

CHART RECORDER MANIFOLD

3/16" Bore Chart Recorder Manifold

The P3CR3S™ and P3CR5S™ manifolds are designed to use with chart recorder style orifice meters. These manifolds feature a 3/16" bore in a roddable straight through design which minimizes plugging. These manifolds are constructed from bar stock and feature robust stems. This design ensures a bubble tight seal. Bonnets are pinned for security.



Standard Features

Benefits

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



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

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



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

Packing below stem threads



Prevents corrosion of critical stem threads

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



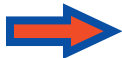
Mitigates risk of stress cracking

Stem threads are rolled, not cut



Higher quality stem for longer service life

8 RMS stem finish



Extended packing life

V-Style Teflon™ packing



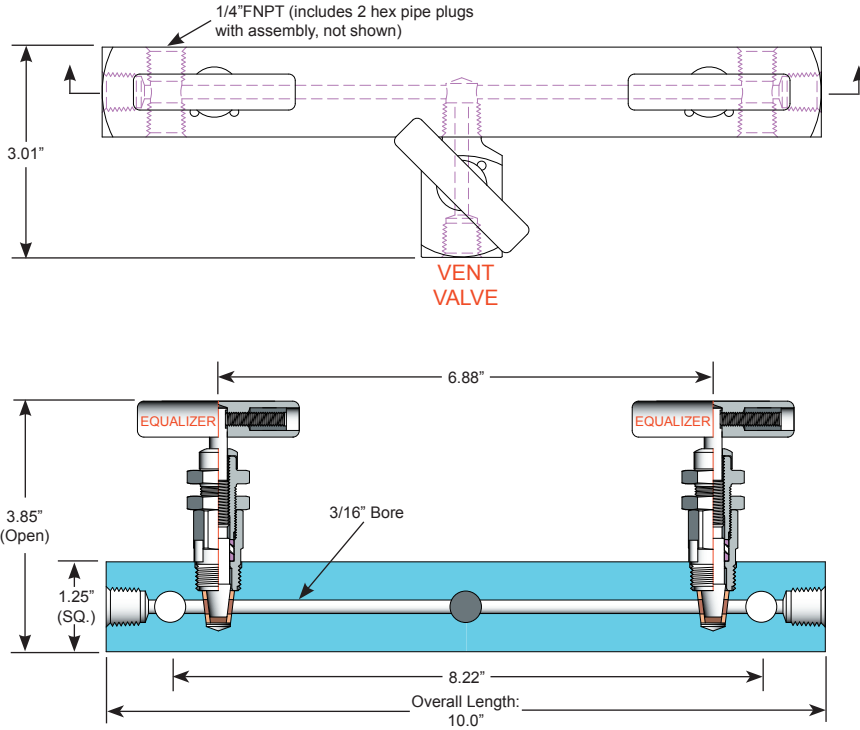
30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves

Pressure component materials sourced from the US, Canada or Europe



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

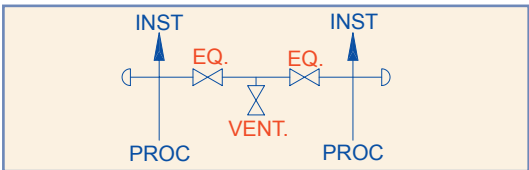
P3CR3S with Packed Bonnet Assembly



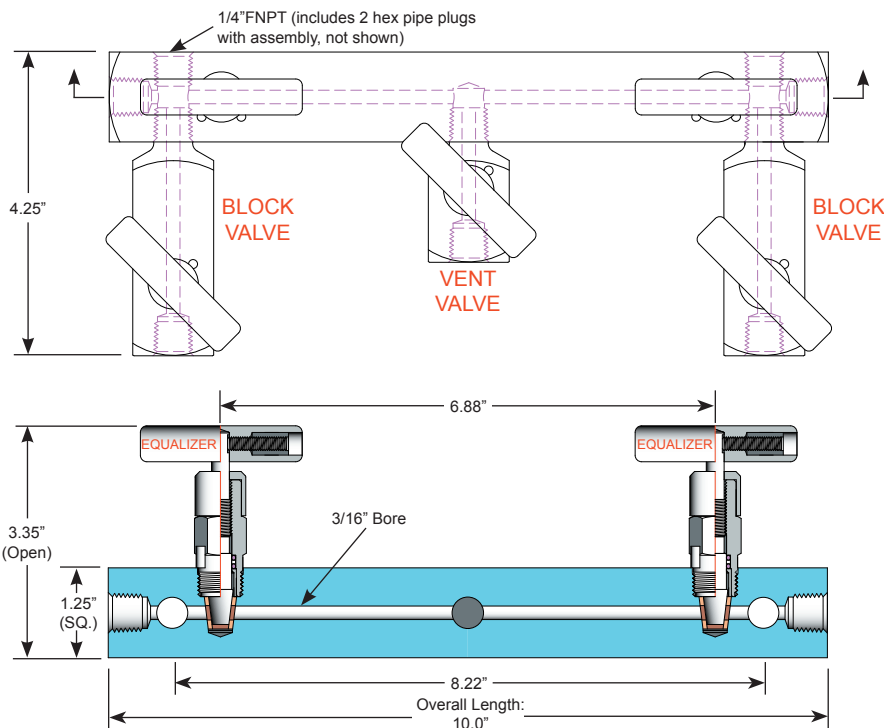
Specifications:

Type: **P3CR3S** Chart Recorder, Roddable Pattern
 Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
 Stem: Tapered Plug Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: 1/4" FNPT
 Outlet Connections: 1/4" FNPT
 Vent Connection: 1/4" FNPT
 Bonnet Lock: Pin or Plate
 Body Stock: 10.0" x 1.25" x 1.25"
 Weight: 5.45 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available



