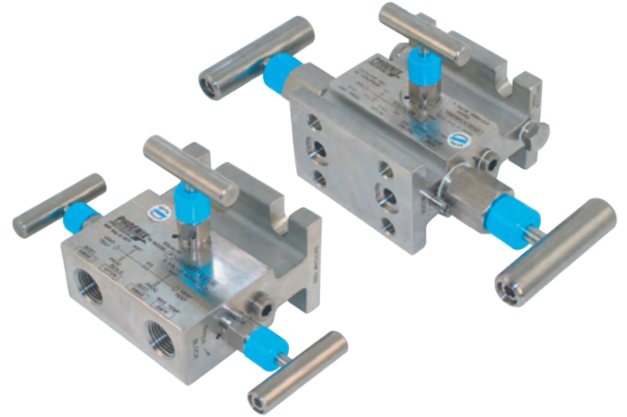


MANIFOLD

3-Valve Manifold

The 3-valve manifold is designed for instrument calibration. The roddable, soft-seated manifold is machined from bar stock and incorporates two (2) shut-off valves and an equalizing valve in a single body. It provides maximum shut-off and is offered in a range of materials and configurations that meet most application requirements. The manifold includes robust stems, pinned bonnets and two mount holes for bracket support.



Standard Features

Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.



Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.



Packing below stem threads



Metal body-to-bonnet seals are in compression, not tension



Stem threads are rolled, not cut



Non-rotating tapered tip stem (3/8" bore only)



8 RMS stem finish



V-Style Teflon™ packing



Pressure component materials sourced from the US, Canada or Europe



Benefits

Complies with ASME B31.1 & B31.3 shell testing procedures as standard. Ensures structural integrity of valve.

Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.

Prevents corrosion of critical stem threads

Mitigates risk of stress cracking

Higher quality stem for longer service life

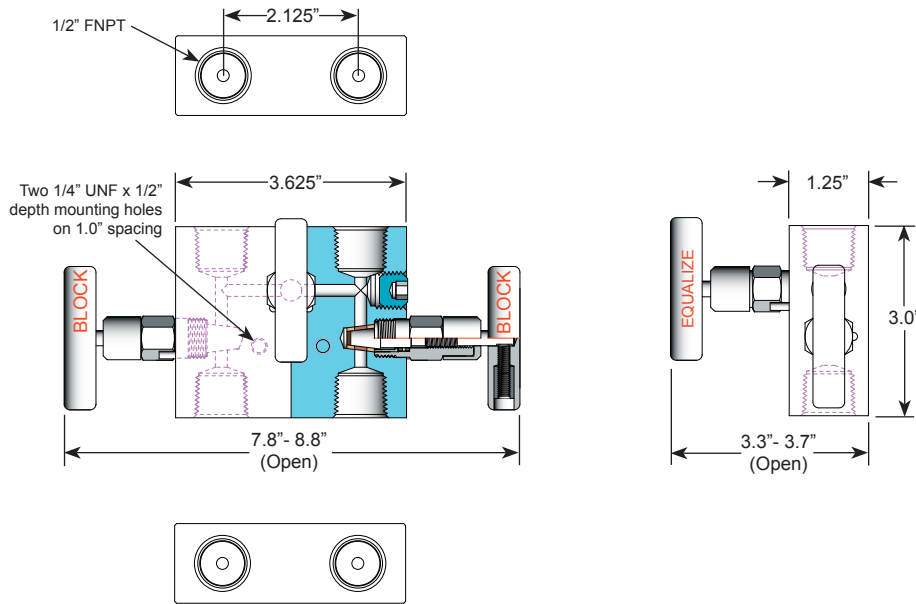
Extended soft seat life and a reliable soft seat shut off

Extended packing life

30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves.

Reliable material traceability. MTR's provided with every order for pressure containing components.

