Appleton®

DICOM INGENIEROS S.R.L.

Materiales eléctricos
Industriales

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FICHAS TÉCNICAS

PRODUCTOS ELECTRICOS



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FM7™ Conduit Outlet Bodies, Covers and Gaskets

For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

NEC/CEC — Suitable for use in the following Hazardous Locations:
Class I, Division 2 per NEC 501.10(B)(4)
Wet Locations, NEMA 3R with cover and gasket

Applications

- Serve as pulling fittings.
- Make bends in conduit system.
- Provide openings for splicing.
- Connect and change direction of conduit runs.
- Allow connections for branch runs.
- Permit access to conductors for maintenance.

Features

- Smooth, rounded integral bushings in hubs protect conductor insulation.
- Accurately tapped, tapered threads for tight, rigid joints and excellent ground continuity.
- Wedge-Lok™ Form-IN-Place covers with integral gasket are suitable for use in wet locations. Grayloy-iron bodies with cast covers and gasket are suitable for use in wet locations.
- Unique Wedge-Lok™ clip cover design allows easy removal at any later time, without damaging the conduit body. The cover is secured with clips, not screws.
- Completely interchangeable with Crouse-Hinds ✣ Form 7™ ✣ bodies, gaskets and covers. Equivalent FM7™ and Form 7™ units have identical applications and installation dimensions.
- Flat back design provides greater cubic content for easier wire pulling, and more room for splicing. Fits flush and snug against flat surfaces for more stable installation.
- Smooth hub bushings and cover openings protect conductor insulation. Smooth hub openings allow easy conduit joining.
- Pan-head cover screws secure cover clips and provide superior screwdriver seating and torque. Cover screws and clips are captive to prevent loss.
- Hub size, body style, compliance data, maximum wire number/size and cubic capacity molded into body.

Standard Materials

- Body: Grayloy-iron or copperfree (4/10 of 1% max.) aluminum
- Covers: Grayloy-iron, copperfree (4/10 of 1% max.) aluminum or steel
- Cover screws: stainless steel

Standard Finishes

- Grayloy-iron bodies and covers: triplecoat — (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Cast aluminum bodies and covers: epoxy powder coat
- Steel covers: zinc electroplate
- Stamped aluminum covers: natural finish

Options

- No paint and coatings available on select bodies and covers. Add suffix **-NP** to catalog number.

NEC/CEC Certifications and Compliances

- UL Standard: 514A , 514B
- UL Listed: E2527
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 065183
- NEMA Standard: FB-1



Type LB

Illustrated Features



Conduit Body with Cast Aluminum Cover, 1" Type C shown



Grayloy™–Iron, 1" Type C shown with cut–away body and cover to illustrate Wedge–Lok™ Clip Cover detail

Illustrated views are cut away to demonstrate back configurations.



Appleton™ FM7™ (C57, 1–1/2")
28 Cubic Inches Capacity
Flat–Back Design



Crouse–Hinds Form 7™
(C57, 1–1/2")
26 Cubic Inches Capacity

✣ *Crouse-Hinds and Form 7™ are registered trademarks of Cooper Crouse-Hinds.*

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Wet Locations, NEMA 3R with cover and gasket

Appleton™ FM7™ Conduit Bodies ①

	C			LB			LL		
Hub Size (Inches)	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ④**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ④**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ④**
									
