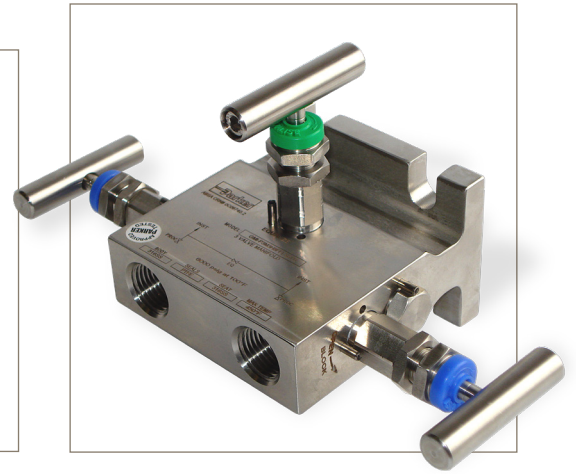


3 Valve Manifolds

P3M3H™ and P6M3H™

3/16" and 3/8" Bore 3-Valve Hard Seat Manifolds
Solutions for Oil, Gas, and Petrochemical Processing



Principle of Operation:

The 3-valve hard seat manifold designed for instrument calibration incorporates two shut-off valves and an equalizing valve in a single body. The manifold features a valve body manufactured from extruded solid bar, robust stems and bonnets pinned for safety. Two standard mount holes are provided for bracket support. The manifold's globe-pattern provides maximum shut-off. Parker offers the manifold with a variety of special tips, materials and configurations that meet most application requirements.

Features and Benefits:

- Pressure component materials sourced from the US, Canada or Europe
Reliable material traceability. MTR's provided with every order for pressure containing components.
- 100% Gas tested
Complies with MSS SP-99 testing procedures as standard. Ensures structural integrity of valve.
- Packing below stem thread
Prevents corrosion of critical stem threads
- Metal body-to-bonnet seals are in compression, not tension
Mitigates risk of stress cracking
- Stem threads are rolled, not cut
Higher quality stem for longer service life
- 8 RMS stem finish
Extended packing life
- V-Style PTFE packing
30-40% less operational torque and less frequent packing adjustments than traditional PTFE packed valve



PHOENIX™
PRECISION

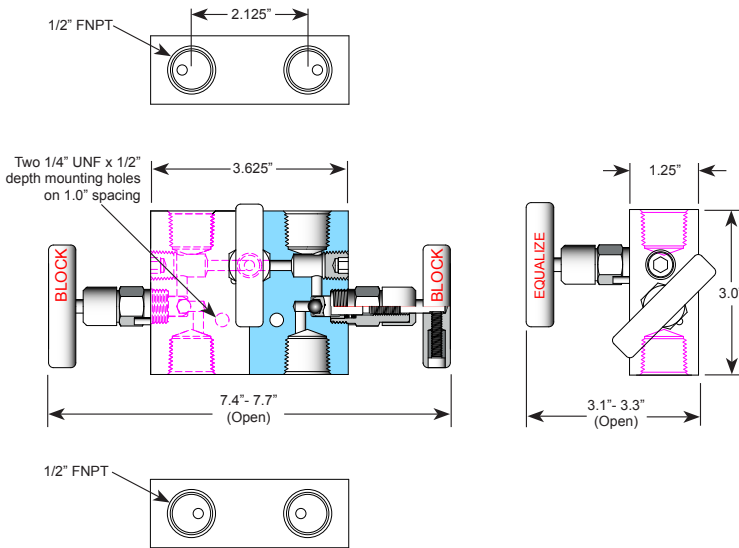
Parker Hannifin acquired PGI in 2012 and Phoenix Precision Ltd in 2014. The enclosed offering combines the best product features of the acquisitions and is the best available, safest technology to better serve customers.



ENGINEERING YOUR SUCCESS.

P3M3H™/P6M3H™ : Pipe x Pipe Technical Specifications

3/16" Bore Configuration

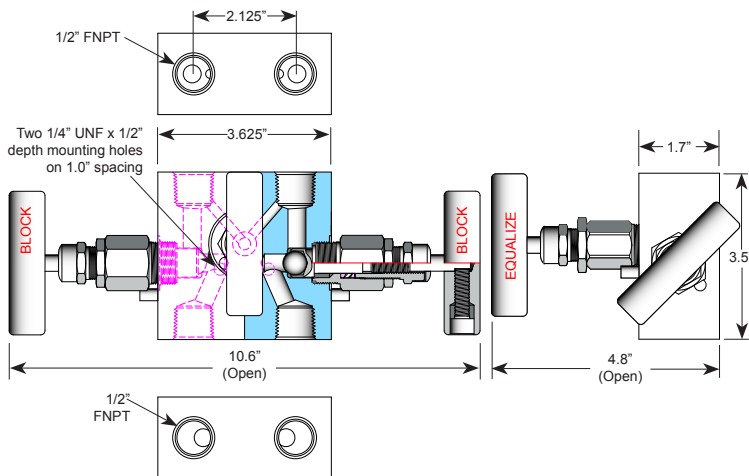


Specifications:

