UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: 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 stainless steel screws to speed installation, prevent "freezing" of screws.
- Ground screw at top of box for easy access.
- Cast Hub Boxes
  - Available in single, two, three and four gang and tandem.
  - Smooth, rounded integral bushing in each hub protects conductor insulation.
- FD Blank Bodies for Brazed Hubs or Drill and Tapped Entries
  - Available in single, two, three and four gang boxes.
  - Drill and tapped entries.
  - 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.
  - Ground screw at top of box for easy access.

### **Standard Materials**

- Cast hub device boxes and boxes for drilling and tapping: malleable iron or copperfree (4/10 of 1% max.) aluminum
- Brazed hubs: malleable iron
- Covers: malleable iron, steel, or copperfree (4/10 of 1% max.) aluminum

### **Standard Finishes**

- Malleable iron boxes and covers: triple-coat (1) zinc electroplate, (2) chromate, and (3) aluminum polymer enamel
- Aluminum boxes and covers: epoxy powder coat
- Steel covers: zinc electroplate
- Screws: stainless steel

### **Options**

• Enclosures drilled for 347 Volt devices. Add suffix -347.





Gasket is designed so that it "wraps around" ridge top of Appleton™ aluminum or malleable iron device box. Result is a positive seal against moisture.

### **CEC Certifications and Compliances**

- CSA Standard: C22.2 No. 18.1
- CSA Certified: 001472

### **Reference Data**

• When ordering drilled and tapped openings or brazed hubs for blank bodies, refer to FS and FD Cast Device Boxes Drilling and Tapping Information pages.

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

# CEC: Listed for Ordinary Locations

	Size		Malleable Iron Weight kg (lb)	Catalog Number		Aluminum Weight kg (lb)	Catalog Number
	1/2		0.88 (1.94)	FS-1		0.29 (0.64)	FS-1A
	3/4	Shallow	1.02 (2.25)	FS-2	Shallow	0.34 (0.75)	FS-2A
	1		0.88 (1.94)	FS-3		0.29 (0.64)	FS-3A
	1/2		1.22 (2.70)	FD-1		0.41 (0.90)	FD-1A
	3/4	Deep	1.18 (2.60)	FD-2	Deep	0.42 (0.92)	FD-2A
	1		1.27 (2.80)	FD-3		0.43 (0.94)	FD-3A
	1/2	<b>-</b>	0.77 (1.70)	FSA-1		0.26 (0.57)	FSA-1A
	3/4	Shallow	0.73 (1.60)	FSA-2	Shallow	0.26 (0.58)	FSA-2A
	1/2	Dest	0.95 (2.10)	FDA-1	Dura	0.32 (0.70)	FDA-1A
	3/4	Deep	0.91 (2.00)	FDA-2	Deep	0.30 (0.67)	FDA-2A
	1/2		0.95 (2.10)	FSC-1		0.32 (0.70)	FSC-1A
	3/4	Shallow	1.09 (2.40)	FSC-2	Shallow	0.36 (0.80)	FSC-2A
<u> </u>	1		0.93 (2.06)	FSC-3		0.32 (0.70)	FSC-3A
	1/2		1.27 (2.80)	FDC-1		0.43 (0.94)	FDC-1A
-	3/4	Deep	1.27 (2.80)	FDC-2	Deep	0.43 (0.94)	FDC-2A
	1		1.36 (3.00)	FDC-3		0.45 (1.00)	FDC-3A
	1/2		0.77 (1.70)	FSCC-1		0.26 (0.57)	FSCC-1A
• ]		Shallow			Shallow		
	3/4		0.99 (2.20)	<b>FSCC-21</b> ①		0.34 (0.74)	<b>FSCC-21A</b> ①
	1/2		1.13 (2.50)	FSCT-1		0.38 (0.84)	FSCT-1A
	3/4	Shallow	1.13 (2.50)	FSCT-2	Shallow	0.38 (0.84)	FSCT-2A
	1		1.02 (2.25)	FSCT-3		0.34 (0.75)	FSCT-3A
	1/2		1.36 (3.00)	FDCT-1		0.45 (1.00)	FDCT-1A
	3/4	Deep	1.27 (2.80)	FDCT-2	Deep	0.43 (0.94)	FDCT-2A
	1		1.41 (3.10)	FDCT-3		0.47 (1.03)	FDCT-3A
-	1/2		0.99 (2.20)	FDD-1		0.34 (0.74)	FDD-1A
		Deep			Deep		
	3/4		1.04 (2.30)	FDD-2		0.35 (0.77)	FDD-2A
	3/4	Shallow	1.06 (2.34)	FSL-2	Shallow	0.35 (0.78)	FSL-2A