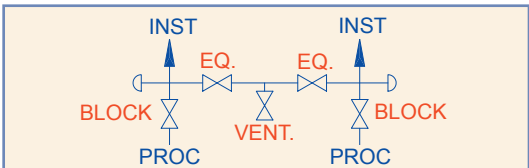
P3CR5S with O-ring Bonnet Assembly



Specifications:

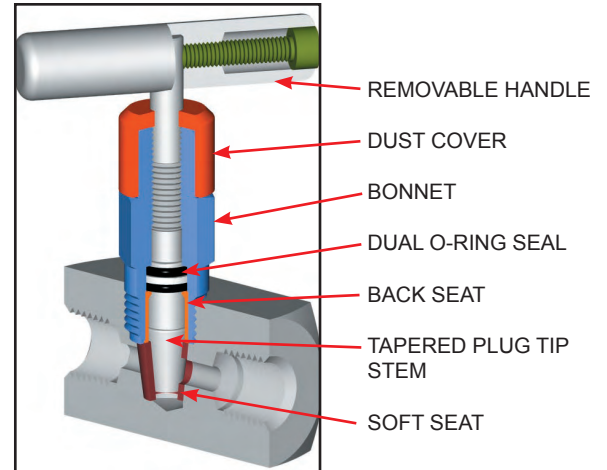
Type: **P3CR5S** Chart Recorder, Roddable Pattern
 Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
 Stem: Tapered Plug Tip
 Packing: Aflas™, Viton™ O-ring or Teflon™
 Seat: Delrin™
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: 1/4" FNPT
 Outlet Connections: 1/4" FNPT
 Vent Connection: 1/4" FNPT
 Bonnet Lock: Pin or Plate
 Body Stock: 10.0" x 1.25" x 1.25"
 Weight: 7.88 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available



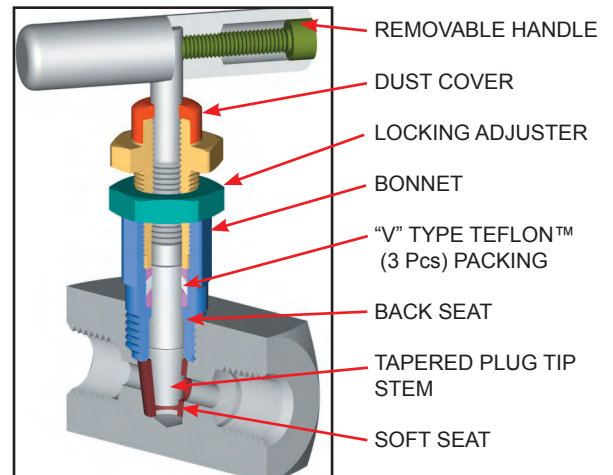
O-Ring Bonnet Assembly

Standard Materials					
Valve	Body	Bonnet	Stem	Insert	Handle
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108CS	ASTM A108CS
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS

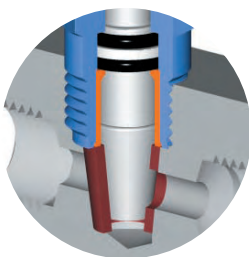


Teflon™ Bonnet Assembly

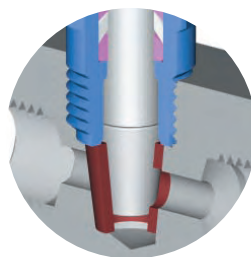
Standard Materials					
Valve	Body	Bonnet	Stem	Adjuster	Handle
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108CS	ASTM A108CS
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 303SS	ASTM A582 303SS
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 303SS	ASTM A582 303SS



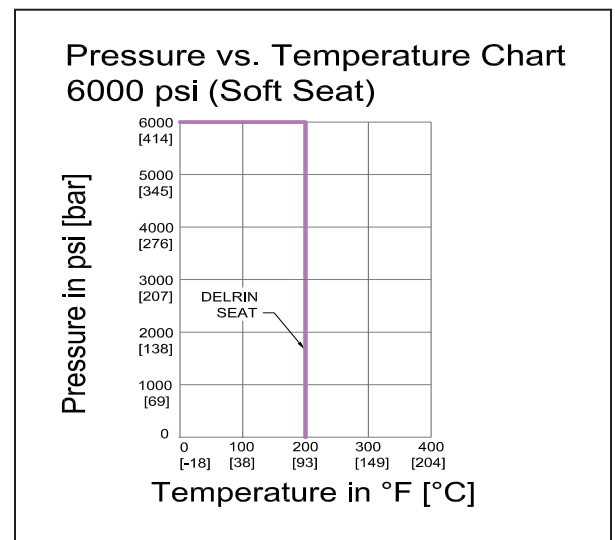
Stem and Seat Configurations



Tapered plug tip stem with O-ring seal



Tapered plug tip stem with Teflon™ packing



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 Type	Outlet Type	Material	Packing	Seat
P	3=3/16"	CR3S= 3-Valve	4F= 1/4" FNPT	4F= 1/4" FNPT	SS=ASTM A182 316/316L	A=Aflas™	D=Delrin™
		CR5S= 5-Valve			SC=ASTM A105 CS	V=Viton™ (FKM)	
					CS=ASTM A108 CS	T=Teflon™ (PTFE)	
EXAMPLE: P3CR5S4F4FSSVD = Phoenix, 3/16" Orifice, Chart Recorder, 5-Valve, 1/4"FNPT x 1/4"FNPT, 316SS material, Viton O-ring Seal, Delrin™ Seat							
P	3	CR5S	4F	4F	SS	V	D
Includes 1/4" Pipe Plugs: 2 pipe plugs for both P3CR3S and P3CR5S configurations.							

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

Seal and Seat Material 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)

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