (15.5)	.77 (19.5)	.63 (16)	1.18 (30)	
HM-32-MX-D	HM-32-MVX-D	HM-32-MIX-D	HM-32-6X-D	HM-32-6VX-D	HM-32-6IX-D	M32 x 1.5	.65 (16.5)	.81 (20.5)	.63 (16)	1.61 (41)	
HM-40-MX-D	HM-40-MVX-D	HM-40-MIX-D	HM-40-6X-D	HM-40-6VX-D	HM-40-6IX-D	M40 x 1.5	.67 (17)	.83 (21)	.63 (16)	1.81 (46)	
HM-50-MX-D	HM-50-MVX-D	HM-50-MIX-D	HM-50-6X-D	HM-50-6VX-D	HM-50-6IX-D	M50 x 1.5	.71 (18)	.87 (22)	.63 (16)	2.17 (55)	
HM-63-MX-D	HM-63-MVX-D	HM-63-MIX-D	HM-63-6X-D	HM-63-6VX-D	HM-63-6IX-D	M63 x 1.5	.73 (18.5)	.89 (22.5)	.63 (16)	2.76 (70)	

*All NPT Hex Plugs do not come with an O-Ring.




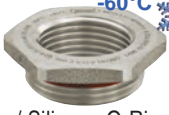
AISI (316L) Stainless Steel Hex Plugs

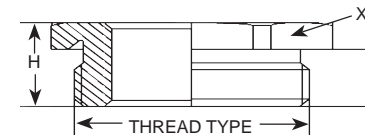
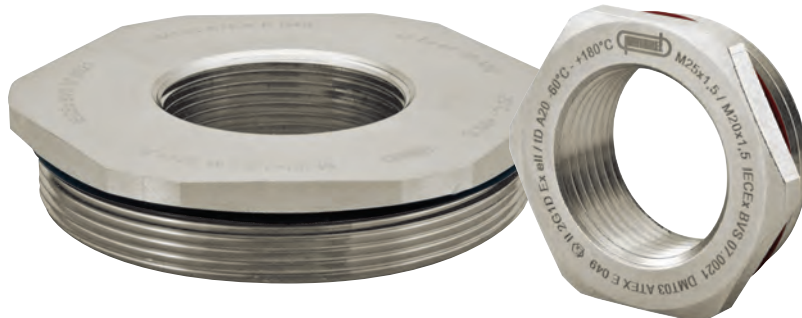


Silicone version accommodates **-60°C** Temperature



Thread Reducers: Nickel Plated Brass - Metric & PG Threads, IP 68/69K, 150 PSIG, 10 BAR

Part Numbers		Thread Type & Size		Dimensions in Inches (mm)		
-4°F to 203°F (-20°C to 95°C)	-76°F to 356°F (-60°C to 180°C)	Male Thread A	Female Thread B	H	T	X
 w/ Buna-N O-Ring	 w/ Silicone O-Ring	Page 59 for Thread Specs	Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat
RM-1612-MX	RM-1612-MX-S	M16 x 1.5	M12 x 1.5	.31" (8)	.20" (5)	.67" (17)
RM-2012-MX	RM-2012-MX-S	M20 x 1.5	M12 x 1.5	.35" (9)	.24" (6)	.87" (22)
RM-2016-MX	RM-2016-MX-S	M20 x 1.5	M16 x 1.5	.35" (9)	.24" (6)	.87" (22)
RM-2516-MX	RM-2516-MX-S	M25 x 1.5	M16 x 1.5	.39" (10)	.28" (7)	1.14" (29)
RM-2520-MX	RM-2520-MX-S	M25 x 1.5	M20 x 1.5	.39" (10)	.28" (7)	1.14" (29)
RM-3216-MX	RM-3216-MX-S	M32 x 1.5	M16 x 1.5	.43" (11)	.31" (8)	1.34" (34)
RM-3220-MX	RM-3220-MX-S	M32 x 1.5	M20 x 1.5	.43" (11)	.31" (8)	1.34" (34)
RM-3225-MX	RM-3225-MX-S	M32 x 1.5	M25 x 1.5	.43" (11)	.31" (8)	1.34" (34)
RM-4020-MX	RM-4020-MX-S	M40 x 1.5	M20 x 1.5	.47" (12)	.31" (8)	1.69" (43)
RM-4025-MX	RM-4025-MX-S	M40 x 1.5	M25 x 1.5	.47" (12)	.31" (8)	1.69" (43)
RM-4032-MX	RM-4032-MX-S	M40 x 1.5	M32 x 1.5	.47" (12)	.31" (8)	1.69" (43)
RM-5025-MX	RM-5025-MX-S	M50 x 1.5	M25 x 1.5	.51" (13)	.35" (9)	2.17" (55)
RM-5032-MX	RM-5032-MX-S	M50 x 1.5	M32 x 1.5	.51" (13)	.35" (9)	2.17" (55)
RM-5040-MX	RM-5040-MX-S	M50 x 1.5	M40 x 1.5	.51" (13)	.35" (9)	2.17" (55)
RM-6332-MX	RM-6332-MX-S	M63 x 1.5	M32 x 1.5	.55" (14)	.39" (10)	2.56" (65)
RM-6340-MX	RM-6340-MX-S	M63 x 1.5	M40 x 1.5	.55" (14)	.39" (10)	2.56" (65)
RM-6350-MX	RM-6350-MX-S	M63 x 1.5	M50 x 1.5	.55" (14)	.39" (10)	2.56" (65)
RQ-0907-MX	RQ-0907-MX-S	PG 9	PG 7	.35" (8.8)	.24" (6)	.67" (17)
RQ-1107-MX	RQ-1107-MX-S	PG 11	PG 7	.35" (9)	.24" (6)	.79" (20)
RQ-1109-MX	RQ-1109-MX-S	PG 11	PG 9	.35" (9)	.24" (6)	.79" (20)
RQ-1309-MX	RQ-1309-MX-S	PG13	PG 9	.37" (9.5)	.26" (6.5)	.87" (22)
RQ-1609-MX	RQ-1609-MX-S	PG 16	PG 9	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-1611-MX	RQ-1611-MX-S	PG 16	PG 11	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-1613-MX	RQ-1613-MX-S	PG 16	PG 13	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-2111-MX	RQ-2111-MX-S	PG 21	PG 11	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2113-MX	RQ-2113-MX-S	PG 21	PG 13	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2116-MX	RQ-2116-MX-S	PG 21	PG 16	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2916-MX	RQ-2916-MX-S	PG 29	PG 16	.45" (11.5)	.31" (8)	1.57" (40)
RQ-2921-MX	RQ-2921-MX-S	PG 29	PG 21	.45" (11.5)	.31" (8)	1.57" (40)
RQ-3621-MX	RQ-3621-MX-S	PG 36	PG 21	.49" (12.5)	.35" (9)	1.97" (50)
RQ-3629-MX	RQ-3629-MX-S	PG 36	PG 29	.49" (12.5)	.35" (9)	1.97" (50)
RQ-4229-MX	RQ-4229-MX-S	PG 42	PG 29	.53" (13.5)	.39" (10)	2.24" (57)
RQ-4236-MX	RQ-4236-MX-S	PG 42	PG 36	.53" (13.5)	.39" (10)	2.24" (57)
RQ-4836-MX	RQ-4836-MX-S	PG 48	PG 36	.53" (13.5)	.39" (10)	2.52" (64)
RQ-4842-MX	RQ-4842-MX-S	PG 48	PG 42	.53" (13.5)	.39" (10)	2.52" (64)



