CleanFLOW™ High Purity Steam Trap Test Valve Sizes 1/2" ~ 2"



CleanFLOW™ Opus™ valve is a high performance Steam Trap Test Valve designed exclusively for the high purity, pharmaceutical market. This multifunctional valve provides three states of fluid control. In the normal position, the Opus valve delivers full flow of clean steam through our "Tube I.D." porting in accordance with ASME-BPE guidelines for full flow, drainability, surface finish and materials. Two additional flow positions, Service and Trap, provide isolation of system components or the steam trap. In all cases, the OpusTM valve utilizes critical orifice designs allowing condensate to reach the steam trap. The integrated design eliminates more complex piping schemes, reduces number of components and delivers overall system value and reliability. All materials are compliant with FDA, USDA and 3A standards.

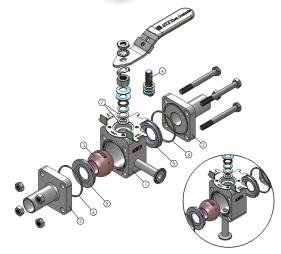
SERIES *OPUS™* DESIGN FEATURES

- High Performance Steam Trap Test Valve with three states of fluid control
- ✓ ASME-BPE compliant
- ✓ Silicone Free
- ✓ Complete 316L Stainless Steel cast construction
- ✓ Drainable design with "Tube-ID" dimensions
- ✓ ISO 5211 mounting pad for easy actuation
- Encapsulated body seals to facilitate welding without disassembly
- ✓ End connections include Tri-Clamp and Extended Tube O.D.
- √ Controlled delta ferrite chemistry
- ✓ Standard interior finish is 15Ra or better
- ✓ ETO ends are designed for Orbital Welding.
- √ Standard locking device for manual valves
- For automated systems, 2-position (90 degree) or 3-position (180 degree) can be accomplished by using different controllers (2-stage or 2-wire controller) as well as adapting to Devicenet, ASi or other logic systems

MATERIALS OF CONSTRUCTION

ITEM	DESCRIPTION	MATERIALS SPECIFICATIONS				
1	Dody	316L Stainless Steel				
ı	Body	(ASTM A351 CF3MN or ASTM A182-F)				
2	End	316L Stainless Steel				
	Connector	(ASTM A351 CF3MN or ASTM A182-F)				
3	Ball	316L Stainless Steel				
3	Dali	(ASTM A351 CF3MN or ASTM A182-F)				
4	Stem	316L Stainless Steel				
4	316111	(ASTM A351 CF3MN or ASTM A182-F)				
5	Seat	TFM1600™				
6	Body Seal	PTFE				
7	Stem Seal	TFM1600™				





There are no elastomers used for any of the components on the *OPUS™* valves. Only PTFE and TFM are used for seats and seals.

What do you need today?™





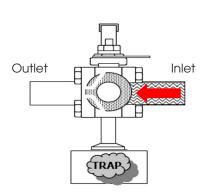




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SERVICE POSITION

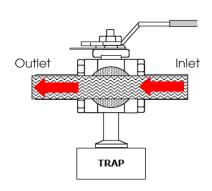


Allows for maintenance of the steam trap by rotating the handle to the Service Position.

In the Service Position, the steam trap is isolated from the steam, allowing the trap to be removed for maintenance.

Once service is completed, return the handle to the Trap or Open Position, based on your needs.

OPEN POSITION

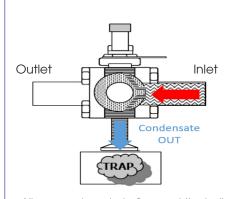


Allows the flow of steam without utilizing the steam trap.

In the Open Position, the steam trap is isolated from the flow allowing sterilization temperature to be reached.

To utilize the steam trap, rotate the handle to the Trap Position. For service, rotate the handle to the Service Position.

TRAP POSITION

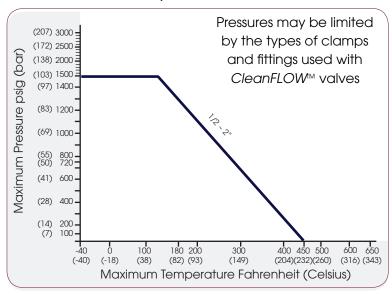


Allows condensate to flow past the ball purge holes during normal operation, bypassing the upstream seat.

In the Trap Position the valve body cavity remains hot.

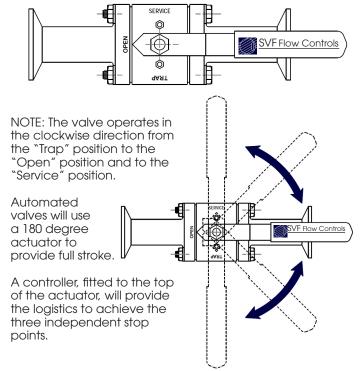
The point-of-use or sampling connection is isolated by the ball surface.

