

Static Pressure Manifolds – PTM and PT7 2-Valve Manifolds



Product Overview

The PT Two-Valve Calibration Manifolds are used on static pressure transmitters, switches or gauges. The shutoff valve, tee, calibration valve, and all immediate tubing/fittings are available in one simple manifold. The PT manifolds are available with either metal seats or replaceable soft seat inserts.

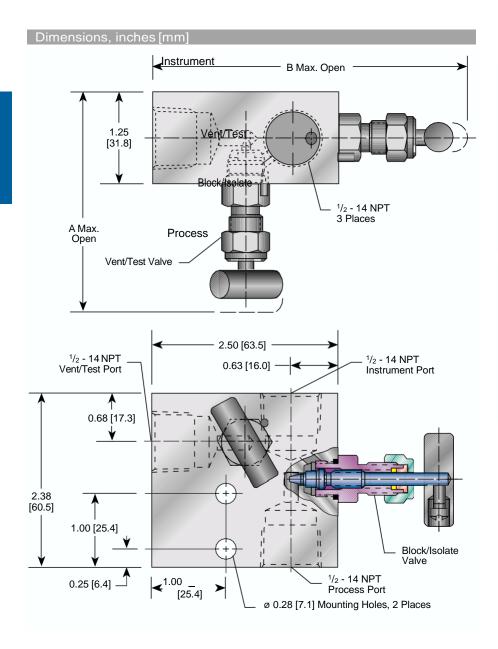
The PTM manifold features a unique valve seat that can be converted from soft to hard by simply removing two insert washers. No other parts are required.

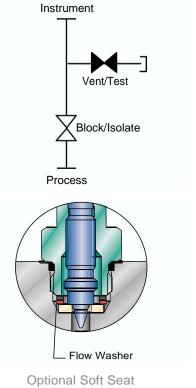
The PT7 manifold is available for elevated temperatures and features an integral metal seat.

Features and Benefits

- Cost savings when manifolding the instruments. This eliminates several parts used in conventional methods of 'piping up' resulting in cost reduction of 20-30 percent.
- Compact design requires minimum space for operation and installation.
- Rolled threads, stem and bonnet threads are rolled for increased strength. This prevents galling and adds years to the useful life of the valve.
- Fewer leak points reduce leakage by having fewer parts to assemble.
- Teflon® and GRAFOIL® adjustable packing is easily adjusted for leakproof and long service life.
- Stem threads are isolated from process fluid (O-ring stem seal). This prevents galling and corrosion of the stem threads. The O-ring isolates the stem threads from the process.
- Backseat stem prevents stem blowout.

Static Pressure Manifolds - PTM Specifications

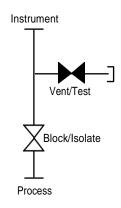


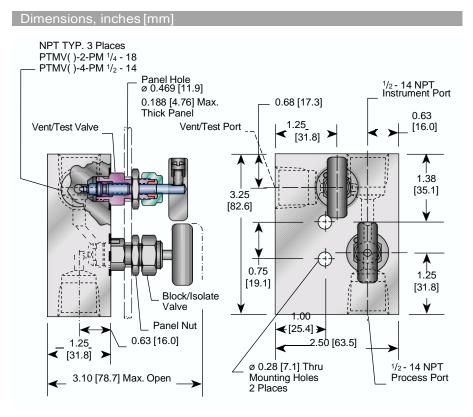


Packing	А	В
O-ring	2.50 [63.5]	3.75 [95.3]
	3.10 [78.7]	4.35 [110.5]

 Approximate valve weight: 2.0 lb [0.9 kg]. 0.136-inch [3.5 mm] diameter orifice. Valve C_V Hard Seat 0.25 maximum. Valve C_V Soft Seat 0.24 maximum.

Static Pressure Manifolds – PTMV () – () – PM (Panel Mount) Specifications



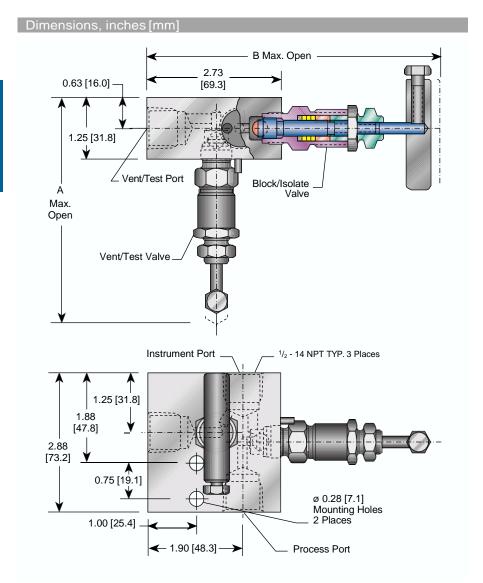


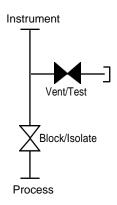
Standard Materials				
Valve	Body	Bonnet	Stem	Flow Washer4
CS ²	A108	A108	A581-303	316
SS	A479-316	A479-316	A276-316	316
SG ³	A476-316	A479-316	Monel® R405	316
Monel®	Monel® 400	Monel® R405	Monel® R405	Monel® 400

Notes

- Approximate valve weight: 2.7 lb [1.2 kg]. 0.136-inch [3.5 mm] diameter orifice. Valve C_V Hard Seat 0.25 maximum. Valve C_V Soft Seat 0.24 maximum.
- 2. CS is zinc cobalt plated to prevent corrosion.
- SG (Sour Gas) all SS wetted parts are RC22 or less to meet requirements of NACE MR0175-latest revision.
- 4. Soft seated valves only.