NPT Threads & Additional Sizes Available Upon Request!

Silicone version accommodates **-60°C** Temperature

Ex-d EXIOS Cable Glands

Ex-d Nickel Plated Brass & Stainless Steel Glands

Nylon Glands

Ex-e Multi-Hole & Romex Glands



Ex-e Nickel Plated Brass & Stainless Steel Glands

Ex-e EMI / RFI Nickel Plated Brass Glands

Ex-e / Ex-d Accessories

Technical Information

Thread Reducers: (303) Stainless Steel - Metric & PG Threads, IP 68/69K, 150 PSIG, 10 BAR

Part Numbers		Thread Type & Size		Dimensions in Inches (mm)		
-4°F to 203°F (-20°C to 95°C)	-76°F to 356°F (-60°C to 180°C)	Male Thread A	Female Thread B	H	T	X
		Page 59 for Thread Specs	Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat
RM-1612-SX	RM-1612-SX-S	M16 x 1.5	M12 x 1.5	.35" (9)	.20" (5)	.67" (17)
RM-2012-SX	RM-2012-SX-S	M20 x 1.5	M12 x 1.5	.37" (9.5)	.24" (6)	.87" (22)
RM-2016-SX	RM-2016-SX-S	M20 x 1.5	M16 x 1.5	.37" (9.5)	.24" (6)	.87" (22)
RM-2516-SX	RM-2516-SX-S	M25 x 1.5	M16 x 1.5	.41" (10.5)	.28" (7)	1.06" (27)
RM-2520-SX	RM-2520-SX-S	M25 x 1.5	M20 x 1.5	.41" (10.5)	.28" (7)	1.06" (27)
RM-3216-SX	RM-3216-SX-S	M32 x 1.5	M16 x 1.5	.49" (12.5)	.31" (8)	1.34" (34)
RM-3220-SX	RM-3220-SX-S	M32 x 1.5	M20 x 1.5	.49" (12.5)	.31" (8)	1.34" (34)
RM-3225-SX	RM-3225-SX-S	M32 x 1.5	M25 x 1.5	.49" (12.5)	.31" (8)	1.34" (34)
RM-4020-SX	RM-4020-SX-S	M40 x 1.5	M20 x 1.5	.51" (13)	.31" (8)	1.69" (43)
RM-4025-SX	RM-4025-SX-S	M40 x 1.5	M25 x 1.5	.51" (13)	.31" (8)	1.69" (43)
RM-4032-SX	RM-4032-SX-S	M40 x 1.5	M32 x 1.5	.51" (13)	.31" (8)	1.69" (43)
RM-5025-SX	RM-5025-SX-S	M50 x 1.5	M25 x 1.5	.59" (15)	.35" (9)	2.17" (55)
RM-5032-SX	RM-5032-SX-S	M50 x 1.5	M32 x 1.5	.59" (15)	.35" (9)	2.17" (55)
RM-5040-SX	RM-5040-SX-S	M50 x 1.5	M40 x 1.5	.59" (15)	.35" (9)	2.17" (55)
RM-6332-SX	RM-6332-SX-S	M63 x 1.5	M32 x 1.5	.65" (16.5)	.39" (10)	2.56" (65)
RM-6340-SX	RM-6340-SX-S	M63 x 1.5	M40 x 1.5	.65" (16.5)	.39" (10)	2.56" (65)
RM-6350-SX	RM-6350-SX-S	M63 x 1.5	M50 x 1.5	.65" (16.5)	.39" (10)	2.56" (65)
RQ-0907-SX	RQ-0907-SX-S	PG 9	PG 7	.35" (8.8)	.24" (6)	.67" (17)
RQ-1107-SX	RQ-1107-SX-S	PG 11	PG 7	.35" (9)	.24" (6)	.79" (20)
RQ-1109-SX	RQ-1109-SX-S	PG 11	PG 9	.35" (9)	.24" (6)	.79" (20)
RQ-1309-SX	RQ-1309-SX-S	PG13	PG 9	.37" (9.5)	.26" (6.5)	.87" (22)
RQ-1309-SX	RQ-1309-SX-S	PG13	PG 11	.37" (9.5)	.26" (6.5)	.87" (22)
RQ-1609-SX	RQ-1609-SX-S	PG 16	PG 9	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-1611-SX	RQ-1611-SX-S	PG 16	PG 11	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-1613-SX	RQ-1613-SX-S	PG 16	PG 13	.37" (9.5)	.26" (6.5)	.94" (24)
RQ-2111-SX	RQ-2111-SX-S	PG 21	PG 11	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2113-SX	RQ-2113-SX-S	PG 21	PG 13	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2116-SX	RQ-2116-SX-S	PG 21	PG 16	.41" (10.3)	.28" (7)	1.18" (30)
RQ-2916-SX	RQ-2916-SX-S	PG 29	PG 16	.45" (11.5)	.31" (8)	1.57" (40)
RQ-2921-SX	RQ-2921-SX-S	PG 29	PG 21	.45" (11.5)	.31" (8)	1.57" (40)
RQ-3621-SX	RQ-3621-SX-S	PG 36	PG 21	.49" (12.5)	.35" (9)	1.97" (50)
RQ-3629-SX	RQ-3629-SX-S	PG 36	PG 29	.49" (12.5)	.35" (9)	1.97" (50)
RQ-4229-SX	RQ-4229-SX-S	PG 42	PG 29	.53" (13.5)	.39" (10)	2.24" (57)
RQ-4236-SX	RQ-4236-SX-S	PG 42	PG 36	.53" (13.5)	.39" (10)	2.24" (57)
RQ-4836-SX	RQ-4836-SX-S	PG 48	PG 36	.53" (13.5)	.39" (10)	2.52" (64)
RQ-4842-SX	RQ-4842-SX-S	PG 48	PG 42	.53" (13.5)	.39" (10)	2.52" (64)

