

AGUB and NGUB Instrument and Meter Enclosures

Explosionproof, Dust-Ignitionproof

Furnished with aluminum body and solid or window cover.

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 4, 4X, 7BCD, 9EFG

Application

- To pull or splice wires and/or to mount and enclose electrical devices in hazardous locations.

Features

- Precision threaded flame path between box and cover.
- O-ring gasket provided to seal out moisture, dust, oil, dirt etc. for interior and exterior locations.
- Cast mounting feet provided on all enclosures.
- Large cover opening for easy access.
- Available with solid or window covers.

Standard Materials

- Bodies: copperfree (4/10 of 1% max.) aluminum
- AGUB and NGUB covers: copperfree (4/10 of 1% max.) aluminum
- AGUBSW and NGUBSW covers: copperfree (4/10 of 1% max.) aluminum and glass
- O-ring: neoprene

Standard Finishes

- Corrosion resistant gray powder coat epoxy standard

NEC/CEC Certifications and Compliances

- UL Standard: UL 1203
- cULus Classified: E84577
- CSA Standard: C22.2 No. 25, C22.2 No. 30
- CSA Certified: 020945



AGUB and NGUB Instrument and Meter Enclosures

Explosionproof, Dust-Ignitionproof. Drilling and Tapping

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Determine catalog number as follows: (1) select enclosure catalog number; (2) select "Conduit Opening Arrangement Diagram" number; and (3) select symbols that represent conduit opening sizes from "Symbol Table."

Where no opening is required, the symbol 0 must be inserted. Add suffix for other Optional Features. The various divisions of the complete catalog number should be separated by dashes.

Example

The junction box selected is AGUB443A and the "Conduit Opening Arrangement" is diagram #1. Opening "a" is to be 3/4"; "b", no opening required; "c", 2"; and "d", 1-1/4".

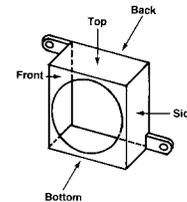
In this example, the complete catalog number is

AGUB443A-1-BOFD

Standard Conduit Opening Arrangement Diagrams

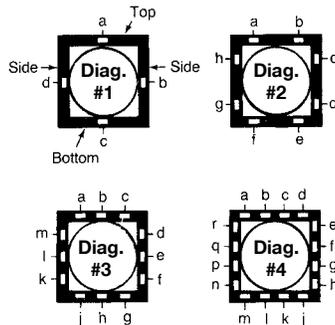
Opening "a" is always TOP of box

If a "Standard Conduit Opening Arrangement" is not suitable for the application, or when openings are to be more accurately spaced, submit sketch, locating openings (1) from centerlines of box and (2) from outside back of box (or from mounting lug surface if lugs are supplied).



Standard Conduit Opening Arrangement Diagrams

Opening "a" is always TOP of box. All conduit openings will be located in centerline of walls and evenly spaced unless otherwise specified.



Symbol Table

Drilling and Tapping (Five Threads Minimum)

Conduit Size Inches	Symbol	Conduit Size Inches	Symbol
0	Blank	-	-
1/2	A	2	F
3/4	B	2-1/2	G
1	C	3	H
1-1/4	D	3-1/2	J
1-1/2	E	4	K

Minimum Recommended Spacing Between Conduit Openings

Allowance made for clearance over bushings. When unions or seals are used, additional space must be allowed.

Table shows minimum distances between conduit-opening centerlines in various size combinations. For example, if 1-1/2" and 3/4" openings are to be drilled and tapped into one side of box, the minimum spacing between centerlines would be 2.13".