OPUS™ PRESSURE/TEMPERATURE CHART



Class 600 (Sizes: 1/2" to 2")

MANUAL OPERATION - TOP VIEW



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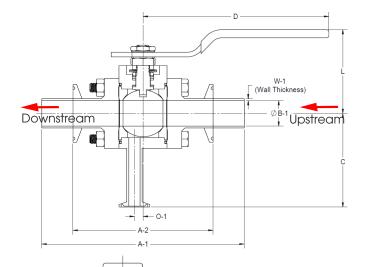
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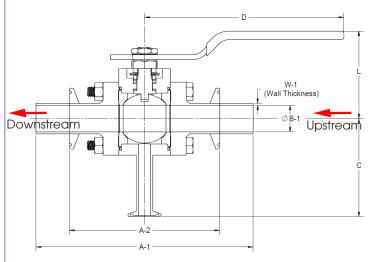
DIMENSIONS, WEIGHT, CV, TORQUE

Size	A-1		A-2		B-1		C D)	L		W-1		W-2		Weight		Cv	Torque*		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs	kg		in-lbf	Nm
1/2"	5.50	140	3.50	89	0.37	9	2	50	5	127	2.22	56	0.065	1.7	0.065	1.7	2	0.9	8	60	7
3/4"	6.00	152	4.00	102	0.62	16	2	50	5	127	2.28	58	0.065	1.7	0.065	1.7	2	0.9	29	60	7
1"	6.50	165	4.50	114	0.87	22	2	50	6	152	2.56	65	0.065	1.7	0.065	1.7	4	1.8	66	100	11
1-1/2"	7.50	191	5.50	140	1.37	35	2	50	7	178	3.09	78	0.065	1.7	0.065	1.7	8	3.6	192	200	23
2″	8.00	203	6.25	159	1.87	47	2	50	7	178	3.45	88	0.065	1.7	0.065	1.7	13	5.9	434	250	28
								-													

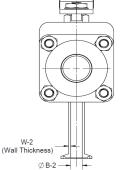
Bottom Port Downstream Steam Trap Port Location *At full differential pressure

Bottom Port Center Steam Trap Port Location *At full differential pressure





	0:	1/2" Pu	rge Port	3/4" Pu	rge Port	1" Purge Port		
	Size	0 B-2	0-1	Ø B-2	O-1	⊘ B-2	0-2	
		in.	in.	in.	in.	in.	in.	
	1/2″	0.37	0.12	0.62	-	0.87	-	
	3/4"	0.37	0.12	0.62	-	0.87	-	
	1″	0.37	0.32	0.62	0.20	0.87	0.07	
	1-1/2"	0.37	0.55	0.62	0.43	0.87	0.30	
	2"	0.37	0.77	0.62	0.65	0.87	0.52	



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W-2 (Wall Thickness)







How To Order Guide (Columns 1 thru 11)

1	2	3	4	5	6
SERIES	BODY & ENDS	BALL & STEM	SEAT & SEAL	END CONNECTIONS	STEAM TRAP CONNECTION
SC00 =	6 = 316L Stainless Steel	6 = 316L Stainless Steel	AT = TFM1600™ Seats	TR0 = Tri-Clamp Ends	T = Tri-Clamp
(Cast)	ASTM A351 CF3MN	ASTM A351 CF3MN	& PTFE Seals (for Cast)		Ends
	or A182-F	or A182-F		ETO = Extended Tube	
SF00 =			AA = TFM1600™ Seats	O.D. Ends	
(Forged)			& Seals (for Forged)		

7 STEAM TRAP PORT LOCATION	8 STEAM TRAP PORT SIZE	9 VALVE SIZE	10 OPTIONS*	11 SPECIAL SERVICES*
5 = Bottom Port Downstream Side 6 = Bottom Port Centered Point	A = 1/4" B = 3/8" C = 1/2" D = 3/4" E = 1"	005 = 1/2" 007 = 3/4" 010 = 1" 015 = 1-1/2" 020 = 2"	00 = None	00 = None XC = Oxygen Cleaned EP = Electropolished SB = 10Ra ID Finish SC = 5 Ra ID Finish AA = Electropolished & 15Ra ID Finish AB = Electropolished & 10Ra ID Finish AC = Electropolished & 5Ra ID Finish AD = Oxygen Cleaned & Electropolished

Order Example: (SC0066ATTR0T5A0050000) The Part Number will contain 21 digits.



*Not all Options or Special Services available on all ball valves. Consult SVF for additional information.

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