Feature	Description
Type:	P3M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/16"
Inlet Connections:	FNPT
Outlet Connections:	FNPT
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 3.00" x 1.25"
Weight:	4.5 - 5.1 lbs
Special Service:	O ₂ or Cl cleaning available*

Notes: *Other specifications or services may be available.

3/8" Bore Configuration



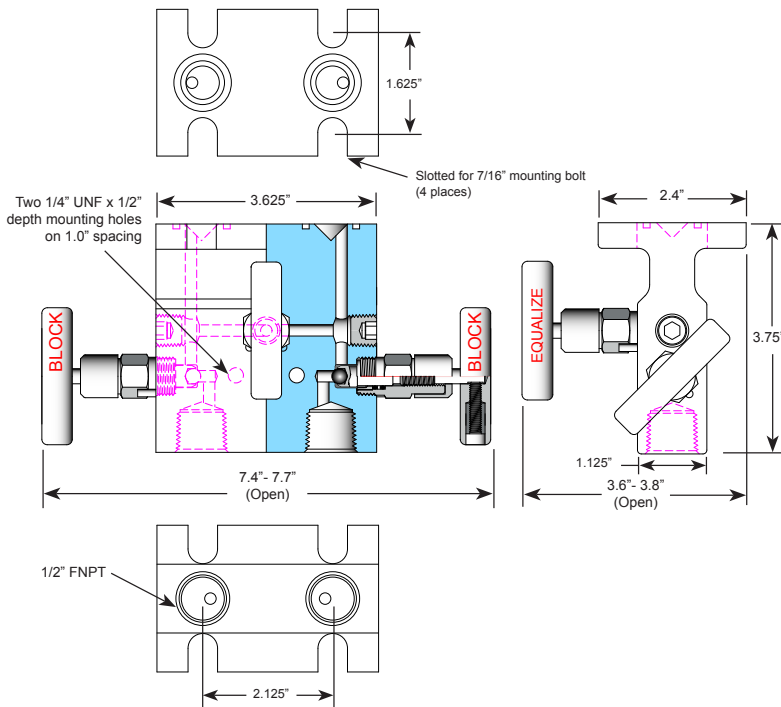
Specifications:

Feature	Description
Type:	PG6M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/8"
Inlet Connections:	FNPT
Outlet Connections:	FNPT
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 3.5" x 1.7"
Weight:	7.0 - 7.2 lbs
Special Service:	O ₂ or Cl cleaning available*

Notes: *Other specifications or services may be available.

P3M3H™/P6M3H™: Pipe x Flange Technical Specifications

3/16" Bore Configuration

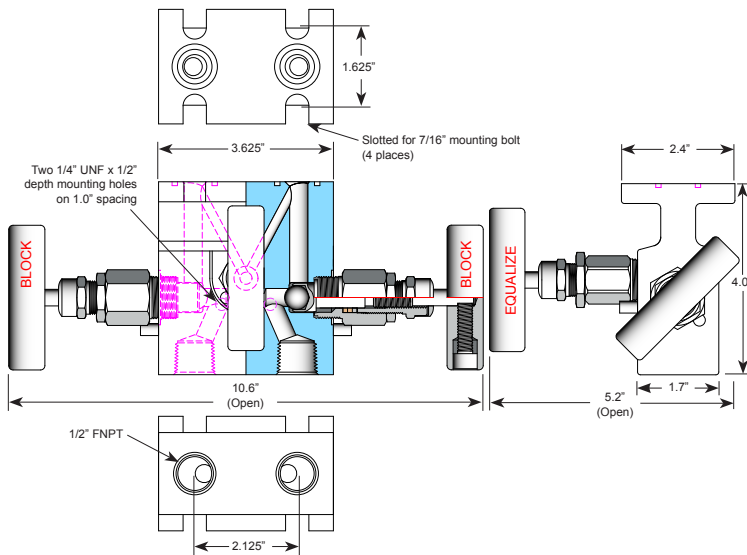


Specifications:

Feature	Description
Type:	P3M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/16"
Inlet Connections:	FNPT
Outlet Connections:	Flange
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 3.75" x 2.4" x 1.125"
Weight:	4.5 - 5.1 lbs
Special Service:	O ₂ or Cl cleaning available*

Notes: *Other specifications or services may be available.