3/16" Bore Configuration



Specifications:

Type: **P3M3S** PxP Manifold, Roddabe Pattern
Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)

Stem: Taper Tip

Packing: Aflas™, Viton™ O-ring or Teflon™

Seat: Delrin™ or Peek™

Handle: Removable

Bore Size: 3/16"

Inlet Connections: 1/2" FNPT

Outlet Connections: 1/2" FNPT

Bonnet Lock: Pin or Plate

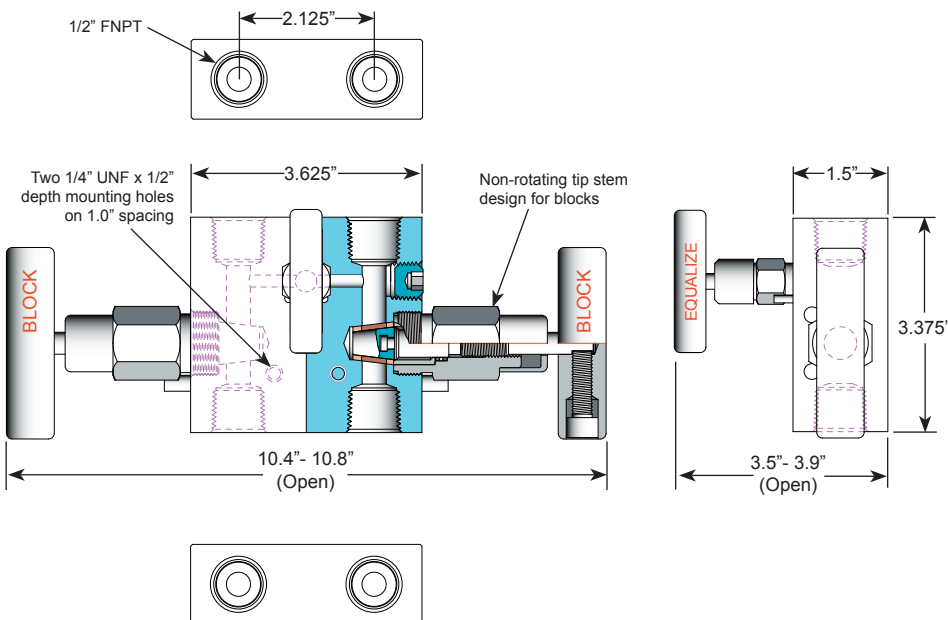
Body Stock: 3.625" x 3.0" x 1.25"

Weight: 4.0 - 4.2 lbs

Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

3/8" Bore Configuration



Specifications:

Type: **P6M3S** PxP Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)

Stem: Taper Tip

Packing: Aflas™, Viton™ O-ring or Teflon™

Seat: Delrin™, Peek™ or Tefzel™ (for blocks)

Handle: Removable

Bore Size: 3/8"

Inlet Connections: 1/2" FNPT

Outlet Connections: 1/2" FNPT

Bonnet Lock: Pin or Plate

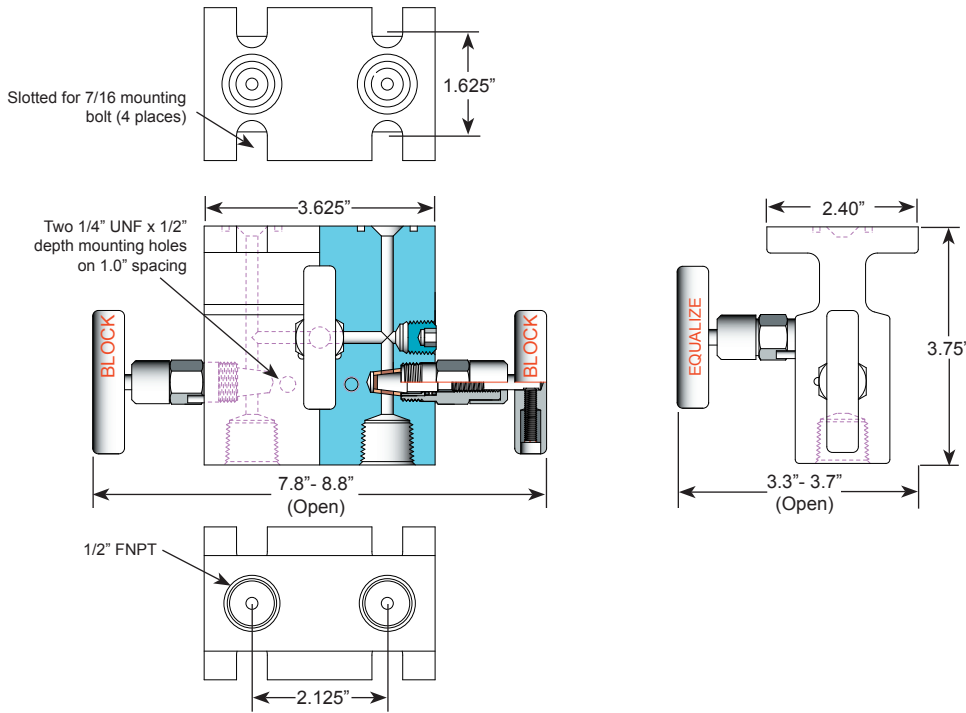
Body Stock: 3.625" x 3.375" x 1.5"