O Use FD Unilets<sup>™</sup> for wiring devices exceeding 1-5/8" in depth under fastening ears.

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UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

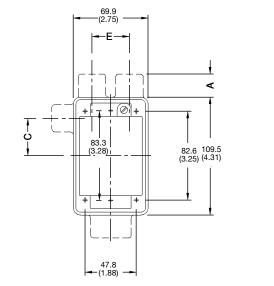
# CEC: Listed for Ordinary Locations

			Malleable Iron			Aluminum	
	Size		Weight kg (lb)	Catalog Number		Weight kg (lb)	Catalog Number
- - -	1/2	Shallow	0.82 (1.80)	FSS-1	Shallow	0.27 (0.60)	FSS-1A
	3/4	Shallow	0.82 (1.80)	FSS-2	Shallow	0.27 (0.60)	FSS-2A
	1/2		1.12 (2.46)	FST-1		0.37 (0.82)	FST-1A
	3/4	Shallow	1.06 (2.33)	FST-2	Shallow	0.35 (0.78)	FST-2A
	1	Deep	1.45 (3.20)	FDT-3	Deep	0.49 (1.07)	FDT-3A
	1/2	01	1.25 (2.75)	FSX-1		0.41 (0.91)	FSX-1A
	3/4	Shallow	1.06 (2.34)	FSX-2	Shallow	0.35 (0.78)	FSX-2A
	1/2		1.41 (3.10)	FDX-1		0.47 (1.03)	FDX-1A
	3/4	Deep	1.36 (3.00)	FDX-2	Deep	0.48 (1.06)	FDX-2A
0	1		1.59 (3.50)	FDX-3		0.53 (1.17)	FDX-3A

D В

Ϋ́

## **Dimensions in Millimeters (Inches)**



# FS and FD Single Gang Devices

					D	
Hub Size	Α	В	C	FS	FD	E
1/2	0.3 (0.75)	0.3 (0.63)	0.6 (1.38)	0.9 (2.00)	1.3 (2.75)	0.6 (1.38)
3/4	0.3 (0.75)	0.3 (0.75)	0.6 (1.38)	0.9 (2.00)	1.3 (2.75)	0.6 (1.38)
1	0.4 (0.88)	0.4 (0.88)	0.8 (1.25)	0.9 (2.00)	1.3 (2.75)	0.6 (1.38)

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC.

#### CEC: Listed for Ordinary Locations

Weight Per 100 Catalog Number Description kg (lb) **Single Gang Covers** Blank Cover, Steel - Zinc Electroplate 5.44 (12.00) FS-4 ① Round Receptacle Cover, Steel - Zinc Electroplate 5.44 (12.00) **FS-5** ① Hole dia. 1-7/16" Duplex Receptacle Cover, Steel - Zinc Electroplate 4.54 (10.00) **FS-6** ① Round Receptacle Cover, Steel - Zinc Electroplate 5.44 (12.00) FS-8 ① Hole dia. 1-5/8" Tumbler Switch Cover, Steel - Zinc Electroplate 5.44 (12.00) FS-9 ① Tumbler Switch Cover, Steel - Zinc Electroplate 9.98 (22.00) FSK-ITS-G 2 For pilot lamp Red Jewel FSK-1J 2 Amber Jewel FSK-1JA 2 11.34 (25.00) Green Jewel FSK-1JG 2 FSK-1JO 2 **Opal Jewel** Single Gang Weatherproof Covers FS-100G Blank Cover, Malleable Iron, Zinc Electroplate 25.40 (56.00)

① Available in Aluminum: Add suffix -A to Catalog Number.

