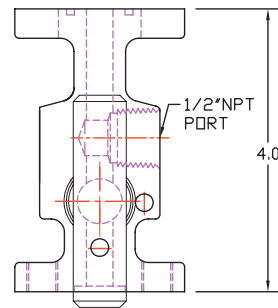
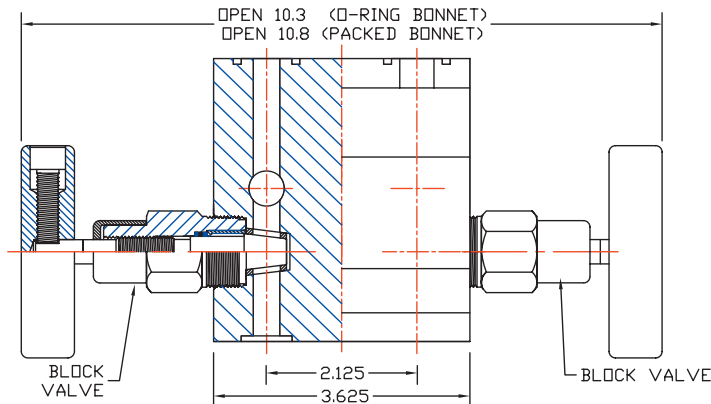
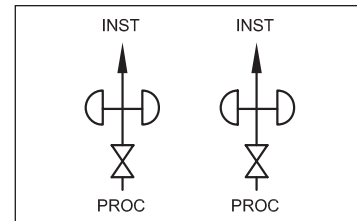
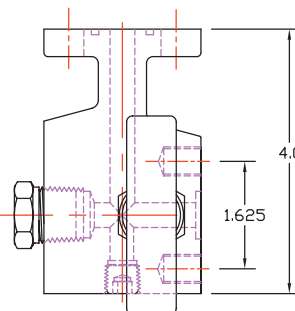
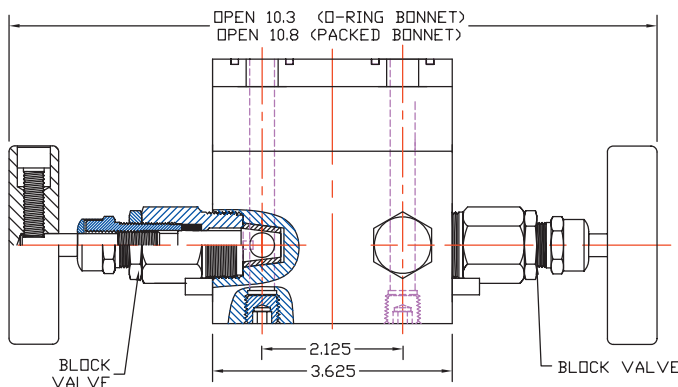
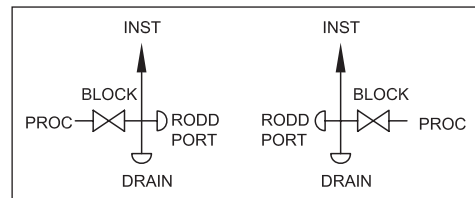


Phoenix Precision's 2-valve block manifolds (MB2S) are designed to use in conjunction with 5-valve manifolds (M5S) to eliminate the need to blow down the entire meter run when performing maintenance or moving measurement equipment to another site. They provide additional clearance needed in certain applications. The 2-valve block is available in both straight (MB2S) and 90 degree (MBA2S) configurations to accommodate both vertical and horizontal-to-vertical applications. MB2S has large handles with rounded corners for easy, comfortable application. As with all Phoenix manifolds, they are 100% hydrostatically and seat leakage tested per ASME B31.1 and MSS-SP 105. If looking for a more economical, compact installation, please review Phoenix's new stabilized connector with block valve (ST6S).

P6MB2SFLFL Series, 3/8" Bore, FLANGE X FLANGE



P6MBA2SFLFL Series, 90° Angle, 3/8" Bore, FLANGE X FLANGE





Type: 2-Valve Manifold, Gas Pattern
Rating: up to 6000 psi @ 100°F
(41370 kPa @ 38°C)
Stem: Needle tip or Non-rotating
Packing: FKM or Aflas™ O-ring,
PTFE Packed
Seat: Soft (Delrin™, Peek™ or Kel-f™)
Handle: Removable

Weight: MB2S = 7.2 lbs,
MBA2S = 9.2 LBS
Bore Size: 3/8" Primary
Inlet Connection: Flange
Outlet Connection: Flange
Bonnet Lock: Pin or Plate
Special Service: H₂S or O₂ available

* Other specifications or services may be available. Please contact Phoenix for your specific requirements.