Weight: 5.7 - 6.0 lbs

Special Service: O₂ or CL cleaning available*

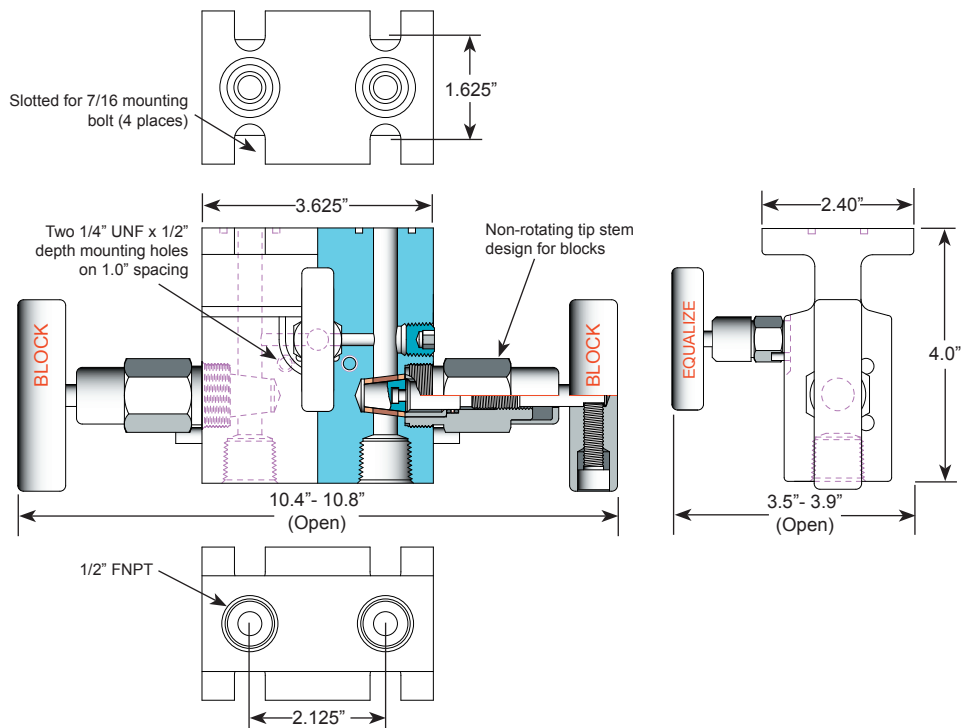
*Other specifications or services may be available.