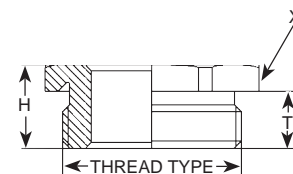


AISI (303) Stainless Steel Thread Reducers



Silicone version accommodates

-60°C 

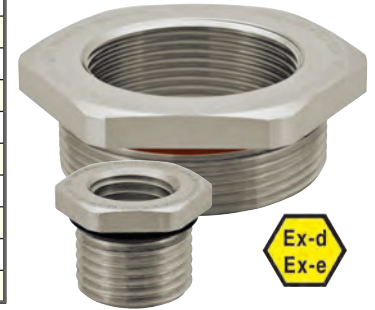
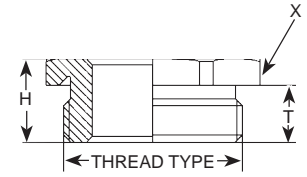
Temperature



Thread Reducers: Nickel Plated Brass Ex-d/Ex-e - Metric Threads

Part Numbers		Thread Type & Size		Dimensions in Inches (mm)		
-4°F to 203°F (-20°C to 95°C)	-76°F to 356°F (-60°C to 180°C)	Male Thread A	Female Thread B	H	T	X
		Page 59 for Thread Specs	Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat
RM-1612-MX-D	RM-1612-MIX-D	M16 x 1.5	M12 x 1.5	.75" (19)	.63" (16)	.75" (19)
RM-2012-MX-D	RM-2012-MIX-D	M20 x 1.5	M12 x 1.5	.77" (19.5)	.63" (16)	.87" (22)
RM-2016-MX-D	RM-2016-MIX-D	M20 x 1.5	M16 x 1.5	.77" (19.5)	.63" (16)	.87" (22)
RM-2516-MX-D	RM-2516-MIX-D	M25 x 1.5	M16 x 1.5	.77" (19.5)	.63" (16)	1.18" (30)
RM-2520-MX-D	RM-2520-MIX-D	M25 x 1.5	M20 x 1.5	.77" (19.5)	.63" (16)	1.18" (30)
RM-3216-MX-D	RM-3216-MIX-D	M32 x 1.5	M16 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-3220-MX-D	RM-3220-MIX-D	M32 x 1.5	M20 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-3225-MX-D	RM-3225-MIX-D	M32 x 1.5	M25 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-4020-MX-D	RM-4020-MIX-D	M40 x 1.5	M20 x 1.5	.83" (21)	.63" (16)	1.81" (46)
RM-4025-MX-D	RM-4025-MIX-D	M40 x 1.5	M25 x 1.5	.83" (21)	.63" (16)	1.81" (46)
RM-4032-MX-D	RM-4032-MIX-D	M40 x 1.5	M32 x 1.5	.83" (21)	.63" (16)	1.81" (46)



