PBM IGENIX® CLEAN STEAM TRAP VALVES CT Cast Series 9/Forged Series 8, 1/2" - 2"



Contact PBM.

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. Note: CT Series Clean Steam Trap valves have
- Forged and cast valves are low-controlled ferrite.
- True-Bore® (valve bore same as connecting tubing)
- ASME BPE compliant

SPECIFICATIONS

End Connections

Stem Packing Material **Body Bolts & Nuts**

Maximum Working Pressure

Seats & Seals

Temperatures

O-rings

Polish

Sizes Material

- USP Class VI elastomers and FDA compliant
- Valves are rated to full vacuum.
- Certified Material Test Report (CMTRS) provide
- Surface finishes are achieved without the use

V-TEF™ and S-TEF®

18-8 Stainless Steel

	necting tubing) – no puddling										
ompliant materials											
S) provided for wetted components. It the use of ADIs (Animal Derived Ingredients).											
	2-Way Valves										
	1/2" - 2" Series 8 & 9										
	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										
	Extended tube, extended buttweld, hygienic clamp										
White V-TEF™ standard, others available											
	EPR O-ring energizer, FKM O-ring energizer, others available										

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

ID Surf	ID Surface Finish, Ra Readings for Valves per ASME BPE												
Surface Finish	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:

http://pbmvalve.com/build-a-part-number

PRODUCT (1-2) MATERIAL (3-4)		SIZE (5) SERIES (6)			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	F)	Ext. Buttweld for Tube by Hygienic Clamp	J	V-TEF Seats / Seals / VTFE Cav Fill / FKM O-Rings		Holes in close downstr. Pos.	F	Internal / External Grounding	02	W/O Handle W/ Stem Actuator Prep	Α	20 Ra ID (Std. Series 8)
Other material options available - Contact PBM.		E	1"		X	- Hygienic Clamp	,	V-TEF Seats / Seals	Clamp downstr.	G	17-4PH Stem	04	Locking Lever Handle	D	15 Ra ID		
			G	1-1/2"	п		EPR O-Rings	ДΗ	onnosite stem			71	Extended Handle	Ε	10 Ra ID		
		L PDIVI.	Н	2"				V-TEF Seats / Seals / VTFE		Holes in open			20	DA 80psig actuator	-	20 Ra ID after	
								_	Cav Fill / EPR O-Rings	downstr. Pos.		7	27	DA 60psig actuator		Electro Polish	
								н	S-TEF® Seats / Seals		BWTE on ctr			34	SR 80psig actuator	,	15 Ra ID after
							FKM O-Rings		HG opposite stem			41	SR 60psig actuator	G	Electro Polish		
							0	S-TEF Seats / Seals EPR O-Rings				Purge Port & Ball ins - Contact PBM.		operator options available - ct PBM.	Н	10 Ra ID after Electro Polish	
							V-TEE Spate / Spale	Otho	r Soat /soal ontions	•			•	More	polish available -		

FEP Encaps. FKM O-Rings available - contact PBM.

up to 900 psig CWP depending on valve series, size and temperature

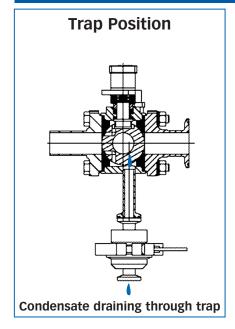
Standard internal polish of 20 Ra ID Series 8, 30 Ra ID Series 9

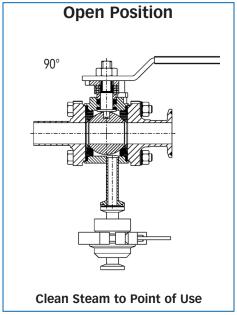
up to 450°F depending on seat and seal material

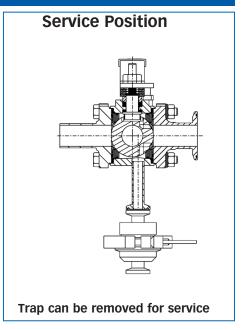
PBM Igenix® Clean Steam Trap Valves

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° counter-clockwise, 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.



http://www.pbmvalve.com/valves/clean-steam-trap-valves

http://pbmvalve.com/maintenance-instructions

www.PBMValve.com

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