

Ball Valve SUS316 Equivalent

SUS316 Equivalent Handle type Shut-off valve with corrosion resistance (2 port valve)

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

NSBVF (1) **10** (2) - **03** (3)

(1) Ball Valve SUS316 Equivalent

(2) Construction (Series)

Code	10	30
Construction	10 Series (1 piece, reduced bore)	30 Series (3 pieces, full bore)

(3) Female thread size

Code	02	03	04
Size	Rc1/4	Rc3/8	Rc1/2

Model Designation of options for 10 series (Example)

Ball Valve SUS316 Equivalent with SUS316 push-in Fittings

* Fittings and a valve are packaged separately in a box. Fittings should be installed by yourself.

NSBV (1) **10** (2) - **44** (3)

(1) Ball valve SUS316 Equivalent with SUS316 push-in fittings

(2) Construction

Code	10
Construction	1 piece, reduced bore

(3) Fitting size

Code	44	66	88	1010	1212	1616
Tube O.D.(mm)	ø4	ø6	ø8	ø10	ø12	ø16

SUS316 Push-in Fitting for the exclusive use of Ball Valve SUS316 Equivalent

SSPC (1) **8** (2) - **03** (3) **M** (4)

(1) SUS316 Push-in Fitting straight type

(2) Fitting size

Code	4	6	8	10	12	16
Tube O.D.(mm)	ø4	ø6	ø8	ø10	ø12	ø16

(3) Female thread size

Code	02	03	04
Size	Rc1/4	Rc3/8	Rc1/2

(4) Exclusive use of SUS316 Ball Valve SUS316 Equivalent 10 Series O-ring seal type

Butterfly lever

NSBL10 (1) - **02** (2)

(1) Butterfly lever for Ball Valve SUS316 Equivalent 10 Series

(2) Ball valve thread size

Code	02	03	04
Female thread size	Rc1/4	Rc3/8	Rc1/2

Characteristics

Added 30 series of 3-piece full bore. Best suitable for applications that require a further increase in flow rate by expanding the flow path.

The 3-piece structure improves maintainability by retightening. The maximum working pressure is 6.9MPa. can be used even under severe conditions.

Added options for 10 series.

Pairing with SUS316 dedicated push-in fitting allows for easy piping.
By changing to a butterfly lever, the handle part is made smaller.

Dedicated push-in fitting unit



Butterfly lever



SUS316 equivalent material is used for the liquid contact parts.

* SUS316 equivalent ▶ SUS316 or CF8M

Stem for fixing the handle will not come off the Ball valve body.

Prevent stem come-off Ball valve body.

No installation restrictions.

IN/OUT flow can be connected to both sides of valve.

Oil-free for all parts. No copper-based material is used.

Specifications

Fluid medium	Air, Inert gas such as Nitrogen/ Helium (no toxic), Water/ Liquid (Conditional*), Other chemicals (Conditional*)
Max. operating pressure (*2)	NSBVF10 Series: 5.5MPa (-29 to 77°C) NSBVF30 Series: 6.9MPa (-29 to 38°C)
Max. vacuum	-101 kPa
Operating temp. range (*2)	-29 to 232°C (No Freezing of liquid)

△ Warning

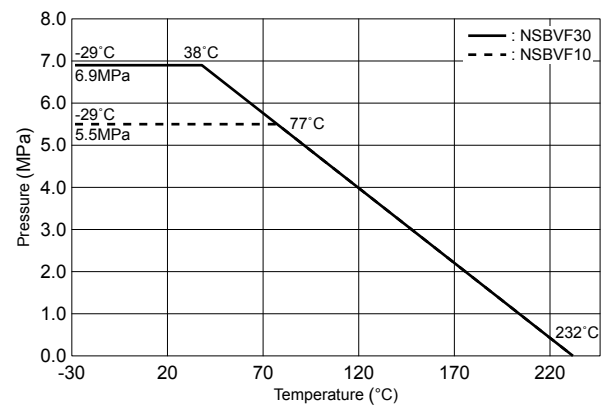
*1. Conditions when fluid medium is liquid or chemical are as below.