Conduit Size Inches	Minimum Space Between Conduit Opening Centerlines in Millimeters (Inches)									
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
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)	47.8 (1.88)							
1-1/4	47.8 (1.88)	50.8 (2.00)	55.6 (2.19)	62.0 (2.44)						
1-1/2	50.8 (2.00)	54.1 (2.13)	58.7 (2.31)	66.8 (2.63)	69.9 (2.75)					
2	60.5 (2.38)	63.5 (2.50)	68.3 (2.69)	74.7 (2.94)	79.5 (3.13)	87.4 (3.44)				
2-1/2	63.5 (2.50)	66.8 (2.63)	71.4 (2.81)	79.5 (3.13)	82.6 (3.25)	92.2 (3.63)	95.3 (3.75)			
3	73.2 (2.88)	76.2 (3.00)	81.0 (3.19)	87.4 (3.44)	92.2 (3.63)	100.1 (3.94)	104.9 (4.13)	112.8 (4.44)		
3-1/2	79.5 (3.13)	82.6 (3.25)	87.4 (3.44)	95.3 (3.75)	98.6 (3.88)	108.0 (4.25)	111.3 (4.38)	120.7 (4.75)	127.0 (5.00)	
4	87.4 (3.44)	90.4 (3.56)	95.3 (3.75)	103.1 (4.06)	106.4 (4.19)	115.8 (4.56)	119.1 (4.69)	128.5 (5.06)	134.9 (5.31)	143.0 (5.63)

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ENCLOSURES AND JUNCTION BOXES: NEC/CEC EXPLOSIONPROOF ENCLOSURES

Box with Cover

Inside Dimensions in Millimeters (Inches)			Maximum Conduit Size (In. – NPT)	Seal Distance in Millimeters (Inches)		Cover Opening in Millimeters (Inches)	Catalog Number	
Width	Height	Depth		Group B [◇]	Group C [◇]		Appleton	O–Z/Gedney
108.0 (4.25)	108.0 (4.25)	82.6 (3.25)	3/4	457.2 (18.00)	None	101.6 (4.00)	AGUB443A	NGUB443A
136.5 (5.38)	136.5 (5.38)	127 (5.00)	3/4	76.2 (3.00)	None	114.3 (4.50)	AGUB555A	NGUB555A
155.6 (6.13)	155.6 (6.13)	108.0 (4.25)	2	457.2 (18.00)	457.2 (18.00)	150.8 (5.94)	AGUB664A	NGUB664A
235.0 (9.25)	190.5 (7.50)	152.4 (6.00)	2	457.2 (18.00)	457.2 (18.00)	177.8 (7.00)	AGUB976A	NGUB976A
231.8 (9.13)	206.4 (8.13)	111.1 (4.38)	2	457.2 (18.00)	457.2 (18.00)	201.6 (7.94)	AGUB984A	NGUB984A
254.0 (10.00)	228.6 (9.00)	100.0 (3.94)	2	457.2 (18.00)	457.2 (18.00)	225.4 (8.88)	AGUB1093A	NGUB1093A
269.9 (10.63)	269.9 (10.63)	133.4 (5.25)	3	457.2 (18.00)	457.2 (18.00)	250.8 (9.88)	AGUB10105A	NGUB10105A
257.2 (10.13)	257.2 (10.13)	152.4 (6.00)	3	76.2 (3.00)	76.2 (3.00)	235.0 (9.25)	AGUB10106A	NGUB10106A
257.2 (10.13)	257.2 (10.13)	203.2 (8.00)	4	76.2 (3.00)	76.2 (3.00)	235.0 (9.25)	AGUB10108A	NGUB10108A
308.0 (12.13)	308.0 (12.13)	203.2 (8.00)	4	76.2 (3.00)	76.2 (3.00)	285.8 (11.25)	AGUB12128A	NGUB12128A
308.0 (12.13)	308.0 (12.13)	304.8 (12.00)	4	76.2 (3.00)	76.2 (3.00)	285.8 (11.25)	AGUB121212A	NGUB121212A