Static Pressure Manifolds - PT7 Specifications





Dimensions, inches [mm]				
Packing	А	В		
Teflon®	3.85 [97.8]	5.33 [135.4]		
OIVALOIL-	4.50 [114.3]	5.98 [151.9]		

Standard Materials					
Valve ¹	Body	Bonnet	Stem	Ball	Packing
CS ²	A105	A108	A581-303	17-4 PH	Teflon®
CS	A105	A105	A581-303	17-4 PH	GRAFOIL®/ Low Emissions Graphite
SS	SS, A479-316	SS, A479-316	A276-316	316	Teflon®
SS	SS, A479-316	SS, A479-316	A276-316	316	GRAFOIL®/ Low Emissions Graphite
SG ³	SS, A479-316	SS, A479-316	Monel® 400	Monel®K500	Teflon®
SG	SS, A479-316	SS, A479-316	Monel® 400	Monel® K500	GRAFOIL®/ Low Emissions Graphite

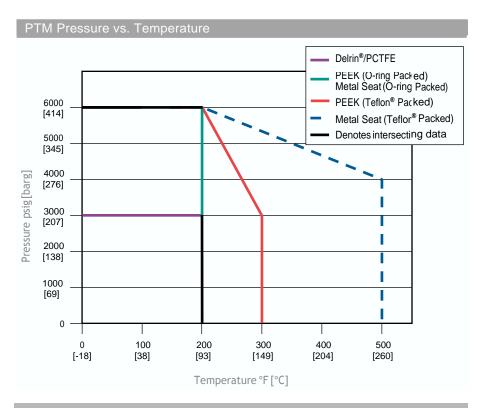
Note

- 1. Approximate valve weight: 3.0 lb [1.4 kg]. 0.187-inch [4.8 mm] diameter orifice. Valve C_{ν} 0.52 maximum.
- 2. CS is zinc cobalt plated to prevent corrosion.
- SG (Sour Gas) meets the requirements of NACE MR0175-latest revision.

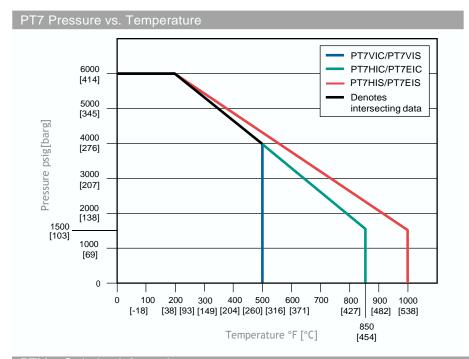
Static Pressure Manifolds – PTM and PT7 Specifications

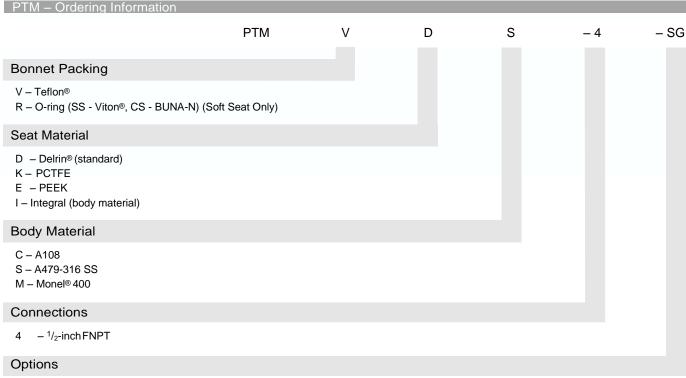
Pressure and Temperature Ratings - PTM				
Packing	PCTFE/Delrin® Seat	PEEK Seat	Metal Seat	
Teflon®	3000 psig @ 200°F [207 barg @ 93°C]	6000 psig @ 200°F 3000 psig @ 300°F [414 barg @ 93°C] [207 barg @ 149°C]	6000 psig @ 200°F 4000 psig @ 500°F [414 barg @ 93°C] [276 barg @ 260°C]	
O-ring	3000 psig @ 200°F [207 barg @ 93°C]	6000 psig @ 200°F [414 barg @ 93°C]	6000 psig @ 200°F [414 barg @ 93°C]	