<sup>®</sup> Also for use with multiple gang Unilets with individual cover openings.



UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC.

CEC: Listed for Ordinary Locations

		Catalog I	
	Description	Malleable Iron Ridge Top	Aluminum Ridge Top
ast Covers Only — W	Veatherproof — Furnished with gasket and stainless steel screws		
Ś	Receptacle cover with spring cover. Hole Diameter — 1-7/16"	FSK-1VRCN	-
	Rocker type for square handle tumbler or toggle switches	FSK-1VCN	FSK-1V-ACN
	For duplex flush receptacle with spring cover	FSK-1VDR	FSK-1VDR-A
	For external operation of tumbler switches with square handles	FSK-1VTSCN	FSK-1VTSACN
	Operating type for square handle tumbler or toggle switches	FSK-1VSCN	FSK-1VS-ACN
Gasket – Replacemen	nt		
$\diamond$	Neoprene – for use with cast	FS-GKR-1N	FS-GKR-1N
Cast Covers Only — Fı	urnished with stainless steel screws less gasket		
Ø	For standard 2 or 3 wire duplex receptacles	FSK-1DR-CCN	_
0.1	For round flush receptacles.Hole dia. 1-7/16"	FSK-1R-ZCN	_
	For square handle toggle switches	FSK-1TS-CCN	_
(A)	For square handle toggle switches (with protecting guard)	FSA-1TSG-CCN	FSK-1TSG-CAC

Weatherproof, Raintight and Dust-tight Covers for Ridge Top Boxes.

CEC: Listed for Ordinary Locations

					Catalog Number	
				Recept	tacles	
	Receptacle	Plug	Pole/Wire	Malleable Iron Ridge Top	Aluminum Ridge Top	Plug
eceptacle cover has threaded a	aluminum cap. Plug has neoprene	•				-
	Grounding Type – Recepta	cle takes "U"	' shaped or rou	nd grounding con	tact plugs	
	15 Amp, 125V					
Annon C		A 5-15P	2P, 3W	FSK5-15	FSK5-15-A	FSWP5-15
231	20 Amp, 125V		<b>`</b>			
	NEMA 5-20R	A 5-20P	•) 2P, 3W	FSK5-20 ①	FSK5-20-A ①	FSWP5-20
	15 Amp, 250V					
		A 6-15P	2P, 3W	FSK6-15	FSK6-15-A	FSWP6-15
	20 Amp, 250V					
	NEMA 6-20R	A 6-20P	) 2P, 3W	FSK6-20 ②	FSK6-20-A	FSWP6-20
ocking Grounding Type						
a grand and	15 Amp, 125V					
AB.	NEMA L5-15R	A L5-15P 🤇	<b>)</b> 2P, 3W	FSKL5-15		FSWPL5-1
0	15 Amp, 250V					
	NEMA L6-15R 🛞 NEM	A L6-15P 🤇	9 2P, 3W	FSKL6-15		FSWPL6-1
	15 Amp, 277V					
- And	NEMA L7-15R	A L7-15P 🤇	<b>1</b> ) 2P, 3W	FSKL7-15		FSWPL7-1

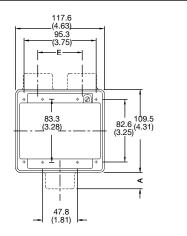
Also takes FSWP5-15 Plugs.
Also takes FSWP6-15 Plugs.