Box with Window Cover

Inside Dimensions in Millimeters (Inches)			Maximum Conduit Size (In. – NPT)	Seal Distance in Millimeters (Inches)		Cover Opening in Millimeters (Inches)	Catalog Number	
Width	Height	Depth		Group B [◇]	Group C [◇]		Appleton	O–Z/Gedney
108.0 (4.25)	108.0 (4.25)	82.6 (3.25)	3/4	457.2 (18.00)	None	101.6 (4.00)	AGUBSW443A	NGUBSW443A
136.5 (5.38)	136.5 (5.38)	127 (5.00)	3/4	76.2 (3.00)	None	114.3 (4.50)	AGUBSW555A	NGUBSW555A
155.6 (6.13)	155.6 (6.13)	108.0 (4.25)	2	457.2 (18.00)	457.2 (18.00)	150.8 (5.94)	AGUBSW664A	NGUBSW664A
235.0 (9.25)	190.5 (7.50)	152.4 (6.00)	2	457.2 (18.00)	457.2 (18.00)	177.8 (7.00)	AGUBSW976A	NGUBSW976A
231.8 (9.13)	206.4 (8.13)	111.1 (4.38)	2	457.2 (18.00)	457.2 (18.00)	201.6 (7.94)	AGUBSW984A	NGUBSW984A
254.0 (10.00)	228.6 (9.00)	100.0 (3.94)	2	457.2 (18.00)	457.2 (18.00)	225.4 (8.88)	AGUBSW1093A	NGUBSW1093A
269.9 (10.63)	269.9 (10.63)	133.4 (5.25)	3	457.2 (18.00)	457.2 (18.00)	250.8 (9.88)	AGUBSW10105A	NGUBSW10105A
257.2 (10.13)	257.2 (10.13)	152.4 (6.00)	3	76.2 (3.00)	76.2 (3.00)	235.0 (9.25)	AGUBSW10106A	NGUBSW10106A
257.2 (10.13)	257.2 (10.13)	203.2 (8.00)	4	76.2 (3.00)	76.2 (3.00)	235.0 (9.25)	AGUBSW10108A	NGUBSW10108A
308.0 (12.13)	308.0 (12.13)	203.2 (8.00)	4	76.2 (3.00)	76.2 (3.00)	285.8 (11.25)	AGUBSW12128A	NGUBSW12128A
308.0 (12.13)	308.0 (12.13)	304.8 (12.00)	4	76.2 (3.00)	76.2 (3.00)	285.8 (11.25)	AGUBSW121212A	NGUBSW121212A



[◇] For Groups B and C, all conduits must be sealed within specified distance of enclosure.

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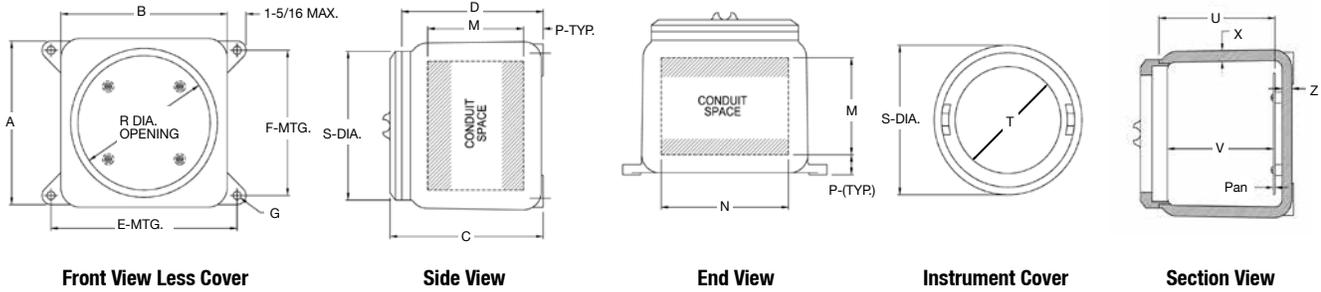
Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

ENCLOSURES AND JUNCTION BOXES: NEC/CEC EXPLOSIONPROOF ENCLOSURES

AGUB and NGUB Solid Cover Series ① Dimensions in Millimeters (Inches)



