

1142 Differential Pressure Gauge

Features

- Glass filled nylon case
- Static pressure capability 1,500 psi
- Ranges from 1 psid to 60 psid
- Superior magnets for smoother pointer motion
- Buna-N diaphragm & O-rings (others available)
- Small convoluted diaphragm actuator

Typical Uses

- Filtration monitoring
- Flow measurement
- Tank level measurement
- Leak detection

Specifications

Accuracy:	±2% ascending pressure full scale differential
Sizes:	2 1/2", 4 1/2", 6"
Ranges:	0-1 thru 0-60 psid
Process Connection Location:	Lower, back, in-line
Process Connection Size:	1/4 NPT Female (STD.) 1/8 NPT or 1/2 NPT Female adapter (OPT.)
Migration:	Zero migration of process media
Maximum Process Temperature:	175 °F (80 °C)
Minimum Ambient Temperature:	Buna-N Diaphragm -4 °F (-20 °C) EPDM Diaphragm -40 °F (-40 °C) Viton® Diaphragm 32 °F (0 °C)
Maximum Static Pressure:	1,500 psi

Weather Protection: IP65

Wetted Components

Actuator	O-Rings/Diaphragm	Body Material
Convoluted Diaphragm	Buna-N	Aluminum, brass or Stainless steel

Ceramic magnet & Stainless steel spring are also wetted components

Non-Wetted Components

Case Material	Window
Thermoplastic, glass filled nylon	Glass (STD.), Safety glass or plastic (OPT.)



1142
2 1/2", 4 1/2", 6" dial sizes

Key Benefits

- For high differential and high static pressure
- For locations where temperature fluctuations can cause condensation
- Low Cost
- Panel or direct mounting
- Easy removable window for cleaning
- 5 year warranty

Ratings For Standard Reed Switches

Switches	Contact Rating	Current	Voltage
SPST	10 VA ac (rms) or dc (Max.)	0.5 Amp ac (rms) or dc (Max.)	100 Vac/Vdc (Max.)
SPDT	3 VA ac (rms) or dc (Max.)	0.3 Amp ac (rms) or dc (Max.)	30 Vac/Vdc (Max.)

Contact Us

1.800.328.8258

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1142 Differential Pressure Gauge

Ordering Code	Example:	25	1142	A	D	25	S	XV1	5#
Size									
25 - 2½"		25							
45 - 4½"									
60 - 6"									
Model									
1142 - Piston Actuated			1142						
Body Material									
A - Brass				A					
F - Aluminum									
S - Stainless steel									
Case Fill									
D - Dry					D				
Process Connection Size									
25 - ¼ NPT Female						25			
Process Connection Location									
S - In-Line							S		
L - Lower									
B - Back									
Options (If choosing an option(s) must include an "X")								X__	
Windows/Pointers									
EO - Outside adjustable set pointer									
EP - Maximum pointer (N/A w/ safety glass)									
PD - Acrylic window									
SG - Safety glass (N/A w/ 2½" case)									
Mounting									
TM - 2" Pipe mounting bracket									
Connections/Porting									
GE - ⅛ NPT adaptors									
GM - ½ NPT adaptors									
O-Ring Alternatives									
EM - EPDM O-ring									
VD - Viton® O-ring									
Switching									
EW - ½ NPT Conduit Adaptor for DIN Plug									
FS - Factory set switch									
V1 - 1-SPST switch w/DIN plug (Adj. 30-100%)								V1	
V2 - 1-SPST switch w/terminal strip (Adj. 30-100% of range, Preset @ 80%)									
V3 - 2-SPST switch w/DIN plug (Adj. 30-100% of range, Preset @ 80%)									
V4 - 2-SPST switch w/terminal strip (Adj. 30-100% of range, Preset @ 80%)									
V5 - 1-SPDT switch w/DIN plug (Adj. 230-100% of range, Preset @ 80%)									
V6 - 1-SPDT switch w/terminal strip (Adj. 30-100% of range, Preset @ 80%)									
V7 - 2-SPDT switch w/DIN plug (Adj. 30-100% of range, Preset @ 80%)									
V8 - 2-SPDT switch w/terminal strip (Adj. 30-100% of range, Preset @ 80%)									
Marking/Tagging									
CS - Dual scale									
DD - Color band (any combination of green, yellow, red)									
NH - Stainless steel tag									
Testing/Certificates									
C4 - Traceable calibration certificate									
Range (coding examples only, see range table on page 3 for all standard ranges.)									
5# - 5 psi									5#