1. Surge pressure must be controlled lower than maximum operating pressure.
2. Tap water in Japan, which is soft water (low mineral content) can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. The specification above may not be applied, depending on chemicals or mixed gases used as fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.
4. Liquids and chemicals are limited to those that do not negatively affect the valve material.

*2. Valve maximum operable pressure varies upon operating temperature. Please refer to the "Relation of Operating Temp. & Max. Operating Pressure" graph when use and operate in the condition.

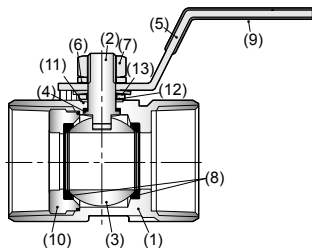
*3. The specifications on the fitting of "Ball valve SUS316 Equivalent with SUS316 push-in fittings" are the same as those of "Tube Fitting SUS316". For details, please refer to the specifications of the tube fitting SUS316 series.

Relation of Operating Temp. & Max. Operating Pressure



Sectional drawing

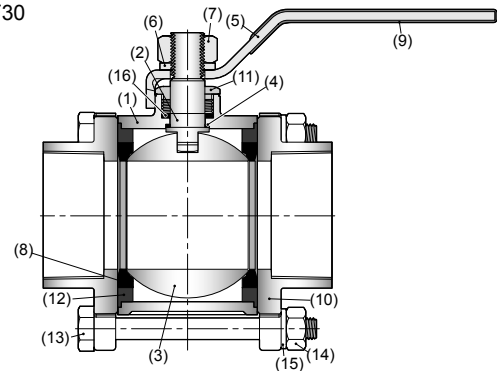
■ For NSBVF10



No.	Parts	Material
(1)	Body	SUS316 equivalent
(2)	Stem	SUS316 equivalent
(3)	Ball	SUS316 equivalent
(4)	Thrust washer	PTFE
(5)	Handle	SUS304 equivalent
(6)	Handle washer	Stainless steel
(7)	Handle nut	Stainless steel
(8)	Ball seat	PTFE
(9)	Handle cover	PVC
(10)	Seat retainer	SUS316 equivalent
(11)	Packing	PTFE
(12)	Washer	SUS304 equivalent
(13)	Dish spring washer	SUS304 equivalent

* Parts other than wetted parts are made of stainless steel other than SUS316 equivalent.

■ For NSBVF30



No.	Parts	Material
(1)	Body	SUS316 equivalent
(2)	Stem	SUS316 equivalent
(3)	Ball	SUS316 equivalent
(4)	Thrust washer	PTFE
(5)	Handle	SUS304 equivalent
(6)	Handle washer	Stainless steel
(7)	Handle nut	Stainless steel
(8)	Ball seat	PTFE
(9)	Handle cover	PVC
(10)	End cap	SUS316 equivalent
(11)	Grand Nut	Stainless steel
(12)	Retainer seal	PTFE
(13)	Flange bolt	Stainless steel
(14)	Nut	Stainless steel
(15)	Spring washer	Stainless steel
(16)	Grand washer	PTFE

RoHS2 (2011/65/EU+EU2015/863) compliant

10 Series		30 Series	
Type	Model code NSBVF10-Rc	Type	Model code NSBVF30-Rc
Reduced bore NSBVF	NSBVF10-02 NSBVF10-03 NSBVF10-04	Full bore NSBVF	NSBVF30-02 NSBVF30-03 NSBVF30-04
			

 CAD data is available at PISCO website.

 Packaging specifications
1 pc. /bag

Accessories for 10 Series

Type	Model code NSBV10-øDøD	Type	Model code SSPCøD-RM	Type	Model code NSBL10-Rc
With push-in fitting type NSBV	NSBV10-44 NSBV10-66 NSBV10-88 NSBV10-1010 NSBV10-1212 NSBV10-1616	Dedicated push-in fitting SSPC	SSPC4-02M SSPC6-02M SSPC8-03M SSPC10-03M SSPC12-04M SSPC16-04M	Butterfly lever NSBL	NSBL10-02 NSBL10-03 NSBL10-04
					