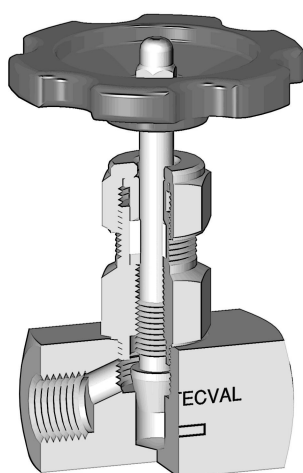




# CP-01

## Back-Seat Needle Valve (FxF) Working Pressures: 100 | 210 bar (1500 | 3000 PSI)

TECVAL CP-01 needle valves are designed to work with liquids under both high pressure and temperature service. The back-seat allows a free packing change while the valves are in service. They are for use in chemical plants, water treatment plants, refineries, laboratories and gas companies, as well as in the general industry.



### Features

- Metal-to-metal shut-off.
- Movable stem tip.
- Free packing change in service.
- PTFE packing.
- 100% tested.

### Options

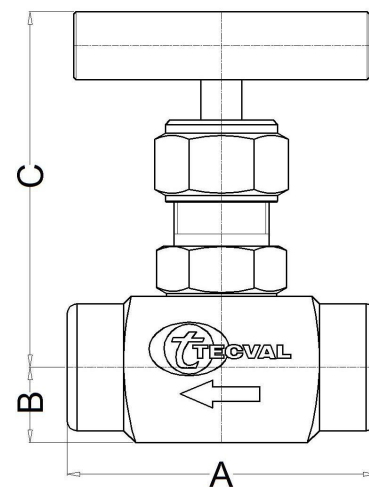
- Grafoil packing for high temperature. **[G]**
- High working pressure 210 bar (3000 PSI). **[I]**
- Soft movable stem tip in Kel-F. **[K]**
- Bleed screw in outlet. **[P]**
- V stem. **[R]**
- Stellite seats. **[S]**
- Automation through electric multi-turn actuator. **[T]**
- Aluminium handle wheel. **[V]**
- Handle safety lockout. **[W]**

### Technical data

Max. Pressure	Standard working pressure: 100 bar (1500 PSI) High working pressure: 210 bar (3000 PSI)					
Temperatures	-20°C/400°C (-4°F/752°F)					
Dimensions	1"	1¼"	1½"	2"	2½"	3"
C Open	109	169	173	179	218	230
C Closed	95	150	150	150	191	195
B	25	30	35	40	53	57
A	90	100	110	115	150	150
Orifice Size	16	19	22	25	32	35
Maximum Cv	4.2	4.5	4.9	8.9	11.2	14.6

### Order codes

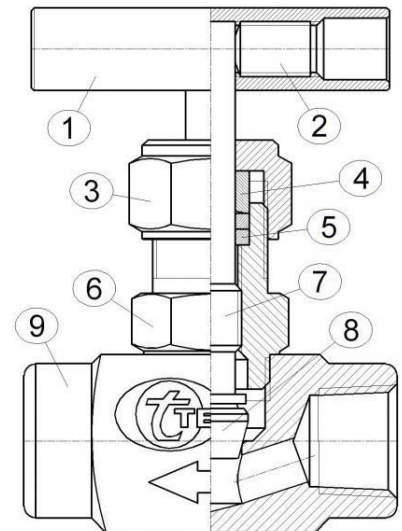
BSP	0022	0060	0025	0028	0031	0034
NPT	0023	0061	0026	0029	0032	0035
SW	0024	0062	0027	0030	0033	0036
BW Sch.40s	0054	0063	0055	0056	0057	0058
VIC Grooved	0082	0095	0085	0088	0091	0094



\* Dimensions in mm

## Materials

Nº Part	AISI-316L <b>A4</b>	Duplex <b>AD</b>	SuperDuplex <b>AS</b>	Special Alloys
1 Bar handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
2 Handle screw	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
3 Nut	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
4 Gland	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
5 Packing	P.T.F.E.	P.T.F.E.	P.T.F.E.	P.T.F.E.
6 Bonnet	AISI-316L (1.4404)	Duplex (1.4462)	Superduplex (1.4410/1.4501)	Special alloy
7 Stem	AISI-316L (1.4404)	Duplex (1.4462)	Superduplex (1.4410/1.4501)	Special alloy
8 Movable stem tip	AISI-316L (1.4404)	Duplex (1.4462)	Superduplex (1.4410/1.4501)	Special alloy
9 Body	AISI-316L (1.4404)	Duplex (1.4462)	Superduplex (1.4410/1.4501)	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 exotic alloys valves and fittings, please address your inquiry to our Technical Department.

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

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

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.

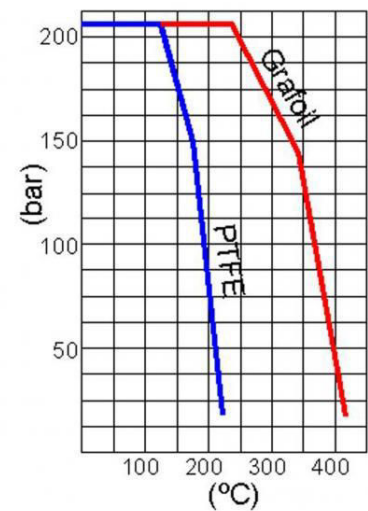
**Option/s** -If required, add the code/s from the options section on the previous page (in alphabetical order).

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

An example of valve with two options:

The valve CP-01 1/2" BSP Duplex with grafoil packing and bleed screw in outlet:

**0016** **GP** **AD** The reference required to place the order is: **0016GPAD**



## 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.

## Packaging

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

## Maintenance

Adjustment of the packing may be necessary during the working life of the valve. The operation consists of turning the nut (3) clockwise. Valves with long no-working period may have a harder initial operating torque.