



# CP-20

## Needle Valve for Severe Services (FxF) Working Pressure 760 bar (11000 PSI)

TECVAL CP-20 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 methodically inspected and tested.



### Features

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

### Options

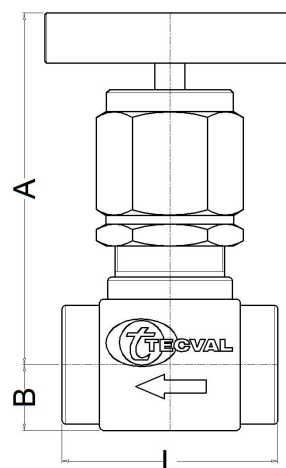
- Grafoil packing for high temperatures. **G**
- Stellite seats. **S**

### Technical data

Max. Pressure	Working Pressure 760 bar (11000 PSI)				
Temperatures	-20°C/500°C (-4°F/932°F)				
Dimensions	1/4"	3/8"	1/2"	3/4"	1"
A Open	107	107	130	130	155
A Closed	99	99	117	117	130
B	16	16	21	21	25
L	58	58	69	69	90
Orifice Size	6	6	8	8	10
Maximum Cv	0.8	0.8	1.0	1.0	1.6

### Order codes

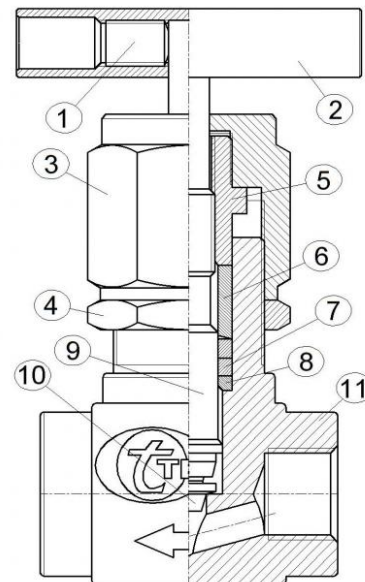
BSP	0600	0603	0606	0609	0612
NPT	0601	0604	0607	0610	0613
SW	0602	0605	0608	0611	0614
BW	0615	0616	0617	0618	0619



\* Dimensions in mm

## Materials

Nº Part	Carbon Steel <b>AC</b>	AISI-316L <b>A4</b>	Special Alloys
1 Handle screw	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
2 Bar handle	F-112 (1.1158)	AISI-316L (1.4404)	AISI-316L (1.4404)
3 Nut	F-112 (1.1158)	AISI-316L (1.4404)	AISI-316L (1.4404)
4 Lock nut	F-112 (1.1158)	AISI-316L (1.4404)	AISI-316L (1.4404)
5 Bonnet	F-112 (1.1158)	AISI-316L (1.4404)	AISI-316L (1.4404)
6 Gland	F-112 (1.1158)	AISI-316L (1.4404)	AISI-316L (1.4404)
7 Packing	P.T.F.E.	P.T.F.E.	P.T.F.E.
8 Washer	F-112 (1.1158)	AISI-316L (1.4404)	Special alloy
9 Stem	AISI-316L (1.4404)	AISI-316L (1.4404)	Special alloy
10 Movable stem tip	AISI-316L (1.4404)	AISI-316L (1.4404)	Special alloy
11 Body	F-112 (1.1158)	AISI-316L (1.4404)	Special alloy



## Special alloys

Among the wide range of alloys existing, TECVAL has selected those considered by our customers as most suitable, which we stock to ensure a quick and effective supply. Whether you do not find the required alloy or need further information about our special alloys valves and fittings, please address your inquiry to our Technical Department.

AISI-316Ti (1.4571) **A6**

AISI-904L (1.4539) **A9**

Duplex (1.4462) **AD**

SuperDuplex (1.4410/1.4501) **AS**

254-SMO (1.4547) **AV**

Alloy 400 (2.4360) **MO**

Alloy 625 (2.4856) **IN**

Alloy 825 (2.4858) **CO**

Titanium Gr.2 (3.7034) **TI**

Hastelloy C-276 (2.4819) **HA**

## Ordering information

References are formed by three parts:

**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 (in alphabetical order).

**Material** -Look for the code on the materials chart.

An example of valve with two options:

The valve CP-20 1/4"NPT AISI-316L with grafoil packing and stellite seat is: **0601 GS A4** .

The reference required to place the order is **0601GSA4**



## Tests

100% tested in accordance to API STANDARD 598, each valve is tested to check the leakage in the seats and packing. Upon request, the corresponding materials and test certificates can be delivered with the valve.

## Maintenance

Adjustment of the packing may be necessary during the working life of the valve. The operation consists first unlocking the Lock nut (4) and then turning the nut (3) clockwise.

Valves with long no-working period may have a harder initial operating torque.

## Packaging

All TECVAL valves are supplied packed in individual polyethylene, airtight bags. End screw connections are protected with polyethylene caps. Everything is 100% recyclable.



TECVAL S.L.  
C/Berlín, 1 Nave 4  
Pol.Can Torrella  
08233-VACARISSES  
Barcelona - SPAIN  
Tel: +34 938 280 055  
tecval@tecval.es