

GR and GRF Conduit Outlet Boxes

Explosionproof, Dust-Ignitionproof

UNILETS™ for use with Threaded Metal Conduit. Furnished with Internal Ground Screw and O-ring.

NEC/CEC:

Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3, 4, 4X ①

Class 1, Zone 1 and 2, IIA, IIB

Applications

- Complies with a wide range of classified area requirements.
- Corrosion-resistant: ideal indoors or out.
- To provide access to conductors for pulling, splicing, maintenance and future changes and upgrades.
- Allows connection of straight conduit runs, branch conduit runs and 90° bends.

Features

- GR boxes offers ten hub arrangements.
- GRF boxes have integral mounting flange.
- Malleable iron bodies have high tensile strength, ductility and provides great resistance to corrosion, impact, and shock.
- Accurately tapped, tapered hub threads for tight, rigid joints and ground continuity.
- Furnished with covers.
- General purpose wiring.
- Function as sealing fittings when used with sealing covers (see NEC for restrictions).
- Internally threaded body with externally threaded cover.
- Covers have pry notches for bar or wrench.
- Accommodate sealing, dome, hub and union hub covers, and canopies.
- Standard O-rings provide raintight fit. NEMA 3, 4.
- Internal ground screw standard.
- Smooth, rounded integral bushing in each hub type box protects conductor insulation.

Standard Materials

- Body: malleable iron or copperfree (4/10 of 1% max.) aluminum
- Cover: copperfree (4/10 of 1% max.) aluminum

Standard Finishes

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

Options

- To order body without cover, add suffix **-LC** to catalog number.
- For malleable iron body and cover, add suffix **-M**.

NEC/CEC Certifications and Compliances

- UL Listed: E85310, E10444
- CSA Standard: C22.2 No. 25, C22.2 No. 30
- CSA Certified: 025875



♦ In Class I, Division 1, Group B atmospheres, all conduit runs must have a sealing fitting (not supplied) field-installed within 2" to the enclosure.

① Aluminum body and cover only.

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Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3, 4, 4X ①

Class 1, Zone 1 and 2, IIA, IIB

Hub Type	Conduit Size (Inches)	Cover Opening mm (in)	Volume Capacity dm³ (in³)	Form Number ④	Catalog Number ②	
					Malleable Iron ③ Body With Aluminum Cover	Aluminum Body with Aluminum Cover
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRE50	GRE50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRE75	GRE75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRE100	GRE100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRE125	GRE125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRE150	GRE150-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRC50	GRC50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRC75	GRC75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRC100	GRC100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRC125	GRC125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRC150	GRC150-A
	2	124.0 (4.88)	1.25 (76.0)	3	GRC200	GRC200-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRL50	GRL50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRL75	GRL75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRL100	GRL100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRL125	GRL125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRL150	GRL150-A
	2	124.0 (4.88)	1.25 (76.0)	3	GRL200	GRL200-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRLB50	GRLB50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRLB75	GRLB75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRLB100	GRLB100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRLB125	GRLB125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRLB150	GRLB150-A
	2	124.0 (4.88)	1.25 (76.0)	3	GRLB200	GRLB200-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRN50	GRN50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRN75	GRN75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRN100	GRN100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRN125	GRN125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRN150	GRN150-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRT50	GRT50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRT75	GRT75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRT100	GRT100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRT125	GRT125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRT150	GRT150-A
	2	124.0 (4.88)	1.25 (76.0)	3	GRT200	GRT200-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRX50	GRX50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRX75	GRX75-A
	1	85.9 (3.38)	0.29 (18.0)	1	GRX100	GRX100-A
	1-1/4	100.1 (3.94)	0.51 (31.0)	2	GRX125	GRX125-A
	1-1/2	124.0 (4.88)	1.18 (72.0)	3	GRX150	GRX150-A
	2	124.0 (4.88)	1.25 (76.0)	3	GRX200	GRX200-A

♦ In Class I, Division 1, Group B atmospheres, all conduit runs must have a sealing fitting (not supplied) field-installed within 2" to the enclosure.

① Aluminum body and cover only.

② Other covers available—see GR and GRF Conduit Outlet Box Covers page. Order separately.

③ For malleable iron body and cover, add suffix **-M**.

④ Form number designates body and matching cover sizes. To order body without cover, add suffix **-LC** to catalog number.

GR Conduit Outlet Boxes

Explosionproof, Dust-Ignitionproof

UNILETS™ for use with Threaded Metal Conduit. Furnished with Internal Ground Screw and O-ring.