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1142- Single Scale					
psid	in. H ₂ O	kg/cm ²	bar	mBar	kPa
1#	25IW	0.075KG	0.075BR	75MB	-
-	100IW	0.25KG	0.25BR	250MB	25KP
5#	-	-	-	-	-
8#	200IW	0.5KG	0.5BR	-	50KP
-	-	0.75KG	0.75BR	-	75KP
15#	400IW	1KG	1BR	-	100KP
20#	500IW	-	-	-	-
25#	-	1.6KG	1.6BR	-	160KP
30#	-	2KG	2BR	-	200KP
-	-	2.5KG	2.5BR	-	250KP
40#	-	3KG	3BR	-	300KP
50#	-	-	-	-	-
60#	-	4KG	4BR	-	400KP

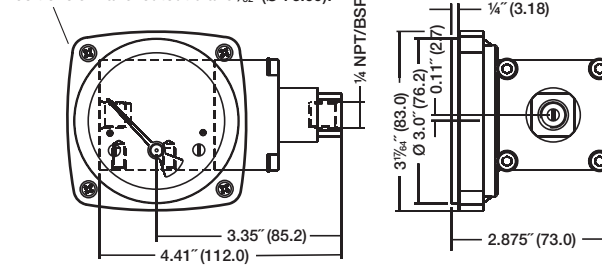
other ranges available upon request

Dimensions

For reference only, consult Ashcroft for specific dimensional drawings.

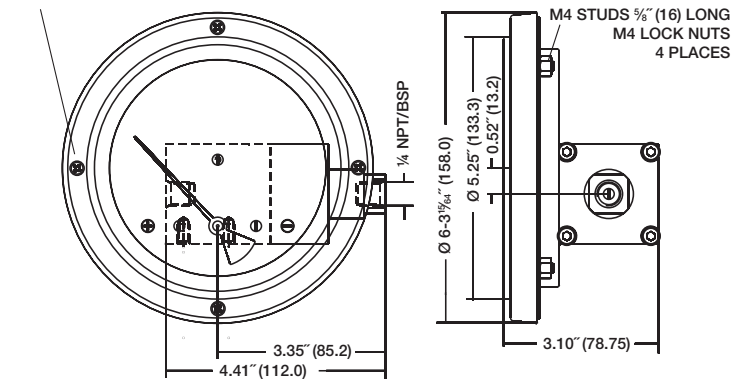
1142 - 2½" (63mm)

4 x Ø 13/64" (5.16) Equally spaced on a 3.5" (Ø 88.9) bolt circle. Panel cutout dia. 3 1/32" (Ø 76.99).



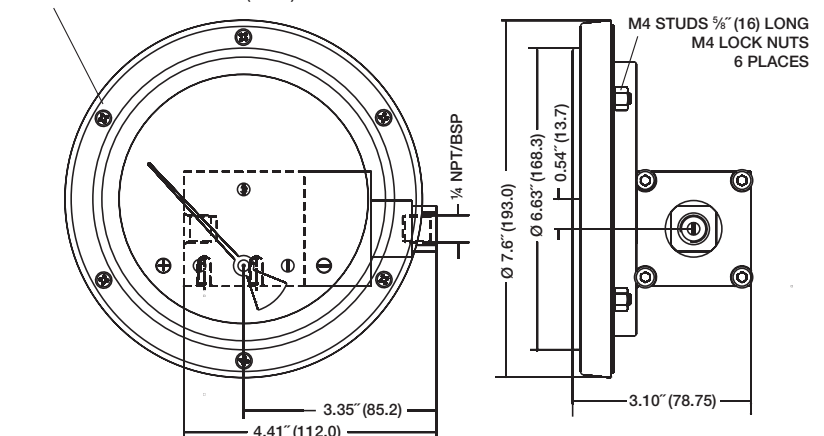
1142 - 4½" (115mm)

4 x Ø 13/64" (5.16) Equally spaced on a 5.62" (Ø 142.85) bolt circle. Panel cutout dia. 5.30" (Ø 134).



1142 - 6" (150mm)

6 x Ø 13/64" (5.16) Equally spaced on a 7.00" (Ø 177.8) bolt circle. Panel cutout dia. 6.22" (Ø 158).



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