

Stainless Steel High-Pressure Needle Valve

This needle valve features a 316 stainless steel body, offering excellent corrosion resistance and high tensile strength. It is designed with a non-rotating stem to prevent galling and includes a gland locking device to maintain packing integrity.



ADDITIONAL IMAGES



Overview

High-Performance Stainless Steel Needle Valve

This high-pressure needle valve features a durable 316 cold-work stainless steel body, offering exceptional corrosion resistance and high tensile strength. Designed for demanding flow control applications, it includes a no-rotation stem to prevent galling and a gland locking device for enhanced safety. With multiple pressure ratings and configuration options available, it provides reliable sealing and precise metering for various industrial fluid systems.

Technical Specifications

Working Temperature

-73 °C

Min Temperature

232 °C

Max Temperature

Body Patterns

- Straight
- Angle
- 3-way / 1 on pressure

Stem Options

Vee Stem • Regulating Stem

Maintenance Features

- Replaceable seat options available
- Gland locking device to prevent loosening
- Packing blow stem threads for reliable sealing

Construction Material

316 Cold-work Stainless Steel

Available Pressure Levels

15000 psig, 20000 psig, 30000 psig, 60000 psig

Mounting Options

Bracket mounting, Panel mounting

Ordering Reference

Work Pressure	Technical Parameters			Ordering Code		
	Size	Ports	Orifice mm(in.)	Straight	Angel	3 Way/1 on press.
Medium Pressure 20000 psig	1/4"	MF 4	3.18(0.13)	NR20MF4A	NR20MF4B	NR20MF4C
	3/8"	MF 6	5.56(0.22)	NR20MF6A	NR20MF6B	NR20MF6C
	9/16"	MF 9	7.94(0.31)	NR20MF9A	NR20MF9B	NR20MF9C
	3/4"	MF 12	11.13(0.44)	NR20MF12A	NR20MF12B	NR20MF12C
	1"	MF 16	14.27(0.56)	NR20MF16A	NR20MF16B	NR20MF16C
High Pressure 30000 psig	1/4"	HF 4	2.39(0.09)	NR30HF4A	NR30HF4B	NR30HF4C
	3/8"	HF 6	3.18(0.13)	NR30HF6A	NR30HF6B	NR30HF6C
	9/16"	HF 9	3.18(0.13)	NR30HF9A	NR30HF9B	NR30HF9C
High Pressure 60000 psig	1/4"	HF 4	1.57(0.06)	NR60HF4A	NR60HF4B	NR60HF4C
	3/8"	HF 6	1.57(0.06)	NR60HF6A	NR60HF6B	NR60HF6C
	9/16"	HF 9	1.98(0.08)	NR60HF9A	NR60HF9B	NR60HF9C

Reference table for available pressure ratings, port sizes, and orifice dimensions.

Technical Parameters Overview

Pressure Rating	Port Size	Orifice (mm)
Medium Pressure	1/4"	3.18
Medium Pressure	3/8"	5.56
Medium Pressure	9/16"	7.94
Medium Pressure	3/4"	11.13
Medium Pressure	1"	14.27
High Pressure	1/4"	2.39
High Pressure	3/8"	3.18
High Pressure	9/16"	3.18