Silicone version
accommodates
-60°C
Temperature



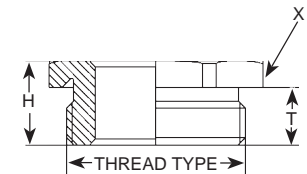
Thread Reducer - Accessories

(316L) Stainless Steel - Metric - Ex-d/Ex-e

Thread Reducers: (316L) Stainless Steel (INOX) Ex-d /Ex-e - Metric Threads

Part Numbers		Thread Type & Size		Dimensions in Inches (mm)		
-4°F to 203°F (-20°C to 95°C)	-76°F to 356°F (-60°C to 180°C)	Male Thread A	Female Thread B	H	T	X
		Page 59 for Thread Specs	Page 59 for Thread Specs	Overall Height	Thread Length	Wrench Flat
RM-1612-6X-D	RM-1612-6IX-D	M16 x 1.5	M12 x 1.5	.75" (19)	.63" (16)	.75" (19)
RM-2012-6X-D	RM-2012-6IX-D	M20 x 1.5	M12 x 1.5	.77" (19.5)	.63" (16)	.87" (22)
RM-2016-6X-D	RM-2016-6IX-D	M20 x 1.5	M16 x 1.5	.77" (19.5)	.63" (16)	.87" (22)
RM-2516-6X-D	RM-2516-6IX-D	M25 x 1.5	M16 x 1.5	.77" (19.5)	.63" (16)	1.18" (30)
RM-2520-6X-D	RM-2520-6IX-D	M25 x 1.5	M20 x 1.5	.77" (19.5)	.63" (16)	1.18" (30)
RM-3216-6X-D	RM-3216-6IX-D	M32 x 1.5	M16 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-3220-6X-D	RM-3220-6IX-D	M32 x 1.5	M20 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-3225-6X-D	RM-3225-6IX-D	M32 x 1.5	M25 x 1.5	.81" (20.5)	.63" (16)	1.61" (41)
RM-4020-6X-D	RM-4020-6IX-D	M40 x 1.5	M20 x 1.5	.83" (21)	.63" (16)	1.81" (46)
RM-4025-6X-D	RM-4025-6IX-D	M40 x 1.5	M25 x 1.5	.83" (21)	.63" (16)	1.81" (46)
RM-4032-6X-D	RM-4032-6IX-D	M40 x 1.5	M32 x 1.5	.83" (21)	.63" (16)	1.81" (46)

Silicone version
accommodates
-60°C
Temperature



***More Ex-d/Ex-e Adapters & Reducers
Options Available!***

Sizes: Please Inquire
Thread Type: NPT, Metric, PG

Materials: Nylon, Bare Brass
Ratings/Approvals: Class/Division

Red Fiber Washer & Grounding (Earth) Tags Accessories - NPT / Metric Sizes - Ex-e





Ex-d EXIOS Cable Glands

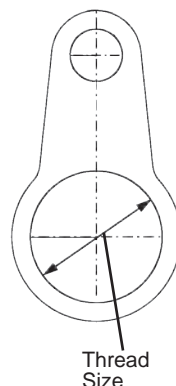
Ex-d Nickel Plated Brass & Stainless Steel Glands

Ex-e Nylon Glands


Ex-e Multi-Hole & Romex Glands

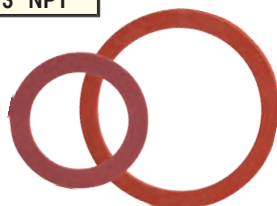
Reinforced Nylon - Red Fiber Seal Rings - NPT		
Part Numbers	Seal Ring Thickness	Fits Thread Size
-76°F to 221°F (-60°C to 105°C)		
		Page 59 for Thread Specs
SR-09-FN	1.5	3/8" NPT
SR-13-FN	1.5	1/2" NPT
SR-21-FN	1.5	3/4" NPT
SR-29-FN	1.5	1" NPT
SR-54-FN	1.5	1 1/4" NPT
SR-36-FN	1.5	1 1/2" NPT
SR-20-FN	1.5	2" NPT
SR-52-FN	1.5	2 1/2" NPT
SR-30-FN	1.5	3" NPT

Reinforced Nylon - Red Fiber Seal Rings - Metric		
Part Numbers	Seal Ring Thickness	Fits Thread Size
-76°F to 221°F (-60°C to 105°C)		
		Page 59 for Thread Specs
SM-16-FN	1.5	M16 x 1.5
SM-20-FN	1.5	M20 x 1.5
SM-25-FN	1.5	M25 x 1.5
SM-32-FN	1.5	M32 x 1.5
SM-40-FN	1.5	M40 x 1.5
SM-50-FN	1.5	M50 x 1.5
SM-63-FN	1.5	M63 x 1.5
SM-75-FN	1.5	M75 x 1.5



Raw Brass (BB) & Nickel Plated Brass (BR) Grounding (Earth) Tags are installed between the cable gland & equipment to provide proper grounding.

