

1133 Differential Pressure Gauge

Features

- High 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
- Liquid level indication
- Leak detection



1133
3½", 4", 4½", 6" dial sizes

Specifications

Accuracy:	±2% ascending pressure full scale differential
Dial Sizes:	3½", 4", 4½", 6"
Ranges:	0-1 IWD to 25 IWD
Process Connection Location:	Lower, back, in-line
Process Connection Sizes:	¼ NPT Female (STD.), ⅛ 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:	500 psi
Weather Protection:	IP65

Wetted Components

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

Ceramic magnet & 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 the process media
- Switch outputs available
- 5 year warranty

Ratings For Standard Reed Switches

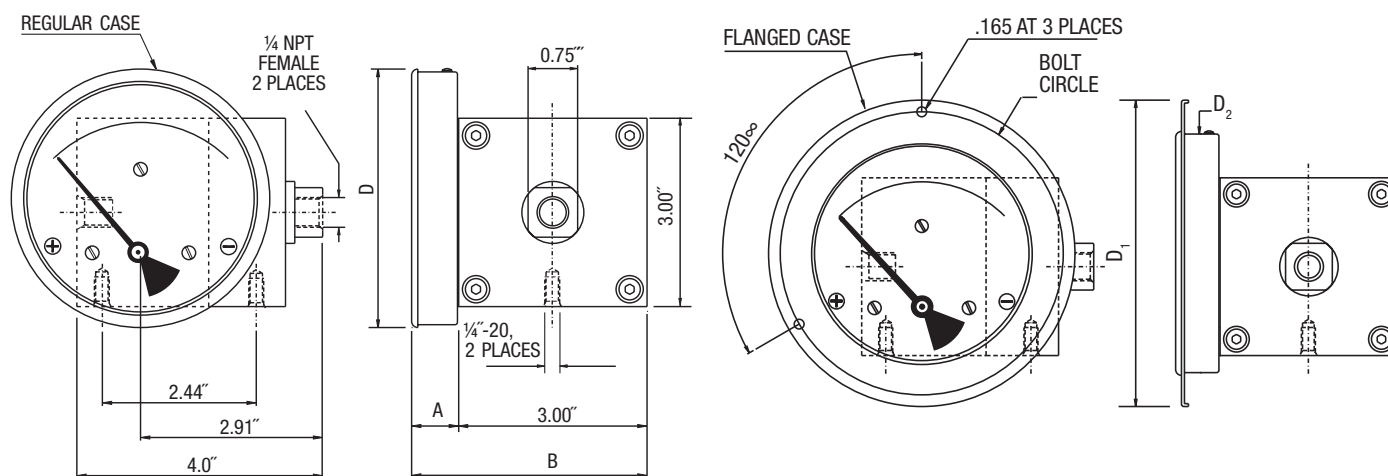
Switches	Contact Rating	Current	Voltage
SPST	10 VA ac (rms) or dc (Max.)	0.5 Amp ac (rms) or dc (Max.)	100 Vac/Vdc (Max.)
SPDT	3 VA ac (rms) or dc (Max.)	0.3 AMP ac (rms) or dc (Max.)	30 Vac/Vdc (Max.)

1133 Differential Pressure Gauge

Ordering Code	Example:	35	1133	S	D	25	S	XV1	5#
Dial Size									
35 - 3½"		35							
40 - 4"									
45 - 4½"									
60 - 6"									
Series									
1133 - Large Convolved Diaphragm			1133						
Body Material									
F - Aluminum									
S - Stainless steel				S					
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									
Mounting									
BF - Surface mounting plate									
FF - Front flange									
TM - 2" Pipe mounting bracket									
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	
V3 - 2-SPST switch w/DIN plug (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%)									
V7 - 2-SPDT switch w/DIN plug (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) More ranges available upon request									
5# - 5 psi									5#

1133 - Single Scale Range	
in. H ₂ O	mmH ₂ O
1IW	25MW
2IW	50MW
5IW	125MW
10IW	250MW
25IW	600MW

For reference only, consult Ashcroft for specific dimensional drawings.



Dial Size (Inches)	A	B	D	D ₁	D ₂	Bolt Circle
3.5	0.75"	3.75"	3.25"	4.29"	3.22"	3.90"
4	0.75"	3.75"	4.10"	5.15"	4.01"	4.75"
4.5	0.75"	3.75"	4.75"	5.74"	4.60"	5.40"
6	0.75"	3.75"	6.07"	7.12"	6.00"	6.75"