3/8" Bore Configuration



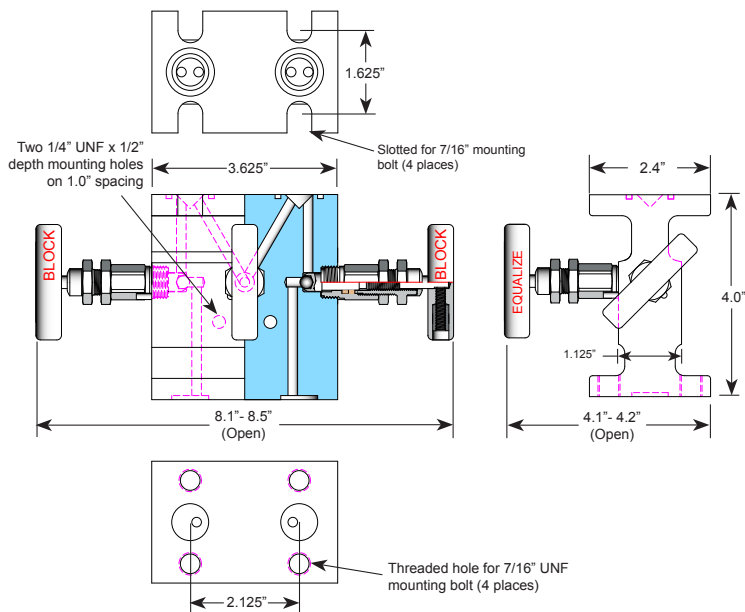
Specifications:

Feature	Description
Type:	P6M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/8"
Inlet Connections:	FNPT
Outlet Connections:	Flange
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 4.0" x 2.45" x 1.7"
Weight:	7.5 - 7.7 lbs
Special Service:	O ₂ or Cl cleaning available*

Notes: *Other specifications or services may be available.

P3M3H™/P6M3H™ : Flange x Flange Technical Specifications

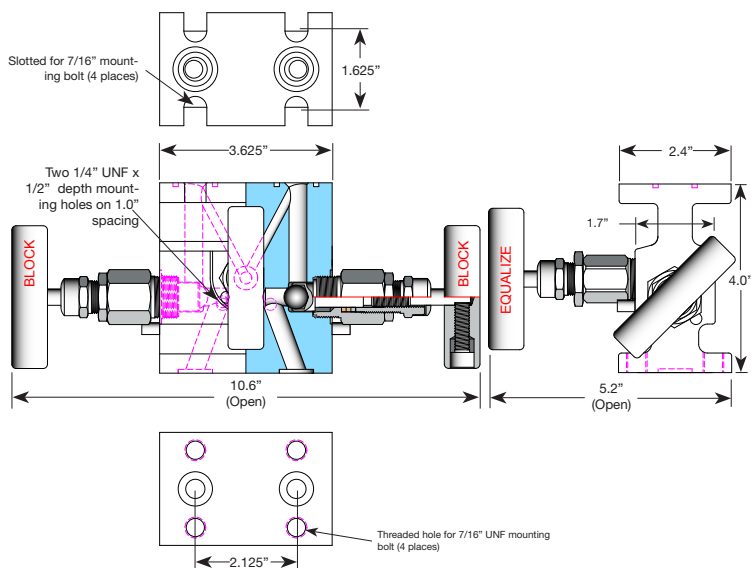
3/16" Bore Configuration



Specifications:

Feature	Description
Type:	P3M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/16"
Inlet Connections:	FNPT
Outlet Connections:	Flange
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 4.0" x 2.4" x 1.125"
Weight:	4.5 - 5.1 lbs
Special Service:	O ₂ or CI cleaning available*
Notes: *Other specifications or services may be available.	