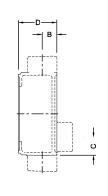
UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: Listed for Ordinary Locations

		Gray Iron			Aluminum	
Size		Weight kg (lb)	Catalog Number		Weight kg (lb)	Catalog Number
1/2	Shallow	1.22 (2.70)	FS-12	Shallow	0.41 (0.90)	FS-12A
3/4	Gridilow	1.18 (2.60)	FS-22	Shallow	0.39 (0.87)	FS-22A
 1/2		1.22 (2.70)	FD-12	Shallow	0.41 (0.90)	FD-12A
3/4	Deep	1.22 (2.70)	FD-22	Shanow	0.41 (0.90)	FD-22A
1		1.27 (2.80)	FD-32	Deep	0.42 (0.93)	FD-32A
1/2	Shallow	1.36 (3.00)	FSC-12	Shallow	0.45 (1.00)	FSC-12A
3/4	Shallow	1.36 (3.00)	FSC-22	Shallow	0.45 (1.00)	FSC-22A
1/2		1.32 (2.90)	FDC-12		0.44 (0.97)	FDC-12A
3/4	Deep	1.36 (3.00)	FDC-22	Deep	0.48 (1.06)	FDC-22A
1		1.41 (3.10)	FDC-32		0.47 (1.03)	FDC-32A
1/2 - 3/4	Shallow	1.22 (2.70)	FSD-212 ①	Shallow	0.41 (0.90)	FSD-212A ①

### **Dimensions in Millimeters (Inches)**





### FS and FD Two-Gang Devices

	Dimensions in Millimeters (Inches)						
					D		
Hub Size	А	В	C	FS	FD	E	
1/2	19.1 (0.75)	16.0 (0.63)	35.1 (1.38)	50.8 (2.00)	69.9 (2.75)	58.7 (2.31)	
3/4	19.1 (0.75)	19.1 (0.75)	35.1 (1.38)	50.8 (2.00)	69.9 (2.75)	58.7 (2.31)	
1	22.4 (0.88)	22.4 (0.88)	31.8 (1.25)	50.8 (2.00)	69.9 (2.75)	58.7 (2.31)	

1) Hubs at top of illustration are 1/2".

**COMMERCIAL AND INDUSTRIAL FITTINGS: CAST DEVICE BOXES** Appleton

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UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC.

#### CEC: Listed for Ordinary Locations

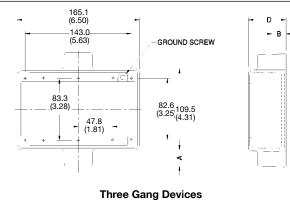
	Description	Weight Per 100 kg (lb)	Catalog Number
vo Gang Covers			
	Blank Cover, Steel – Zinc Electroplate	9.07 (20.00)	FS-42 ①
8	Round Receptacle Cover, Steel – Zinc Electroplate Hole dia. 1-7/16"	8.16 (18.00)	<b>FS-52</b> ①
Ì	Duplex Receptacle Cover, Steel-Zinc Electroplate	6.80 (15.00)	<b>FS-62</b> ①
CO.	Tumbler Switch Cover, Steel –Zinc Electroplate	9.07 (20.00)	<b>FS-92</b> ①
E	Combination Duplex Receptacle and Tumbler Switch Cover, Steel - Zinc Electroplate	6.80 (15.00)	FS-69 ①
B	Combination Duplex Receptacle and Single Receptacle, Steel - Zinc Electroplate	6.80 (15.00)	<b>FS-65</b> ①
atherproof Covers			
	Blank Cover, Gray Iron	25.40 (56.00)	<b>FS-200G</b> ①
L.	For external operation of tumbler switches with square handles	113.40 (250.00)	FSK-2VTS
sket – Replacement			
$\bigcirc$	Neoprene - for use with 2-gang cast covers above	-	FS-GKR-2N

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: Listed for Ordinary Locations

	Size		Gray Iron Weight kg (Ib)	Catalog Number		Aluminum Weight kg (lb)	Catalog Number
FS Three Gang Bodies							
	3/4	Shallow	3.60 (1.63)	FSC-23	Shallow	0.54 (1.20)	FSC-23A
	1	Deep	4.00 (1.81)	FDC-33	Deep	0.60 (1.33)	FDC-33A
		Desc	cription		Weight Per kg (lb)		alog Number
Three Gang Covers							
600	Duplex Recept	acle Cover, Stee	el – Zinc Electropi	ate	10.43 (23.0	00) <b>F</b>	S-63 ①
039	Tumbler Switch	n, Steel –Zinc Ele	ectroplate		11.34 (25.0	00) <b>F</b>	S-93 ①
Weatherproof Covers							
0	Blank Cover, G	ray Iron			54.43 (120.	00) <b>F</b>	S-300G ①
2331J	For external op handles	eration of tumb	er or toggle swite	ches with square	149.69 (330	.00) <b>F</b>	SK-3VTS

