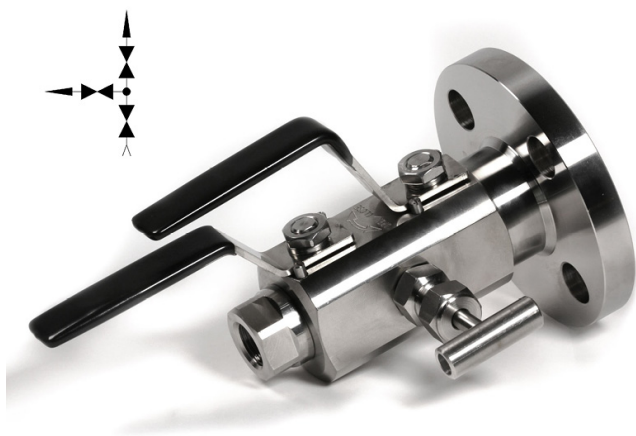




DBB-03

Double Block and Bleed Valve Flange ASME B16.5 x Female NPT

TECVAL DBB-03 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.
- Pressure ratings in accordance with ASME B16.5.
- Flange port compatible with ASME B16.5 RF.
- 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.
- 316 SS handles to reduce the risk of corrosion.
- Antiblowout valve stems and needles.
- No maintenance required.
- 100% Tested.

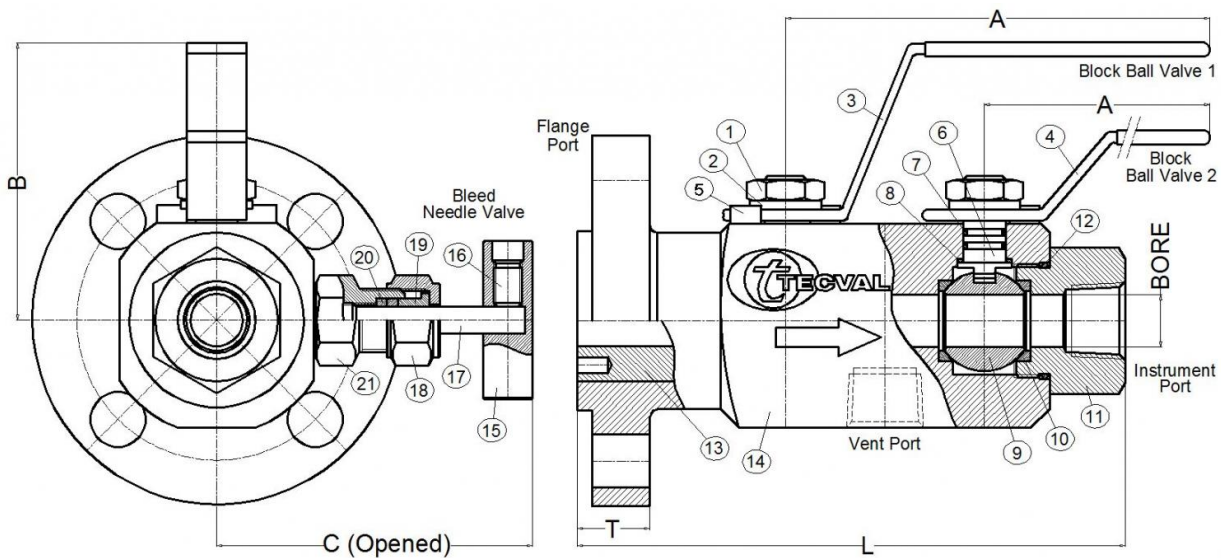
Options

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

Technical data

Flange	Class	Bore	Code	A	B	C	T	L
1/2"	150	12	1320	120	80	91	11	135
1/2"	300-600	12	1322	120	80	91	21	144
1/2"	900-1500	12	1324	120	80	91	29	163
3/4"	150	12	1330	120	80	91	13	137
3/4"	300-600	12	1332	120	80	91	22	151
3/4"	900-1500	12	1334	120	80	91	32	166
1"	150	12	1340	120	80	91	14	138
1"	150	15	1341	120	80	91	14	149
1"	300-600	12	1343	120	80	91	24	153
1"	300-600	15	1344	120	80	91	24	164
1"	900-1500	12	1346	120	80	91	35	174
1"	900-1500	15	1347	120	80	91	35	185
1 1/2"	150	12	1350	120	80	91	18	141

Flange	Class	Bore	Code	A	B	C	T	L
1 1/2"	150	15	1351	120	80	91	18	152
1 1/2"	150	20	1352	120	85	95	18	169
1 1/2"	300-600	12	1353	120	80	91	29	163
1 1/2"	300-600	15	1354	120	80	91	29	174
1 1/2"	300-600	20	1355	120	85	95	29	190
1 1/2"	900-1500	12	1356	120	80	91	38	183
1 1/2"	900-1500	15	1357	120	80	91	38	194
1 1/2"	900-1500	20	1358	120	85	95	38	210
2"	150	12	1360	120	80	91	19	148
2"	150	15	1361	120	80	91	19	159
2"	150	20	1362	120	85	95	19	176
2"	300-600	12	1363	120	80	91	32	161
2"	300-600	15	1364	120	80	91	32	172



Materials

Nº Part	AISI-316L A4	SuperDuplex AS	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.

Material Look for the code on the materials chart.

Example: Double Block and Bleed Valve DBB-03 1/2" Flange ASME Class300 bore 12mm AISI 316L with RTJ Flanges: **1322 Z A4**

The reference required to place the order is **1322ZA4**.

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 Class 150, Class 300 and Class 600. PEEK Seats for Class 900 and Class 1500.

Elastomers & Seats

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.



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