

Mini Series - Needle Valves

Sync-Lok Mini 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

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.

Fully Supported Packing - reduces need for adjustment

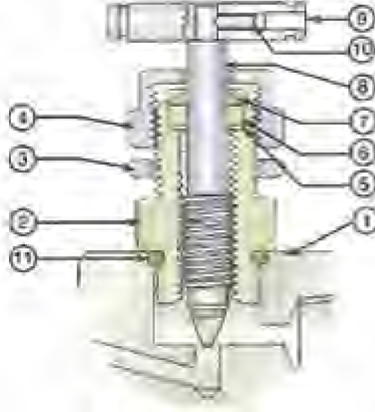
Packing Nut - easy and fast to move external adjustment

Stainless Steel Handle - for proper actuation.

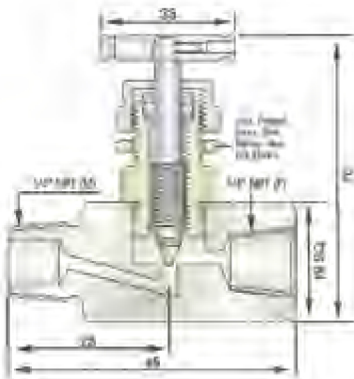
Dust Cap - prevents contaminants and lubricant washout of bonnet assembly.

Materials of Construction

SR No	Part	Qty	Material
1	Body	1	A479-316 / A-105
2	Gland Body	1	A479-316 / A-105
3	Panel Nut	1	A479-316 / A-105
4	Gland Nut	1	A479-316 / A-105
5	Washer	1	A479-316 / A-105
6	Packing	1	PTFE / Graphoil
7	Packing Washer	1	A479-316 / A-105
8	Spindle	1	A564-630
9	Handle	1	Stainless Steel
10	Grub Screw	1	Steel Plated
11	O-Ring	1	Viton

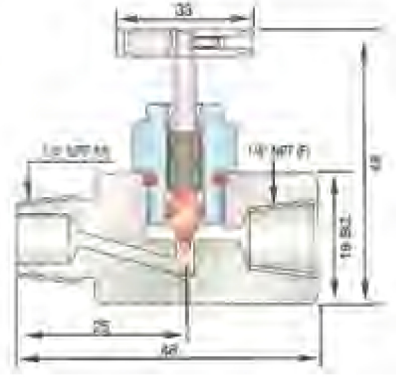


Dimensions



Sync-Lok Mini Needle Valves are also available in Female to Female, Male to Male & Male to Female end connections

4,000 & 6,000 PSI models available



Orifice	Cv	Pressure Rating	Temperature Rating
3.5mm	0.31	3000 PSI (20700 kpa)	20 to 250 F (-29 to 121 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.