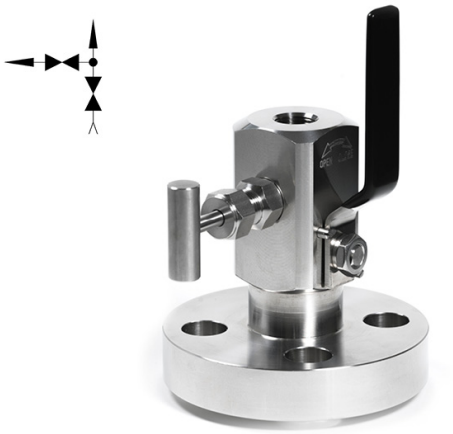
SBB-03

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

TECVAL SBB-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 one ball valves to block the line and one needle valve to bleed in 90º outflow.



Features

- 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 -20ºC/200ºC (-4ºF/392ºF).
- One-Piece forged body construction.
- 316 SS handles to reduce the risk of corrosion.
- Antiblowout valve stems and needles.
- No maintenance required.
- 100% Tested.

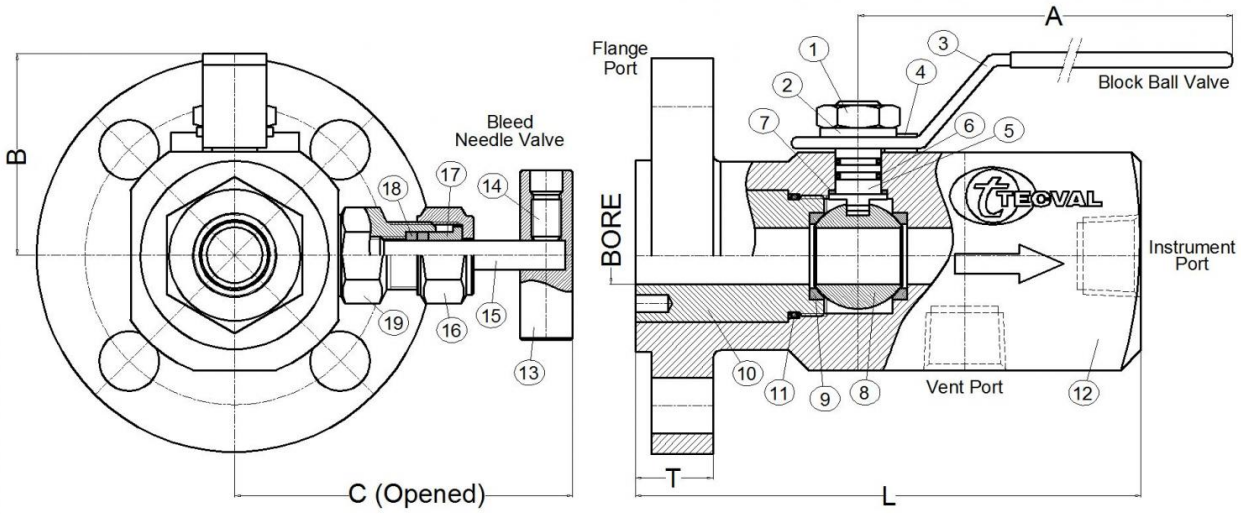
Options

- 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	1520	120	55	91	11	121
1/2"	300-600	12	1522	120	55	91	21	131
1/2"	900-1500	12	1524	120	55	91	29	149
3/4"	150	12	1530	120	55	91	13	123
3/4"	300-600	12	1532	120	55	91	22	138
3/4"	900-1500	12	1534	120	55	91	32	153
1"	150	12	1540	120	55	91	14	125
1"	150	15	1541	120	55	91	14	128
1"	300-600	12	1543	120	55	91	24	139
1"	300-600	15	1544	120	55	91	24	142
1"	900-1500	12	1546	120	55	91	35	161
1"	900-1500	15	1547	120	55	91	35	164
11/2"	150	12	1550	120	55	91	18	128
11/2"	150	15	1551	120	55	91	18	131

Flange	Class	Bore	Code	A	B	C	T	L
11/2"	150	20	1552	120	60	95	18	144
11/2"	300-600	12	1553	120	55	91	29	149
11/2"	300-600	15	1554	120	55	91	29	152
11/2"	300-600	20	1555	120	60	95	29	165
11/2"	900-1500	12	1556	120	55	91	38	169
11/2"	900-1500	15	1557	120	55	91	38	172
11/2"	900-1500	20	1558	120	60	95	38	185
2"	150	12	1560	120	55	91	19	135
2"	150	15	1561	120	55	91	19	138
2"	150	20	1562	120	60	95	19	151
2"	300-600	12	1563	120	55	91	32	147
2"	300-600	15	1564	120	55	91	32	150
2"	300-600	20	1565	120	60	95	32	163
2"	900-1500	12	1566	120	55	91	45	170



Materials

Nº	Part	AISI-316L A4	SuperDuplex A5	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	Handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
4	Stop Pin	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
5	Stem	AISI-630 (1.4542)	Superduplex (1.4410/ 1.4501)	Special alloy
6	Stem o-ring	FPM	FPM	FPM
7	Stem bearing	Delrin	Delrin	Delrin
8	Ball	AISI-630 (1.4542)	Superduplex (1.4410/ 1.4501)	Special alloy
9	Seats*	Reinforced PTFE or PEEK	Reinforced PTFE or PEEK	Reinforced PTFE or PEEK
10	Inlet Connector	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
11	Connector O-ring	FPM	FPM	FPM
12	Body	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
13	Bar Handle	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
14	Set screw	AISI-304 (1.4301)	AISI-304 (1.4301)	AISI-304 (1.4301)
15	Stem	AISI-316L (1.4404)	Superduplex (1.4410/ 1.4501)	Special alloy
16	Nut	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
17	Gland	AISI-316L (1.4404)	AISI-316L (1.4404)	AISI-316L (1.4404)
18	Packing	P.T.F.E.	P.T.F.E.	P.T.F.E.
19	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: Single Block and Bleed Valve 1/2" Flange ASME Class900 bore 12mm AISI 316L:
1524 A4 The reference required to place the order is **1524A4**.

Maintenance

Adjustment of the needle packing may be necessary during the working life of the valve. The operation consists of turning the nut (16) 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

O-ring seals (positions 6 and 11) 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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