

1143 Differential Pressure Gauge

Features

- Glass filled nylon case
- Static pressure capability 500 psi
- Ranges from 1 IWD to 25 IWD
- Reed switches (OPT.) for direct system control
- Superior magnets for smoother pointer motion
- Buna-N diaphragm & O-rings (others available)
- Large convoluted diaphragm actuator

Typical Uses

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

Specifications

Accuracy:	±2% ascending pressure full scale differential
Sizes:	4 ½", 6"
Ranges:	0-1 IWD thru 0-25 IWD
Process Connection Location:	Lower, back, in-line
Process Connection Size:	¼ NPT Female (STD.), ½ NPT or ½ NPT Female adapters (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:	500 psi
Over-Pressure:	Single sided (low side only) over pressure 10 times the range of the gauge
Weather Protection:	IP65

Wetted Components

Actuator	O-Rings/Diaphragm	Body Material
Convoluted Diaphragm	Buna-N	Aluminum, 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.)



1143
4½", 6" dial sizes

Key Benefits

- 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

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 ashcroft.com

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1143 Differential Pressure Gauge

Ordering Code	Example:	60	1143	S	D	25	S	XV1	5IW
Size									
45 - 4½"									
60 - 6"		60							
Model			1143						
1143 - Large convoluted diaphragm									
Body Material									
F - Aluminum									
S - Stainless steel				S					
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									
PD - Acrylic window									
SG - Safety glass									
Mounting									
TM - 2" Pipe mounting bracket									
Connections/Porting									
GE - ⅜ NPT adaptors									
GM - ½ NPT adaptors									
Diaphragm / 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% of range, Preset @ 80%)								V1	
V3 - 2-SPST switch w/DIN plug (Adj. 30-100% of range, Preset @ 80%)									
V5 - 1-SPDT switch w/DIN plug (Adj. 30-100% of range, Preset @ 80%)									
V7 - 2-SPDT switch w/DIN plug (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.)									
5IW - 5 in. H ₂ O									5IW

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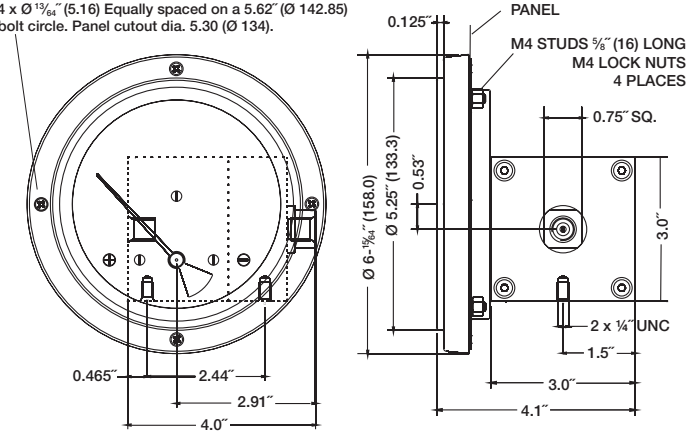
1143 - Single Scale	
in. H ₂ O	mmH ₂ O
1IW	25MW
2IW	50MW
5IW	125MW
10IW	250MW
25IW	600MW

Dimensions

For reference only, consult Ashcroft for specific dimensional drawings.

1143 - 4½" (115mm) Dial Size

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).



1143 - 6" (150mm) Dial Size

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).