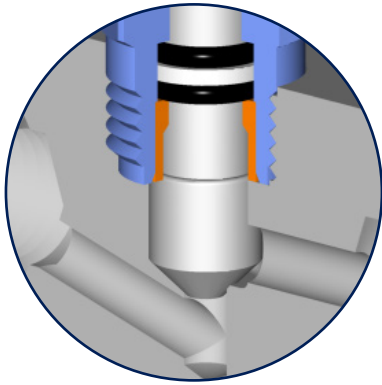
3/8" Bore Configuration



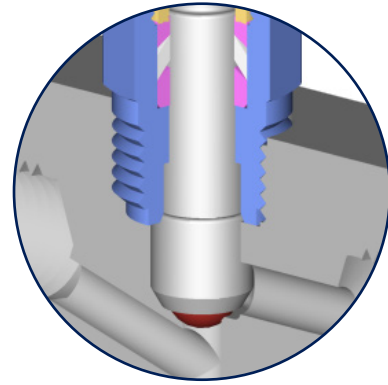
Specifications:

Feature	Description
Type:	P6M3H, 3-Valve Manifold, Globe Pattern
Rating:	Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem:	Ball tip
Packing:	FKM O-ring, PTFE or Graphite
Seat:	Integral
Handle:	Removable
Bore Size:	3/8"
Inlet Connections:	Flange
Outlet Connections:	Flange
Bonnet Lock:	Pin or Plate
Body Stock:	3.625" x 4.0" x 2.4" x 1.7"
Weight:	7.6 - 7.8 lbs
Special Service:	O ₂ or CI cleaning available*
Notes: *Other specifications or services may be available.	

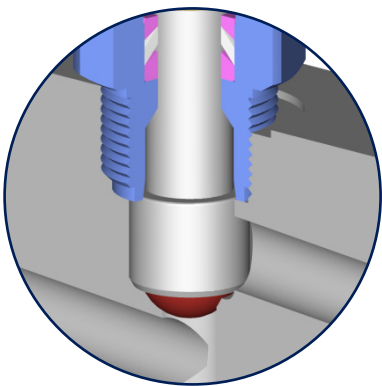
P3M3H™/P6M3H™: Stem and Seat Characteristics



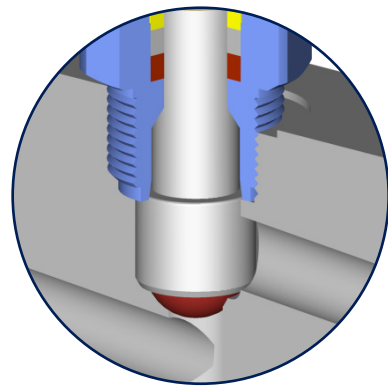
3/16"
Bore O-ring Configuration



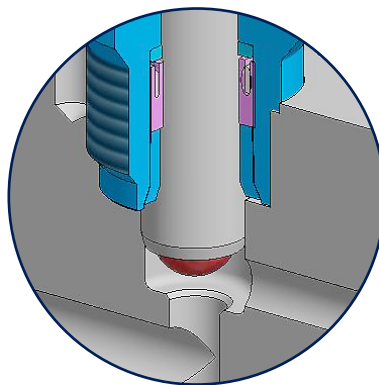
3/16"
Bore Packed Configuration



3/8"
PTFE Packed Configuration



3/8"
Graphite Packed Configuration



Pressure Core

P3M3H™/P6M3H™ : Pressure-Core® Seal - Advanced Stem Seal System

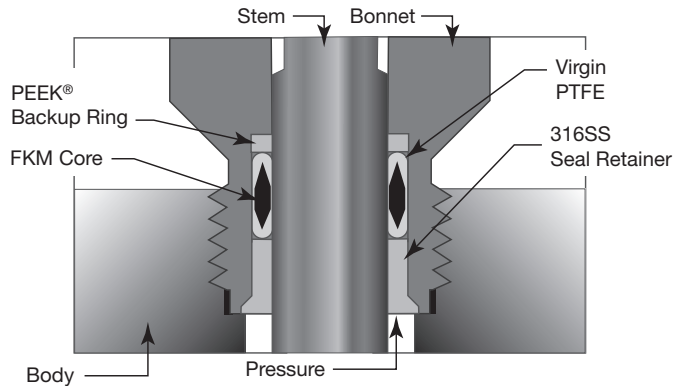
A Superior Design for Better Performance:

Parker's patented Pressure-Core® Stem Seal System was tested by an independent laboratory in accordance with EPA Method 21, and the results indicate that the Pressure-Core® Stem Seal is a reliable, affordable, virtually leak-free bonnet requiring no costly, time consuming maintenance.

After years of field experience and millions of valves in service, Parker takes great pride in extending a five-year limited warranty on our Pressure-Core® Stem Seal, far exceeding the industry standard.

Product Features:

- Virtually Leak-Free Performance
- No Adjustments or Maintenance Requirements
- Unmatched 5 Year Warranty
- No Fugitive Emissions



Fugitive Emissions Test Results:

See for yourself how our Pressure-Core® not only outperforms the competition, but sets a new industry standard...

