

1143 Differential Pressure Gauge

FEATURES

- Glass filled nylon case
- High static pressure capability of 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
- Liquid level indication
- Leak detection



1143
4½", 6" dial sizes

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.),
⅜ 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.) |

KEY BENEFITS

- Panel or direct mount
- Easily removed 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.) |

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| 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__ | |
| BF - Surface mounting plate | | | | | | | | | |
| CS - Dual scale | | | | | | | | | |
| DD - Color band (any combination of green, yellow, red) | | | | | | | | | |
| GE - ⅛ NPT Female adapters | | | | | | | | | |
| GM - ½ NPT Female adapters | | | | | | | | | |
| EP - Maximum pointer | | | | | | | | | |
| VD - Viton® O-rings & diaphragms | | | | | | | | | |
| EM - EPDM O-rings & diaphragms | | | | | | | | | |
| PD - Plastic window | | | | | | | | | |
| SG - Safety glass | | | | | | | | | |
| TM - Pipe mounting bracket | | | | | | | | | |
| V1 - 1-SPST switch w/DIN plug | (Adj. 20-80% of range, Preset @ 80%) | | | | | | | V1 | |
| V3 - 2-SPST switch w/DIN plug | (Adj. 20-80% of range, Preset @ 80%) | | | | | | | | |
| V5 - 1-SPDT switch w/DIN plug | (Adj. 20-80% of range, Preset @ 80%) | | | | | | | | |
| V7 - 2-SPDT switch w/DIN plug | (Adj. 20-80% of range, Preset @ 80%) | | | | | | | | |
| Range (coding examples only, see range table on page 3 for all standard ranges.) | | | | | | | | | |
| 5IW - 5 IWD | | | | | | | | | 5IW |

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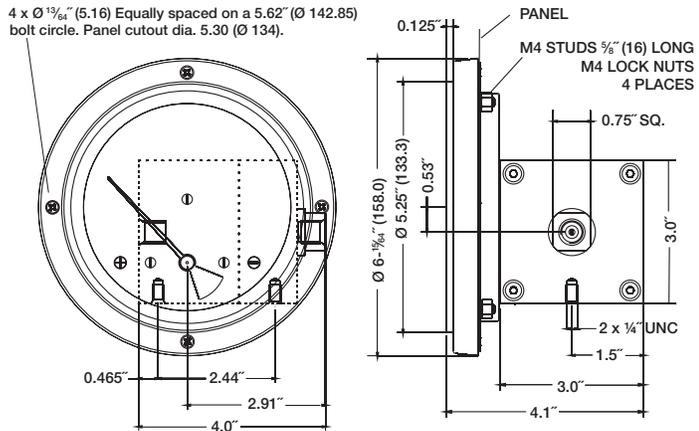
| 1143 - Single Scale | |
|----------------------|--------------------|
| in. H ₂ O | mmH ₂ O |
| 1IW | 25MW |
| 2IW | 50MW |
| 5IW | 125MW |
| 10IW | 250MW |
| 25IW | 600MW |

DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings.

1143 - 4½" (115mm) Dial Size

4 x Ø 1/8" (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 1/8" (5.16) Equally spaced on a 7.00" (Ø 177.8) bolt circle. Panel cutout dia. 6.22 (Ø 158).