MODEL NUMBERING SYSTEM

Phoenix	Orifice Size	Type	Inlet	Outlet	Material	Packing	Seat	Option Code
P	6=3/8"	MB2S	FL=Flange	FL=Flange	SS=ASTM A182 316/316L	A=Aflas™	D=Delrin™	DI=Dielectric
		MBA2S			SC=ASTM A105 CS*	V=FKM	P=Peek™	OR=Viton™ O-ring Flange Seal
					CS=ASTM A108 CS*	T=PTFE	K=Kel-F™	
EXAMPLE: P6MB2SFLFLSSVD = 3/8" Orifice, Flange Inlet, Flange Outlet, 316SS, Viton™ Packing, Delrin™ Seat								
P	6	MB2S	FL	FL	SS	V	D	

*For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.

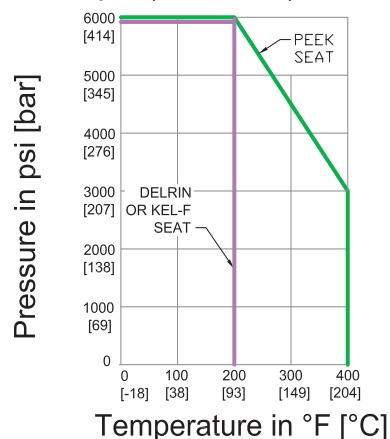
Materials of Construction

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 A582 303SS	ASTM A582 303SS	ASTM A108 CS

Seal & Seat Temperature Rating

Code	Description	MIN. TEMP	MAX. TEMP
A	Aflas™	15°F (-10°C)	400°F (204°C)
V	FKM	-20°F (-29°C)	400°F (204°C)
T	PTFE	-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)
K	Kel-F™	-100°F (-73°C)	200°F (93°C)

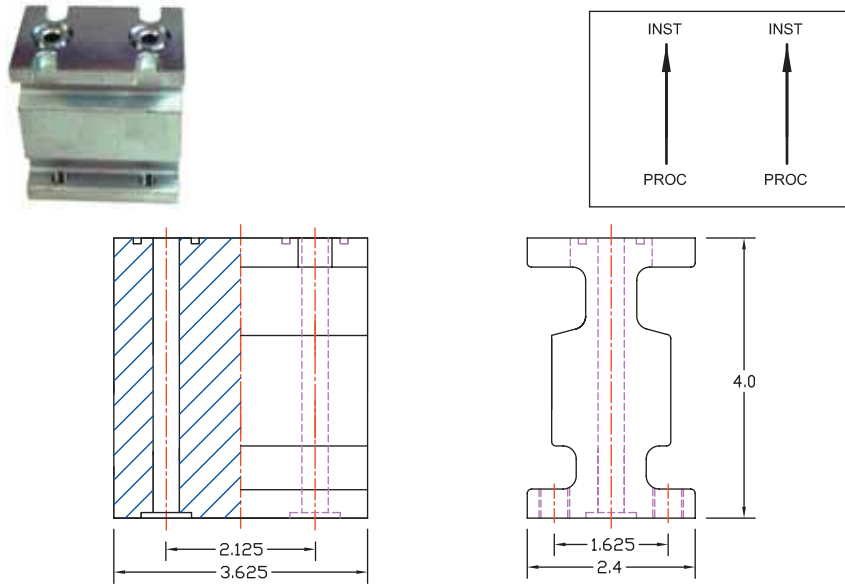
Pressure vs. Temperature Chart
6000 psi (Soft Seat)



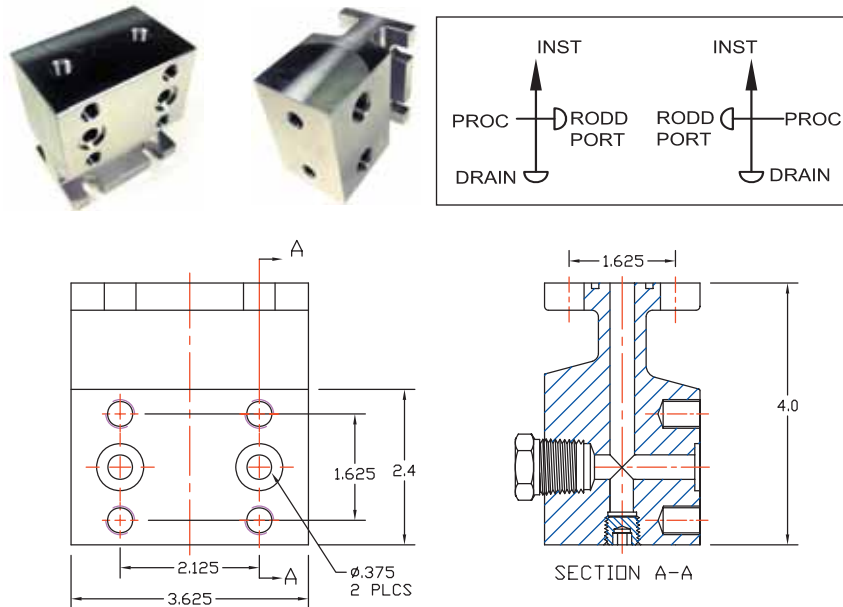
Note: Packing materials based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

Phoenix Precision's valveless adapters (VA) are available in both straight and 90 degree (VAA) configurations to provide additional clearance and to facilitate the utilization of existing inventory of both vertical and horizontal-to-vertical applications.

