

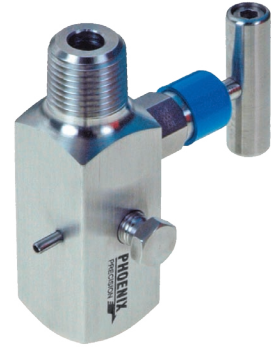
# PHOENIX™ P2B6M™ INTEGRAL BLEED VALVE

PRECISION 

## INTEGRAL BLEED VALVE

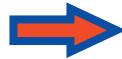
### 1/8" Bore Integral Bleed Valve

The integral bleed valve is designed to use with pressure gauges and pressure switches. The valve is built using bar stock construction, a robust stem, and bonnets pinned for security. Phoenix's globe pattern design ensures a bubble-tight seal. Phoenix offers the 1/8" valve in a variety of stem tips, materials and configurations that meet most application requirements.

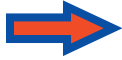


### Standard Features

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



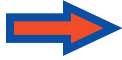
Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.



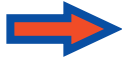
Packing below stem threads



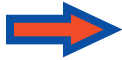
Metal body-to-bonnet seals are in compression, not tension



Stem threads are rolled, not cut



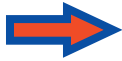
8 RMS stem finish



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 packing life

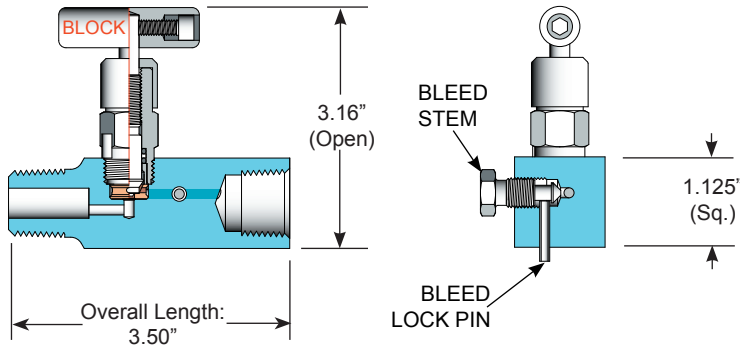
30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves

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

Solutions for Oil & Gas and Petrochemical Processing  
[www.phoenixprecisionvalves.com](http://www.phoenixprecisionvalves.com)



### O-Ring Bonnet Configuration

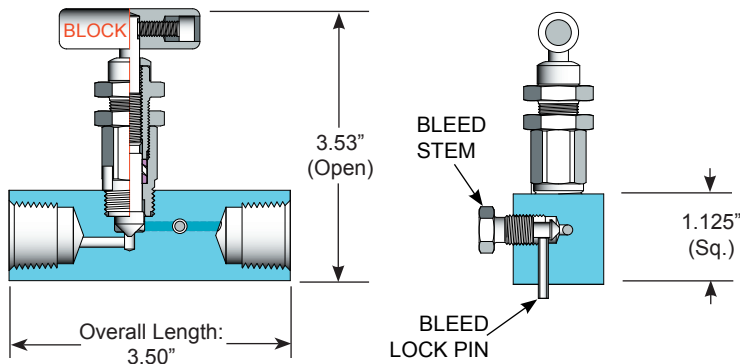


#### Specifications:

Type: **P2B6M** Valve, Globe Pattern  
 Rating: Up to 6000 psi @ 100°F  
 (41370 kPa @ 38°C)  
 Stem: Needle tip or Flat tip  
 Packing: Viton™ O-ring, Teflon™ or Grafoil™  
 Seat: Integral or Soft seat  
 Handle: Removable  
 Bore Size: 1/8"  
 Inlet Connections: 1/2" NPT, SW or FT, (3/4" for male NPT, SW Only)  
 Outlet Connections: 1/2" NPT, SW or FT  
 Bleed Port: 1/8" Pin  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.125" sq  
 Weight: 1.10 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.