# **Dimensions in Millimeters (Inches)**



				Γ	)	
Hub Size	Α	В	C	FS	FD	E
1/2	19.1 (0.75)	16.0 (0.63)	35.1 (1.38)	50.8 (2.00)	69.9 (2.75)	55.6 (2.19)
1	22.4 (0.88)	22.4 (0.88)	31.8 (1.25)	50.8 (2.00)	69.9 (2.75)	55.6 (2.19)

① Available in Aluminum: Add suffix -A to catalog number.

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: Listed for Ordinary Locations

### **Features**

- Thick wall on all four sides.
- Drill and tap anywhere on sidewalls.
- Ground screw at top of box for easy access.
- Two exterior mounting lugs.
- Fits standard sheet metal device covers with four mounting holes.
- Weatherproof when used with gasketed cast weatherproof device covers.

# **Standard Materials**

• Malleable iron or copperfree (4/10 of 1% max.) aluminum

### **Standard Finishes**

- Malleable iron: triple-coat (1) zinc electroplate, (2) chromate, and (3) aluminum polymer enamel
- Aluminum: epoxy powder coat

# **Reference Data**

• When ordering drilled and tapped openings or brazed hubs for blank bodies, refer to FS and FD Cast Device Boxes Drilling and Tapping Information page.

		Catalog Nu	mber			
	Description	Gray Iron	Aluminum			
FDO Unilets with Lugs: FD depth 2-19/32" — Maximum hub size 1-1/2" threaded, and 1-1/4" no-thread or union.						
and a second						

Single-Gang	FDO-1	FDO-1A
Two-Gang	FDO-2	FDO-2A
Three-Gang	FDO-3	FDO-3A
Four-Gang	FDO-4	FDO-4A

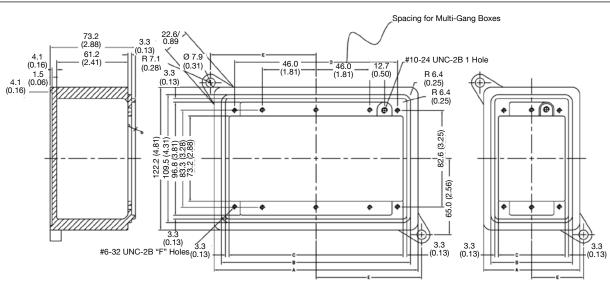
### FD Unilets with Lugs: FD depth 2.69" - Takes single gang covers

3	Single-Gang	FD-1L
eton	Two-Gang	FD-2L
Appleto	Three-Gang	FD-3L
	Four-Gang	FD-4L

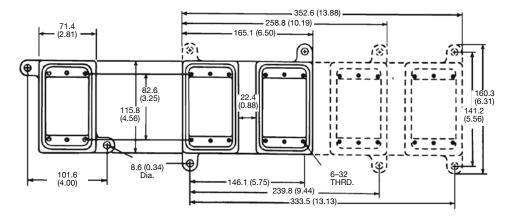
UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: Listed for Ordinary Locations

# **Dimensions in Millimeters (Inches)**



			FDO Unilets			
No. of Gangs	А	В	C	D	E	F
1	82.60 (3.25)	69.90 (2.75)	58.67 (2.31)	47.80 (1.88)	44.50 (1.75)	152.40 (6.00)
2	130.30 (5.13)	117.60 (4.63)	106.40 (4.19)	95.30 (3.75)	68.30 (2.69)	203.20 (8.00)
3	177.80 (7.00)	165.10 (6.50)	154.00 (6.06)	143.00 (5.63)	92.20 (3.63)	254.00 (10.00)
4	225.60 (8.88)	212.90 (8.38)	201.70 (7.94)	190.50 (7.50)	115.80 (4.56)	304.80 (12.00)



FD Unilets with Lugs

# Malleable Iron, Aluminum

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC: Listed for Ordinary Locations

### **Hub Information**

Listed below are the various types of brazed hubs which may be used with the FD Unilets and the FDO box. Threaded, no-thread and union hubs may be brazed at any desired location.

