



## Spray Water Valve MODEL NO: SWV-A

### Key highlights

- x The valve has tight shut-off maintaining Class-V seat leakage as per MSS-SP-61/ FCI 70-2.
- x Contains a number of pressure reducing stages in the disc stack that efficiently reduces noise, abrasion, vibration, erosion, cavitation and flashing in the valve.
- x Self-flushing flow passages do not have any contractions or other restrictions to prevent the formation of debris and the flow path gradually expands from the higher pressure side to the lower pressure side.
- x A very high rangeability of 50:1 is a standard and even higher rangeabilities can be provided upon request.
- x The trim assembly can be assembled or disassembled at site with minimum downtime since no weld design is incorporated in the valve, which leads to extremely low maintenance cost.
- x A double acting cylinder piston actuator with spring return provides the proper and adequate forces required for the seat contact load to ensure tight shut-off.
- x The fluid velocity is maintained within its permissible limit right across the full load conditions and the trim velocities are low, which ensures that erosion, noise and vibration are avoided under all operating conditions.
- x The trim has multiple flow channels, which ensures even flow of distribution thereby leading to about 2-3 dBA in noise reduction as compared to a conventional trim that have similar flow passages.
- x The thickness of the disc is designed such that it ensures highest and maximum tortuous flow path and maintains a uniform velocity and as it passes across the disc, it is streamlined.
- x Labyrinth disc ensures years of maintenance free uninterrupted life of the valve.
- x Owing to its high rangeability, it eliminates the need for installing two valves in parallel (one smaller and one bigger) to cater to wide range fluctuations.
- x Labyrinth disc design can cater to any noise attenuation for any pressure and flow.
- x No other equipment like downstream orifices, silencers, etc. are required to reduce the noise level since the trim exit velocities are within the permitted guidelines.
- x The applications where Labyrinth Disc stack technology is used and to name a few are as under:

- |                             |                                                |
|-----------------------------|------------------------------------------------|
| 1. Turbine Bypass Valve     | 2. Blow down Valve                             |
| 3. Soot Blower Valve        | 4. Automatic Recirculation Valve               |
| 5. Re-heater Spray Valve    | 6. Super-heater Spray Valve                    |
| 7. Feed water Control Valve | 8. Pressure Reducing and Desuperheating System |

## Materials

Sr. No	Item	Material of Construction
1.	Regulating Spindle	DIN 1.4122 Plasma Nitrided
2.	Gland Plate	SA 182 F22/ F11/ A105
3.	Pack Ring	DIN 1.4122 Plasma Nitrided
4.	Packing	Grafoil
5.	Grund Ring	DIN 1.4122 Plasma Nitrided
6.	Bonnet	SA 182 F22/ F11/ A105
7.	Ring	SA 182 F22/ F11/ A105
8.	Pressure Ring	SA 182 F22/ F11/ A105
9.	Bonnet Packing	Grafoil
10.	Body	SA 182 F22/ F11/ A105
11.	Inlet Stud	SA 182 F22/ F11/ A105
12.	Test Flange	SA 182 F22/ F11/ A105
13.	Labyrinth Cover	DIN 1.4122 Plasma Nitrided
14.	Labyrinth	DIN 1.4122 Plasma Nitrided
15.	Seat Bush	DIN 1.4122 Plasma Nitrided
16.	Seat Bush Packing	Grafoil

### Notes:-

1. Dimensions can be engineered to fit existing piping/ flange requirements.
2. Different grades of material also available as an option.



An ISO:2008 / ISO 14001:2004 &  
OHSAS 18001:2007  
certified company



Bomafa is a leading global supplier of Severe Service Valves and products that improves Productivity and Quality in Utility and Process Industries. For the closest location and contact, visit our website:  
[www.bomafa-india.com](http://www.bomafa-india.com)

**Contact us:**  
**BOMAFA Special Valve Solutions Private Limited**

**Office:**  
A 606 / 607 Safal Solitaire,  
New YMCA Club,  
Besides Divya Bhaskar,  
S.G. Highway,  
Ahmedabad - 380 015.  
Ph.: +91 79 40075613  
+91 79 40083825/26/27

**Works:**  
Plot No. 285/2,  
Panchratna Estae,  
Nr. Ramol Bridge,  
Ahmedaba -382445 - India.  
Ph. : +91 96876 64036 / 37

E-mail: [info@bomafa-india.com](mailto:info@bomafa-india.com)