Grounding (Earth) Tags	
Part Numbers	Thread Type & Size
-4°F to 203°F (-20°C to 95°C)	
	Page 59 for Thread Specs
TN-09-BB	3/8" NPT
TN-13-BB	1/2" NPT
TN-21-BB	3/4" NPT
TN-54-BB	1 1/4" NPT
TN-36-BB	1 1/2" NPT
TN-20-BB	2" NPT
TN-52-BB	2 1/2" NPT
TN-30-BB	3" NPT
TN-13-BR	1/2" NPT
TN-21-BR	3/4" NPT
TN-29-BR	1" NPT
TM-20-BB	M20 x 1.5
TM-25-BB	M25 x 1.5
TM-32-BB	M32 x 1.5
TM-40-BB	M40 x 1.5
TM-50-BB	M50 x 1.5
TM-63-BB	M63 x 1.5
TM-75-BB	M75 x 1.5




Serrated Washers & Shrouds - Accessories NPT / Metric Sizes - Ex-e





Ex-e Nickel Plated Brass & Stainless Steel Glands

Ex-e EMI / RFI Nickel Plated Brass Glands

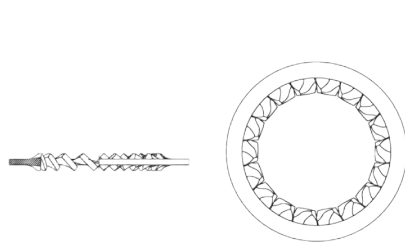
Ex-e / Ex-d Accessories

Serrated Washers - NPT	
Part Numbers	Fits Thread Size
-4°F to 203°F (-20°C to 95°C)	
	Page 59 for Thread Specs
WN-09-SS	3/8" NPT
WN-13-SS	1/2" NPT
WN-21-SS	3/4" NPT
WN-29-SS	1" NPT
WN-54-SS	1 1/4" NPT
WN-36-SS	1 1/2" NPT
WN-20-SS	2" NPT
WN-52-SS	2 1/2" NPT
WN-30-SS	3" NPT

Serrated Washers - Metric	
Part Numbers	Fits Thread Size
-4°F to 203°F (-20°C to 95°C)	
	Page 59 for Thread Specs
WM-16-SS	M16 x 1.5
WM-20-SS	M20 x 1.5
WM-25-SS	M25 x 1.5
WM-32-SS	M32 x 1.5
WM-40-SS	M40 x 1.5
WM-50-SS	M50 x 1.5
WM-63-SS	M63 x 1.5
WM-75-SS	M75 x 1.5

Shroud - NPT & Metric		
Part Numbers	Fits EXIOS Size	Fits Thread Size
		Page 59 for Thread Specs
SE-2K-PV	20-1	3/8" NPT / M20
SE-2M-PV	20-2	1/2" NPT / M20
SE-2L-PV	20-3	1/2" NPT / M25
SE-25-PV	25	3/4" NPT / M25
SE-32-PV	32	1" NPT / M32
SE-40-PV	40	1-1/4" NPT / M40
SE-50-PV	50	2" NPT / M50
SE-63-PV	63	2-1/2" NPT / M63
SE-75-PV	75	3" NPT / M75

Provides additional weather and corrosion protection for Cable Glands in Hazardous locations.



Sealcon Circular Connector Options

Features & Benefits

- Patented Eurolock®** - on all Power and M16 style Connectors
- Easy field assembly** - no special tools required to insert & extract contacts
- Built in Strain Relief for Braided Cable** - All Connectors EMI/RFI ready
- Quick Connect System** - Threaded & Twilock in one
- Multiple Terminations** - Crimp, Solder, Dip Solder, and Screw Terminal Solutions
- Pre-tinned Contacts** - Reliable, faster and safer means of soldering
 - M23 connectors work with stamped contacts
- Reliable Connection** - Contacts with low plug-in force and high mating cycles
- Vibration Proof** - Spring loaded Socket Contact Technology
- IP67 & IP69K** - Ideal in spray down applications

Materials: Nickel Plated Brass, Stainless Steel, Over Molded (Optional Tin-Plated)

Types: Straight, Elbow, Panel Mount, Radius Flange & RJ45 (Ethernet) & EMI Ready!

Other Styles: Hermetic, Marine (IP68), Miniature / Push-Pull



M23 Twilock & Twilock-S



Quick Connect

M27

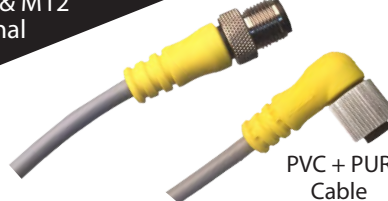
26 & 28 contacts



M16

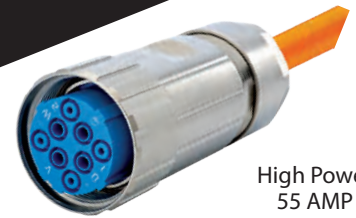


M8 & M12 Signal



PVC + PUR Cable

M40



High Power
55 AMP

M23 Hybrid

Power, Signal and Ethernet in one



M23 (Signal & Power)



M23 RJ45 & PoE Fast Ethernet



M12 Power



K+L, S+T Coding

Circular Connector Markets Served



- Oil & Gas Production
 - Refineries
- Oilfield Service Companies
- The Petroleum Industry
 - Energy/Coal
 - Process Industry
 - Paint Manufacturing
- Chemical Industries
 - Pharmaceutical
 - Waste
- Wood Processing
 - Agriculture
 - Metal
 - Food Processing
- Recycling
 - Motion Control
 - Construction
 - Textile
 - Marine
 - International Companies
 - Industrial Manufacturing Sector

