

1131 Differential Pressure Gauge

Features

- High static pressure capability (up to 3,000 psi)
- Ranges from 5 psi to 100 psi
- Reed switches (optional) for direct system control
- Superior magnets for smoother pointer motion
- Buna-N Diaphragm & O-rings (others available)
- Rolling diaphragm actuator (cannot see reverse pressure)

Typical Uses

- Filtration monitoring
- Flow measurement
- Leak detection and pressure drop



1131
2½", 3½", 4", 4½", 6" dial sizes

Specifications

Accuracy:	±2% ascending pressure full scale differential
Sizes:	2½", 3½", 4", 4½", 6"
Ranges:	0-100 psi
Process Connection Location:	Lower, back/in-line
Process Connection Sizes:	¼ NPT Female (STD.), ⅜ or ½ NPT Female Adapters (OPT.)
Migration:	Zero
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:	3,000 psi
Weather Protection:	IP65

Wetted Components

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

Ceramic magnet and SS spring are also wetted components

Non-Wetted Components

Case Material	Window
Stainless steel	Glass (STD.), Safety glass or plastic (OPT.)

Key Benefits

- No migration of processing media
- Economical means for measuring differential pressure
- Switch outputs available
- 5 year warranty

Ratings For 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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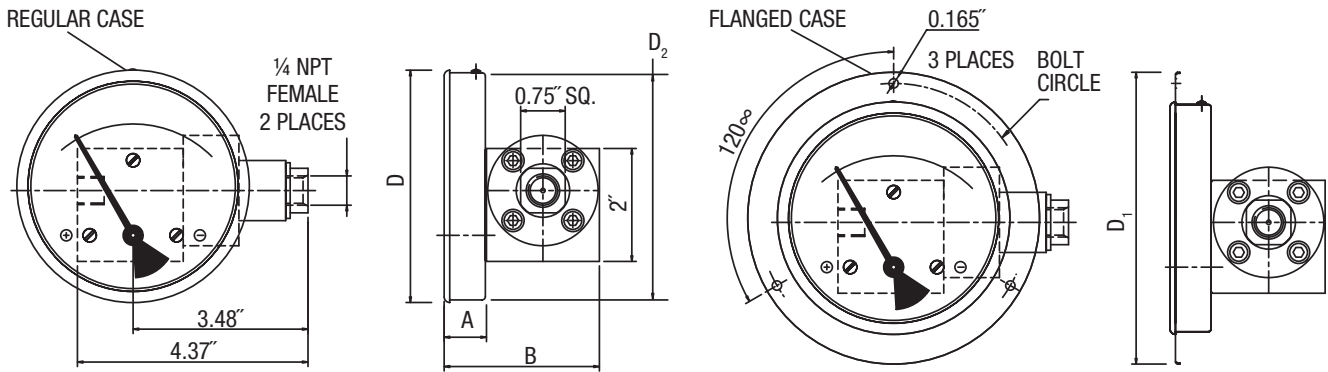
Ordering Code	Example:	20	1131	A	D	25	S	XV1	5#
Size									
20 - 2"		20							
25 - 2½"									
35 - 3½"									
40 - 4"									
45 - 4½"									
60 - 6"									
Series									
1131 - Piston Actuated			1131						
Body Material									
A - Brass				A					
F - Aluminum									
S - Stainless steel									
Case Fill									
D - Dry					D				
L - Glycerin fill (Liquid fill has an effect on accuracy that varies with range and temperature.)									
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__	
Dampening									
GV - Silicone case fill (Add to list price of glycerin filled gauge)									
Windows/Pointers									
EO - Outside adjustable set pointer (N/A with 2" case)									
EP - Maximum pointer (N/A with: liquid filled case, safety glass or 2" case)									
PD - Acrylic window									
SG - Safety glass (N/A with 2" or 2½" case)									
Mounting									
BF - Surface mounting plate									
FF - Front flange									
TM - 2" Pipe mounting bracket (In-Line connection only)									
Connections/Porting									
GE - ⅜ 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 (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)								V1	
V2 - 1-SPST switch w/terminal strip (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V3 - 2-SPST switch w/DIN plug (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V4 - 2-SPST switch w/terminal strip (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V5 - 1-SPDT switch w/DIN plug (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V6 - 1-SPDT switch w/terminal strip (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V7 - 2-SPDT switch w/DIN plug (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
V8 - 2-SPDT switch w/terminal strip (N/A with back connection) (Adj. 20-100% of range, preset @ 90%)									
Marking/Tagging									
CS - Dual scale (first unit appears on top, 2nd below)									
DD - Color band (any combination of green, yellow, red)									
NH - Stainless steel tag									
Testing/Certificates									
C4 - Traceable calibration certificate									
HY - Hydrostatic testing									
Range (coding examples only, see range table on page 3 for all standard ranges.)									
5# - 5 psi									5#

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1131- Single Scale			
psid	kg/cm²	bar	kPa
-	0.25KG	0.25BR	25KP
5#	-	-	-
7#	0.5KG	0.5BR	50KP
10#	0.75KG	0.75BR	75KP
15#	1KG	1BR	100KP
20#	-	-	-
25#	-	-	-
30#	2KG	2BR	200KP
-	2.5KG	2.5BR	250KP
40#	-	-	-
60#	4KG	4BR	400KP
100#	7KG	7BR	700KP

Dimensions

For reference only, consult Ashcroft for specific dimensional drawings.



Dial Size	A	B	D	D ₁	D ₂	Bolt Circle
2.5"	0.75"	2.74"	2.59"	3.66"	2.55"	3.26"
3.5"	0.75"	2.74"	3.26"	4.29"	3.22"	3.86"
4"	0.75"	2.74"	4.10"	5.15"	4.01"	4.76"
4.5"	0.75"	2.74"	4.71"	5.74"	4.60"	5.35"
6"	0.75"	2.74"	6.07"	7.12"	6.00"	6.73"