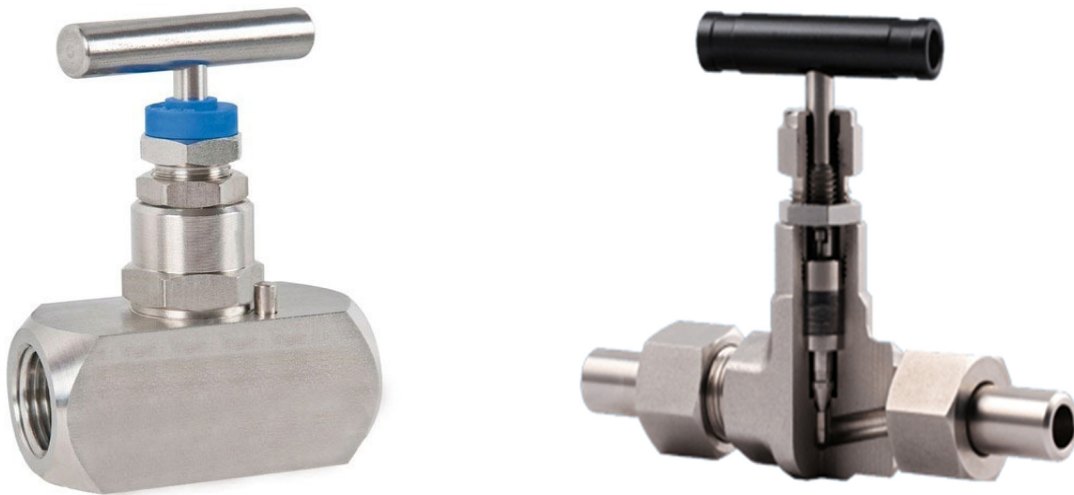




ASVIN NEEDLE VALVE for HIGH PRESSURE and for FINE FLOW CONTROL
For process Industries



ASIAN INDUSTRIAL VALVES AND INSTRUMENTS manufactures Needle Valve which is used to accurately control flow rates of clean gasses or fluids. The adjustments are gradual and smooth for controlling the flow rate; **ASVIN** Needle Valve can also be used as a reliable shut-off valve.

ASVIN Needle Valves are used for low flow rates and have a relatively large pressure drop from the inlet to the outlet. Common port sizes for **ASVIN** Needle Valves range from 1/8 inch up to 2 inches sizes.

ASVIN Needle Valves referred to as, Plunger Valves, Regulating Valves and enable engineers to finely control and regulate water flow and pressure. Based on the construction **ASVIN** needle Valves are classified as Straight Type or angle Type.

ASVIN Needle Valve Selection

When selecting a Needle Valve, four main characteristics and/or application requirements need to be taken into account: Material, Pressure, Size, and Temperature.



Material- ASVIN Needle Valves

The most common valve Body materials are Brass, Forged carbon Steel and Stainless Steel due to their range of chemical resistance, there are materials available for special applications, such as Monel, Hastelloy Etc.,

Brass Needle Valves are suitable for hydraulic systems, drinking water, high temperature applications, and gas piping. They are suitable for neutral and non-corrosive media. Brass are not be used for salt water (seawater), distilled water, acids, or chlorides.

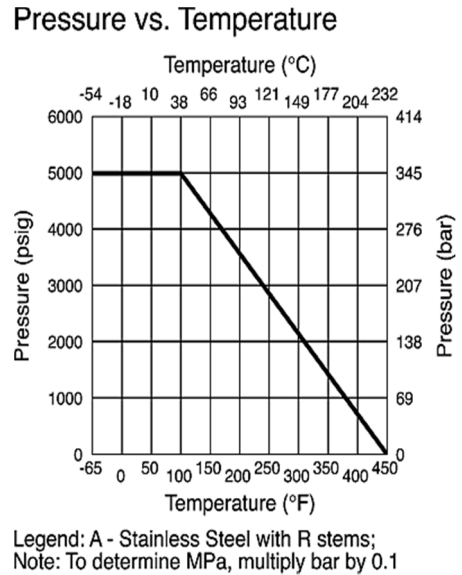
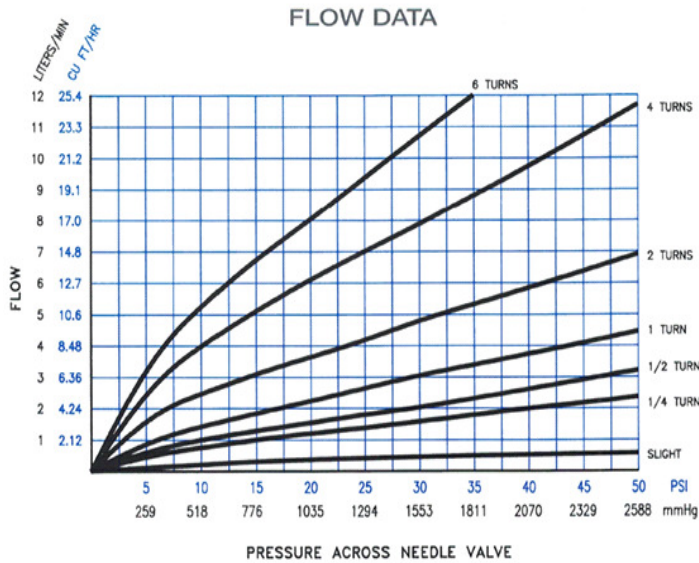
Stainless Steel Needle Valves have very good overall chemical resistance to almost any media. The material is very durable and could withstand high temperature and pressures. It is suitable for aggressive and corrosive media like seawater.

Pressure- ASVIN Needle Valve

High Pressure Needle Valves could handle pressure of up to 4,000 to 5,000 psi 38°C. When very higher pressures are required, high performance **ASVIN** Needle Valves are available that can handle up to 10000 psi pressure at 38°C. Special designs are also available with **ASVIN** when customer need a Needle Valve to handle Vacuum pressure.

End Connection & Orifice Size - ASVIN Needle Valve

The End connection can also be Male or Female type. NPT, BSP, BSPT, ISO. The sizes are from 3 to 50 NB. Correct Port Size and Orifice Size will ensure efficient flow and system operation with low wear and/or leakage.



SEALING Material- ASVIN Needle Valve

The two most common sealing materials are PTFE (Teflon) for a Temperature range of -54° C to 232°C and PEEK (Polyether Ether Ketone) for increased Temperature resistance up to 315 °C.

Features- ASVIN Needle Valve

- Bar stock construction
- Working Pressure 6000 PSI with PTFE packing and Grafoil for higher temperatures.
- 10,000, 15,000 & 20,000 PSI Valves are available on Request.
- Soft Seat Valves available on request.
- Standard NPT End Connections. BSP / BSPT / ANPT Threads available on Request.
- 3.1 Certificates furnished. 3.2 certificates available on request.
- NACE MR-0-175 Compliant materials available on request.

ASVIN Needle Valves- Factory Tested

- All Components are ultrasonically cleaned prior to assembly.
- Pneumatic seat test is performed at 1000 PSI. Medium – Nitrogen gas.
- Hydrostatic seat test is performed at 1.1 times the working pressure.
- Hydrostatic shell test is performed at 1.5 times the working pressure.
- All the Valves are 100% Factory Tested.



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