1/2	③	**APPC17**	**APPC-17SA**	③	**APPLB17**	**APPLB-17SA**	③	**APPLL17**	**APPLL-17SA**
3/4	(3) # 6	**APPC27**	**APPC-27SA**	(3) # 6	**APPLB27**	**APPLB-27SA**	(3) # 6	**APPLL27**	**APPLL-27SA**
1	(3) # 4	**APPC37**	**APPC-37SA**	(3) # 4	**APPLB37**	**APPLB-37SA**	(3) # 4	**APPLL37**	**APPLL-37SA**
1-1/4	(3) # 3	**APPC47**	**APPC-47SA**	(3) # 3	**APPLB47**	**APPLB-47SA**	(3) # 2	**APPLL47**	**APPLL-47SA**
1-1/2	(3) # 3	**APPC57**	**APPC-57SA**	(3) # 3	**APPLB57**	**APPLB-57SA**	(3) # 2	**APPLL57**	**APPLL-57SA**
2	(3) # 1/0	**APPC67**	**APPC-67SA**	(3) # 1/0	**APPLB67**	**APPLB-67SA**	(3) # 3/0	**APPLL67**	**APPLL-67SA**
2-1/2	(3) 2/0	**APPC77**	**APPC-77SA**	(3) 3/0	**APPLB77**	**APPLB-77SA**	(3) 250	**APPLL77**	**APPLL-77SA**
3	(3) 2/0	**APPC87**	**APPC-87SA**	(3) 2/0	**APPLB87**	**APPLB-87SA**	(3) 250	**APPLL87**	**APPLL-87SA**
3-1/2	—	—	—	(3) 300	**APPLB97**	**APPLB-97SA**	(3) 350	**APPLL97**	**APPLL-97SA**
4	—	—	—	(3) 350	**APPLB107**	**APPLB-107SA**	(3) 350	**APPLL107**	**APPLL-107SA**

	E			L ②			TA		
Hub Size (Inches)	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ④**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum**
									
1/2	③	**APPE17**	**APPE-17SA**	③	**APPL17**	—	③	**APPTA17**	—
3/4	(3) # 6	**APPE27**	**APPE-27SA**	(3) # 4	**APPL27**	—	(3) # 6	**APPTA27**	—
1	(3) # 4	**APPE37**	**APPE-37SA**	(3) # 4	**APPL37**	—	(3) # 4	**APPTA37**	—
1-1/4	—	—	—	(3) # 2	**APPL47**	—	(3) # 3	**APPTA47**	—
1-1/2	—	—	—	(3) # 2	**APPL57**	—	(3) # 2	**APPTA57**	—
2	—	—	—	(3) # 2	**APPL67**	—	(3) # 2	**APPTA67**	—

① Refer to following pages for Wiring Capacity Table.
② L Unilets have double opening and are furnished with one steel cover, assembled.
③ All 1/2" Max Wire Fill Calculations per the NEC - Annex C - Table C8.
*④ PVC coating available on select aluminum bodies. Add suffix **-PVC** to catalog number..*

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Class I, Division 2 per NEC 501.10(B)(4)
Wet Locations, NEMA 3R with cover and gasket

Appleton™ FM7™ Conduit Bodies ①

		LR			T	
Hub Size (Inches)	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ③**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ③**
						
1/2	②	**APPLR17**	**APPLR-17SA**	②	**APPT17**	**APPT-17SA**
3/4	(3) # 6	**APPLR27**	**APPLR-27SA**	(3) # 6	**APPT27**	**APPT-27SA**
1	(3) # 4	**APPLR37**	**APPLR-37SA**	(3) # 4	**APPT37**	**APPT-37SA**
1-1/4	(3) # 2	**APPLR47**	**APPLR-47SA**	(3) # 3	**APPT47**	**APPT-47SA**
1-1/2	(3) # 2	**APPLR57**	**APPLR-57SA**	(3) # 3	**APPT57**	**APPT-57SA**
2	(3) # 2	**APPLR67**	**APPLR-67SA**	(3) # 2	**APPT67**	**APPT-67SA**
2-1/2	—	**APPLR77**	**APPLR-77SA**	(3) 1/0	**APPT77**	**APPT-77SA**
3	(3) 250	**APPLR87**	**APPLR-87SA**	(3) 1/0	**APPT87**	**APPT-87SA**
3-1/2	(3) 350	**APPLR97**	**APPLR-97SA**	(3) 3/0	**APPT97**	**APPT-97SA**
4	(3) 350	**APPLR107**	**APPLR-107SA**	(3) 3/0	**APPT107**	**APPT-107SA**

		TB			X	
Hub Size (Inches)	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ③**	**Max. Wire Fill**	**Grayloy–Iron**	**Aluminum ③**
						
