

The CP-20 needle valves are designed to work under very high pressure and/or temperature service. Due to their solid design, these valves withstand extreme service conditions where the strongest features are required. In order to guarantee a great end quality and ensure a total anti-leak result, all of them are inspected and tested.

## Features & Benefits

- Very solid design
- Stem thread isolated from fluid
- PTFE packing
- Easy packing external adjustment
- Safety lock nut
- 100% tested

## Options

- Grafoil packing for high temperatures
- Stellite seats

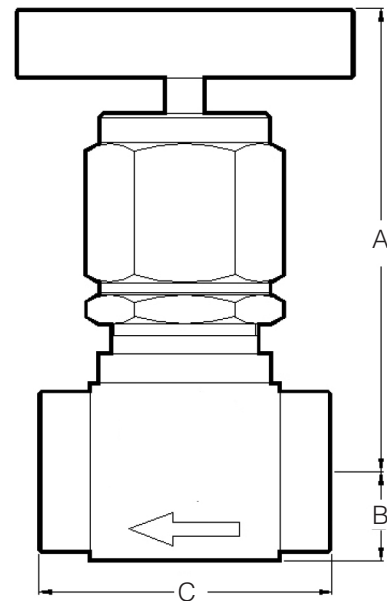


## Technical Data

Max. Pressure	Up to 11000 PSI (760 bar)				
Temperatures	-4°F / 1112°F (-20°C / 600°C)				
Dimensions	1/4"	3/8"	1/2"	3/4"	1"
A Opened	3.50	3.62	3.69	3.93	4.28
A Closed	3.26	3.26	3.46	3.58	3.73
B	0.86	0.98	1.26	1.38	1.77
C	1.38	1.57	1.97	2.16	2.75
Orifice Size	0.26	0.31	0.43	0.55	0.63
Maximum Cv	0.9	1.3	2.4	3.3	4.5

## Order Codes

BSP	0600	0603	0606	0609	0612
NPT	0601	0604	0607	0610	0613
SW	0602	0605	0608	0611	0614
BW	0615	0616	0617	0618	0619



## Materials

No.	Part	Carbon Steel	Stainless Steel AISI-316	Special Alloys
1	Handle screw	AISI-304 (DIN1.4301)	AISI-304 (DIN1.4301)	AISI-304 (DIN1.4301)
2	Handle	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)
3	Lock Nut	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)
4	Bonnet	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)
5	Gland	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)
6	Packing	PTFE or Grafoil	PTFE or Grafoil	PTFE or Grafoil
7	Stem	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)	Exotic Alloy
8	Panel Nut	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)
9	Body	F-112 (DIN1.1158)	AISI-316 (DIN1.4401)	Exotic Alloy

## Special Alloys

Among the wide range of alloys existing, J Flow has selected those considered by our customers as most suitable, which we stock to ensure a quick and effective supply. If you do not find the required alloy or need further information about our exotic alloy valves, please contact our Technical Department.

AISI-316Ti (1.4571)  
 AISI-904L (1.4539)  
 Duplex (1.4462)  
 SuperDuplex (1.4410/1.4501)  
 254-SMO (1.4547)  
 Titanium Gr. 2 (1.7864)  
 Hastelloy C-276 (2.4819)

## Ordering Information

**Valve Code:** Look for it in the order codes chart on the previous page

**Option/s:** If required, add the code/s from the options section on the previous page

**Material:** Look for the code on the materials chart

### Example of valve and two options:

Needle valve CP-20 1/4" NPT with grafoil packing and stellite seats of AISI-316: The reference required to place the order is: 0601GSA4

## Tests

According to API 598, each valve is tested with nitrogen at 100 bar for 15 seconds to check the leakage in the seat and packing. Upon request, the corresponding materials and test certificates can be delivered with the valve.

