

**10,000 PSI MULTIPOINT GAUGE VALVE**

**3/16" Bore 10,000 psi Multipoint Gauge Valve**

Phoenix's certified 10,000 psi multipoint gauge valves are proof tested to 20,000 psi and burst tested to 53,000 psi without yield, as per ASME Section VIII, MSS SP-99 and MSS SP-105. These valves feature packing below the threads, back seating capability, blowout proof stem and large 'T' handle for comfort and easy operation.



**Special Features**

Proof tested to 20,000 psi, burst tested to 53,000 psi without yield

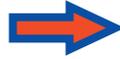


**Benefits**

Certified 10,000 psi valve rating, CRN No. 0C06740.2

**Standard Features**

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



**Benefits**

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.



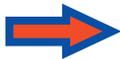
Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.

Packing below stem threads



Prevents corrosion of critical stem threads

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



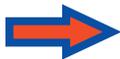
Mitigates risk of stress cracking

Stem threads are rolled, not cut



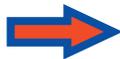
Higher quality stem for longer service life

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

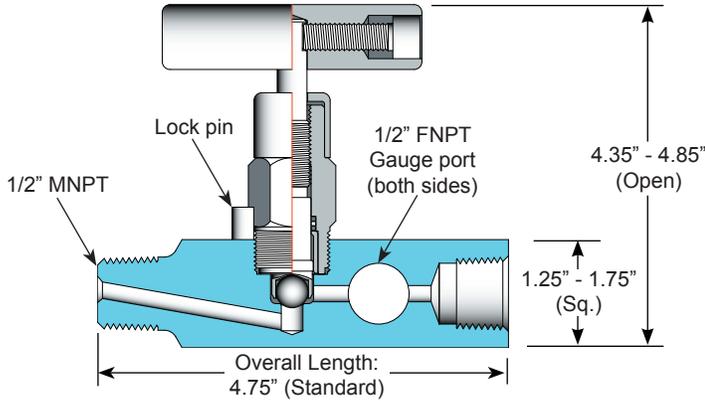
Pressure component materials sourced from the US, Canada or Europe



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

# P3G10H™ Multiport Gauge Valve Technical Specifications

## O-ring Bonnet Gauge Valve

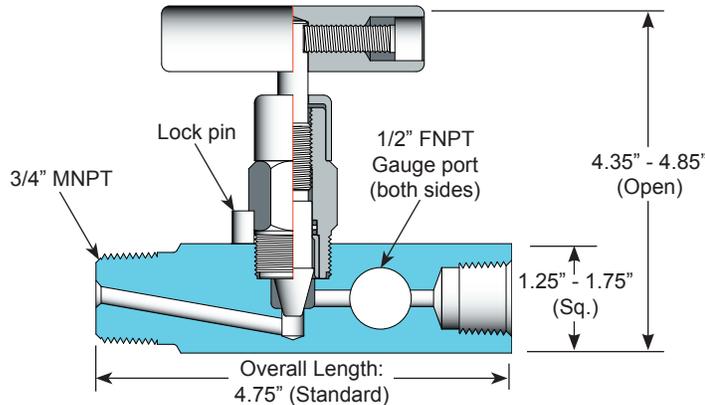


### Specifications:

Type: **P3G10H** valve, Globe Pattern  
 Rating: Up to 10,000 psi @ 100°F  
 (68950 kPa @ 38°C)  
 Stem: Needle tip or Ball tip  
 Packing: Viton™, Aflas™ O-ring or Teflon™  
 Seat: Integral  
 Handle: Removable  
 Bore Size: 3/16"  
 Inlet Connections: 1/4" to 3/4" NPT, 1" for male only  
 Outlet Connections: 1/4" to 3/4" NPT  
 Gauge Ports: 1/2" FNPT (2)  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.25" - 1.75" sq.  
 Weight: 2.2 - 2.8 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.

