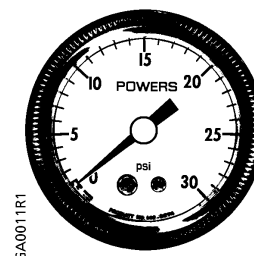


## Powers™ Controls

### GA 142 AP Analog Pressure Gauges



<b>Description</b>	The GA 142 Analog Gauge is a round dial instrument displaying the value of input pressure over an angular displacement of 270°.	
<b>Specifications</b>	Accuracy	2-1/2% of full scale for middle half of the scale, 3-1/2% elsewhere
	Connection	1/8-inch NPT male or barbed connector for 1/4-inch OD tubing. See Table 2
	Shipping weight	
	1-1/2 inches	0.5 lb (0.23 kg)
	2-1/2 inches	1 lb (0.45 kg)
<b>Operation</b>	As the input pressure increases, the curved bourdon tube tends to straighten out. This action moves the gear and linkage, which is attached to the end of the bourdon tube, making the pointer rotate clockwise.	
<b>Calibration and Adjustments</b>	Use a master gauge to check the pressure reading. If the gauge does not indicate this measurement, adjust the gauge pointer.	

**Table 1. Product Numbers.**

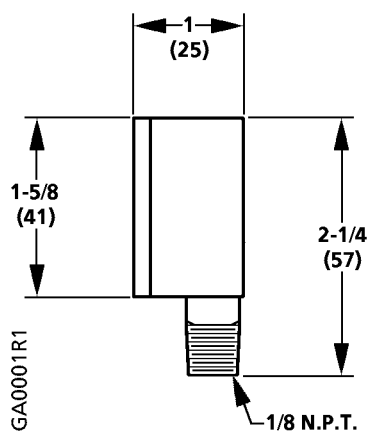
Range	Product Number			
	1-1/2-in		2-1/2-in	
	Panel-mount	Pipe-mount	Panel-mount	Pipe-mount
0 to 30 psi	142-0274 (barb)	142-0373* (back) 142-0426* (bottom)	142-0277 (barb)	142-0311 (back)
0 to 100 psi	—	—	142-0279 (back)	142-0312 (back)
0 to 160 psi	—	—	142-0304 (back)	142-0313 (back)
0 to 200 kPa	—	142-0344 (back) 142-0373* (back) 142-0426* (bottom)	—	—

\* Dual Scale Gauges

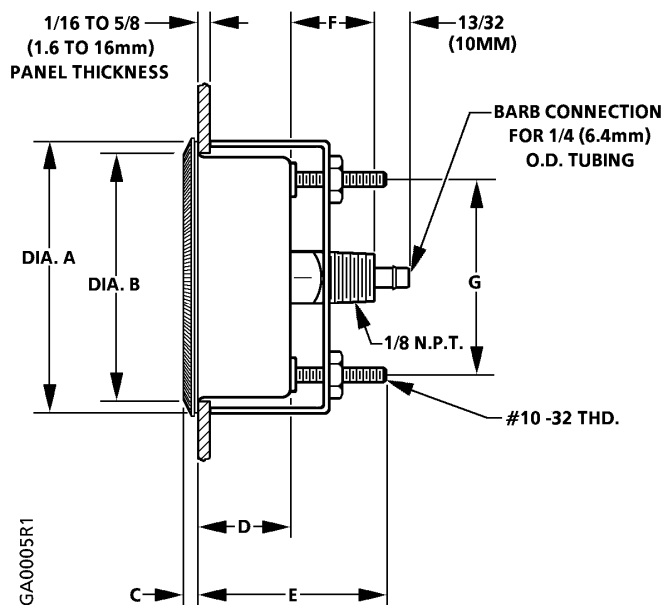
**Table 2. Hole Sizes for Panel-mounted Gauges.**

Gauge Size Inches (mm)	Hole Size Inches (mm)	Cutout used in Standard Panel Template*
1-1/2 (38)	1-11/16 (42)	G-1
2-1/2 (64)	2-21/32 (68)	G-3

\* See 155-223P25 (TB 196) for further information.



**Figure 1. Dimensions for 142-0426.**



**Figure 2. Dimensions for Table 3.**

**Table 3. Dimensions in Inches (mm). See Figure 2.**

Product Number	Nominal Size	Dimensions							Graduations	
		A	B	C	D	E	F	G	Major	Minor
142-0274	1-1/2" (38)	1-13/16 (46)	1-19/32 (40)	—	3/4 (19)	1-1/8 (29)	21/32 (17)	1-1/8 (29)	5	1
142-0277	2-1/2" (64)	2-7/8 (73)	2-5/8 (67)	7/32 (5)	1 (25)	—	7/8 (29)	2 (51)	5	1
142-0279	2-1/2" (64)	2-7/8 (73)	2-5/8 (67)	7/32 (5)	1 (25)	2 (51)	7/8 (29)	2 (51)	10	2
142-0304	2-1/2" (64)	2-7/8 (73)	2-5/8 (67)	7/32 (5)	1 (25)	2 (51)	7/8 (29)	2 (51)	20	5
142-0311	2-1/2" (64)	2-23/32 (69)	2-11/16 (68)	—	1 (25)	—	7/8 (22)	—	5	1
142-0312	2-1/2" (64)	2-23/32 (69)	2-11/16 (68)	—	1 (25)	—	7/8 (22)	—	10	2
142-0313	2-1/2" (64)	2-23/32 (69)	2-11/16 (68)	—	1 (25)	—	7/8 (22)	—	20	5
142-0344	1-1/2" (38)	1-5/8 (41)	1-9/16 (40)	—	7/8 (22)	—	5/8 (16)	—	20	5
142-0373	1-1/2" (38)	1-5/8 (41)	1-9/16 (40)	—	7/8 (22)	—	5/8 (16)	—	5 (20)	1 (5)
142-0426	See Figure 1									

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