Test Procedure

Valves mechanically cycled 50 times (full open to full close) at 1,000 PSI methane, then heated to 400°F and air cooled to ambient. Procedure repeated until failure.

Failure Criteria

100 PPM leak*

*Competition's Emission Seal Warranty

Test Results:

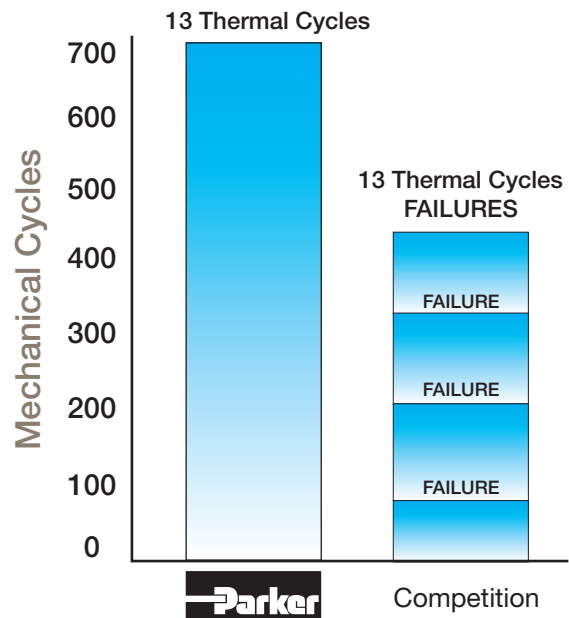
Parker:

The Pressure-Core Seal successfully completed 694 mechanical cycles and 13 thermal cycles. Maximum leakage throughout testing was 40 PPM.

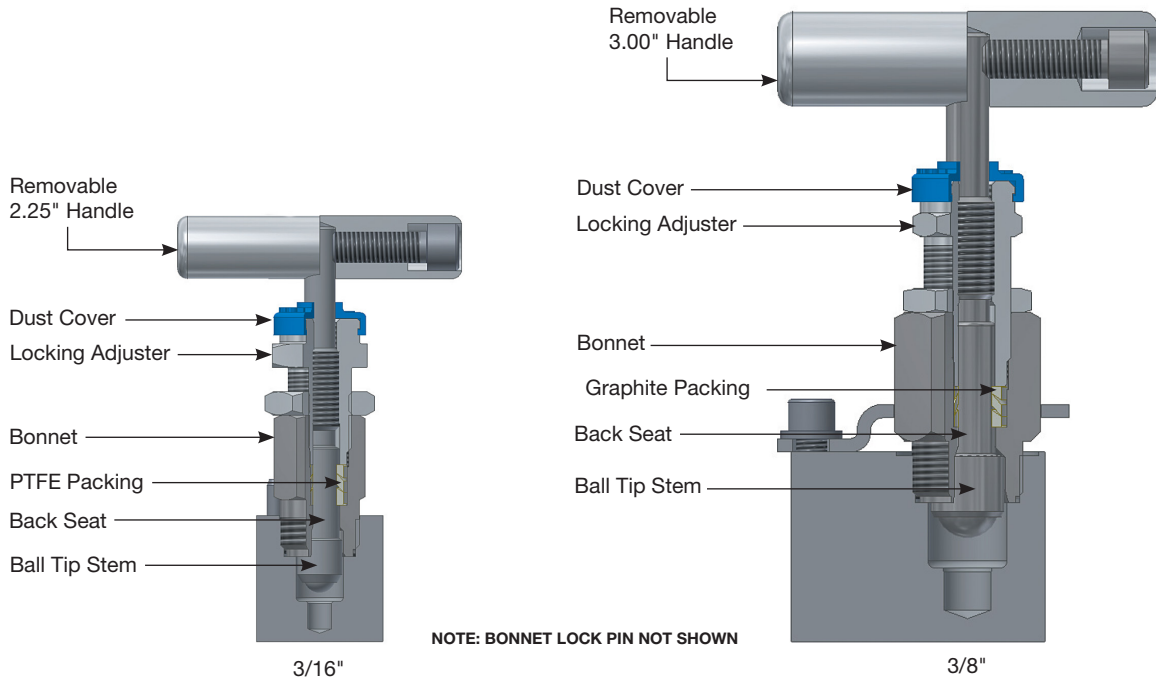
Competition:

The competition's "low emissions" graphite design failed on the 89th mechanical cycle and on average every 125 cycles throughout the testing.

