



Breakthrough
engineering for
a better world

Process Automation

IMI PBM



PSV Switching Valve 1/2" to 6"

CL 150 & CL 300

Design Features:

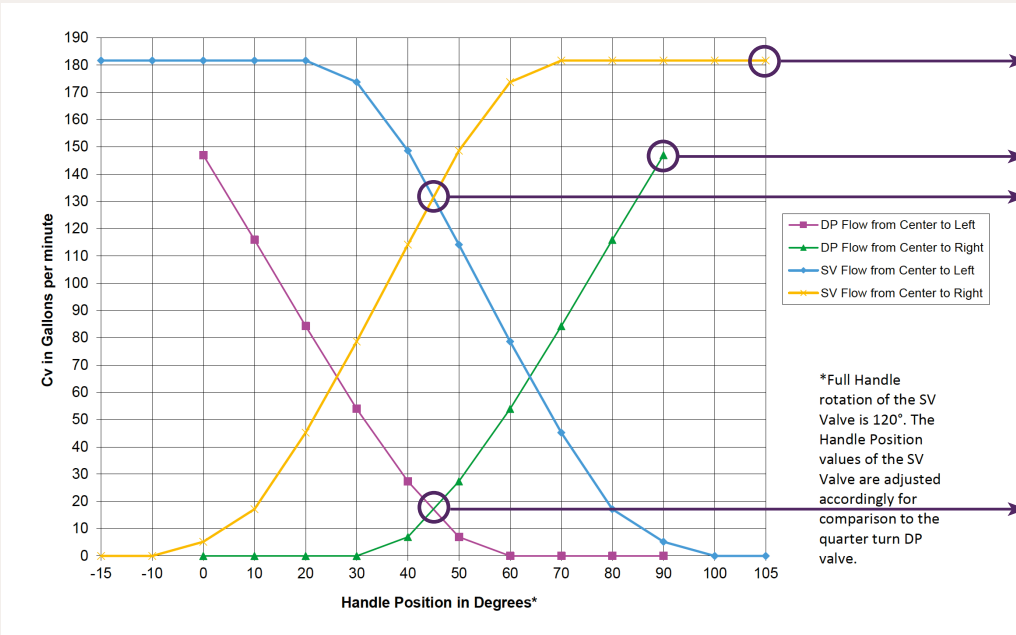
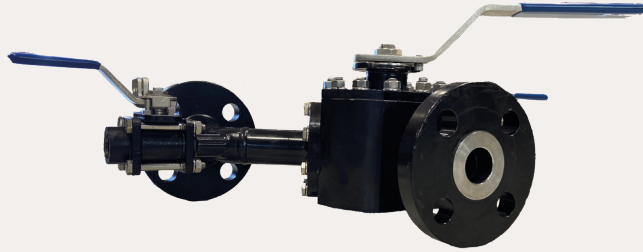
- 3-Way Multi-Port Switching Valve
- Trunnion Mounted Ball is captured mechanically and seals bi-directionally on both PSV ports
- Full Port or IMI PBM True-Bore® design
- 120° porting for fast, 120° operation - minimizes PSV system interruption
- Low pressure drop at full flow
 - < 3% - no need to upsize piping to accommodate a 90° Diverter Valve pressure drop
- Live loaded packing
- Flexible design configuration
 - Can be used with any material, end connection, bleed valve/connection
 - Cryogenic designs available
 - Custom configurations to fit existing piping
- Quality - Manifold assembly manufactured complete in controlled factory environment
- Reduced installation times - "Plug & Play"

Size	CV Values (gpm)	
	Cv Pressure Class 150	Cv Pressure Class 300
1"	38.0	36.6
1 1/2"	99.6	90.9
2"	181.7	154.2
3"	416.8	353.2
4"	704.3	696.6
6"	1769.3	N/A

SPECIFICATIONS

Industrial 3-Way, Multi-Port PSV Switching Valve

Sizes	1/2" to 6" - Series 5
Material	316/316L, Alloy 20, Carbon Steel, Hastelloy, Inconel, other available
Temperatures	-325°F to 400°F for V-TEF™ seats, higher temperature seat/seal materials available
End Connections	Flanged, NPT, butt weld, socket weld
Seats, Seals and Stem Packings	C-TEF™, S-TEF®, V-TEF™, others available (API 622 Low Emissions Packing available)
Body Bolts & Nuts	A193/A194
Maximum Working Pressure	275 psig CWP for CL150, 720 psig CWP for CL300 (for 316/316L)



The IMI PBM Advantage

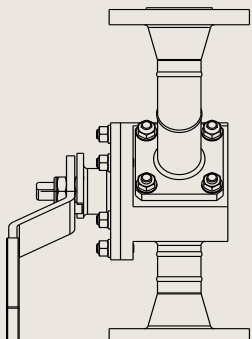
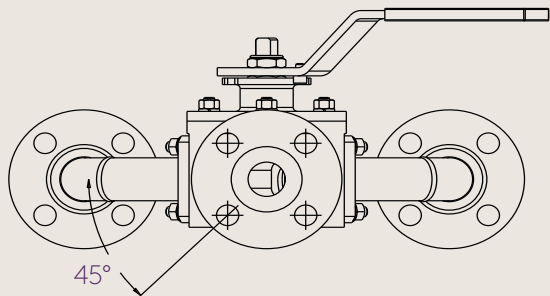
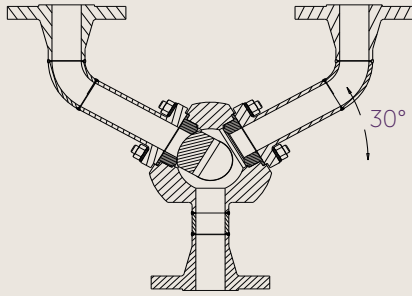
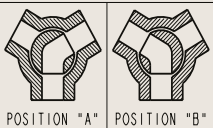
MAX CV
Standard DP = 145
IMI PBM SV = 180

MIDSTROKE
Standard DP = 17
IMI PBM SV = 130

*Full Handle rotation of the SV Valve is 120°. The Handle Position values of the SV Valve are adjusted accordingly for comparison to the quarter turn DP valve.

FLOW PATTERN #52

3-WAY, SIDE ENTRY, ANGLE PORT, 120°



Find out more pbmvalve.com



The information in this brochure is provided for informational/promotional purposes only and is "as is" and without warranties of any kind whether express or implied, including, but not limited to implied warranties of satisfactory quality, fitness for a particular purpose and/or correctness. Any specifications, features pricing, or availability contained in this bulletin are subject to change without prior notice. IMI Critical ENGR PBM LLC does not represent or warrant that the information and/or specification in this bulletin are accurate, complete, or current and therefore make no warranties or representation regarding the use of the content. IMI plc or one of its subsidiaries own all images, logos, product brands and trademarks mentioned in this bulletin. Unauthorized use, reproductions or modification of this content is prohibited. © Copyright 2024 IMI Critical ENGR PBM LLC. PB-PSV-RB24. All Rights Reserved.