

Differential Pressure Manifolds – DPM Five-Valve ASME B31.1



Product Overview

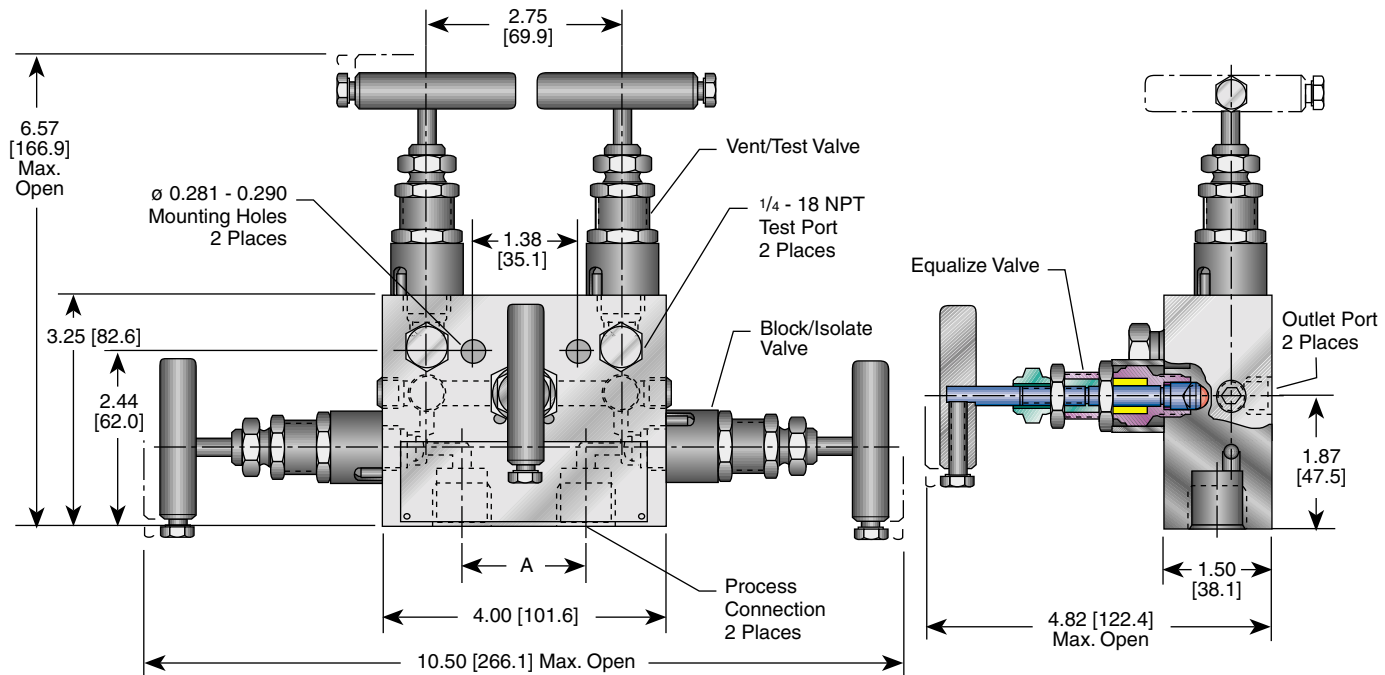
The DPM is a five valve manifold designed for remote mounting to differential pressure transmitters. Lightweight and with compact dimensions, DPM manifolds enable instrument operation, isolation, zeroing and venting in a single unit. Two block valves, on equalizer valve and two vent/test valves are combined into a compact unit designed for rack or pipe-stand mounting. Two 1/4-inch FNPT vent/test ports are provided for ease of venting and field calibration of the instrument.

Features and Benefits

- **Remote mounting compact design** requires a minimum of space for operation and installation with fewer potential leak points.
- **Installation costs reduced** by manifolded the valves, thereby eliminating several components essential for 'piping-up.'
- **Ball end stem** free-swiveling ball-end stem ensures perfect alignment, providing repetitive bubble-tight shut-off and long life.
- **Packing below threads** Teflon® or GRAFOIL® packing below the stem threads prevents lubricant washout and thread corrosion.
- **Back seat stem** prevents stem blow-out or accidental removal while in operation.
- **Threaded vent ports** allows vent to be safely piped away, supplied plugged as standard.
- **Manifold mounting**, standard pipe bracket bolts directly to the manifold providing a rigid support for the transmitter. Instrument can be easily removed for service or repair.

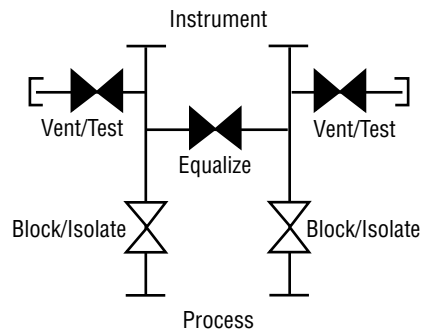
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Dimensions, inches [mm]



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Process Connections	A
1/2-inch NPT	1.75 [44.4]
3/8-inch NPT	1.90 [48.3]
1/2-inch AGCO Tube	
1/2-inch Pipe S.W.	
3/8-inch Tube S.W.	
1/2-inch Tube S.W.	2.12 [53.8]
3/8-inch Tube Stub	
1/2-inch Tube Stub	



Standard Materials

Valve ¹	Body	Bonnet	Stem	Ball Seat	Packing
SS	A479-316	A479-316	A276-316	316	GRAFOIL®

Note

1. Approximate valve weight: 6.5 lb [2.9 kg].
0.187-inch [4.8 mm] diameter orifice.
Valve C_v 0.52 maximum.

Pressure and Temperature Ratings

Valve	Ratings
SS	6000 psig @ 100°F
	2915 psig @ 1000°F
	[414 barg @ 38°C]
	[201 barg @ 538°C]

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Ordering Information – Power Industry Applications⁴

	DPMHP	S	- 4 - 2	-XP	-SG
Valve Type					
DPMHP					
Body Material					
S – SS, A479-316					
Connections (Process x Instrument x Vent)					
3 - 2					
4 - 2					
4B2					
4TB2					
3TC2					
4TC2					
4AT2					
3TB2					
Options					
-SP Special Requirements – please specify					

Notes

1. AT = Single ferrule SS fitting for 1/2-inch tubing.
ATD = Double ferrule SS fitting for 1/2-inch tubing.
2. Tube Stubs are 6-inch long x 0.065-inch wall.
3. Tube Stubs are 6-inch long x 0.095-inch wall.
4. All Manifolds come standard with GRAFOIL® packing, integral seats, bonnet locks, and are subjected to hydrostatic testing.
5. See page 148 for Code Requirements.