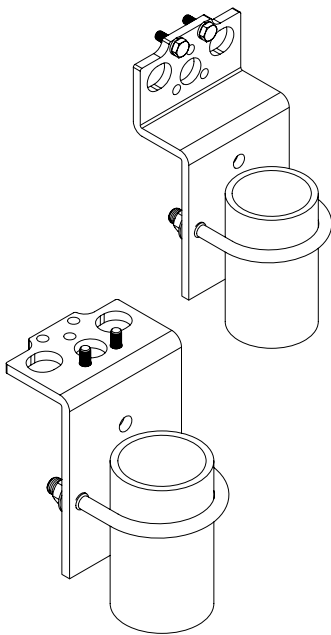
Repeated maintenance was required between each failure to readjust the valve packing.



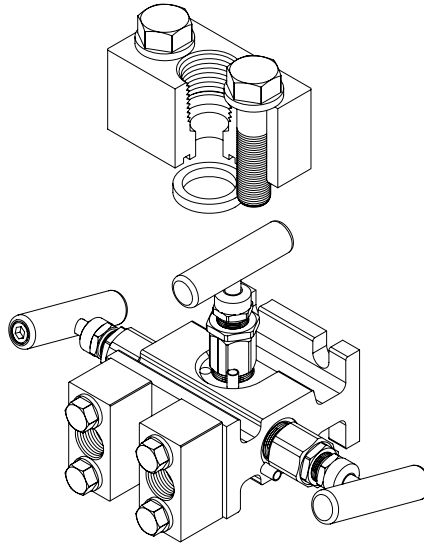
PTFE and Graphite Packed Bonnet Assembly



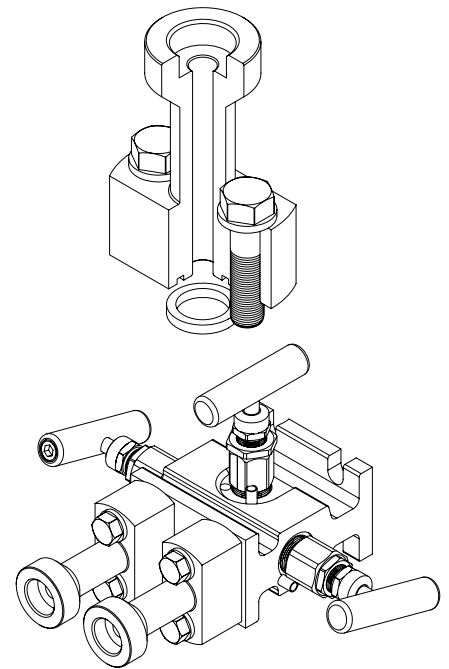
Optional Manifold Accessories



Mounting Bracket Kit



1/2" Female Threaded Adapter



1/2" Socket Weld Adapter

Meets the Following Specifications as required:

- 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 for all 316SS valves and A105CS body/316SS bonnet (SC Material Code)
- ISO 9001:2015 certified quality system
- Canadian Registration Number (CRN)
- ASME/ANSI B1.20.1 general pipe threads

Material of Construction:

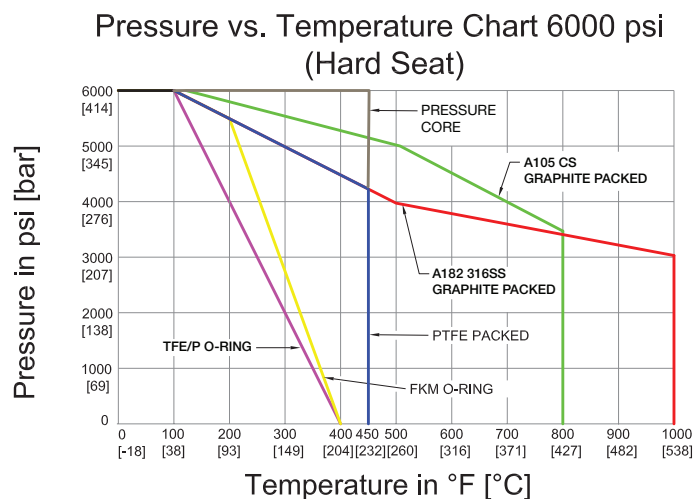
Code	SS	SC	CS
Body	ASTM A182 316SS	ASTM A105 CS	ASTM A108 CS
Bonnet	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Stem	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
Adjuster	ASTM A582 303SS	ASTM A582 303SS	ASTM A108 CS
Insert	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Handle	ASTM A182 303SS	ASTM A182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

