



Differential pressure gauges



Application:

Mainly used for measuring the difference between two pressure values, in the plus and minus ends of filter, the level of liquid, the entrance and exit of pump, oil pipeline, gas pipeline and high pressure pump station and so on. It is excellent while overpressure take place, also suitable for corrosion environments.

Features:

- Withstanding pressure 10Mpa
- Vibration-proof type
- Capillary diaphragm
- Multifold mounting type

Specifications:

Dial size: 4", 6"
 Accuracy class: 1.6%, 2.5%
 Case: SS304
 Connection: SS316
 Movement: SS304
 Dial: Aluminum, white
 Pointer: Aluminum, black,
 zero adjustable
 Window: Laminated safety glass

Maximum static pressure: 6MPa

Overpressure protection: both ends support 10MPa

NOTE: The instrument should be used with 3-way manifold group or 5-way manifold.

Diaphragm material: 316L(for negative pressure)

316Ti(for positive pressure)

Operate temperature: -20 C ~ 60 C

Protection rating: IP 65

Range: 16KPa, 25KPa, 40KPa ... 1000KPa

Connection: M20X1.5, G1/2, NPT1/2, NPT1/4,
 thread inside (without 3-way manifold)
 or capillary connection, capillary threaded
 connection, diaphragm capillary flanged
 connection (mainly used in viscous medium
 or diaphragm in special materials)

Manifold:



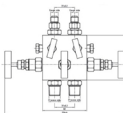
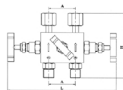
Three way valve



Five way valve

Process side	Gauge side	Distance	PTFE	
			SS304	SS316L
1/4NPT male	1/4NPT female	37/50/54	8953162	8953166
1/2NPT male	1/2NPT female	37/50/54	8953163	8953167
M20x1.5 male	M20x1.5 female	37/50/54	8953164	8953168
G1/2 male	G1/2 female	37/50/54	8953165	8953169

Process side	Gauge side	Distance	PTFE	
			SS304	SS316L
1/4NPT male	1/4NPT female	37/50/54	8955131	8955135
1/2NPT male	1/2NPT female	37/50/54	8955132	8955136
M20x1.5 male	M20x1.5 female	37/50/54	8955133	8955137
G1/2 male	G1/2 female	37/50/54	8955134	8955138





Differential pressure gauges

Manifold specification:

Body material: SS304 or SS316L

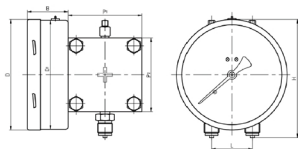
Nominal pressure: 6000PSI/10000PSI

Sealing packing material:

PTFE(-20 ~ 230 °C)

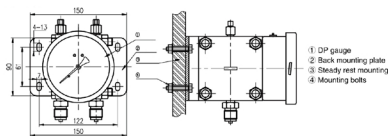
Graphite(100 ~ 400 °C)

Dimensions:



Type code	mm					
	D	D1	B	H	P1/P2	L
100	111	97	51	141	100	54
150	149	147	55	158	100	54

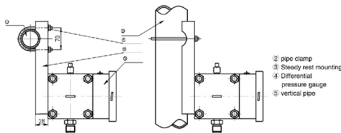
Back mounting:



Note:

1. back mounting fit for plate mounting(instrument plate, and outer surface etc);
2. make sure the plane and differential gauge are tight, which will not mount the fall off;
3. special back plate available as per request.

Steady rest mounting:



Note:

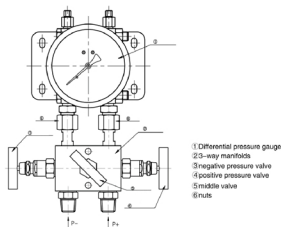
1. steady rest mounting is suitable for pipe(horizontal or vertical etc);
2. outer diameter of pipe can't over 60mm



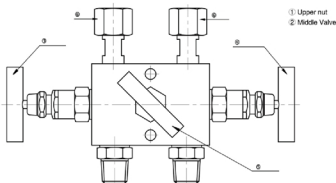
Differential pressure gauges

Three valves mounting, disassembly and method of application:

Mounting:



Disassembly:



Mounting:

1. Use differential gauge must fit out three valves in order to insure it s normal working.
2. The differential gauge and there valves are connected by two nuts tightly, nuts and socket are with PTFE spacer.
3. Open the middle valve, negative pressure valve and positive pressure valve before use the differential gauge, when either of P- or P+ input, the middle valve can have equilibrium activity, and avoid to damage the gauge.
4. When P- and P+ normal input the three valves, the close the middle valve, to make the gauge works right. If the gauge's pointer is not at zero, please adjust it to zero (note must use soap water to inspect the seal, if has leak, please tight.)
5. The differential pressure gauge has back plate mounting (see the chart) and standpipe fixed (the pipe with clamp).

Disassembly:

1. Open the middle valve, negative pressure valve and positive pressure valve (negative pressure valve and positive pressure valve original state is open).
2. Close these two input valves (on the main pipe of equipment).
3. Discharge instrument (discharge two nuts), use spanner lock the socket of gauge, and just discharge the nuts on three valves Discharge pressure, then put off the nuts and clamp.
4. Screw down the two nuts and take down the differential pressure gauge (note screw down these two nuts together)
5. Then install the new gauge (same as mounting method), change two spacers to ensure it will not leak.
6. Fix the clamp.
7. Open main switch (two), then close the middle valve. (use soap water to inspect leak)
8. Two minutes later, set the pointer at zero (if it does not out off zero, you needn



How to order differential pressure gauge:

	CODE	CHARACTERISTICS					
Basic type	SDPG	Standard type differential pressure gauge					
	VDPG	Vibratin-proof type differential pressure gauge					
Diameter	4	4"					
	6	6"					
Mounting	BC	Bottom connection with back mounting bracket					
	PC	Pipe clamp mounting					
Connection:	M20	M20x1.5					
	G1/2	G1/2					
	N1/2	NPT1/2					
	N1/4	NPT1/4					
	CTC	Capillary thread connection					
	CFC	Capillary flange connection					
Max. static pressure	DORF	Connection with diaphragm seals or flange					
	Other threads as per requests:						

Options to be added:

1. range;
2. combined with 3-way manifold
3. combined with 5-way manifold

Order example:

