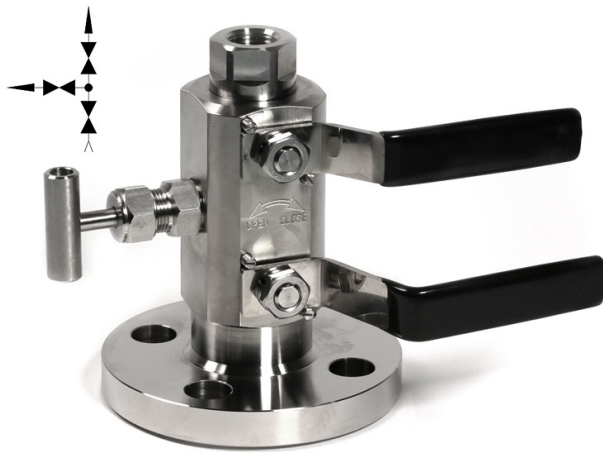




# DBB-02

## Double Block and Bleed Valve Flange EN1092-1 x Female NPT

TECVAL DBB-02 process interface valves enables you to reduce drastically space and weight in the process of installations. It reduces the possibility of leaks and the maintenance. Their distribution diagram consist of two ball valves to block the line and one needle valve to bleed in 90° outflow.



### Features

- Process interface in one compact ball/needle/ball valve assembly.
- Flange port compatible with EN1092-1.
- Instrument port 1/2"NPT Female (ASME B1.20.1).
- Vent port 1/2"NPT Female (ASME B1.20.1).
- Temperature range -20°C/200°C (-4°F/392°F).
- One-Piece forged body construction.
- No ejectable ball and needle stem design.
- No maintenance required.
- 100% Tested.

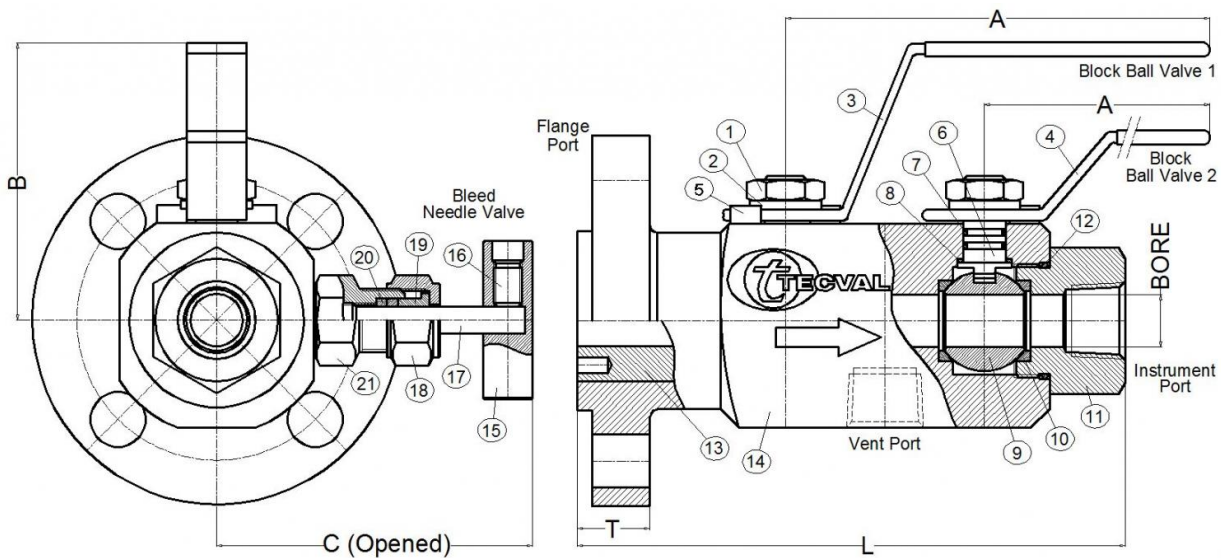
### Options

- Instrument & Vent port 1/4"NPT Female. **Y**
- Plug in vent port. **T**
- O-ring seals in several materials.