Sizes & Dimensions for SEALCON Liquid Tight Cable Glands

Metric	Major Thread Diameter	Minor Thread Diameter	PG	Major Thread Diameter	Minor Thread Diameter	NPT	Major Thread Diameter	Minor Thread Diameter	Dome Opening
M12 x 1.5	12.0 mm / .47"	10..5 mm / .41"							6.5 mm / .26"
			PG 7	12.5 mm / .49"	11.3 mm / .44"				6.5 mm / .26"
			PG 9	15.2 mm / .60"	13.9 mm / .54"	3/8"	16.8 mm / .66"	15.2 mm / .60"	8.0 mm / .31"
M16 x 1.5	16.0 mm / .63"	14.5 mm / .57"							8.0 mm / .31"
			PG 11	18.6 mm / .73"	17.3 mm / .68"				10.0 mm / .39"
M20 x 1.5	20.0 mm / .79"	18.5 mm / .72"							12.0 mm / .47"
			PG 13	20.4 mm / .80"	19.1 mm / .75"	1/2"	20.8 mm / .82"	18.8 mm / .74"	12.0 mm / .47"
			PG 16	22.5 mm / .89"	21.2 mm / .83"	1/2"-E	20.8 mm / .82"	18.8 mm / .74"	14.0 mm / .55"
M25 x 1.5	25.0 mm / .98"	23.5 mm / .92"							18.0 mm / .71"
			PG 21	28.3 mm / 1.11"	26.8 mm / 1.05"	3/4"	26.2 mm / 1.03"	24.1 mm / .95"	18.0 mm / .71"
M32 x 1.5	32.0 mm / 1.26"	30.5 mm / 1.20"							25.0 mm / 0.98"
			PG 29	37.0 mm / 1.46"	35.5 mm / 1.39"	1"	32.8 mm / 1.29"	30.5 mm / 1.20"	25.0 mm / 0.98"
						1-1/4"	41.4 mm / 1.63"	38.1 mm / 1.50"	25.0 mm / 0.98"
M40 x 1.5	40.0 mm / 1.57"	38.5 mm / 1.51"							32.0 mm / 1.26"
			PG 36	47.0 mm / 1.85"	45.5 mm / 1.79"	1-1/2"	47.8 mm / 1.88"	45.7 mm / 1.80"	32.0 mm / 1.26"
									38.0 mm / 1.50"
M50 x 1.5	50.0 mm / 1.97"	48.5 mm / 1.90"							38.0 mm / 1.50"
			PG 42	54.0 mm / 2.13"	52.5 mm / 2.13"				38.0 mm / 1.50"
			PG 48	59.3 mm / 2.33"	57.8 mm / 2.27"				44.0 mm / 1.73"
M63 x 1.5	63.0 mm / 2.48"	61.5 mm / 2.42"				2"	60.33mm / 2.35"	NA*	67.5 mm / 2.66"
M75 x 1.5	75.0 mm / 2.95"	NA*		74.85 mm / 2.95"		2-1/2"	73.03 mm / 2.86"	NA*	81.5 mm / 3.21"
M90 x 1.5	90.0 mm / 3.54"	NA*		89.8 mm / 3.54"		3"	88.9 mm / 3.5"	NA*	3.175 mm / 1.25"

Determine Sizes & Type of Fitting:

- Check markings on the hex portion (wrenching flats). PG, NPT or Metric size should be embedded. This only applies to Nylon parts.
- Measure major thread diameter and compare with chart above. This may tell you whether it is a PG, NPT or Metric thread (Nylon or Brass)
- Confirm grommet type inside fitting. (See table on right for grommet identification)
- The shading (grouping) indicates same size bodies, but different threads.

Note:

Dome Opening = the largest possible dimension for one or more cables.
The chart can also be useful when working with knockouts (drilling holes)

Grommet Identification	
Color	Type of Grommet
Black	Standard
Gray	Reduced
Beige	Multi-Hole / Solid Plug
Green	FPM
Red	Silicone

Recommended Torque Specifications for HSK Cable Glands Only

Torque in lb/in = pound / inch (Nm) Newton Meters

Sizes	Plastic Fittings Dome Nuts	Metal Fittings Dome Nuts
PG7, M12 x 1.5	13.28 (1.50)	35.40 (4.0)
PG9, PG11, 3/8" NPT, M16 x 1.5	17.70 (2.0)	53.10 (6.0)
1/2"NPT ENLARGED, M16x1.5 ENLARGED	26.55 (3.0)	44.25 (5.0)
PG13.5, PG16, 1/2" NPT, M20 x 1.5	39.83 (4.5)	70.81 (8.0)
M20 x 1.5 ENLARGED	39.83 (4.5)	88.51 (10)
PG21, M25 x 1.5, 3/4"NPT,	44.2 (5)	106.21 (12.0)
PG29, M32 x 1.5, 1" NPT	57.53 (6.5)	132.76 (15.0)
PG36, 1-1/2"NPT, M40 x 1.5	88.51 (10.0)	132.76 (15.0)
PG42, PG48, M50 x 1.5	132.76 (15.0)	212.42 (24.0)
M63 x 1.5	159.31 (18.0)	265.53 (30.0)
M75 x 1.5	NA*	354.03 (40.0)
2" NPT	NA*	398.28 (45.0)
2-1/2" NPT	NA*	541.04 (60.0)
M90 x 1.5	NA*	1062.09 (120.0)

Note: Torque for dome nuts was determined using a metal rod. It may vary for cable, depending on the crush resistance of the cable. To determine the actual torque empirically, we recommend testing the actual cable used. The values shown above are for reference only. Torque Specification is based on Norm: EN 50262

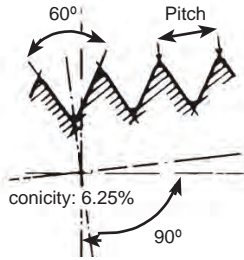
Pull-Test Rating for Cable Glands

The Pull-Test Rating of our Cable Glands complies with Industry Standards.
Pull-Test Rating: Up To 35 lbs.