Pressure and Temperature Ratings - PT7			
Valve	Packing	Ratings	
CS	Teflon®	6000 psig @ 200°F [414 barg @ 93°C]	4000 psig @ 500°F [276 barg @ 260°C]
CS	GRAFOIL®/Low Emissions Graphite	6000 psig @ 200°F [414 barg @ 93°C]	1500 psig @ 850°F [103 barg @ 454°C]
SS	Teflon®	6000 psig @ 200°F [414 barg @ 93°C]	4000 psig @ 500°F [276 barg @ 260°C]
SS	GRAFOIL®/Low Emissions Graphite	6000 psig @ 200°F [414 barg @ 93°C]	1500 psig @ 1000°F [103 barg @ 538°C]
SG	Teflon®	6000 psig @ 200°F [414 barg @ 93°C]	4000 psig @ 500°F [276 barg @ 260°C]
SG	GRAFOIL®/Low Emissions Graphite	6000 psig @ 200°F [414 barg @ 93°C]	1500 psig @ 1000°F [103 barg @ 538°C]



Static Pressure Manifolds – PTM and PT7 Specifications





Hydrostatic Testing (100 percent)

Stellite Ball Ended Stem (PT7 only)

Phenolic Black Handle (PTM only)

Phenolic Red Handle (PTM only)

Panel Mount (PTM only, page 17)

-PHG Phenolic Green Handle (PTM only)

(MSS-SP-61)

Monel® Stem

-HD

-ST

-MS

-PHB

-PHR

-PM

Arctic Lubricant (low temperature

AGCO Mount Kit for 2-inch pipe

mounting of manifold (page 38).

Cleaned for Chlorine Service.

Cleaned for Oxygen Service.

service). Not available for CS

-AL

-AM

-CL

-OC

valves.

-SG

-SP

Sour Gas meets the requirements

of NACE MR0175-latest revision.

(SS valves only) (Not available for

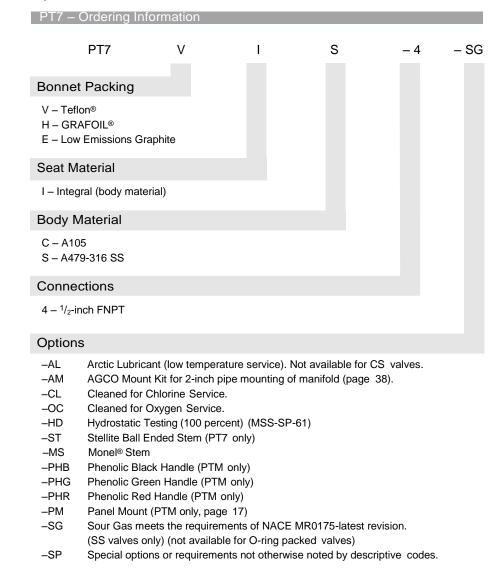
Special options or requirements not

otherwise noted by descriptive

O-ring packed valves)

codes.

Static Pressure Manifolds – PTM and PT7 Specifications



Static Pressure Manifolds – PT7M ASME B31.1 Specifications

PT7MHP – Ordering Information Power Industry Applications 1 PT7MHP -XP S SG **Body Material** C - A105 S - A479-316 SS Connections (Process x Instrument x Vent) 3 - 3/8-inch FNPT x 3/8-inch FNPT x 3/8-inch FNPT 3TC $-3/_{8}$ -inch Tube Stub (6" x 0.065") - All Connections 3TC4 $-3/_8$ -inch Tube Stub (6" x 0.065") x $3/_8$ -inch Tube Stub x $1/_2$ -inch FNPT 3TC44 $-\frac{3}{8}$ -inch Tube Stub (6" x 0.065") x $\frac{1}{2}$ -inch FNPT x $\frac{1}{2}$ -inch FNPT 4 $-\frac{1}{2}$ -inch FNPT x $\frac{1}{2}$ -inch FNPT x $\frac{1}{2}$ -inch FNPT 422 $-\frac{1}{2}$ -inch FNPT x $\frac{1}{4}$ -inch FNPT x $\frac{1}{4}$ -inch FNPT - 1/2-inch FNPT x 1/2-inch FNPT x 1/4-inch FNPT 4B2 $-\frac{1}{2}$ -inch PSW x $\frac{1}{4}$ -inch FNPT x $\frac{1}{4}$ -inch FNPT 4TC4 $-\frac{1}{2}$ -inch Tube Stub (6" x 0.095") x $\frac{1}{2}$ -inch Tube Stub x $\frac{1}{2}$ -inch FNPT 4TC44 $-\frac{1}{2}$ -inch Tube Stub (6" x 0.095") x $\frac{1}{2}$ -inch FNPT x $\frac{1}{2}$ -inch FNPT **Options**

- -AM AGCO Mount Kit for 2-inch pipe mounting of manifold (page 38).
- -SP Special options or requirements not otherwise noted by descriptive codes.

Notes

- All Manifolds come standard with GRAFOIL® packing, integral seats, bonnet locks, and are subjected to hydrostatic testing.
- 2. Manifold ratings:

SST 6000 psig @ 100°F 2915 psig @ 1000°F [414 barg @ 38°C] [201 barg @ 538°C] STL 6170 psig @ 100°F 3430 psig @ 800°F [425 barg @ 38°C]

[236 barg @ 427°C]

3. See page 148 for Code Requirements.