### Technical data

Flange	PN	Bore	Code	A	B	C	T	L
DN15	25-40	12	1220	120	80	91	16	136
DN15	64-100	12	1221	120	80	91	20	140
DN15	160	12	1222	120	80	91	20	140
DN15	250	12	1223	120	80	91	26	151
DN20	25-40	12	1230	120	80	91	18	138
DN20	64-100	12	1231	120	80	91	22	147
DN20	160	12	1232	120	80	91	24	149
DN25	25-40	12	1233	120	80	91	18	138
DN25	25-40	15	1240	120	80	91	18	149
DN25	64-100	12	1241	120	80	91	24	149
DN25	64-100	15	1242	120	80	91	24	160
DN25	160	12	1243	120	80	91	28	158
DN25	160	15	1244	120	80	91	28	169
DN25	250	12	1245	120	80	91	28	158
DN25	250	15	1246	120	80	91	28	169
DN40	25-40	12	1247	120	80	91	18	143

Flange	PN	Bore	Code	A	B	C	T	L
DN40	25-40	15	1250	120	80	91	18	154
DN40	25-40	20	1251	120	85	95	18	170
DN40	64-100	12	1252	120	80	91	26	156
DN40	64-100	15	1253	120	80	91	26	167
DN40	64-100	20	1254	120	85	95	26	183
DN40	160	12	1255	120	80	91	34	169
DN40	160	15	1256	120	80	91	34	180
DN40	160	20	1257	120	85	95	34	196
DN40	250	12	1258	120	80	91	34	169
DN40	250	15	1259	120	80	91	34	180
DN40	250	20	1260	120	85	95	34	196
DN50	25-40	12	1261	120	80	91	20	145
DN50	25-40	15	1270	120	80	91	20	156
DN50	25-40	20	1271	120	85	95	20	172
DN50	64	12	1272	120	80	91	26	156
DN50	64	15	1273	120	80	91	26	167



## Materials

Nº Part	AISI-316L <b>A4</b>	SuperDuplex <b>AS</b>	Special alloys
1 Handle screw	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
2 Handle washer	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
3 Inlet Handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
4 Outlet Handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
5 Stop Pin	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
6 Stem	AISI-630 (1.4542)	Superduplex (1.4410/ 1.4501)	Special alloy
7 Stem o-ring	FPM	FPM	FPM
8 Stem bearing	Delrin	Delrin	Delrin
9 Ball	AISI-630 (1.4542)	Superduplex (1.4410/ 1.4501)	Special alloy
10 Seats *	Reinforced PTFE or PEEK	Reinforced PTFE or PEEK	Reinforced PTFE or PEEK
11 Outlet Conector	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
12 Connector O-ring	FPM	FPM	FPM
13 Inlet Connector	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
14 Body	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
15 Bar Handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
16 Set screw	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
17 Stem	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
18 Nut	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
19 Gland	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
20 Packing	P.T.F.E.	P.T.F.E.	P.T.F.E.
21 Bonnet	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy

## Special alloys

Manufactured in AISI-316Ti (1.4571) **A6**, AISI-904L (1.4539) **A9**, Duplex (1.4462) **AD**, 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.

Example: Double Block and Bleed Valve DBB-02 DN40 Flange DIN PN160, bore 12mm in Alloy 625:

**1255 IN** The reference required to place the order is **1255IN**.

## Maintenance

Adjustment of the needle packing may be necessary during the working life of the valve. The operation consists of turning the nut (18) clockwise. Ball Valves with long no-working period may have a harder initial operating torque.

## 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.

## Seats\*

Reinforced PTFE Seats for PN 40, PN64 and PN100.  
PEEK Seats for PN160 and PN250.

## Elastomers

O-ring seals (positions 7 and 12) can be made of different materials: Nitrile **B**, EPDM **E** or Neopren **N**, considering the working conditions and fluid of the valve.



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