

# Conduit System - Double-Seal & Bulkhead Fittings

## Nylon - Flange & PG/NPT/Metric Threads

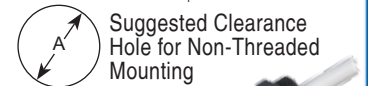
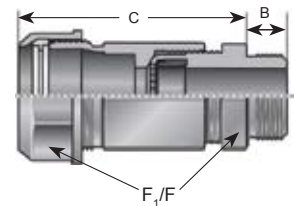


### Double-Seal Fittings: Conduit & Cable Gland Combination

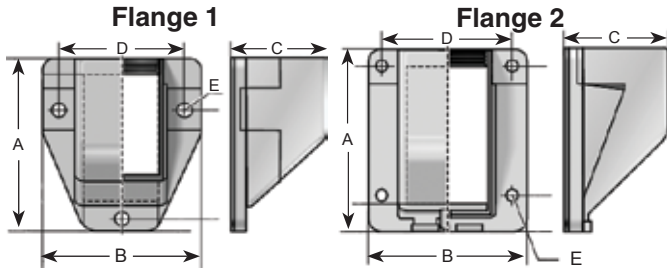
Part Numbers	Thread Type & Size	Cable Range Inches (mm)	Fits Nominal Conduit Size	Dimensions			
				A Hole O.D. +.01" (+.25 mm)	B Thread Length	C Body Length	F <sub>1</sub> /F Wrench Flat
-40 °F to 230 °F (-40 °C to 110 °C)							
	See page 49 for thread specs						
DS09AA-BK	PG 9	.16 - .31 (4 - 8)	10	.60 (15.2)	.31 (8)	1.73 (44)	.75 (19) / .87 (22)
DS11AA-BK	PG 11	.20 - .39 (5 - 10)	12	.73 (18.5)	.31 (8)	1.85 (47)	.87 (22) / .95 (24)
DS13AA-BK	PG 13 / 13.5	.24 - .47 (6 - 12)	17	.80 (20.3)	.35 (9)	1.93 (49)	.95 (24) / 1.18 (30)
DS16AA-BK	PG 16	.39 - .55 (10 - 14)	17	.88 (22.3)	.39 (10)	1.97 (50)	1.06 (27) / 1.18 (30)
DS21AA-BK	PG 21	.51 - .71 (13 - 18)	23	1.12 (28.4)	.43 (11)	2.32 (59)	1.30 (33) / 1.50 (38)
-40 °F to 176 °F (-20 °C to 80 °C)							
DS09NA-BK	3/8" NPT	.16 - .31 (4 - 8)	10	.68 (17.2)	.59 (15)	2.01 (51)	.75 (19) / .87 (22)
DS13NA-BK	1/2" NPT	.24 - .47 (6 - 12)	17	.83 (21.1)	.51 (13)	2.09 (53)	.95 (24) / 1.18 (30)
DS16NA-BK	1/2" NPT	.39 - .55 (10 - 14)	17	.83 (21.1)	.51 (13)	2.09 (53)	1.06 (27) / 1.18 (30)
DS21NA-BK	3/4" NPT	.51 - .71 (13 - 18)	23	1.05 (26.7)	.51 (13)	2.40 (61)	1.30 (33) / 1.50 (38)
DS16MA-BK	M16 x 1.5	.16 - .31 (4 - 8)	10	.63 (16)	.31 (8)	1.73 (44)	.75 (19) / .87 (22)
DS20MA-BK	M20 x 1.5	.24 - .47 (6 - 12)	17	.79 (20)	.35 (9)	1.93 (49)	.95 (24) / 1.18 (30)
DS25MA-BK	M25 x 1.5	.51 - .71 (13 - 18)	23	.98 (25)	.43 (11)	2.32 (59)	1.30 (33) / 1.50 (38)

### Advantages:

- Combined Conduit and Cable Gland Fittings 2-in-1
- Clamping around entire circumference, ensuring maximum pull-out resistance
- No loose parts - Fitting does not have to be dismantled for assembly
- High degree of protection

