

## HP Series - Needle Valves

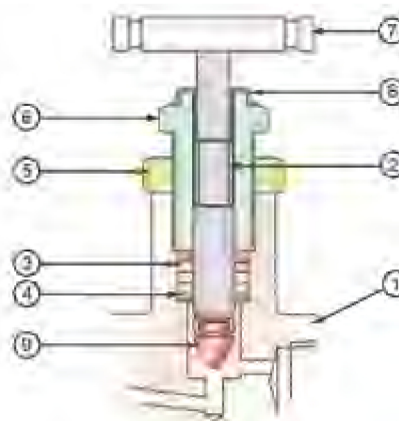
Sync-Lok HP Series Needle Valves are specially designed and ruggedly manufactured for use in corrosive & hazardous conditions. Our valves are precision machined for maximum durability & efficiency to provide a high quality, low cost alternative in fluid & gaseous control systems to meet the demands of our customers. All valves are available in high-grade stainless steel, carbon steel, brass & monel. End connections are available in M/F threaded NPT, BSP, BSPT, ISO, DIN and JIS tapered ends.

## Features / Benefits

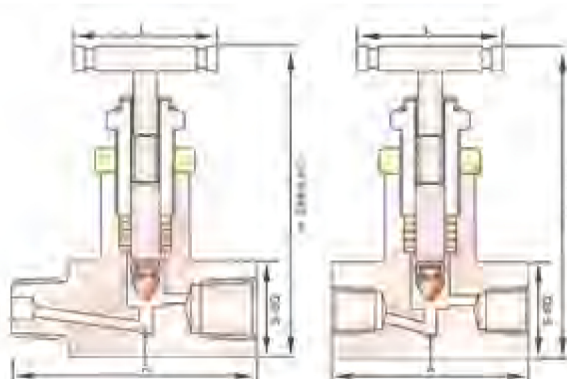
- One Piece Body** - no weld construction for high strength and full safety.
- Vee Tip Design** - controls accurate flow
- Stem Threads Rolled & Hard Platted** - provides additional strength & maximum service life.
- Mirror Finish Stem (Burnished to a 16 RMS)** - extends packing life and smooth stem operation.
- Stainless Steel Handle** - for proper actuation.
- Dust Cap** - prevents contaminants and lubricant washout of bonnet assembly.

## Materials of Construction

SR No	Part	Qty	Material
1	Body	1	A479-316 / A-105
2	Stem	1	A479-316 / A-105
3	Packing Washer	1	A479-316 / A-105
4	Gland Packing	1	Glass Filled PTFE
5	Lock Nut	1	A479-316 / A-105
6	Gland Retainer	1	A479-316 / A-105
7	Handle	1	Stainless Steel
8	Dust Cap	1	Plastic LD
9	Vee Tip	1	A 564-630



## Dimensions



Part No.	Size	A(MF)	A(FF)	S-SQ	H	L
SNV-HP-S-4-MF	1/4"	60	55	25	86	60
SNV-HP-S-4-FF						
SNV-HP-S-6-MF	1/8"	60	55	28	86	60
SNV-HP-S-6-FF						
SNV-HP-S-8-MF	1/2"	82	75	34	98	70
SNV-HP-S-8-FF						
SNV-HP-S-12-MF	3/4"	87	80	38	98	70
SNV-HP-S-12-FF						

Orifice	Cv	Pressure Rating	Temperature Rating
5mm	0.22	10,000 psi (700 bar)	65° to 200° F (50° to 93° C)

## Testing

Each valve is hydrostatically tested in accordance with MSS-SP-99. This procedure includes testing of the body cavity. The hydrostatic test is performed with pure water or other liquids of similar or lower viscosity @ 1.5 times the seat leakage and 1.1 times the maximum working pressure.

*Each valve is also tested with Nitrogen Gas @ 1,000 PSI for seat, seal and shell leakage.  
Other tests like vibration, temperature and helium are available upon request.*