### Teflon™ Bonnet Configuration

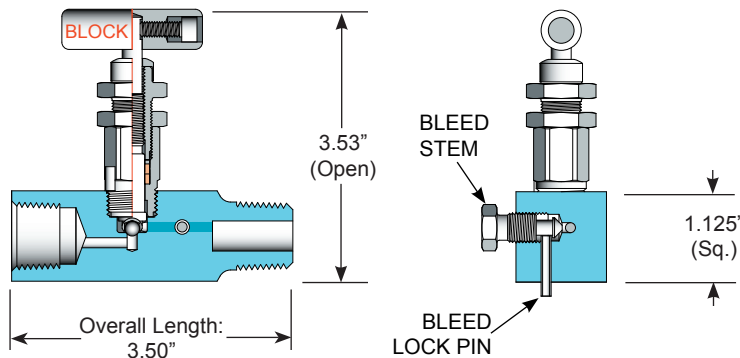


#### Specifications:

Type: **P2B6M** Valve, Globe Pattern  
 Rating: Up to 6000 psi @ 100°F  
 (41370 kPa @ 38°C)  
 Stem: Needle tip or Ball tip  
 Packing: Viton™ O-ring, Teflon™ or Grafoil™  
 Seat: Integral  
 Handle: Removable  
 Bore Size: 1/8"  
 Inlet Connections: 1/2" NPT, SW or FT, (3/4" for male NPT, SW Only)  
 Outlet Connections: 1/2" NPT, SW or FT  
 Bleed Port: 1/8" Pin  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.125" sq  
 Weight: 1.15 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.

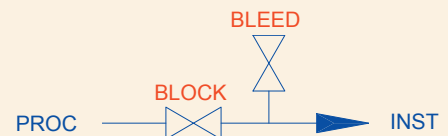
### Grafoil™ Bonnet Configuration



#### Specifications:

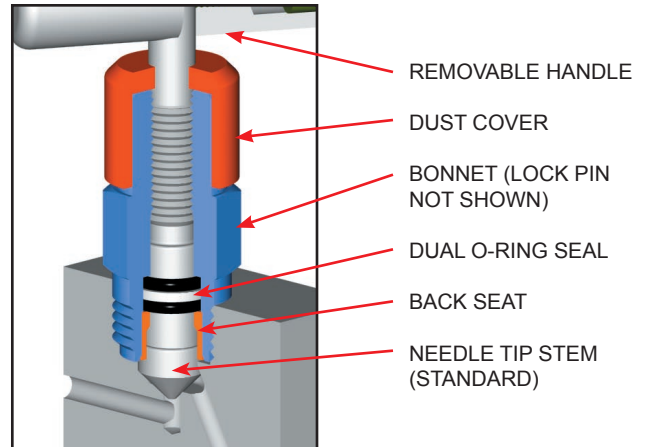
Type: **P2B6M** Valve, Globe Pattern  
 Rating: Up to 6000 psi @ 100°F  
 (41370 kPa @ 38°C)  
 Stem: Needle tip or Ball tip  
 Packing: Viton™ O-ring, Teflon™ or Grafoil™  
 Seat: Integral  
 Handle: Removable  
 Bore Size: 1/8"  
 Inlet Connections: 1/2" NPT, SW or FT, (3/4" for male NPT, SW Only)  
 Outlet Connections: 1/2" NPT, SW or FT  
 Bleed Port: 1/8" Pin  
 Bonnet Lock: Pin or Plate  
 Body Stock: 1.125" sq  
 Weight: 1.15 lbs  
 Special Service: O<sub>2</sub> or CL cleaning available\*

\*Other specifications or services may be available.



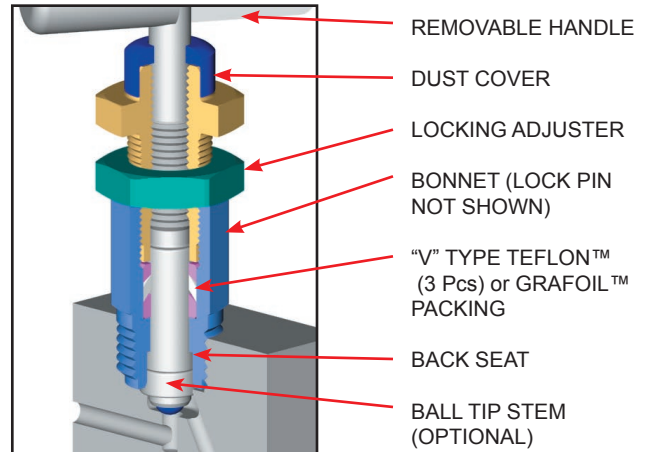
### O-Ring Bonnet Assembly

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



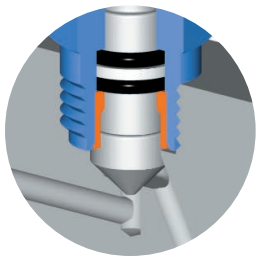
### Packed Bonnet Assembly

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

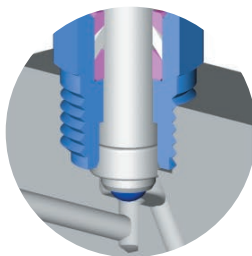


NOTE: Low torque Grafoil<sup>TM</sup> available (G4 Packing Code)