1/2	②	**APPTB17**	**APPTB-17SA**	②	**APPX17**	**APPX-17SA**
3/4	(3) # 6	**APPTB27**	**APPTB-27SA**	(3) # 6	**APPX27**	**APPX-27SA**
1	(3) # 4	**APPTB37**	**APPTB-37SA**	(3) # 4	**APPX37**	**APPX-37SA**
1-1/4	(3) # 3	**APPTB47**	**APPTB-47SA**	(3) # 3	**APPX47**	**APPX-47SA**
1-1/2	(3) # 2	**APPTB57**	**APPTB-57SA**	(3) # 2	**APPX57**	**APPX-57SA**
2	(3) # 2	**APPTB67**	**APPTB-67SA**	(3) # 2	**APPX67**	**APPX-67SA**

① Refer to following pages for Wiring Capacity Table.
② All 1/2" Max Wire Fill Calculations per the NEC - Annex C - Table C8.
*③ PVC coating available on select aluminum bodies. Add suffix **-PVC** to catalog number..*

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For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

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Class I, Division 2 per NEC 501.10(B)(4)
Wet Locations, NEMA 3R with cover and gasket

Wedge-Lok™ Clip Covers, Gaskets *(Covers furnished with stainless steel screws)*

Body Size(Inches)	Wedge–Lok Cast Cover		Wedge–Lok Stamped Cover		Solid Neoprene Gasket
	Grayloy–Iron	Aluminum	Steel	Aluminum ①	
					
1/2	**APP170F**	**APP170F-SA**	**APP170**	**APP170-SA**	**APPGASK571**
3/4	**APP270F**	**APP270F-SA**	**APP270**	**APP270-SA**	**APPGASK572**
1	**APP370F**	**APP370F-SA**	**APP370**	**APP370-SA**	**APPGASK573**
1-1/4	**APP470F**	**APP470F-SA**	**APP470**	**APP470-SA**	**APPGASK574**
1-1/2	**APP570F**	**APP570F-SA**	**APP570**	**APP570-SA**	**APPGASK575**
2	**APP670F**	**APP670F-SA**	**APP670**	**APP670-SA**	**APPGASK576**
2-1/2	**APP870F**	**APP870F-SA**	**APP870**	**APP870-SA**	**APPGASK578**
3	**APP870F**	**APP870F-SA**	**APP870**	**APP870-SA**	**APPGASK578**
3-1/2	**APP970F**	**APP970F-SA**	**APP970**	**APP970-SA**	**APPGASK579**
4	**APP970F**	**APP970F-SA**	**APP970**	**APP970-SA**	**APPGASK579**

*① PVC coating available on select aluminum covers. Add suffix **-PVC** to catalog number.*

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For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

NEC/CEC — Suitable for use in the following Hazardous Locations:
Class I, Division 2 per NEC 501.10(B)(4)
Wet Locations, NEMA 3R with cover and gasket

Wiring Capacity: Combine Body and Cover Capacities for Total Usable Capacity per NEC 314.16(A)

