

FDH Single and Multiple Gang Cast Device Boxes

Blank Bodies for Brazed Hubs

UNILETS™ for Use with Threaded Rigid Metal Conduit and IMC. Available with Hub Sizes from 1/2" through 1-1/2" (Union 1/2" through 1-1/4").
Furnished with Internal Ground Screw.

NEC:
Listed for Ordinary Locations

Applications

- Accommodate wiring devices such as switches and receptacles.
- Provide excellent service in areas where boxes are subject to rough usage.
- Serve as pull boxes for conductors.
- Permit access to conductors for maintenance.
- Provide openings for making splices.
- Allow connections for branch conduit runs.
- Blank bodies for special conduit entrance arrangements.

Features

- Corrosion-resistant — ideal for indoor and outdoor installations.
- Weatherproof, raintight and dust-tight when used with cast gasketed covers.
- FS and FD boxes take standard flush wiring devices.
- FD boxes take devices exceeding 1-5/8" in depth under fastening ears.
- Malleable iron for high tensile strength and ductility — provides greater resistance to impact and shock.
- Both malleable iron and aluminum boxes have ridge top construction for positive cover/gasket/box fit.
- Accurately tapped, tapered threads for tight, rigid joints, ground continuity.
- Complete selection of covers, receptacles, plugs, gaskets and accessories.
- Covers have captive screws to speed installation, prevents loss of screws.
- Internal grounding screws standard.
- Available in single, two, three and four gang boxes.
- Brazed threaded hubs for threaded conduit from 1/2" thru 1-1/2" and brazed union hubs from 1/2" thru 1-1/4".
- Smooth, rounded integral bushing in each hub protects conductor insulation.

Standard Materials

- Brazed hub device boxes: malleable iron
- Brazed hubs: malleable iron
- Covers: malleable iron or steel
- Cover screws: stainless steel, 6—32 thread

Standard Finishes

- Malleable iron boxes and covers: triple-coat — (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel covers: zinc electroplate

NEC Certifications and Compliances

- UL Standard: 514A
- UL Listed: E2527
- NEMA Standard: FB-1

Reference Data

- When ordering drilled and tapped openings or brazed hubs for blank bodies, refer to *FDH Cast Device Boxes Drilling and Tapping Information* pages.



Blank Bodies for Drilling and tapping. FD-3L shown.



Blank Bodies for Brazed Hubs. FS-3G shown.

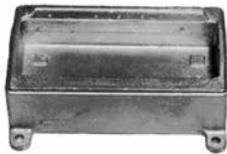
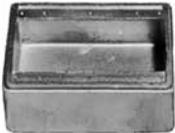
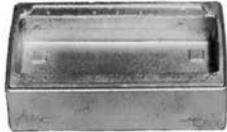
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FS Box (Shallow) 2.00", FD Box (Deep) 2.69"

	Brazed Hubs Description	Depth	Catalog Number Malleable Iron Ridge Top
FS and FD with Lugs			
	Single-Gang Box	Shallow	FS-1GL
	Two-Gang Box	Shallow	FS-2GL
	Single Cover	Deep	FD-2GL
	Three-Gang Box	Shallow	FS-3GL
	Single Cover	Deep	FD-3GL
	Four-Gang Box	Shallow	FS-4GL ①
	Single Cover	Deep	FD-4GL
FS and FD without Lugs			
	Two-Gang Box	Shallow	FS-2G ①
	Single Cover	Deep	FD-2G
	Three-Gang Box	Shallow	FS-3G ①
	Single Cover	Deep	FD-3G
	Four-Gang Box	Shallow	FS-4G ①
	Single Cover	Deep	FD-4G

① Not furnished with internal ground screw.

FDH Single and Multiple Gang Cast Device Boxes

Single-, Two-, Three-, and Four-Gang Boxes. Brazed Threaded Hubs for Rigid Conduit, 1/2" through 1-1/2"; Brazed Union Hubs, 1/2" through 1-1/4".

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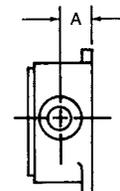
Minimum Centerline Spacing Between Brazed Threaded Hubs ①

Table shows minimum distances between hub centerlines in various size combinations. For example, if 1-1/4" and 1/2" openings are to be brazed on one side of box, the minimum spacing between centerlines would be 1.75". If union hubs are used, additional space must be allowed.