Seal and Seat Temperature Rating:

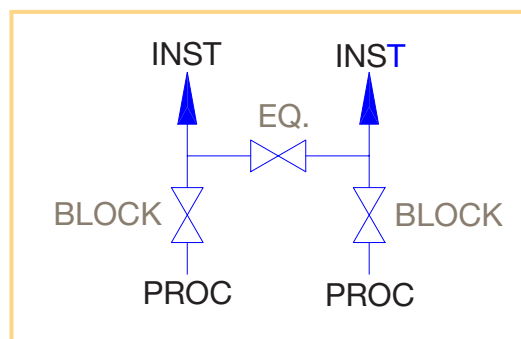
Code	Description	Min. Temperature	Max. Temperature
A	TFE/P	15°F (-10°C)	400°F (204°C)
V	FKM	-20°F (-29°C)	400°F (204°C)
P	Pressure Core	-40°F (-40°C)	450°F (232°C)
T	PTFE	-65°F (-54°C)	450°F (232°C)
G	Graphite	-70°F (-56°C)	1000°F (537°C)
	CS Body	-70°F (-56°C)	800°F (427°C)

Note: Grafoil™ is suitable for services in excess of 1000°F in a non-oxidizing environment.

Pressure vs. Temperature:



Flow Diagram for all Manifolds:



Note: Body material specifications based on ASME B16.34 - 2013. Packing material ratings based on manufacturer's specifications. Approximations only. Parker does not represent these values as finite. They are provided only as representative values.

P3M3H™/P6M3H™ : Model Numbering System

Parker	Orifice Size	Type	Inlet Size & Type	Outlet Size & Type	Material	Packing	Seat	Stem Tip	
P	3=3/16"	M3H	8F = 1/2" FNPT	8F = 1/2" FNPT	SS=ASTM A182 316/316L	A=TFE/P	Integral (leave blank)	B=316SS Ball Tip	
	6=3/8"		FL = Flange	FL = Flange	SC=ASTM A105 CS*	V=FKM		BC=Ceramic Ball Tip	
			4PT = 1/4" PTFree	4PT = 1/4" PTFree	CS=ASTM A108 CS*	T=PTFE		BM=Monel™ Ball Tip	
			6PT = 3/8" PTFree	6PT = 3/8" PTFree	C5=ASTM A350 LF2	G=Graphite			
			8PT = 1/2" PTFree	8PT = 1/2" PTFree	N4=Monel™ 400	P=Pressure Core			
					N6=Inconel™ 625				
					N8=Inconel™ 825				
					N2=Hastelloy™ C276				
EXAMPLE: P3M3H8F8FSSTB = 3/16" Orifice, 3-Valve Manifold, 1/2" FNPT Inlet, 1/2" FNPT Outlet, 316 SS Body, PTFE Packing, Integral Seat, Ball Tip Stem									
P	3	M3H	8	F	8	F	SS	T	B
*For code applications, A105 CS must be selected for CS valves. Code grade bolts must be specified for code applications. Note: Standard Bolting Options, CS - carbon steel, Gr.8, zinc plated bolts; SS - stainless steel, 18.8 (304SS) bolts.									

Option Codes	Description
LB	Bonnet Lock
OC	Oxygen/Chlorine Clean
TG	SS Tag
SGI	Sour Gas ISO NACE Latest Rev.
N4	Monel™ 400 Stem
N5	Monel™ 500 Stem
N6	Inconel™625 Stem
N8	Inconel™825 Stem
N2	Hastelloy™ C276 Stem
H(V)MB	Horizontal (Vertical) Mounting Bracket
H(V)MBS	SS Horizontal (Vertical) Mounting Bracket
S6	316 SS Bolts
225CS	2.25" CS Bolts
225S4	2.25" 304 SS Bolts
225S6	2.25" 316 SS Bolts
TB	1/4" FNPT Test Ports Bottom
PB	1/4" FNPT Purge Ports Bottom
B7	AISI 4140/4142 QT
B8MC1	Class 1, 316SS, ST
B8MC2	Class 2, 316SS, ST, SH

Code Bolting Information
1. B7, B8C1, B8MC1, B8C2, B8MC2 are code grades to ASTM A193;
2. To specify code grade bolting, example: 225B7 indicates 2.25" bolt length; B7 grade, alloy steel, AISI 4140/4142
3. QT-Quenched & Tempered; ST-Carbide Solution Treated; SH-Strain Hardened

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.					

Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call 1-800-C-Parker.