## O-ring Bonnet Gauge Valve

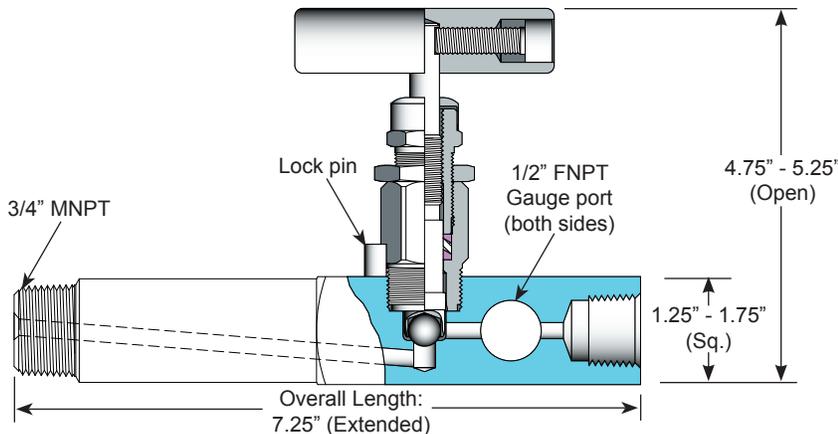


### Specifications:

Type: **P3G10H** Valve, Globe Pattern  
 Rating: Up to 10,000 psi @ 100°F  
 (68950 kPa @ 38°C)  
 Stem: Needle tip or Ball tip  
 Packing: Viton™, Aflas™ O-ring or Teflon™  
 Seat: Integral  
 Handle: Removable  
 Bore Size: 3/16"  
 Inlet Connections: 1/2" to 3/4" NPT, 1" for male only  
 Outlet Connections: 1/2" to 3/4" NPT  
 Gauge Ports: 1/2" FNPT (2)  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.25" - 1.75" sq.  
 Weight: 2.2 - 2.8 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.

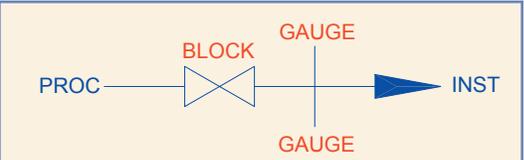
## Packed Bonnet Gauge Valve (Extended)



### Specifications:

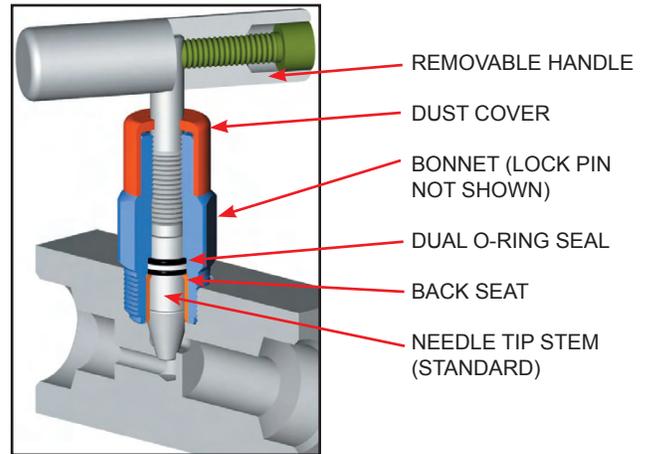
Type: **P3GL10H** Valve, Globe Pattern  
 Rating: Up to 10,000 psi @ 100°F  
 (68950 kPa @ 38°C)  
 Stem: Needle tip or Ball tip  
 Packing: Viton™, Aflas™ O-ring or Teflon™  
 Seat: Integral  
 Handle: Removable  
 Bore Size: 3/16"  
 Inlet Connections: 1/4" to 3/4" NPT, 1" for male only  
 Outlet Connections: 1/2" to 3/4" NPT  
 Gauge Ports: 1/2" FNPT (2)  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.25" - 1.75" sq.  
 Weight: 2.9 - 3.5 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.



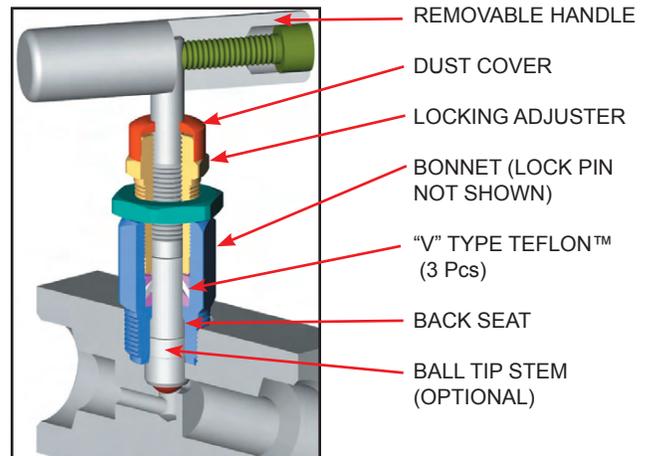
## O-Ring Bonnet Assembly

Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES ON PAGE 4	Dual Viton™ O-ring with Teflon™ backup ring
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS		
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS		