	Capacity — dm³ (in³)										
Hub Size (Inches)	**C**	**E**	**LB**	**LL LR**	**L**	**T**	**TA**	**TB**	**X**	**Stamped Cover**	**Cast Cover**
FM7™ Grayloy™-Iron Bodies and Covers: Threaded											
1/2	0.07 (4.00)	0.07 (4.00)	0.07 (4.00)	0.07 (4.00)	0.08 (5.00)	0.10 (6.00)	0.10 (6.00)	0.10 (6.00)	0.10 (6.00)	0.00 (0.30)	0.01 (0.40)
3/4	0.11 (7.00)	0.11 (7.00)	0.11 (7.00)	0.11 (7.00)	0.15 (9.00)	0.16 (10.00)	0.16 (10.00)	0.16 (10.00)	0.16 (10.00)	0.01 (0.50)	0.01 (0.80)
1	0.18 (11.00)	0.18 (11.00)	0.18 (11.00)	0.18 (11.00)	0.22 (13.50)	0.25 (15.50)	0.25 (15.50)	0.25 (15.50)	0.25 (15.50)	0.02 (1.30)	0.02 (1.30)
1-1/4	0.33 (20.00)	—	0.33 (20.00)	0.33 (20.00)	0.37 (22.50)	0.33 (20.00)	0.33 (20.00)	0.33 (20.00)	0.33 (20.00)	0.03 (1.80)	0.03 (2.00)
1-1/2	0.46 (28.00)	—	0.46 (28.00)	0.46 (28.00)	0.51 (31.00)	0.46 (28.00)	0.46 (28.00)	0.46 (28.00)	0.46 (28.00)	0.04 (2.30)	0.05 (3.00)
2	0.82 (50.00)	—	0.82 (50.00)	0.82 (50.00)	0.82 (50.00)	0.82 (50.00)	0.82 (50.00)	0.82 (50.00)	0.82 (50.00)	0.05 (2.80)	0.08 (4.80)
2-1/2	1.67 (102.00)	—	1.67 (102.00)	1.67 (102.00)	—	1.67 (102.00)	—	—	—	0.16 (9.80)	0.16 (9.70)
3	2.18 (133.00)	—	2.18 (133.00)	2.18 (133.00)	—	2.18 (133.00)	—	—	—	0.16 (9.80)	0.16 (9.70)
3-1/2	—	—	3.57 (218.00)	3.57 (218.00)	—	3.57 (218.00)	—	—	—	0.27 (16.50)	0.26 (16.00)
4	—	—	4.00 (244.00)	4.00 (244.00)	—	4.00 (244.00)	—	—	—	0.27 (16.50)	0.26 (16.00)
FM7™ Aluminum Bodies and Covers: Threaded											
1/2	0.07 (4.00)	0.07 (4.00)	0.07 (4.00)	0.07 (4.00)	—	0.10 (6.00)	—	0.10 (6.00)	0.10 (6.00)	0.005 (0.30)	0.007 (0.40)
3/4	0.11 (7.00)	0.11 (7.00)	0.11 (7.00)	0.11 (7.00)	—	0.16 (10.00)	—	0.16 (10.00)	0.16 (10.00)	0.008 (0.50)	0.01 (0.80)
1	0.18 (11.00)	0.18 (11.00)	0.18 (11.00)	0.18 (11.00)	—	0.25 (15.50)	—	0.25 (15.50)	0.25 (15.50)	0.02 (1.30)	0.02 (1.30)
1-1/4	0.33 (20.00)	—	0.33 (20.00)	0.33 (20.00)	—	0.33 (20.00)	—	0.33 (20.00)	0.33 (20.00)	0.03 (1.80)	0.03 (2.00)
1-1/2	0.46 (28.00)	—	0.46 (28.00)	0.46 (28.00)	—	0.46 (28.00)	—	0.46 (28.00)	0.46 (28.00)	0.04 (2.30)	0.05 (3.00)
2	0.82 (50.00)	—	0.82 (50.00)	0.82 (50.00)	—	0.82 (50.00)	—	0.82 (50.00)	0.82 (50.00)	0.05 (2.80)	0.08 (4.80)
2-1/2	1.67 (102.00)	—	1.67 (102.00)	1.67 (102.00)	—	1.67 (102.00)	—	—	—	0.16 (9.80)	0.16 (9.70)
3	2.18 (133.00)	—	2.18 (133.00)	2.18 (133.00)	—	2.18 (133.00)	—	—	—	0.16 (9.80)	0.16 (9.70)
3-1/2	—	—	3.57 (218.00)	3.57 (218.00)	—	3.57 (218.00)	—	—	—	0.27 (16.50)	0.26 (16.00)
4	—	—	4.00 (244.00)	4.00 (244.00)	—	4.00 (244.00)	—	—	—	0.27 (16.50)	0.26 (16.00)

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FM7™ Conduit Outlet Bodies, Covers and Gaskets

FM7™ Covers with Integral Form-In-Place Gasket.

NEC/CEC:
Class I, Division 2
Wet Locations, NEMA 3R





Applications

- Cover with integral gasket for FM7™ conduit bodies.
- Can be used as replacement covers for installed bodies or in new installations.

