

Manual Needle Valve



Manual needle valves are engineered for high & ultra-high pressure fluid control, including standard needle valves, ferrule-type needle valves, precision throttle valves and high-low temperature resistant needle valves. Made of 316 stainless steel and premium alloy materials, they feature excellent pressure resistance, corrosion resistance and sealing performance. With diversified structures and specifications, the full series covers common pressure grades and extreme temperature working conditions, widely used for on-off and flow regulation of liquid, gas and corrosive media in industrial fields.

Feature

1. High pressure resistance, multiple pressure grades for selection, stable performance under long-term pressure.
2. Premium 316 stainless steel body, good anti-corrosion & wear resistance, long service life.
3. Optimized valve core structure, non-rotating needle design, light operation & reliable sealing.
4. Various connection types & installation methods, strong interchangeability, easy to mount and maintain.
5. Complete models, adaptable to normal, low temperature, high temperature and precision flow control scenarios.

Datashheet

Type	Max Working Pressure	Tube OD	Key Description
Standard Manual Needle Valve	20000/30000/60000 PSI	1/4"	Ultra-high pressure general type, metal cone sealing, split valve stem, panel & bracket mounting
Ferrule Manual Needle Valve	15000 PSI	1/4"	Compliant with DIN3861, ferrule connection, working temp: -50°C~200°C, for instrument pipelines
Precision Throttle Valve	60000 PSI	1/8" / 1/4"	For precise micro-flow regulation, not for full shutoff, use with stop valve together
High & Low Temp Needle Valve	2000/3000/6000 PSI	1/4"	Temp range: -73°C ~ 427°C; H for high temp, L for low temp, for extreme temperature media

Application

1. Oil & Natural Gas Industry: Downhole impulse tubing, well site sample line flow fine regulation, field instrument isolation valve for wide ambient temperature.
2. Chemical & Petrochemical: Corrosive reagent dosing pipeline, pilot plant small-bore process flow control; PEEK/graphite packing for high-temperature corrosive medium.
3. Power Generation & New Energy: Thermal power boiler water/steam sampling, cabinet instrument gas circuit regulation, renewable energy pressure monitoring piping.

4. Laboratory & Analytical Equipment: Lab chroma to graph gas/liquid circuit precise throttling, ferrule connection for leak-free analytical test bench.
5. Hydraulic & Offshore Equipment: High-pressure hydraulic test bench, offshore platform instrument tubing isolation.

If you have any questions about similar or special models, please contact us.

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