



# NEEDLE VALVES

## Literature



### Introduction:



**SS316 Needle Valve 6000 PSI**

Needle valves are valves that are used for fluid flow regulation in a hydraulic system. The needle-shaped plunger inside ensures the precise control of the fluids flow. The plunger will retract when the handle is turned on, which will give way for the fluids to flow in between the seat and plunger. A few turns must be made to the handle, to retract the plunger, to ensure precise flow regulation.

Needle valves are used in industries that require precise control or metering of fluids such as oil, water, and gas. However, needle valves are not suitable for normal shutoff applications.

### Material:

Commonly used materials for needle valves are Steel and Stainless Steel SS316. Stainless steel needle valves are used for corrosive handling, sampling systems and chemical processing applications, to name a few. Steel material needle valves are commonly used in oil and gas, refineries, chemical, and water and wastewater industries.

### Size Range & Pressure Rating:

Needle valve sizes range from 1/8" to 1" and working pressures are available in 350 Bars, 6000 PSI, and 10,000 PSI. It is good to note that the working pressure may vary depending on the temperature, as higher temperature results in lower working pressure.

### Connection Type:

There are 2 available connections for needle valves namely NPT (National Pipe Thread) and BSPP (British Standard Pipe Parallel), and it comes in two variations, which is the Bar Stock Needle Valve design and Bonnet Needle Valve design.

### Impa Code for Needle Valves:

Needle Valves can be found in the IMPA Marine Stores Guide, which is the world's leading reference guide for maritime purchasing and supply.



**MHA Steel Needle Valve**

For details on the reference codes of needle valves, please kindly see below:

NEEDLE VALVES (DIN) SS316 BSP FEMALE THREADED

<b>IMPA CODE</b>	<b>Details</b>
756202	1/4" BSP SS316 NEEDLE VALVE (420 BAR)
756203	3/8" BSP SS316 NEEDLE VALVE (420 BAR)
756204	1/2" BSP SS316 NEEDLE VALVE (420 BAR)
756205	3/4" BSP SS316 NEEDLE VALVE (420 BAR)
756206	1" BSP SS316 NEEDLE VALVE (420 BAR)

NEEDLE VALVES (DIN) SS316 NPT FEMALE THREADED: (Econosto Model No.: 1226S)

<b>IMPA CODE</b>	<b>Details</b>
756241	1/4" NPT SS316 NEEDLE VALVE (420 BAR)
756242	3/8" NPT SS316 NEEDLE VALVE (420 BAR)
756243	1/2" NPT SS316 NEEDLE VALVE (420 BAR)
756244	3/4" NPT SS316 NEEDLE VALVE (420 BAR)
756245	1" NPT SS316 NEEDLE VALVE (420 BAR)

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Catalogue Version: 2021