Dimensions in Millimeters (Inches)																	
Outside Dimensions				Mounting Lugs			Conduit Space			Cover Open	Cover Dia.	Window Dia.	Depth		Wall Thickness		Catalog Number
A	B	C	D	E	F	G	M	N	P	R	S	T	U	V	X	Z	
134.9 (5.31)	134.9 (5.31)	131.8 (5.19)	115.9 (4.56)	158.8 (6.25)	98.4 (3.88)	9.5 (0.38)	71.4 (2.81)	95.3 (3.75)	19.1 (0.75)	101.6 (4.00)	117.5 (4.63)	63.5 (2.50)	101.6 (4.00)	76.2 (3.00)	11.1 (0.44)	11.1 (0.44)	443A
158.8 (6.25)	158.8 (6.25)	176.2 (6.94)	158.8 (6.25)	190.5 (7.50)	127.0 (5.00)	9.5 (0.38)	103.2 (4.06)	108.0 (4.25)	23.8 (0.94)	108.0 (4.25)	133.4 (5.25)	81.0 (3.19)	139.7 (5.50)	117.5 (4.63)	11.1 (0.44)	19.1 (0.75)	555A
177.8 (7.00)	177.8 (7.00)	165.1 (6.50)	144.5 (5.69)	206.4 (8.13)	146.1 (5.75)	9.5 (0.38)	95.3 (3.75)	139.7 (5.50)	22.2 (0.88)	150.8 (5.94)	165.1 (6.50)	101.6 (4.00)	127.0 (5.00)	101.6 (4.00)	11.1 (0.44)	11.1 (0.44)	664A
260.4 (10.25)	215.9 (8.50)	214.3 (8.44)	188.9 (7.44)	247.7 (9.75)	228.6 (9.00)	9.5 (0.38)	125.4 (4.94)	165.1 (6.50)	20.6 (0.81)	177.8 (7.00)	196.9 (7.75)	138.1 (5.44)	161.9 (6.38)	139.7 (5.50)	12.7 (0.50)	11.1 (0.44)	976A
254.0 (10.00)	228.6 (9.00)	168.3 (6.63)	149.2 (5.88)	257.2 (10.13)	215.9 (8.50)	9.5 (0.38)	97.1 (3.81)	190.5 (7.50)	23.8 (0.94)	201.6 (7.94)	219.1 (8.63)	142.9 (5.63)	128.6 (5.06)	103.2 (4.06)	11.1 (0.44)	17.5 (0.69)	984A
293.7 (11.56)	268.2 (10.56)	163.5 (6.44)	144.5 (5.69)	304.8 (12.00)	235.0 (9.25)	9.5 (0.38)	87.3 (3.44)	200.1 (7.88)	23.8 (0.94)	227.0 (8.94)	247.7 (9.75)	142.9 (5.63)	117.5 (4.63)	92.1 (3.63)	17.5 (0.69)	17.5 (0.69)	1093A
304.8 (12.00)	304.8 (12.00)	222.3 (8.75)	190.5 (7.50)	346.1 (13.62)	254.0 (10.00)	15.9 (0.63)	122.2 (4.81)	247.7 (9.75)	31.8 (1.25)	250.9 (9.88)	279.4 (11.00)	190.5 (7.50)	165.1 (6.50)	131.8 (5.19)	17.5 (0.69)	17.5 (0.69)	10105A
295.3 (11.62)	295.3 (11.62)	238.1 (9.38)	200.1 (7.88)	330.2 (13.00)	254.0 (10.00)	15.9 (0.63)	119.1 (4.69)	225.4 (8.88)	35.0 (1.38)	235.0 (9.25)	260.4 (10.25)	187.3 (7.38)	166.7 (6.56)	139.7 (5.50)	19.1 (0.75)	17.5 (0.69)	10106A
295.3 (11.62)	295.3 (11.62)	288.9 (11.38)	250.8 (9.88)	330.2 (13.00)	254.0 (10.00)	15.9 (0.63)	169.9 (6.69)	225.4 (8.88)	35.0 (1.38)	235.0 (9.25)	260.4 (10.25)	187.3 (7.38)	217.4 (8.56)	190.5 (7.50)	19.1 (0.75)	17.5 (0.69)	10118A
346.1 (13.62)	346.1 (13.62)	298.5 (11.75)	250.8 (9.88)	381.0 (15.00)	254.0 (10.00)	15.9 (0.63)	169.9 (6.69)	276.2 (10.88)	35.0 (1.38)	285.8 (11.25)	311.2 (12.25)	239.7 (9.44)	217.4 (8.56)	190.5 (7.50)	19.1 (0.75)	17.5 (0.69)	12128A
346.1 (13.62)	346.1 (13.62)	400.1 (15.75)	352.4 (13.88)	381.0 (15.00)	254.0 (10.00)	15.9 (0.63)	271.5 (10.69)	276.2 (10.88)	35.0 (1.38)	285.8 (11.25)	311.2 (12.25)	239.7 (9.44)	319.1 (12.56)	292.1 (11.50)	19.1 (0.75)	17.5 (0.69)	121212A

① AGUB and NGUB Solid Cover Series do not have a window.