3/16" Bore Configuration



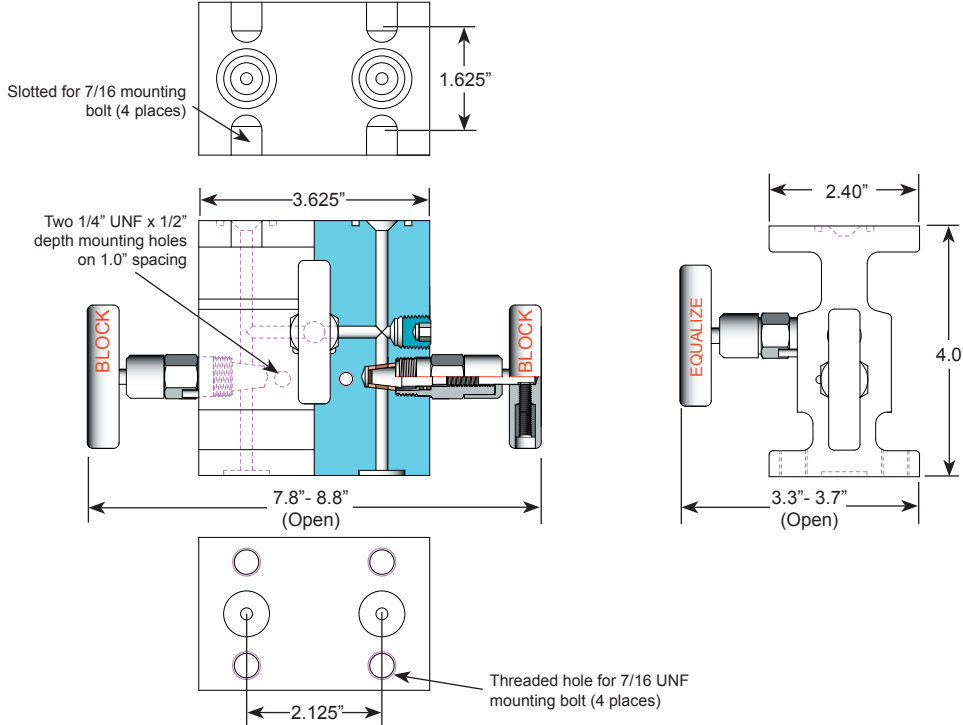
Specifications:
 Type: **P3M3S** PxF Manifold, Roddabe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Taper Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™ or Peek™
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: 4-Bolt Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 3.75" x 2.4" x 1.5"
 Weight: 5.8 - 6.0 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.

3/8" Bore Configuration



Specifications:
 Type: **P6M3S** PxF Manifold, Roddable Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Taper Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™, Peek™ or Tefzel™ (for blocks)
 Handle: Removable
 Bore Size: 3/8"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: 4-Bolt Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 4.0" x 2.4" x 1.7"
 Weight: 7.3 - 7.5 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.

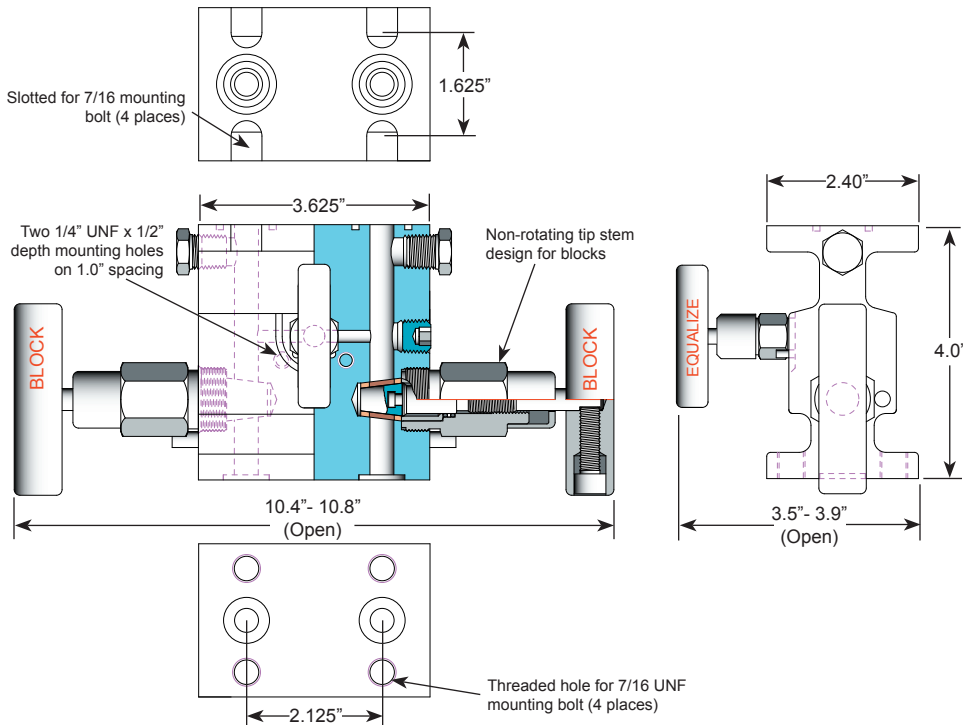
3/16" Bore Configuration



Specifications:

Type: **P3M3S** FxF Manifold, Roddabe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Taper Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™ or Peek™
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: 4-Bolt Flange
 Outlet Connections: 4-Bolt Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 4.0" x 2.4" x 1.5"
 Weight: 6.8 - 7.0 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.

