

IMI PBM IGENIX® 2-WAY STEAM VALVE

SD Cast Series9/Forged Series 8, ISO 1127, DN8 - DN50



DESIGN FEATURES:

- Unique Adjust-O-Seal® feature allows in-line valve adjustment to compensate for normal wear on valve seats
- **SD Series Steam valves have o-rings**
- Valves are a three-piece "swing-out" body design
- Upstream and downstream bubble-tight sealing capability allows valve body cleaning, purging, and draining
- Stem assembly accommodates IMI PBM Direct Mount Actuation for accurate alignment and increased cycling life
- Forged and cast valves are low-controlled ferrite
- True-Bore® (valve bore same as connecting tubing) – no puddling (Except DN8 & DN10)
- ASME BPE compliant
- USP Class VI elastomers and FDA compliant materials
- Valves are rated to full vacuum
- Material Test Report (MTRs) provided for wetted components
- Surface finishes are achieved without the use of ADIs (Animal Derived Ingredients)



SPECIFICATIONS	2-Way Valves
Sizes	DN8 - DN150 Series 9, DN15 - DN100 Series 8 (DN8 & DN10 in Series 8 is Ext. tube only)
Material	Low ferrite cast and forged 316L material. Castings (Series 9) comply with A351, Alloy CF3M and/or A479, Alloy S31603. Forgings (Series 8) comply with A182, Alloy F316L/1.4404 and/or A479, Alloy S31603. Also available are Hastelloy™, AL6XN™, others
End Connections	Extended tube, hygienic clamp, please refer to PB-CE89 for compression ends, others available
Seats & Seals	White V-TEF™ standard, others available
Filler / Seat Options	VTFE Cavity Fillers, V-TEF™, S-TEF®, UHMWPE Seats
O-rings	O-ring seal (FKM V1274, EPR E3609, others available)
Body Bolts & Nuts	Locking Lever, 2" Stem Extension, Oval Handwheel, Grounding
Maximum Working Pressure	See table below
Temperatures	up to 232°C depending on seat and seal material
Finish	Standard internal polish of 0.5µ-m Ra ID Series 8, 0.75µ-m Ra ID Series 9, other finishes available

CV Values (liters/minute), Series 8/Series 9		
Size	End Connections	
	F-	
DN 8	30	
DN 10	69	
DN 15	139	
DN 20	279	
DN 25	442	
DN 32	736	
DN 40	1,210	
DN 50	2,325	

Polish Options - Standard 0.75µ-m Ra ID, Series 9, 0.5 µ-m Ra ID, Series 8	
A* (Cast only)	0.5 µ-m Ra ID
D	0.375 µ-m Ra ID
E	0.25 µ-m Ra ID
F	0.50 µ-m Ra ID after EP
G	0.375 µ-m Ra ID after EP
H	0.25 µ-m Ra ID after EP
M	Electropolish

316L S/S Pressure Ratings at Ambient (BARG)		
SIZE	SERIES 8	SERIES 9
DN 8	41.37	62.05
DN 10	41.37	62.05
DN 15	41.37	62.05
DN 20	41.37	49.64
DN 25	41.37	49.64
DN 40	41.37	49.64
DN 50	41.37	49.64

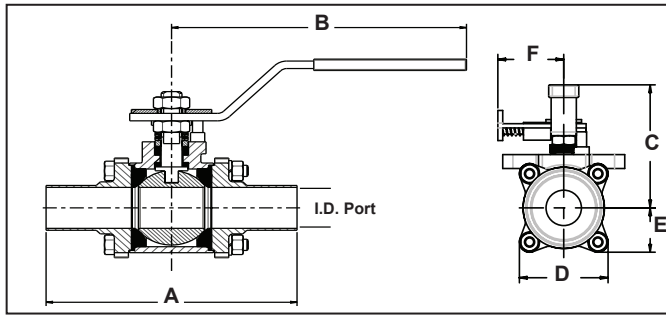
ISO 1127 Tube Weld End Dimensions		
DN8 = 13.5mm OD x 1.6mm Wall	DN10 = 17.2mm OD x 1.6mm Wall	DN15 = 21.3mm OD x 1.6mm Wall
DN20 = 26.9mm OD x 1.6mm Wall	DN25 = 33.7mm OD x 2mm Wall	DN32 = 42.4mm OD x 2mm Wall
DN40 = 48.3mm OD x 2mm Wall	DN50 = 60.3mm OD x 2mm Wall	

How To Order:

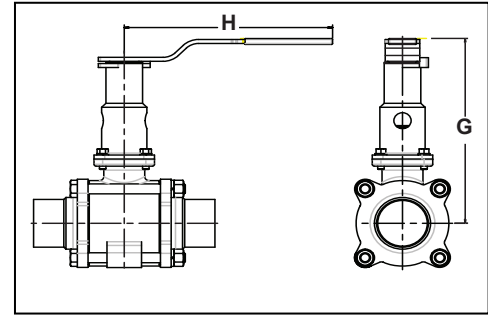
PRODUCT (1-2) MATERIAL (3-4)	SIZE (5) SERIES (6)	END CONN. (7-8)	SEAT & SEAL (9)	PURGES (10-11)	BALL & STEM (12)	OPERATOR (13-14)	POLISH (15-16)						
SD HF 35	F316L Forged Low Ferrite F316L / DIN 1.4404	1 8 8	F - Ext. Butt-weld for Tube	G	V-TEF™ Seats / Seals FKM O-Rings	- - No Purge Port or Ball Option	- Standard Ball and Stem	- W/ Standard Lever Handle	- 0.75 µm ID (Std. Series 9)				
										2 10 9	J	V-TEF™ Seats / Seals / VTFE Cav Fill / FKM O-Rings	- 8 Self Flushing Ball
	316L Cast Body, 1.4435 Weld Ends, Low Ferrite	3 15	Z	V-TEF™ Seats / Seals EPR O-Rings	- V Slotted V-Ball	G 17-4PH Stem	04 Locking Lever Handle	D 0.375 µm ID					
		4 20							- W 30° V-Ball	08 Gear Operator	E 0.25 µm ID		
		5 25							- X 45° V-Ball	18 Extended Handle (DN50)	F 0.50 µm ID after Electro Polish		
		6 32							- Y 60° V-Ball	71 Extended Handle (DN8 thru DN40)			
		7 40							H	S-TEF® Seats / Seals FKM O-Rings	Other Purge Port & Ball Options - Contact PBM	20 DA 80psig actuator	G 0.375 µm ID after Electro Polish
		8 50							0	S-TEF® Seats / Seals EPR O-Rings		27 DA 60psig actuator	
	9	V-TEF™ Seats / Seals FEP Encaps. FKM O-Rings	Other Seat/seal options available - contact PBM	34 SR 80psig actuator	H 0.25 µm ID after Electro Polish								
				41 SR 60psig actuator									

IMI PBM Industrial 2-Way Steam Valve, Manual

2-Way Valve with Locking Handle



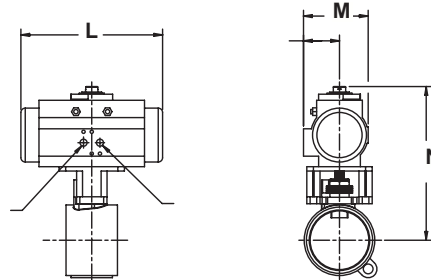
2-Way Valve with Extended Lockable Handle



Clean Steam Sanitary Dimensioned valves in mm									Locking Handle		Ext. Locking Handle		
Valve Size	Size Code	I.D. Port	A	B	C	D	E	Approx. Wgt (kg)	F	Hole Dia. for Lock	G	H	Hole Dia. for Lock
DN 8	1	10.3	139.7	101.6	52.1	38.1	19.1	0.5	39.4	7.1	101.6	129.3	7.9
DN 10	2	14.0	152.4	101.6	56.4	42.9	21.6	0.6	39.4	7.1	105.7	129.3	7.9
DN 15	3	18.1	165.1	105.4	76.2	55.4	27.7	1.3	41.1	6.4	138.2	129.3	7.9
DN 20	4	23.7	190.5	223.8	124.7	84.2	42.1	4.0	65.3	9.7	189.5	203.2	9.7
DN 25	5	29.7	190.5	223.8	124.7	84.2	42.1	4.0	65.3	9.7	189.5	203.2	9.7
DN 32	6	38.4	190.5	223.8	124.7	84.2	42.1	4.0	65.3	9.7	189.5	203.2	9.7
DN 40	7	44.3	203.2	204.0	118.6	109.2	54.6	7.1	65.3	9.7	196.6	203.2	9.7
DN 50	8	56.3	292.1	306.3	165.5	141.7	70.9	16.9	88.1	9.7	288.5	306.3	9.7

ACTUATED DIMENSIONS

Unit of Measure = mm
Dimensions based on actuators used with V-TEF™ seats.



80 PSI Spring Return						60 PSI Spring Return					60, 80 PSI Double Acting				
Size	L	M	N	P	R	L	M	N	P	R	L	M	N	P	R
DN 8	141.0	70.9	138.4	40.9	1/8" NPT	164.1	80.5	149.9	45.0	1/8" NPT	141.0	70.9	138.4	40.9	1/8" NPT
DN 10	141.0	70.9	142.0	40.9	1/8" NPT	164.1	80.5	153.4	45.0	1/8" NPT	141.0	70.9	142.0	40.9	1/8" NPT
DN 15	164.1	80.5	165.4	45.0	1/8" NPT	210.1	94.5	183.4	52.6	1/8" NPT	141.0	70.9	153.9	40.9	1/8" NPT
DN 20	240.8	105.9	245.1	58.4	1/8" NPT	275.1	122.9	257.9	68.1	1/4" NPT	210.1	94.5	231.1	52.6	1/8" NPT
DN 25	240.8	105.9	245.1	58.4	1/8" NPT	275.1	122.9	257.9	68.1	1/4" NPT	210.1	94.5	231.1	52.6	1/8" NPT
DN 32	240.8	105.9	245.1	58.4	1/8" NPT	275.1	122.9	257.9	68.1	1/4" NPT	210.1	94.5	231.1	52.6	1/8" NPT
DN 40	275.1	122.9	265.4	68.1	1/4" NPT	333.0	136.9	299.7	72.9	1/4" NPT	210.1	94.5	238.5	52.6	1/8" NPT
DN 50	333.0	136.9	342.4	72.9	1/4" NPT	372.1	148.1	354.6	80.0	1/4" NPT	333.0	136.9	342.4	72.9	1/8" NPT

Manual Valves with Tube Ends when used with insulation		
Tube OD	Insulation max with no extension	Insulation max with extension
12.7	19.3	68.1
19.1	20.1	69.1
25.4	36.8	98.6
38.1	78.7	141.5
50.8	58.7	142.2
63.5	101.6	225.6
76.2	103.6	225.6
101.6	110.5	231.6



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