

## P3B6H™ INTEGRAL BLEED VALVE

### **INTEGRAL BLEED VALVE**

#### 3/16" 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. The valve's globe pattern provides maximum shut-off. Phoenix offers the 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.



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

**Benefits** 

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



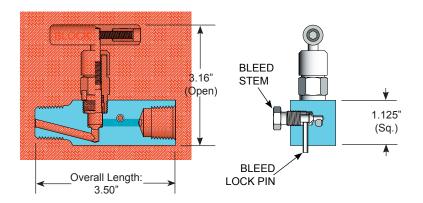
Reliable material traceability. MTR's provided with every order for pressure containing components.



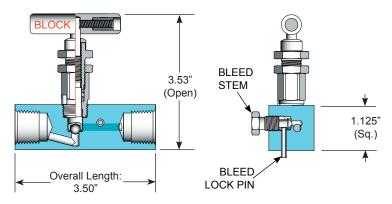


# P3B6H™ Integral Bleed Valve Technical Specifications

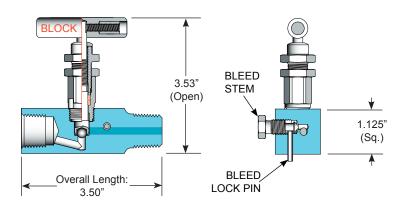
# O-Ring Bonnet Configuration



### Teflon™ Bonnet Configuration



### Grafoil™ Bonnet Configuration



#### Specifications:

Type: P3B6H 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: 3/16", 1/8" for Bleed

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: 1.13 lbs

Special Service: O2 or CL cleaning available\*

\*Other specifications or services may be available.

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Bleed Port: 1/8" Pin Bonnet Lock: Pin or Plate Body Stock: 1.125" sq Weight: 1.19 lbs

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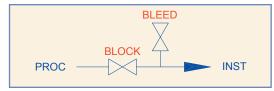
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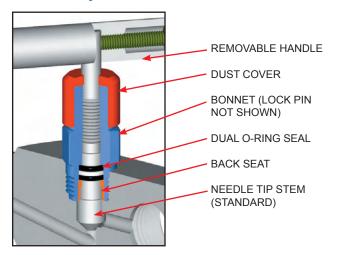




# P3B6H™ Integral Bleed Valve Bonnet, Stem and Seat Characteristics

#### O-Ring Bonnet Assembly

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



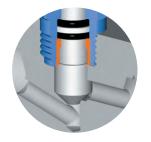
# Teflon™ or Grafoil™ Bonnet Assembly

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

NOTE: Low torque Grafoil™ available (G4 Packing Code)

# REMOVABLE HANDLE DUST COVER LOCKING ADJUSTER BONNET (LOCK PIN NOT SHOWN) "V" TYPE TEFLON™ (3 Pcs) or GRAFOIL™ PACKING BACK SEAT BALL TIP STEM (OPTIONAL)

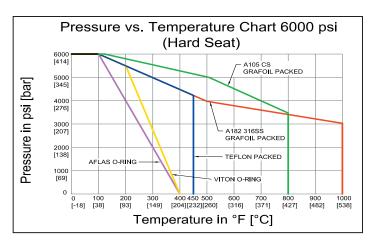
# Stem and Seat Configurations



Needle Tip (Standard)



Ball Tip (Optional)



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.



# P3B6H™ Integral Bleed Valve Model Numbering System

Phoenix	Orifice Size	Туре	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip	Option Codes	Description
Р	3=3/16" B6H	В6Н	6H 8=1/2"	F=FNPT	8=1/2"	F=FNPT	SS=ASTM A182	A=Aflas™	(leave Stand	Needle Tip	LB	Bonnet Lock
							316/316L			(leave blank)	СС	Chlorine Clean
			12=3/4"	M=MNPT	12=3/4"	M=MNPT	SC=ASTM	V=Viton™		B=316SS	ОС	Oxygen Clean
			(Male only)		(Male only)		A105 CS**	(FKM)		Ball Tip	TG	SS Tag
				MS*=Male Socket weld		MS*=Male Socket weld	CS=ASTM A108 CS**	T=Teflon™ (PTFE)		BC=Ceramic Ball Tip	SGI	Sour Gas ISO NACE Latest Rev.
				FS*=Female Socket weld		FS*=Female Socket weld	C5=ASTM A350 LF2	G=Grafoil™		BM=Monel™ Ball Tip	RA (R)(B)	Round Handle Aluminum (Red)(Blue)
				FT=Female Tube Fitting		FT=Female Tube Fitting	N4=Monel™ 400	G4=Low Torque Grafoil™			RC	Round Handle CS
							N6=Inconel™ 625				RS	Round Handle SS
							N8=Inconel™ 825				N4	Monel™ 400 Stem
							N2=Hastelloy™ C276				N5	Monel™ 500 Stem
EXAMPL	E: P3B6H	I H8M8FSSV = Pho Vtio		I 6" Orifice, Inte g Packing, Ne			MNPT Inlet, 1/2"	FNPT Outlet	, 316 SS I	Body,	N6	Inconel <sup>™</sup> 625 Stem
Р	3	В6Н	8	M	8	F	ss	V			N8	Inconel <sup>™</sup> 825 Stem
	*For socket weld (SW) connections, specify MS or FS.  **For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.								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
Α	Aflas™	15°F (-10°C)	400°F (204°C)
V	Viton™	-20°F (-29°C)	400°F (204°C)
Т	Teflon™	-65°F (-54°C)	450°F (232°C)
G	Grafoil™ (SS Body) (CS Body)	-70°F (-56°C) -70°F (-56°C)	1000°F (537°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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