Minimum Centerline Spacing in Inches

Hub Size (Inches)	1/2	3/4	1	1-1/4	1-1/2
1/2	31.8 (1.25)				
3/4	35.1 (1.38)	38.1 (1.50)			
1	39.6 (1.56)	42.9 (1.69)	46.0 (1.81)		
1-1/4	44.5 (1.75)	47.8 (1.88)	50.8 (2.00)	55.6 (2.19)	
1-1/2	49.3 (1.94)	52.3 (2.06)	55.6 (2.19)	60.5 (2.38)	65.0 (2.56)
Hub Dia.	28.7 (1.13)	35.0 (1.38)	41.4 (1.63)	50.8 (2.00)	60.5 (2.38)
Conduit Dia.	22.4 (0.88)	26.9 (1.06)	33.3 (1.31)	42.9 (1.69)	49.3 (1.94)
UNY/UNF Union Dia.	38.1 (1.50)	44.5 (1.75)	50.8 (2.00)	71.4 (2.81)	—

Distance from Mounting Surface to Centerline of Brazed Threaded Hubs



Hub Size (Inches)	Dimensions "A" Millimeters (Inches)
1/2	16.0 (0.63)
3/4	19.1 (0.75)
1	22.4 (0.88)
1-1/4	27.7 (1.09)
1-1/2	31.0 (1.22)

Maximum Number and Sizes of Drilled and Tapped Conduit Openings Per Top, Bottom, Side and Back ①

Allowance made for clearance over Appleton™ BBU Series bushings.

Type Box	Hub Size (Inches)	Max. No. Of Openings			Type Box	Hub Size (Inches)	Max. No. Of Openings		
		Top or Bottom	Per Side	Back			Top or Bottom	Per Side	Back
FD-1L One Single-Gang Cover	1/2	2	2	1	FS-3G and FS-3GL One Three-Gang Cover	1/2	4	2	6
	3/4	1	2	1		3/4	3	2	6
	1	1	2	1		1	3	2	6
	1-1/4	1	1	1		1-1/4	None	None	3
FD-2L Two Single Gang Covers	1-1/2	1	1	1	1-1/2	None	None	3	
	1/2	4	2	4	FS-4G and FS-4GL One Four Gang Cover	1/2	5	2	8
	3/4	2	2	4		3/4	4	2	8
	1	2	2	4		1	4	2	8
1-1/4	2	1	2	1-1/4		None	None	4	
FD-3L Three Single Gang Covers	1-1/2	2	1	2	1-1/2	None	None	4	
	1/2	6	2	6	FD-2G and FD-2GL One Two Gang Cover	1/2	3	2	4
	3/4	3	2	6		3/4	2	2	4
	1	3	2	6		1	2	2	4
1-1/4	3	1	3	1-1/4		1	1	2	
FD-4L Four Single Gang Covers	1-1/2	3	1	3	1-1/2	1	1	2	
	1/2	8	2	8	FD-3G and FD-3GL One Three Gang Cover	1/2	4	2	6
	3/4	4	2	8		3/4	3	2	6
	1	4	2	8		1	3	2	6
1-1/4	4	1	4	1-1/4		2	1	3	
FS-1GL One Single Gang Cover	1-1/2	4	1	4	1-1/2	2	1	3	
	1/2	2	2	1	FD-4G and FD-4GL One Four Gang Cover	1/2	5	2	8
	3/4	1	2	1		3/4	4	2	8
	1	1	2	1		1	4	2	8
1-1/4	None	None	1	1-1/4		3	1	4	
FS-2G and FS-2GL One Two Gang Cover	1-1/2	None	None	1	1-1/2	3	1	4	
	1/2	3	2	4	FD-4G and FS-4GL One Four Gang Cover	1/2	5	2	8
	3/4	2	2	4		3/4	4	2	8
	1	2	2	4		1	4	2	8
1-1/4	None	None	2	1-1/4		3	1	4	
FD-4L Four Single Gang Covers	1-1/2	None	None	2	1-1/2	3	1	4	
	1-1/2	None	None	2					

① Hubs will be located in center of walls and evenly spaced unless otherwise specified. Where spacings are critical, submit sketch showing exact spacing requirements.

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Wiring Capacity

Gangs	Catalog Number	Capacity — dm ³ (in ³)		
		Volume	Catalog Number	Volume
Single	FS-1GL	0.29 (18.00)	FD-1L	0.43 (26.00)
Two	FS-2G	0.52 (32.00)	FD-2G, FD-2GL	0.74 (45.00)
Two	FS-2GL	0.52 (32.00)	FD-2L	1.07 (65.00)
Three	FS-3G	0.75 (46.00)	FD-3G, FD-3GL	1.02 (62.00)
Three	FS-3GL	0.75 (46.00)	FD-3L	1.61 (98.00)
Four	FS-4G	0.95 (58.00)	FD-4G, FD-4GL	1.28 (78.00)
Four	FS-4GL	0.95 (58.00)	FD-4L	2.13 (130.00)

Dimensions in Millimeters (Inches)

Single, Multiple Gang Boxes with Multiple Covers