Thread Specifications`

NPT Threads

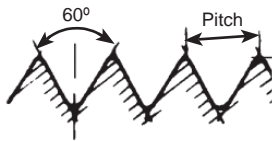
Thread Size	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT	3"
Major Dia. in Inches (mm)	.675 (17.145)	.84 (21.336)	1.05 (26.67)	1.314 (33.40)	1.66 (42.164)	1.90 (48.26)	2.375 (60.325)	3.50" (88.9)
Pitch in Inches (mm)	.056 (1.411)	.071 (1.814)	.071 (1.814)	.087 (2.208)	.087 (2.208)	.087 (2.208)	.087 (2.208)	.125" (3.175)
Number of Pitch n	18	14	14	11 1/2	11 1/2	11 1/2	11 1/2	8



- NPT Thread = National Pipe Thread
- Taper rate for all NPT threads is 1/16
- The taper on NPT threads allows them to form a seal when torqued as the flanks of the threads compress against each other, as opposed to straight thread fittings

Metric Threads

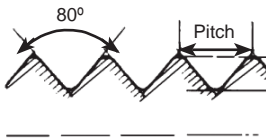
Thread Size	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90
Major Dia. in Inches (mm)	.47 (12)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)	2.36" (60)	2.95" (75)
Pitch in Inches (mm)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059" (1.5)	.79" (2.0)
Thru hole in inches (mm)	.492 (12.5)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)	2.36" (60)	2.95" (75)



- Most commonly used thread type world-wide
- Characterized by its major diameter and its pitch
- Designated by the letter M followed by the value of the nominal diameter and the pitch, both expressed in millimeters and separated by the multiplication sign 'x' (i.e. M12 x 1.5)

PG Threads

Thread Size	PG 7	PG 9	PG 11	PG 13 / 13.5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Major Dia. in Inches (mm)	.49 (12.5)	.60 (15.2)	.73 (18.6)	.80 (20.4)	.89 (22.5)	1.11 (28.3)	1.46 (37)	1.85 (47)	2.13 (54)	2.39 (59.3)
Pitch in Inches (mm)	.05 (1.27)	.055 (1.41)	.055 (1.51)	.055 (1.51)	.055 (1.51)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)
Thru hole in inches (mm)	.50 (12.7)	.606 (15.4)	.74 (18.8)	.8149 (20.7)	.897 (22.8)	1.12 (28.6)	1.47 (37.4)	1.87 (47.5)	2.14 (54.5)	2.35 (59.8)



- PG Thread = Panzer-Gewinde (Panzer-Rohr-Gewinde)
- German thread type
- Depth of thread smaller than NPT or Metric, but larger flank angle

**Other Technical Information
 can be found online at
www.SealconEX.com**

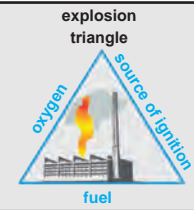
For questions please call our Inside Technical Sales Department - 1-800-456-9012 or 303-699-1135.

Our products have been approved by many different certification authorities.
 HUMMEL AG is a certified manufacturer and supplier of electro-mechanical devices.



What is an explosion?

For an explosion to occur, three conditions must be fulfilled; see the explosion triangle diagramm.

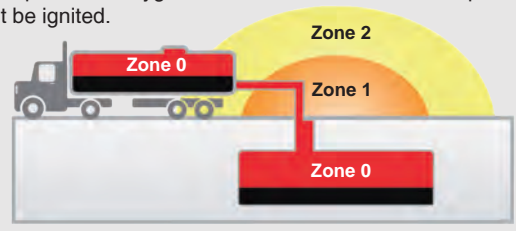
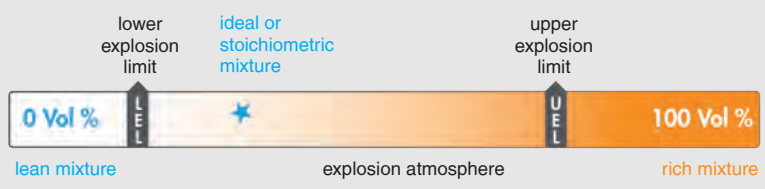


1. Fuel
2. Oxygen
3. Source of Ignition

By eliminating one of these three conditions, an explosion cannot occur.

Potentially Explosive Atmosphere

A potentially explosive atmosphere is understood to be a mixture of a combustible material and oxygen. Oxygen is generally present as a component of air. Combustible materials can be gases, fluids, vapors, mist or dusts. If the proportion of oxygen falls below a certain value dependent on the material, known as the oxygen limit concentration, then this mixture cannot be ignited.