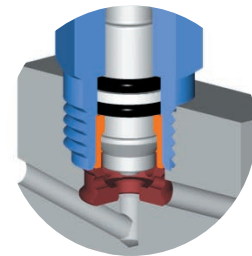
### Stem and Seat Configurations



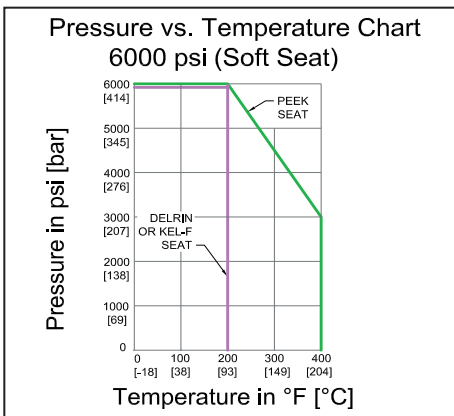
Needle Tip (Standard)



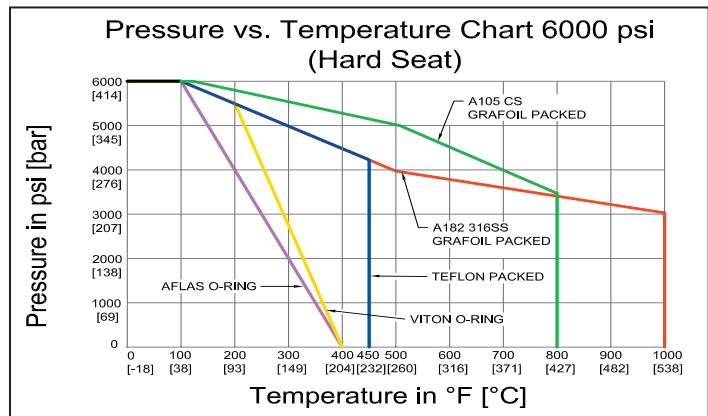
Ball Tip (Optional)



Flat Tip (Soft Seat)



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.



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.

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip
P	2=1/8"	B6M	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)
			12=3/4" (Male only)	M=MNPT	12=3/4" (Male only)	M=MNPT	SC=ASTM A105 CS**	V=Viton™ (FKM)	D=Delrin™	B=316SS Ball Tip
				MS*=Male Socket weld		MS*=Male Socket weld	CS=ASTM A108 CS**	T=Teflon™ (PTFE)	P=Peek™	BC=Ceramic Ball Tip
				FS*=Female Socket weld		FS*=Female Socket weld	C5=ASTM A350 LF2	G=Grafoil™		BM=Monel™ Ball Tip
				FT=Female Tube Fitting		FT=Female Tube Fitting	N4=Monel™ 400	G4=Low Torque Grafoil™		
							N6=Inconel™ 625			
							N8=Inconel™ 825			
							N2=Hastelloy™ C276			
EXAMPLE: P2B6M8M8FSSV = Phoenix, 1/8" Orifice, Integral Bleed Valve, 1/2" MNPT Inlet, 1/2" FNPT Outlet, 316 SS Body, Viton™ O-ring Packing, Needle Tip Stem										
<b>P</b>	<b>2</b>	<b>B6M</b>	<b>8</b>	<b>M</b>	<b>8</b>	<b>F</b>	<b>SS</b>	<b>V</b>		
*For socket weld (SW) connections, specify MS or FS. **For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.										

Option Codes	Description
LB	Bonnet Lock
CC	Chlorine Clean
OC	Oxygen Clean
TG	SS Tag
SGI	Sour Gas ISO NACE Latest Rev.
RA (R)(B)	Round Handle Aluminum (Red)(Blue)
RC	Round Handle CS
RS	Round Handle SS
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 for all 316SS valves and A105CS body/316SS bonnet (SC Material Code)

### 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)
P	Peek™	-40°F (-40°C)	400°F (204°C)
G	Grafoil™ (SS Body)	-70°F (-56°C)	1000°F (537°C)
	Grafoil™ (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.

### For further information please contact:



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