NEC/CEC:

Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G




Class III

NEMA 3, 4, 4X ①

Class 1, Zone 1 and 2, IIA, IIB

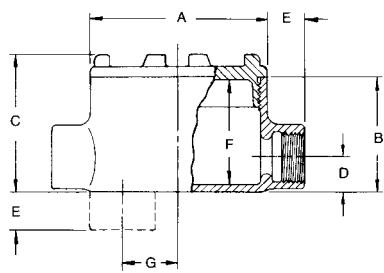
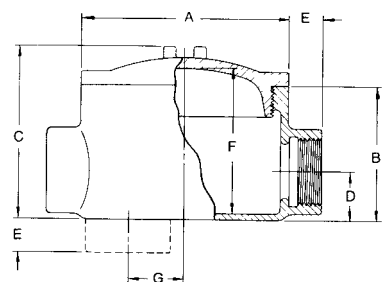
APPLETON™

ENCLOSURES AND JUNCTION BOXES: NEC/CEC EXPLOSIONPROOF OUTLET BOXES

Hub Type	Conduit Size (Inches)	Cover Opening mm (in)	Volume Capacity dm³ (in³)	Form Number ④	Catalog Number ②	
					Malleable Iron ③ Body With Aluminum Cover	Aluminum Body with Aluminum Cover
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRCA50	GRCA50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRCA75	GRCA75-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRLA50	GRLA50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRLA75	GRLA75-A
	1/2	85.9 (3.38)	0.29 (18.0)	1	GRTA50	GRTA50-A
	3/4	85.9 (3.38)	0.29 (18.0)	1	GRTA75	GRTA75-A

Dimensions in Millimeters (Inches)

Hub Size (Inches)	Dimensions in Millimeters (Inches)						
	A	B	C	D	E	F	G
GR Series, Form 1							
1/2	95.3 (3.75)	62 (2.44)	73.2 (2.88)	19.1 (0.75)	20.6 (0.81)	57.2 (2.25)	31.8 (1.25)
3/4	95.3 (3.75)	62 (2.44)	73.2 (2.88)	19.1 (0.75)	20.6 (0.81)	57.2 (2.25)	31.8 (1.25)
1	95.3 (3.75)	62 (2.44)	73.2 (2.88)	19.1 (0.75)	20.6 (0.81)	57.2 (2.25)	31.8 (1.25)
GR Series, Forms 2 and 3							
1-1/4	114.3 (4.50)	68.3 (2.69)	90.4 (3.56)	30.2 (1.19)	22.4 (0.88)	69.9 (2.75)	28.7 (1.13)
1-1/2	146.1 (5.75)	95.3 (3.75)	122.2 (4.81)	35.1 (1.38)	23.9 (0.94)	103.1 (4.06)	38.1 (1.50)
2	146.1 (5.75)	101.6 (4.00)	128.5 (5.06)	41.4 (1.63)	25.4 (1.00)	108.0 (4.25)	31.8 (1.25)

1-1/4" = Form 2
1-1/2" and 2" = Form 3

♦ In Class I, Division 1, Group B atmospheres, all conduit runs must have a sealing fitting (not supplied) field-installed within 2" to the enclosure.
 ① Aluminum body and cover only.
 ② Other covers available—see GR and GRF Conduit Outlet Box Covers page. Order separately.
 ③ For malleable iron body and cover, add suffix **-M**.
 ④ Form number designates body and matching cover sizes. To order body without cover, add suffix **-LC** to catalog number.

GRF Flanged Conduit Outlet Boxes

Explosionproof, Dust-Ignitionproof

UNILETS™ for use with Threaded Metal Conduit. Furnished with Internal Ground Screw and O-ring.

NEC/CEC:





Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

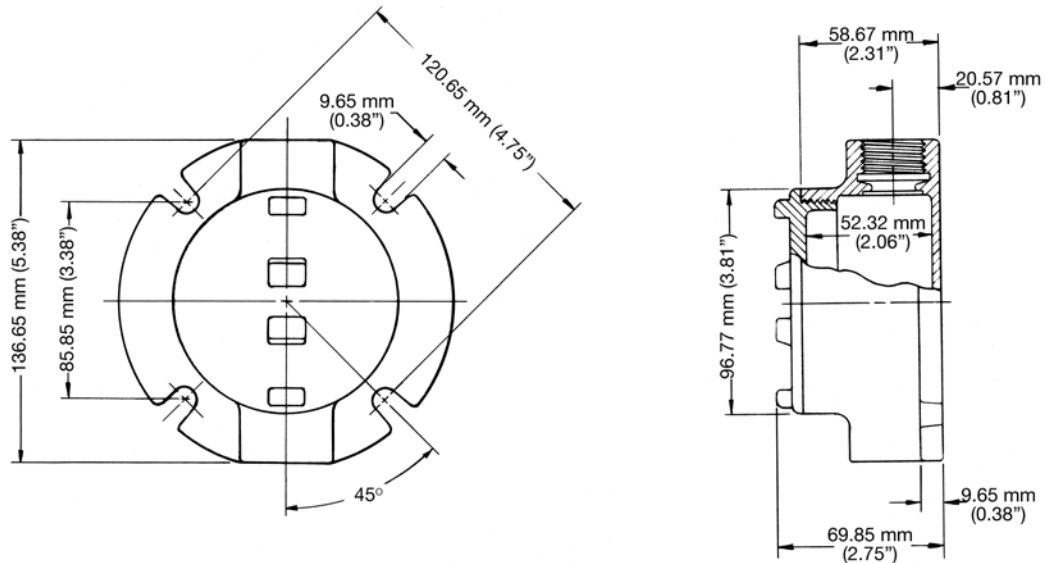
Class III

NEMA 3, 4, 4X ①

Class 1, Zone 1 and 2, IIA, IIB

	Hub Type	Conduit Size (Inches)	Cover Opening mm (in)	Capacity dm ³ (in ³)	Form Number ④	Catalog Number ②	
						Malleable Iron ③ Body With Aluminum Cover	Aluminum Body with Aluminum Cover
	GRFC	1/2	85.9 (3.38)	0.29 (18.0)	1	GRFC50	GRFC50-A
		3/4	85.9 (3.38)	0.29 (18.0)	1	GRFC75	GRFC75-A
		1	85.9 (3.38)	0.29 (18.0)	1	GRFC100	GRFC100-A
	GRFL	1/2	85.9 (3.38)	0.29 (18.0)	1	GRFL50	GRFL50-A
		3/4	85.9 (3.38)	0.29 (18.0)	1	GRFL75	GRFL75-A
		1	85.9 (3.38)	0.29 (18.0)	1	GRFL100	GRFL100-A
	GRFT	1/2	85.9 (3.38)	0.29 (18.0)	1	GRFT50	GRFT50-A
		3/4	85.9 (3.38)	0.29 (18.0)	1	GRFT75	GRFT75-A
		1	85.9 (3.38)	0.29 (18.0)	1	GRFT100	GRFT100-A
	GRFX	1/2	85.9 (3.38)	0.29 (18.0)	1	GRFX50	GRFX50-A
		3/4	85.9 (3.38)	0.29 (18.0)	1	GRFX75	GRFX75-A
		1	85.9 (3.38)	0.29 (18.0)	1	GRFX100	GRFX100-A

Dimensions in Millimeters (Inches)



♦ In Class I, Division 1, Group B atmospheres, all conduit runs must have a sealing fitting (not supplied) field-installed within 2" to the enclosure.

① Aluminum body and cover only.

② Other covers available—see GR and GRF Conduit Outlet Box Covers page. Order separately.

③ For malleable iron body and cover, add suffix **-M**.

④ Form number designates body and matching cover sizes. To order body without cover, add suffix **-LC** to catalog number.

Visit our website at www.appleton.emerson.com or contact us at (800) 621-1506 or +33.3.22.54.27.54.

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GR and GRF Conduit Outlet Box Covers

Explosionproof, Dust-Ignitionproof

Covers and O-rings Fit Bodies with Corresponding Form Numbers.

NEC/CEC:







Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

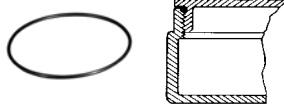
NEMA 3, 4, 4X ①

Class 1, Zone 1 and 2, IIA, IIB

Hub Type	Cover Opening mm (in)	Fixture Stem Size mm (in)	Form Number ②	Catalog Number	
				Malleable Iron	Aluminum
 Surface	85.9 (3.38)	—	1	GRK-1M	GRK-1
	100.1 (3.94)	—	2	GRK-2M	GRK-2
	124.0 (4.88)	—	3	GRK-3M	GRK-3
 Sealing Class I, Groups C & D	85.9 (3.38)	—	1	GRK-1SC	GRK-1SC-A
	100.1 (3.94)	—	2	GRK-2SC	GRK-2SC-A
	124.0 (4.88)	—	3	GRK-3SC	GRK-3SC-A
 2" Deep Dome UL Listed: E185964 6 Cubic Inches	85.9 (3.38)	—	1	—	GRK-1DC
 Union Hub	85.9 (3.38)	19.1 (0.75)	1	GRK-75U	GRK-75UA
 Hub	85.9 (3.38)	12.7 (0.50)	1	GRK-50	GRK-50A
	85.9 (3.38)	19.1 (0.75)	1	GRK-75	GRK-75A
 Canopy Length 4-1/2" Class I, Group D 16 Cubic Inches	85.9 (3.38)	12.7 (0.50)	1	GRK-50C	—
	85.9 (3.38)	19.1 (0.75)	1	GRK-75C	—
	85.9 (3.38)	25.4 (1.00)	1	GRK-100C	—

Catalog Number

O-rings — Buna-N



Provide Raintight fit when used on following series:
 GR (Forms 1, 2 and 3), GRF (Form 1), GRH, and GRU
 (Form 1).

1	GRG-1
2	GRG-2
3	GRG-3

GRTB Terminal Strip



For use in standard GR series boxes Weidmuller type MK terminal block ③ with wire range of #22-#12 AWG.
 Mounts on 2 Pre-Drilled and tapped standard holes (furnished in internal GR boxes).

6 position terminal block kit	1+2	GRTB6-12
6 position terminal block kit	3	GRTB6-3
12 position terminal block kit	3	GRTB12-3

♦ In Class I, Division 1, Group B atmospheres, all conduit runs must have a sealing fitting (not supplied) field-installed within 2" to the enclosure.

① Aluminum body and cover only.

② Form numbers designate cover and matching body sizes.

③ Terminal block is UL listed for 300 Volt, 25 Amp. CSA certified for 300 Volt, 13 Amp.