Features

- Benefit from superior sealing, reduced inventory parts and faster installation times.
- Captive pan-head screws.
- Wedge-Lok™ clips (FM7™ only) provide superior screwdriver torque and cover seating.
- High-strength, corrosion and weather resistant.
- Approved for wet locations.
- Fits all body configurations and sizes from 1/2" thru 4".
- Operating temperature: -54 °C to +150 °C (-65 °F to +302 °F).

Standard Materials

- Stamped steel
- Stamped aluminum
- Cast grayloy-iron
- Cast aluminum
- Gasket - Urethane

NEC/CEC Certifications and Compliances

- UL Listed: E2527
- CSA Certified: 65183, Class 4413-02

Hub Size (Inches)	Stamped Steel	Stamped Aluminum	Cast Grayloy–Iron	Cast Aluminum
				
1/2	**APP170IG**	**APP170IGSA**	**APP170FIG**	**APP170FIGSA**
3/4	**APP270IG**	**APP270IGSA**	**APP270FIG**	**APP270FIGSA**
1	**APP370IG**	**APP370IGSA**	**APP370FIG**	**APP370FIGSA**
1-1/4	**APP470IG**	**APP470IGSA**	**APP470FIG**	**APP470FIGSA**
1-1/2	**APP570IG**	**APP570IGSA**	**APP570FIG**	**APP570FIGSA**
2	**APP670IG**	**APP670IGSA**	**APP670FIG**	**APP670FIGSA**
2-1/2 and 3	**APP870IG**	**APP870IGSA**	**APP870FIG**	**APP870FIGSA**
3-1/2 and 4	**APP970IG**	**APP970IGSA**	**APP970FIG**	**APP970FIGSA**

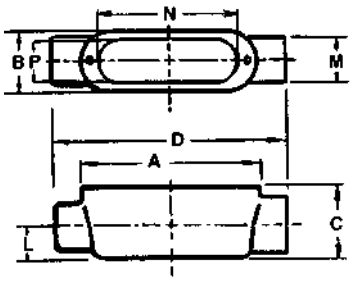
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FM7™ Conduit Outlet Bodies, Covers and Gaskets

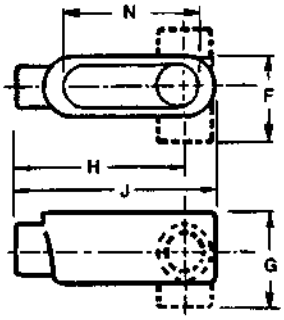
For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

NEC/CEC:
Class I, Division 2
Wet Locations, NEMA 3R

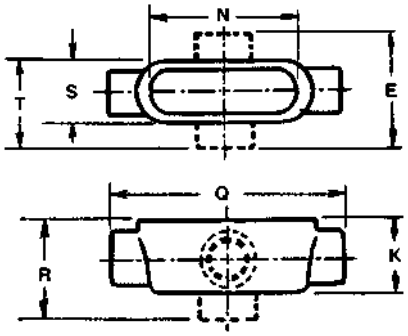
Dimensions in Millimeters (Inches)