MARKET	KEY MARKETS	KEY PRODUCTS		
 AEROSPACE	Aircraft Engines Commercial Commerical Transports Military Aircraft Regional Transports	Business and General Aviation Land-Based Weapons Systems Missiles and Launch Vehicles Unmanned Aerial Vehicles	Flight Control Systems & Components Fluid Conveyance Systems Fluid Metering Delivery & Atomization Devices Fuel Systems & Components	Hydraulic Systems & Components Inert Nitrogen Generating Systems Pneumatic Systems & Components Wheels & Brakes
 CLIMATE CONTROL	Agriculture Food, Beverage and Dairy Precision Cooling Transportation	Air Conditioning Life Sciences & Medical Processing	Co2 Controls Electronic Controllers Filter Driers Hand Shut-Off Valves Hose & Fittings	Pressure Regulating Valves Refrigerant Distributors Safety Relief Valves Solenoid Valves Thermostatic Expansion Valves
 ELECTRO-MECHANICAL	Aerospace Life Science & Medical Packaging Machinery Plastics Machinery & Converting Semiconductor & Electronics Factory Automation	Machine Tools Paper Machinery Primary Metals Textile Wire & Cable	AC/DC Drives & Systems Electric Actuators, Gantry Robots & Slides Electrohydrostatic Actuation Systems Electromechanical Actuation Systems Human Machine Interface	Linear Motors Stepper Motors, Servo Motors Drives & Controls Structural Extrusions
 FILTRATION	Food & Beverage Life Sciences Mobile Equipment Power Generation Transportation	Industrial Machinery Marine Oil & Gas Process	Analytical Gas Generators Compressed Air & Gas Filters Condition Monitoring Engine Air, Fuel & Oil Filtration & Systems	Hydraulic, Lubrication & Coolant Filters Process, Chemical, Water Microfiltration Filters Nitrogen, Hydrogen & Zero Air Generators
 FLUID and GAS HANDLING	Aerospace Agriculture Bulk Chemical Handling Construction Machinery Food & Beverage Fuel & Gas Delivery	Industrial Machinery Mobile Oil & Gas Transportation Welding	Brass Fittings & Valves Diagnostic Equipment Fluid Conveyance Systems Industrial Hose	PTFE & PFA Hose, Tubing & Plastic Fittings Rubber & Thermoplastic Hose & Couplings Tube Fittings & Adapters Quick Disconnects
 HYDRAULICS	Aerospace Aerial lift Agriculture Construction Machinery Forestry	Industrial Machinery Mining Oil & Gas Power Generation & Energy Truck Hydraulics	Diagnostic Equipment Hydraulic Cylinders & Accumulators Hydraulic Motors & Pumps Hydraulic Systems Hydraulic Valves & Controls	Power Take-Offs Rubber & Thermoplastic Hose & Couplings Tube Fittings & Adapters Quick Disconnects
 PNEUMATICS	Aerospace Conveyor & Material Handling Factory Automation Life Science & Medical	Machine Tools Packaging Machinery Transportation & Automotive	Air Preparation Brass Fittings & Valves Manifolds Pneumatic Accessories Pneumatic Actuators & Grippers Pneumatic Valves & Controls	Quick Disconnects Rotary Actuators Rubber & Thermoplastic Hose & Couplings Structural Extrusions Thermoplastic Tubing & Fittings Vacuum Generators, Cups & Sensors
 PROCESS CONTROL	Chemical & Refining Food, Beverage & Dairy Medical & Dental	Microelectronics Oil & Gas Power Generation	Analytical Sample Conditioning Products & Systems Fluoropolymer Chemical Delivery Fittings, Valves & Pumps High Purity Gas Delivery Fittings, & Valves & Regulators	Instrumentation Fittings, Valves Regulators Medium Pressure Fittings & Valves Process Control Manifolds
 SEALING and SHIELDING	Aerospace Chemical Processing Consumer Energy, Oil & Gas Fluid Power General Industrial	Information Technology Life Sciences Military Semiconductor Transportation	Dynamic Seals Elastomeric O-Rings Emi Shielding Extruded & Precision-Cut, Fabricated Elastomeric Seals	Homogeneous & Inserted Elastomeric Shapes High Temperature Metal Seals Metal & Plastic Retained Composite Seals Thermal Management

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! CAUTION !

Do not mix or interchange component parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Parker Autoclave Engineers Valves, Fittings, and Tools are not designed to interface with common commercial instrument tubing and are designed to only connect with tubing manufactured to Parker Autoclave Engineers AES specifications. Failure to do so is unsafe and will void warranty.

WARNING

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