It is possible to place more than five hubs on the top and bottom of three and four-gang Unilets.

Look at the chart below for the maximum hub diameter and the minimum hub spacing distance. This chart, together with the Unilet dimensions will enable you to figure the maximum number of hubs which may be used.

The hubs will be symmetrically placed about the axis of the Unilets unless exact dimensions are specified on the order.

		Threaded for	No Thread for	No Thread for Electrical Metallic		
	Size	Rigid Conduit	Rigid Conduit	Tubing	Union	
Maximum Hub Size	FS	1	3/4	3/4	3/4	
Maximum Hub Size	FD	1-1/2	1-1/4	1-1/4	1-1/4	
	1/2	1-1/8	1-1/2	1-1/8	1-1/2	
	3/4	1-3/8	1-25/32	1-3/8	1-25/32	
Maximum Hub Diameter	1	1-9/16	2-1/32	1-9/16	2-1/32	
	1-1/4	1-15/16	2-25/32	1-15/16	2-25/32	
	1-1/2	2-3/16	_	_	_	
	1/2	1-1/4	1-9/16	1-1/4	1-9/16	
Maximum Distance	3/4	1-1/2	1-27/32	1-1/2	1-27/32	
Between Conduit	1	1-3/4	2-3/32	1-3/4	2-3/32	
Centers	1-1/4	2-1/8	2-29/32	2-1/8	2-29/32	
	1-1/2	2-3/8	_	_	_	



# Malleable Iron, Aluminum

UNILETS<sup>™</sup> for use with Threaded Rigid Conduit and IMC. All device boxes have ridge top construction.

CEC:

Listed for Ordinary Locations

### **Ordering Data**

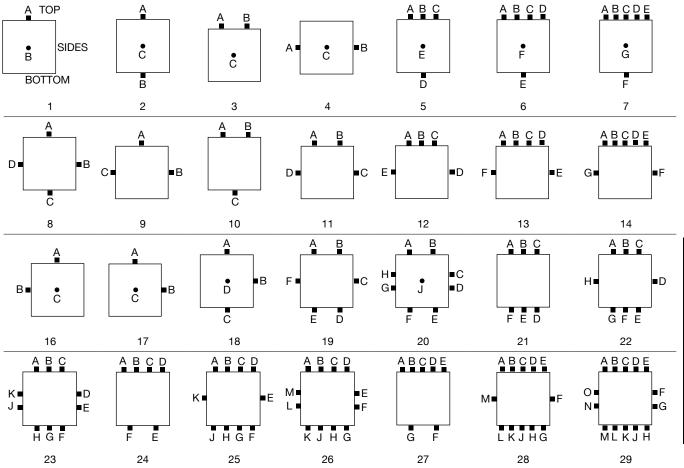
- To determine the catalog numbers of Unilets with drilled and tapped entries or hubs, the following information should be shown:
- 1. Unilet catalog number.
- 2. Sketch number of entry arrangement selected from illustrations below.
- 3. Entry symbols taken from the table right. Start from the left on the top of the Unilet and continue in rotation clockwise around its body. Where no entry is required, the symbol X should be inserted. The three various divisions of the catalog number should be separated by dashes.

### **Ordering Example:**

The Unilet selected is an FDO4 and the entry arrangement is sketch number 12. Entry A, B and C are to be 1/2" drilled and tapped for rigid conduit; D is to be a 1" hub and there is no entry at location E. The catalog number will be as follows FDO4-12-111CX.

Symbol Table		
Hub Size (Inches)	Brazed Threaded Hub Symbol	Brazed Union Hub Symbol
Blank	X	X
1/2	1	Α
3/4	2	В
1	3	С
1-1/4	4	D
1-1/2	5	E
2	6	F

### Single, Two, Three and Four-Gang – Front view and oriented as mounted



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Appleton