European Zones / IEC / CENELEC / ATEX Classification	Definition of Zone or Division	North American Classification
Zone 0 (Gases)	Relates to areas in which a potentially explosive atmosphere consisting of a mixture of air and gases, vapors or mist exists continuously (Zone 0), or a mixture of dust and air exists continuously (Zone 20) for long periods or frequently	Class I, Division 1 (gases)
Zone 20 (Dust)		Class II, Division 1 (dust)
Zone 1 (Gases)	Relates to areas in which a potentially explosive atmosphere of gases, vapors or mist (Zone 1) or a mixture of dust and air (Zone 21) occurs occasionally	Class I, Division 1 (gases)
Zone 21 (Dust)		Class II, Division 1 (dust)
Zone 2 (Gases)	Relates to areas in which it is unlikely that a potentially explosive atmosphere of gases, vapors or mist might occur (Zone 2) or (note the difference between conductive and non-conductive dust!) relates to areas in which it is unlikely that a potentially explosive atmosphere of suspended dust might occur (Zone 22), but if it does, only seldom and for a short period of time	Class I, Division 2 (gases)
Zone 22 (Dust)		Class II, Division 2 (dust) Class III, Division 1 (fibers) Class III, Division 2 (fibers)

Apparatus Group and Device Category EPL

- Group I Mining**
- M1 High Degree of Safety EPL Ma
 - M2 High Degree of Safety EPL Mb
-
- Group II Non-Mining**
- 1 Very High Degree of Safety
 - Gas (Zone 0,1, 2) EPL Ga
 - Dust (Zone 20, 21, 22) EPL Da
 - 2 High Degree of Safety
 - Gas (Zone 1, 2) EPL Gb
 - Dust (Zone 21, 22) EPL Db
 - 3 Normal Degree of Safety
 - Gas (Zone 2) EPL Gc
 - Dust (Zone 22) EPL Gc

Gases and Dust

Gas		Dust	
IIA	Propane	IIIA	Combustible Dust
IIB	Ethylene	IIIB	Non-Conductive Dust
IIC	Hydrogene	IIIC	Conductive Dust

Temperature Classes




Temperature Class	Highest Permissible Surface Temperature of the Operating Facility	Ignition Temperature of Combustible Materials
T1	450°C	> 450°C
T2	300°C	> 300°C < 450°C
T3	200°C	> 200°C < 300°C
T4	135°C	> 135°C < 200°C
T5	100°C	> 100°C < 200°C
T6	85°C	> 85°C < 100°C

Disclaimer / Terms of Use


The information provided herein is provided as a general reference regarding the use of the applicable products in generic applications. This information is provided without warranty. It is your responsibility to ensure that you are using all mentioned products properly in your specific application although this presentation strives to maintain accurate and relevant information. There is no official guarantee that the information provided herein is accurate or has changed. If you use the information provided herein in your specific application, please double check its applicability and be advised that you are using this information at your own risk. The purchaser of the product must confirm the suitability of the product for the intended use, and assume all risk and liability in connection with its use.

Protection Concepts

Electrical

Intrinsic safety	Ex-ia	IEC 60079-11 / EN 60079-11	Zone 0, 1, 2	Limit the energy	
Intrinsic safety	Ex-ib	IEC 60079-11 / EN 60079-11	Zone 1, 2		
Intrinsic safety	Ex-ic	IEC 60079-11 / EN 60079-11	Zone 2		
Increased safety	Ex-e	IEC 60079-7 / EN 60079-7	Zone 1, 2	Non arcs, sparks or hot surfaces, IP54 or better	
Flameproof enclosure	Ex-d	IEC 60079-1 / EN 60079-1	Zone 1, 2	Contain the explosion Use a flamepath	

Dust Protection

Enclosure	Ex-t	IEC 60079-31 / EN 60079-31	Zone 20,21,22	Dust tight enclosure IP6X	
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Additional International Ex-Certifications, Installation Instructions, Approvals & Licence Numbers for Cable Glands, Cable Glands can be found online at <http://SealconEX.com/certificates.htm>

International Protection, EN 60529


1. Code		2. Code	Penetration of water										
Protection against human access to hazardous parts	Protection of equipment against penetration of solid foreign objects		Non-protected	Protection against drip water (or dripping water)	Protected against vertically falling water drops when device is tilted up to 15°	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects	Water splashed from any direction shall have no harmful effects	Water projected in jets from any direction shall have no harmful effects	Water projected in powerful jets from any direction shall have no harmful effects	Protection against temporary submersion	Protection against permanent submersion		
			IP x0	IP x1	IP x2	IP x3	IP x4	IP x5	IP x6	IP x7	IP x8		
Non-protected	Non-protected	IP 0x	IP 00										
Protected against access to hazardous parts with the back of the hand	Protected against solid foreign objects larger in diameter than 50 mm	IP 1x	IP 10	IP 11	IP 12								
Protected against access to hazardous parts with a finger	Protected against solid foreign objects larger in diameter than 12.5 mm	IP 2x	IP 20	IP 21	IP 22	IP 23							
Protected against access to hazardous parts with a tool larger in diameter than 25 mm	Protected against solid foreign object larger in diameter than 2.5 mm	IP 3x	IP 30	IP 31	IP 32	IP 33	IP 34						
Protected against access to hazardous parts with a wire larger in diameter than 1.0 mm	Protected against solid foreign objects larger in diameter than 1.0 mm	IP 4x	IP 40	IP 41	IP 42	IP 43	IP 44						
Protected against access to hazardous parts with a wire larger in diameter than 1.0 mm	Prevent penetration of dust sufficient to cause damage inside the equipment.	IP 5x	IP 50				IP 54	IP 55					
Protected against access to hazardous parts with a wire larger in diameter than 1.0 mm	Dust proof	IP 6x	IP 60					IP 65	IP 66	IP 67	IP 68		


Ex-d EXIOS Cable Glands
 Ex-d Nickel Plated Brass & Stainless Steel Glands
 Ex-e Nylon Glands
 Ex-e Multi-Hole & Romex Glands
 Ex-e Nickel Plated Brass & Stainless Steel Glands
 Ex-e EMI / RFI Nickel Plated Brass Glands
 Ex-e / Ex-d Accessories
 Technical Information



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