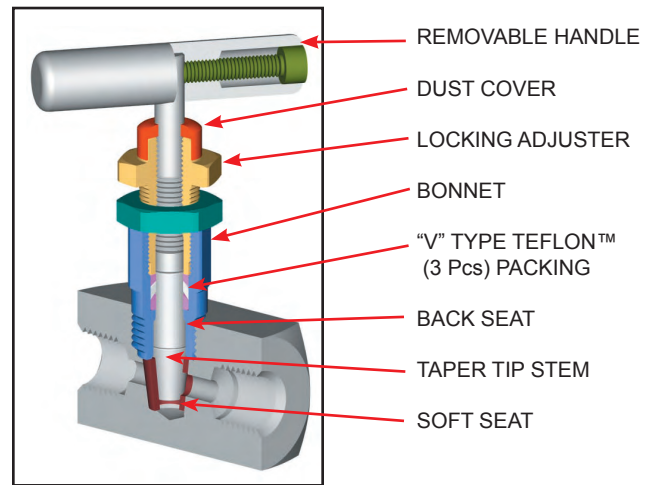
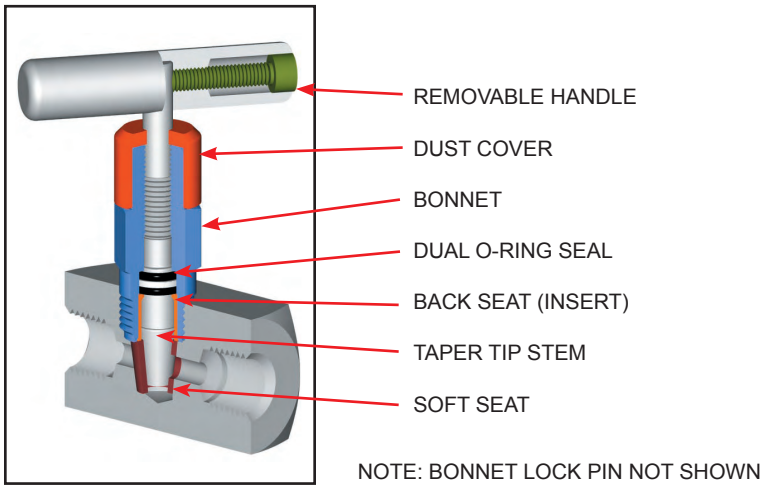
3/8" Bore Configuration



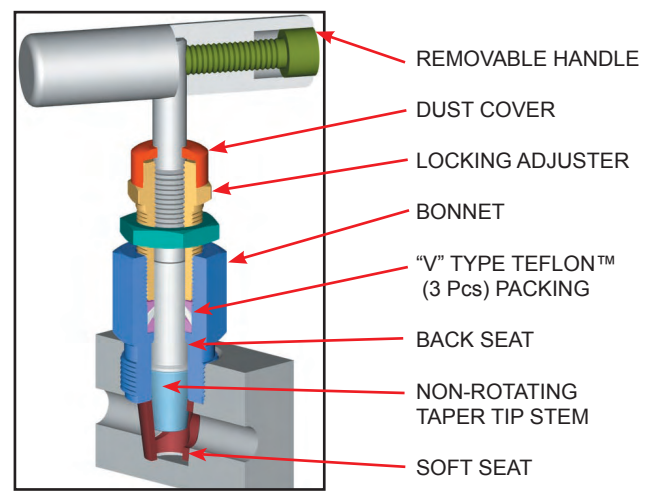
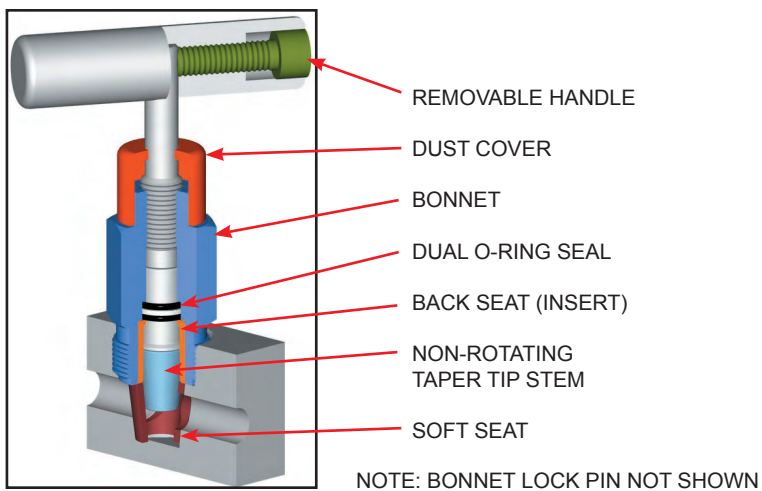
Specifications:

Type: **P6M3S** FxF Manifold, Roddable Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Taper Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™, Peek™ or Tefzel™ (for blocks)
 Handle: Removable
 Bore Size: 3/8"
 Inlet Connections: 4-Bolt Flange
 Outlet Connections: 4-Bolt Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 4.0" x 2.4" x 1.7"
 Weight: 7.5 - 7.7 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.

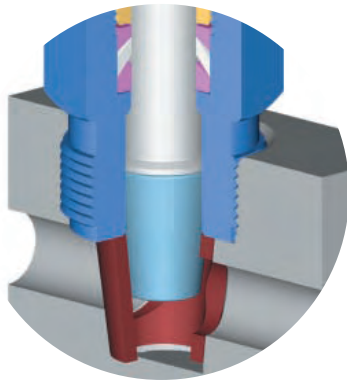
3/16" Bore O-ring and Packed Bonnet Assembly



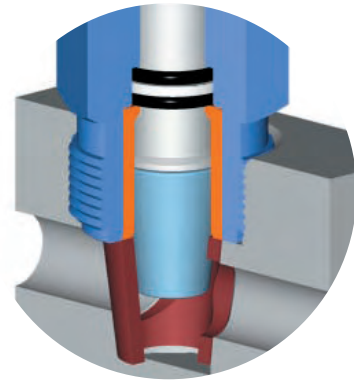
3/8" Bore O-ring and Packed Bonnet Assembly



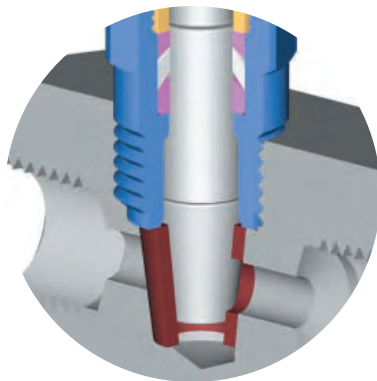
Stem and Seat Configurations



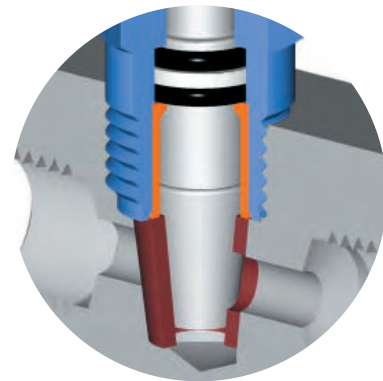
3/8" Bore
 Non-rotating Packed
 Configuration



3/8" Bore
 Non-rotating O-ring
 Configuration

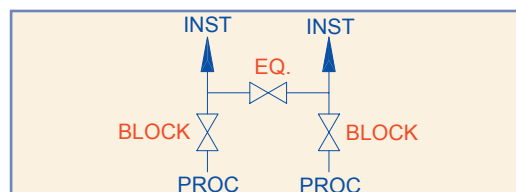


3/16" Bore
 Packed
 Configuration



3/16" Bore
 O-ring
 Configuration

Flow Diagram for All Manifolds



Use with Confidence, Phoenix Precision Products Meet the Following Specifications:

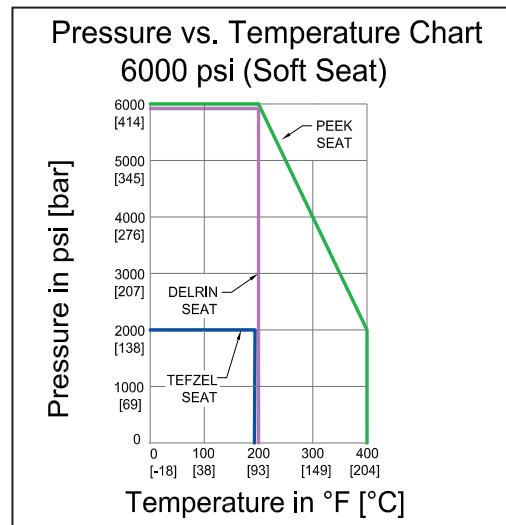
- ✓ ASME B31.1 Power Piping
- ✓ ASME B31.3 Process Piping
- ✓ ASME B16.34 Valves - Flanged, Thread, and Welding End
- ✓ API 598 Valve Inspection and Testing
- ✓ MSS SP-25 Standard Marking Systems for Valves, Fittings and Flange Unions
- ✓ MSS SP-99 Instrument Valves
- ✓ MSS SP-105 Instrument Valves for Code Applications
- ✓ NACE MR0175/ISO15156 for all 316SS valves and A105cs body/316SS bonnet (SC-Material Code) when in service with less than 50 PPM of chlorides

Materials of Construction

Code	SS	SC	CS
Body	ASTM A182 316SS	ASTM A105 CS	ASTM A108 CS
Bonnet	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Stem	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
Adjuster	ASTM A582 303SS	ASTM A582 303SS	ASTM A108 CS
Insert	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Handle	ASTM A582 303SS	ASTM A582 303SS	ASTM A108 CS

Seal & Seat Temperature Rating

Code	Description	Min. Temp.	Max. Temp.
A	Aflas™	15°F (-10°C)	400°F (204°C)
V	Viton™	-20°F (-29°C)	400°F (204°C)
T	Teflon™	-65°F (-54°C)	450°F (232°C)
D	Delrin™	-40°F (-40°C)	200°F (93°C)
P	Peek™	-40°F (-40°C)	400°F (204°C)
Z	Tefzel™	-300°F (-185°C)	300°F (150°C)



Note: Packing material ratings based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Option Code
P	3=3/16"	M3S	8=1/2" Only for NPT	F= FNPT	8=1/2" Only for NPT	F= FNPT	SS=ASTM A182 316/316L	A=Aflas™	D=Delrin™	DI=Dielectric
	6=3/8"			FL= Flange		FL= Flange	SC=ASTM A105 CS*	V=Viton™ (FKM)	P=Peek™	OR=Viton™ O-ring Flange Seal
							CS=ASTM A108 CS*	T=Teflon™ (PTFE)	Z=Tefzel™ **	

EXAMPLE: P6M3SFLFLSSVD = 3/8" Orifice, 3 Valve Manifold, Flange Inlet, Flange Outlet, 316SS Body, Viton™ Packing, Delrin™ Seats, Taper Tip Stem

P	6	M3S		FL		FL	SS	V	D	
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*For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.

**Block bonnet of 3/8" bore manifold only.

Note: **Standard Bolting Options**, **CS** - carbon steel, Gr.8, zinc plated bolts; **SS** - stainless steel, 18.8 (304SS) bolts.

BOLT OPTIONS

			BOLT MATERIAL DESIGNATION		
Application	Description	Length	CS	304 SS	316 SS
DP Transmitter	Bi-planar Design: Rosemount™ 1151, Honeywell™ 900 etc.	1"	Blank: Standard for CS Manifolds	Blank: Standard for SS Manifolds	-S6
	Coplanar Design: Rosemount™ 3051, 3095, 2024 with coplanar flange.	2 1/4"	-225CS	-225S4	-225S6
Flow Computer	ABB Total Flow, Thermo Fisher™ (with Honeywell™ Transducer Module), Barton Scanner, Bristol Teleflow & TeleTrans	1"	Blank: Standard for CS Manifolds	Blank: Standard for SS Manifolds	-S6
	Fisher™, Flow Automation™ (with Rosemount™ transducer module), Daniel, Dynamic Fluid	2 1/4"	-225CS	-225S4	-225S6
DP Transmitter with DP to GP Adapter	DP Bi-planar design used in combination with DP to GP Adapter (DPG6S)	2"	-200CS	-200S4	-200S6
	DP Coplanar design used in combination with DP to GP Adapter (DPG6S)	3 1/4"	-325CS	325S4	-325S6

Note: For manifolds with dielectric option add 1/4" to bolt length.

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