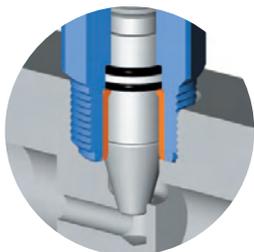


## Packed Bonnet Assembly

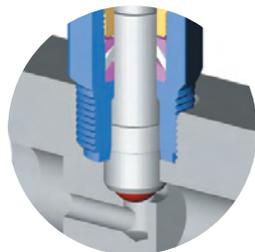
Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES ON PAGE 4	Teflon™
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS		
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS		



## Stem and Seat Configurations

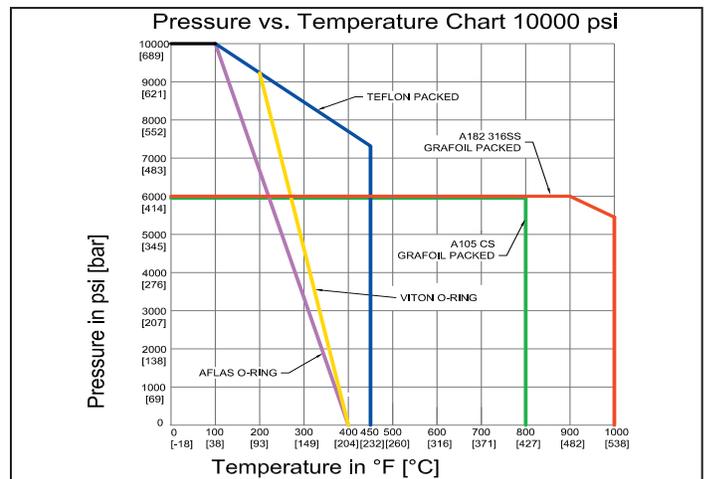


Needle Tip  
(Standard)



Ball Tip  
(Optional)

Gauge Valve Accessories	
	<p><b>Standard 1/2" Plug: PP8M</b> Specifications: Rating: 10000 psi @ 100°F (68950 kpa @ 38°C) Hex Size: 3/4" Weight: 0.15 lbs (Length: 1") *Add SS for A182 316SS, CS for A108CS</p>



Note: Body material specifications based on ASME B16.34 - 2009. 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.

# P3G10H™ Multiport Gauge Valve Model Numbering System

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip
P	3=3/16"	G10H	8=1/2"	F=FNPT	8=1/2"	F=FNPT	SS=ASTM A182 316/316L	A=Aflas™	Integral (leave blank)	Needle Tip Standard (leave blank)
		GL10H**	12=3/4"	M=MNPT	12=3/4"	M=MNPT	SC=ASTM A105 CS*	V=Viton™ (FKM)		B=316SS Ball Tip
		GXL10H**	16=1" Male only		16=1" Male only		CS=ASTM A108 CS*	T=Teflon™ (PTFE)		BC=Ceramic Ball Tip
		G10HD=Heavy Duty					C5=ASTM A350 LF2			BM=Monel™ Ball Tip
							N4=Monel™ 400			
							N6=Inconel™ 625			
							N8=Inconel™ 825			
							N2=Hastelloy™ C276			
EXAMPLE: P3G10H8M8FSSVB = Phoenix, 3/16" Orifice, G10H, 1/2" MNPT Inlet, 1/2" FNPT Outlet, 316 SS Body, FKM Packing, Integral Seat, 316 SS Ball Tip Stem										
<b>P</b>	<b>3</b>	<b>G10H</b>	<b>8</b>	<b>M</b>	<b>8</b>	<b>F</b>	<b>SS</b>	<b>V</b>		<b>B</b>
*For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves. **GL10H for extended length valve body, GXL10H for extra extended length valve body, consult Phoenix Precision for details. <b>Note: This model is available in Grafoil™ packing at a 6000 psi rating.</b>										

Option Codes	Description
LB	Bonnet Lock
PP	Pipe Plug
CC	Chlorine Clean
OC	Oxygen Clean
TG	SS Tag
SGL	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

## 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)

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