IMI PBM IGENIX[®] CLEAN STEAM TRAP VALVES () IMI PBM[™] CT Cast Series 9/Forged Series 8, 1/2" - 2"

DESIGN FEATURES:

- Dual chamber seat design allows for a 1/2" Tri-Clamp[®] steam drain purge port positioned in the valve body to facilitate drainage of the body cavity to the trap.
- Two steam purge holes allows steam condensate to flow past seats in the closed position to the trap.
- Unique Adjust-O-Seal[®] feature allows in-line valve adjustment to compensate for normal wear on valve seats.
- CT Series Clean Steam Trap valves have o-rings.
- Forged and cast valves are low-controlled ferrite.
- True-Bore[®] (valve bore same as connecting tubing) no puddling
- ASME BPE compliant
- USP Class VI elastomers and FDA compliant materials
- Valves are rated to full vacuum.
- Certified Material Test Report (CMTRS) provided for wetted components.
- Surface finishes are achieved without the use of ADIs (Animal Derived Ingredients).



SPECIFICATIONS	2-Way Valves
Sizes	1/2" - 2" Series 8 & 9
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, extended buttweld, hygienic clamp
Seats & Seals	White V-TEF™ standard, others available
O-rings	EPR O-ring energizer, FKM O-ring energizer, others available
Stem Packing Material	V-TEF™ and S-TEF®
Body Bolts & Nuts	18-8 Stainless Steel
Maximum Working Pressure	up to 900 psig CWP depending on valve series, size and temperature
Temperatures	up to 450°F depending on seat and seal material
Polish	Standard internal polish of 20 Ra ID Series 8, 30 Ra ID Series 9

CV Values (gpm), Series 8/Series 9									
Cizo	End Connections								
5120	F-	Х-							
1/2″	6.5	8							
3/4″	23	28							
1″	55	65							
1-1/2″	160	193							
2″	365	420							

ID Surface Finish, Ra Readings for Valves per ASME BPE													
Surface Finish	IMI PBM Polish Code	μ-in.	μ - m.										
Mechanical Polish													
SF 1	А	20 Ra max	0.51										
SF 2	А	25 Ra max	0.64										
SF 3	-	30 Ra max	0.76										
Mechanical Polish and Electropolish													
SF 4	G	15 Ra max	0.38										
SF 5	F	20 Ra max	0.51										
SF 6	F	25 Ra max	0.64										

How To Order:

i N	PRODUCT (1-2) MATERIAL (3-4)		SIZE (5) SERIES (6)		E	END CONNECTIONS (7-8)		SEAT & SEAL (9)		PURGES (10-11)		BALL & STEM (12)		OPERATOR (13-14)		POLISH (15-16)	
ст	HL	Cast (Ser. 9) 316L S / S	с	1/2"	8	F-	Ext. Buttweld for Tube	G	V-TEF™ Seats / Seals FKM O-Rings		Clamp on ctr opposite stem	-	Standard Ball and Stem		W/ Standard Lever Handle	-	30 Ra ID (Std. Series 9)
	HF	Forged 316L S / S	D	3/4"	9	FX	Ext. Buttweld for Tube by Hygienic Clamp	I	V-TEF Seats / Seals / VTFE Cav Fill / FKM O-Rings	Holes in close downstr. Pos	Holes in close downstr. Pos.	F	Internal / External Grounding	02	W/O Handle W/ Stem Actuator Prep	А	20 Ra ID (Std. Series 8)
	Other material		Ε	1"		Х-	Hygienic Clamp	7	V-TEF Seats / Seals		Clamp downstr.	G	17-4PH Stem	04	Locking Lever Handle	D	15 Ra ID
	optio	ns available -	G	1-1/2"				2	EPR O-Rings	DH	opposite stem Holes in open				Extended Handle	Е	10 Ra ID
	conta		н	2"				2	V-TEF Seats / Seals / VTFE					20	DA 80psig actuator		20 Ra ID after
								2	Cav Fill / EPR O-Rings		downstr. Pos.				DA 60psig actuator	ſ	Electro Polish
						н	S-TEF [®] Seats / Seals		BWTE on ctr				SR 80psig actuator	(15 Ra ID after		
				FKM O-Rings			opposite stem			41	SR 60psig actuator	G	Electro Polish				
http://pbmvalve.com/build-a-part-number					0	S-TEF Seats / Seals EPR O-Rings	но	Holes in close Oth downstr. Pos. Opt		Other Purge Port & Ball Options - Contact PBM.		Other operator options available - Contact PBM.		10 Ra ID after Electro Polish			
					9	V-TEF Seats / Seals FEP Encaps. FKM O-Rings	Othe avail	r Seat/seal options able - Contact PBM.	•				More Conta	polish available - ct PBM.			

IMI PBM Igenix® Clean Steam Trap Valves

Two-Way Sanitary Steam Trap valves use body purge port and ball purge holes to direct flow to the trap while shutting off flow downstream. Permits sampling of steam for purity and safely isolates trap for ease of maintenance.

Dead leg piping is reduced where condensate can cool and cause contamination. These valves perform three functions and also reduce costs by eliminating unnecessary welds, "T"s and piping. Valves can be installed in the vertical or horizontal position.



The **Trap Isolated Position** allows condensate to flow past the ball purge holes during normal operation, bypassing the upstream seat. Condensate flows past the purge holes in the ball and out the side port of the valve to the steam trap, allowing the body cavity to remain hot. The point-of-use, or sampling connection, is isolated by the surface of the ball without the purge holes pressing against the downstream seat.



The **Open Position** allows the flow of steam. Appropriate sampling piping or equipment connections are made at the point-of-use port, and the ball is turned 90° counterclockwise, opening the valve. The trap is isolated from flow allowing full sterilization temperature to be quickly reached. The valve is then turned 90° clockwise to return the steam trap to service in the "Trap" position.



The Closed or Service Position

allows steam trap maintenance by turning the ball 180° counterclockwise from the normal "Closed" position to the "Trap Isolated" position. As the ball is closed toward the steam-in port, it isolates the steam trap. Maintenance can then be performed on the steam trap. To return the trap to service, the ball is turned 180° clockwise to the "Trap" position.

For dimensional information please refer to Clean Steam (CS) Series 8 and 9 Product Bulletin.



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