Series OPUS [™] Ball Valve

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 Opus [™] 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	D = dt.	316L Stainless Steel
	воду	(ASTM A351 CF3MN or ASTM A182-F)
2	End	316L Stainless Steel
	Connector	(ASTM A351 CF3MN or ASTM A182-F)
3	Pall	316L Stainless Steel
	Ddii	(ASTM A351 CF3MN or ASTM A182-F)
4	Stom	316L Stainless Steel
	Stelli	(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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CleanFLOW TM High Purity Steam Trap Test Valve Sizes $1/2'' \sim 2''$





TRAP POSITION Outlet Inlet Outlet Condensate Outlet Condens

OPUS[™] PRESSURE/TEMPERATURE CHART



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

MANUAL OPERATION - TOP VIEW



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DIMENSIONS, WEIGHT, C V, TORQUE

Size	A-1		A-2		B-1		С		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

FLOW CONTROLS



Size

1/2″

3/4″

1″

1-1/2"

2″

ØB-2

in.

0.37

0.37

0.37

0.37

0.37





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How To Order Guide (Columns 1 thru 11)

1 SERIES	2 BODY & ENDS	3 BALL & STEM	4 SEAT & SEAL	5 END CONNECTIONS	6 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	8	9	10	11
LOCATION	STEAM TRAP PORT SIZE	VALVE SIZE	OPTIONS*	SPECIAL SERVICES*
5 = Bottom Port Downstream Side	A = 1/4"	005 = 1/2"	00 = None	00 = None XC = Oxygen Cleaned
6 = Bottom Port	B = 3/8"	007 = 3/4"		EP = Electropolished SB = 10Ba ID Einish
Centered Point	C = 1/2"	010 = 1″		SC = 5 Ra ID Finish AA = Electropolished &
	D = 3/4"	015 = 1-1/2"		15Ra ID Finish
	E = 1"	020 = 2"		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.