Type C



Type E, L, LB, LL, LR



Type T, TA, TB, X

Hub Size (Inches)	Dimensions in Millimeters (Inches)																	
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
1/2	92.2 (3.63)	35.1 (1.38)	35.1 (1.38)	136.7 (5.38)	84.1 (3.31)	57.2 (2.25)	57.2 (2.25)	100.1 (3.94)	115.8 (4.56)	44.5 (1.75)	16.0 (0.63)	31.8 (1.25)	81.0 (3.19)	23.9 (0.94)	143.0 (5.63)	66.8 (2.63)	39.6 (1.56)	62.0 (2.44)
3/4	108.0 (4.25)	39.6 (1.56)	41.4 (1.63)	152.4 (6.00)	88.9 (3.50)	62.0 (2.44)	63.5 (2.50)	112.8 (4.44)	131.8 (5.19)	50.8 (2.00)	19.1 (0.75)	38.1 (1.50)	96.8 (3.81)	28.7 (1.13)	158.8 (6.25)	73.2 (2.88)	47.8 (1.88)	66.8 (2.63)
1	127.0 (5.00)	44.5 (1.75)	47.8 (1.88)	177.8 (7.00)	98.6 (3.88)	69.9 (2.75)	73.2 (2.88)	131.8 (5.19)	152.4 (6.00)	57.2 (2.25)	22.4 (0.88)	44.5 (1.75)	114.3 (4.50)	35.1 (1.38)	184.2 (7.25)	82.6 (3.25)	50.8 (2.00)	76.2 (3.00)
1-1/4	139.7 (5.50)	55.6 (2.19)	58.7 (2.31)	189.0 (7.44)	104.9 (4.13)	81.0 (3.19)	84.1 (3.31)	138.2 (5.44)	165.1 (6.50)	58.7 (2.31)	28.7 (1.13)	55.6 (2.19)	127.0 (5.00)	44.5 (1.75)	189.0 (7.44)	84.1 (3.31)	55.6 (2.19)	81.0 (3.19)
1-1/2	152.4 (6.00)	62.0 (2.44)	65.0 (2.56)	208.0 (8.19)	117.6 (4.63)	88.9 (3.50)	93.7 (3.69)	150.9 (5.94)	181.1 (7.13)	65.0 (2.56)	31.8 (1.25)	62.0 (2.44)	138.2 (5.44)	49.3 (1.94)	208.0 (8.19)	92.2 (3.63)	62.0 (2.44)	90.4 (3.56)
2	177.8 (7.00)	76.2 (3.00)	79.5 (3.13)	233.4 (9.19)	131.8 (5.19)	103.1 (4.06)	108.0 (4.25)	168.4 (6.63)	206.5 (8.13)	79.5 (3.13)	38.1 (1.50)	76.2 (3.00)	162.1 (6.38)	62.0 (2.44)	233.4 (9.19)	106.4 (4.19)	76.2 (3.00)	104.9 (4.13)
2-1/2	228.6 (9.00)	108.0 (4.25)	92.2 (3.63)	304.8 (12.00)	—	146.1 (5.75)	130.3 (5.13)	222.3 (8.75)	266.7 (10.50)	92.2 (3.63)	44.5 (1.75)	88.9 (3.50)	212.9 (8.38)	90.4 (3.56)	304.8 (12.00)	—	108.0 (4.25)	146.1 (5.75)
3	228.6 (9.00)	108.0 (4.25)	111.3 (4.38)	304.8 (12.00)	—	146.1 (5.75)	149.4 (5.88)	212.9 (8.38)	266.7 (10.50)	111.3 (4.38)	54.1 (2.13)	108.0 (4.25)	212.9 (8.38)	90.4 (3.56)	306.3 (12.06)	—	108.0 (4.25)	146.1 (5.75)
3-1/2	279.4 (11.00)	133.4 (5.25)	124.0 (4.88)	—	—	176.3 (6.94)	166.6 (6.56)	260.4 (10.25)	322.3 (12.69)	124.0 (4.88)	60.5 (2.38)	120.7 (4.75)	260.4 (10.25)	114.3 (4.50)	363.5 (14.31)	—	133.4 (5.25)	176.3 (6.94)
4	279.4 (11.00)	133.4 (5.25)	136.7 (5.38)	—	—	176.3 (6.94)	179.3 (7.06)	254.0 (10.00)	322.3 (12.69)	136.7 (5.38)	66.8 (2.63)	133.4 (5.25)	260.4 (10.25)	114.3 (4.50)	363.5 (14.31)	—	133.4 (5.25)	176.3 (6.94)

Fraction/Decimal Equivalents (Inches)

Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
1/16	0.06	5/16	0.31	9/16	0.56	13/16	0.81
1/8	0.13	3/8	0.38	5/8	0.63	7/8	0.88
3/16	0.19	7/16	0.44	11/16	0.69	15/16	0.94
1/4	0.25	1/2	0.50	3/4	0.75	1	1.00

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