P6VAFLFL Series, 3/8" Bore, FLANGE X FLANGE



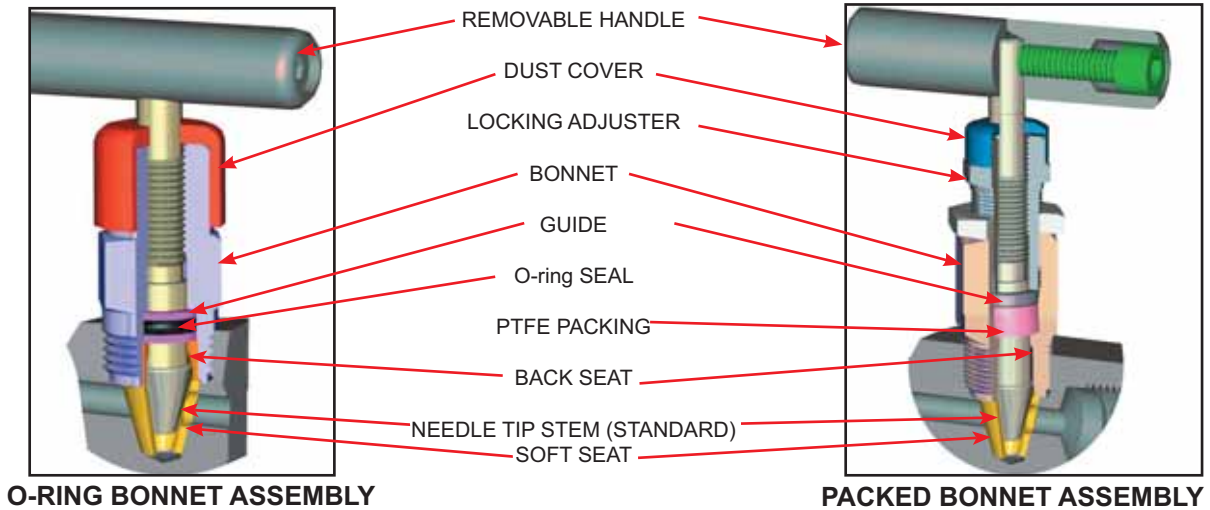
P6VAAFLFL Series, 90° Angle, 3/8" Bore, FLANGE X FLANGE



MODEL NUMBERING SYSTEM

Phoenix	Orifice Size	TYPE	Inlet	Outlet	Material	Options
P	6=3/8"	VA	FL=Flange	FL=Flange	CS=ASTM 108 CS	OR=O-ring Flange Seals
		VAA = 90 Deg.			SS=ASTM A182 Gr 316/316L	
Example: P6VAFLFLCS = 3/8" Orifice, Flanged Inlet, Flanged Outlet, A108CS Body						
P	6	VA	FL	FL	CS	

BLOCK VALVE DESIGN DETAILS



For further information please contact:

Phoenix Precision Ltd.
2620 21st Street N.E.
Calgary, Alberta T2E 7L3
Phone:(403) 291-3154
Fax: (403) 291-3292
email: phoenix@phoenixprecision.ca
www.phoenixprecision.ca

Distributor:



Phoenix Precision Ltd. (PPL) provides the information herein in good faith but makes no representation as to its comprehensiveness or accuracy. This data sheet is intended only as a guide to PPL products and services. Individuals using this data sheet must exercise independent judgment in evaluating product selection and determining product appropriateness for their particular purpose and system requirements. PPL MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT(S) TO WHICH THE INFORMATION REFERS. ACCORDINGLY, PPL WILL NOT BE RESPONSIBLE FOR DAMAGES (OF ANY KIND OR NATURE, INCLUDING INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES) RESULTING FROM THE USE OF OR RELIANCE UPON THIS INFORMATION. Patents and Patents Pending in the U.S. and foreign countries. PPL reserves the right to change product designs and specifications without notice.

DELTRIN, VITON and TEFLON are registered trademarks (hereinafter referred to as TM) of E.I. Du Pont De Nemours and Company Corporation. PEEK is a registered TM of Whitford Worldwide Company and Whitford B.V. KEL-F is a registered TM of M.W. Kellogg Company. GRAFOIL is a registered TM of High Temperature Materials Inc. and Graftech INC. Corporation. AFLAS is a registered TM of Asahi Glass Co. Ltd. Corporation Japan. MONEL and INCONEL are registered TMs of Huntington Alloys Corporation. HASTELLOY is a registered TM of Haynes International, Inc.

© 2007 by Phoenix Precision Ltd. All rights reserved. Material in this brochure or catalogue may not be reproduced in whole or in part, in any form, without written permission from the publisher.