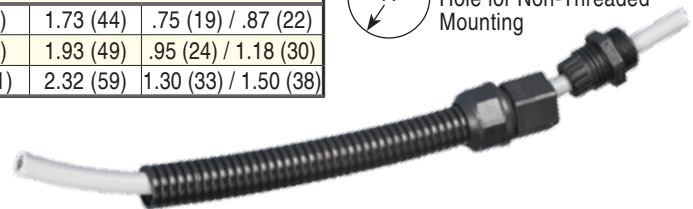


### Bulkhead Conduit Fittings



(Technical Drawings for Bulkhead Fittings with and without Threads)

**Note:** The design of the Bulkhead Fittings changes depending on size. Up to M25/PG 21 the Fitting has 3 screw holes, from size M32 / PG 29 the Fitting has 4 screw holes. (see technical drawings)



- Bulkhead Fittings are manufactured from high-grade Nylon (Polyamide).
- Split system: large cut-out size allows for quick & easy insertion of pre-assembled cables into a housing.
- Protection rating: IP 65.
- The higher IP 65 protection rating is achieved in combination with a suitable Conduit Fitting.

### Bulkhead Conduit Fittings **with Thread**

Part Numbers	Thread Type & Size	Fits Nominal Conduit Size	Flange	Dimensions in Inches (mm)				
				A Length	B Width	C Height	D Distance between Holes	E Hole Diameter
-4 °F to 176 °F (-20 °C to 80 °C)								
	See page 49 for thread specs							
FL-11-BK	PG 11	12	1	1.93 (49)	1.85 (47)	1.38 (35)	1.46 (37)	.20 (5)
FL-16-BK	PG 16	17	1	1.93 (49)	1.85 (47)	1.38 (35)	1.46 (37)	.20 (5)
FL-21-BK	PG 21	23	1	2.72 (69)	2.56 (65)	1.73 (44)	2.05 (52)	.26 (6.5)
FL-29-BK	PG 29	29	2	3.54 (90)	3.07 (78)	2.17 (55)	2.56 (65)	.28 (7)
FL-36-BK	PG 36	37	2	3.94 (100)	3.70 (94)	2.60 (66)	3.15 (80)	.28 (7)
FL-48-BK	PG 48	50	2	4.57 (116)	3.98 (101)	2.99 (76)	3.46 (88)	.28 (7)



### Advantages (Threaded):

- Split system enables pre-assembled cable harnesses to be inserted by means of removable upper part
- Easy assembly
- High stability
- Supplied with gasket for flange connection.
- Internal thread for Metric and PG Fittings

### Bulkhead Conduit Fittings **without Thread**

Part Numbers	Fits Nominal Conduit Size	Flange	Dimensions in Inches (mm)				
			A Length	B Width	C Height	D Distance between Holes	E Hole Diameter
-4 °F to 176 °F (-20 °C to 80 °C)							
FT-11-BK	12	1	1.93 (49)	1.85 (47)	1.38 (35)	1.46 (37)	.20 (5)
FT-16-BK	17	1	1.93 (49)	1.85 (47)	1.38 (35)	1.46 (37)	.20 (5)
FT-21-BK	23	1	2.72 (69)	2.56 (65)	1.73 (44)	2.05 (52)	.26 (6.5)
FT-29-BK	29	2	3.54 (90)	3.07 (78)	2.17 (55)	2.56 (65)	.28 (7)
FT-36-BK	37	2	3.94 (100)	3.70 (94)	2.60 (66)	3.15 (80)	.28 (7)
FT-48-BK	50	2	4.57 (116)	3.98 (101)	2.99 (76)	3.46 (88)	.28 (7)



### Advantages (Without Thread):

- Split system enables pre-assembled cable harnesses to be inserted by means of removable upper part
- Easy assembly
- High stability
- Supplied with gasket for flange connection.
- Conduit remains rotatable

**Note:** Screws not included.

For Material Specifications and Approval Information, please refer to page 45.



Dimensions and specifications may be changed without prior notice.



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