

BALL VALVE

MODEL BV1 STAINLESS STEEL

STAINLESS STEEL BALL VALVE WITH TIGHT GLAND SEALING AND HANDLE LOCK FEATURE

Features

All stainless steel full bore ball valve of 3-piece design for steam, water and air.

- 1. Valve seats made of heat resistant carbon fiber-filled PTFE.
- 2. Stem is double-sealed with a heat resistant carbon fiber-filled PTFE gland and two FPM O-rings.
- 3. All internal body surfaces machined.
- 4. Equipped with a handle lock feature which prevents handle operation resulting from accidental contact, etc.



Specifications

Model		BV1
Connection		Screwed
Valve Port		Full Bore
Size		1/2", 3/4", 1", 11/4", 11/2", 2", 21/2", 3"
Maximum Operating Pressure (barg)	PMO	10
Maximum Operating Temperature (°C)	TMO	185
Applicable Fluid*		Steam, Water, Air

^{*}Do not use for toxic, flammable or otherwise hazardous fluids.

1 bar = 0.1 MPa

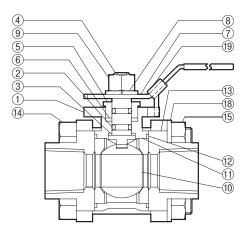
PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 10

Maximum Allowable Temperature (°C) TMA: 185

CAUTION

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Cast Stainl. Steel A351 Gr.CF8	1.4312	_
2	Stem Seal O-Ring	Fluorine Rubber FPM	FPM	D2000HK
3	Thrust Washer	Carbon fiber-filled PTFE	PTFE	PTFE
4	Stem	Stainless Steel SUS304	1.4301	AISI304
<u>(5)</u>	Gland	Stainless Steel SUS304	1.4301	AISI304
6	Gland Packing	Carbon fiber-filled PTFE	PTFE	PTFE
7	Handle	Stainless Steel SUS304	1.4301	AISI304
8	Spring Washer	Stainless Steel SUS304	1.4301	AISI304
9	Handle Nut	Stainless Steel SUS304	1.4301	AISI304
10	Ball	Cast Stainl. Steel A351 Gr.CF8	1.4312	_
11)	Valve Seat	Carbon fiber-filled PTFE	PTFE	PTFE
12	Body Gasket	Fluorine Resin PTFE	PTFE	PTFE
13	Body End Cap	Cast Stainl. Steel A351 Gr.CF8	1.4312	_
14)	Body Bolt	Stainless Steel SUS304	1.4301	AISI304
15	Body Nut	Stainless Steel SUS304	1.4301	AISI304
16	Handle Stop Nut**	Stainless Steel SUS304	1.4301	AISI304
17	Stop Nut Bolt**	Stainless Steel SUS304	1.4301	AISI304
18	Spring Washer**	Stainless Steel SUS304	1.4301	AISI304
19	Lock Plate	Stainless Steel SUS304	1.4301	AISI304



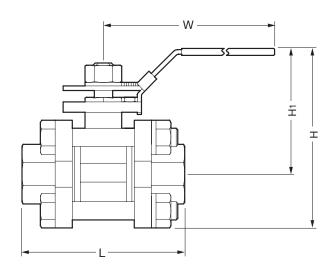
^{*} Equivalent materials ** Sizes $^{1}/_{2}^{''}$ - 2 , shown overleaf



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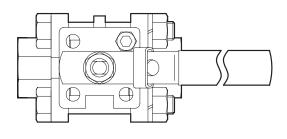
Dimensions

● BV1 Screwed

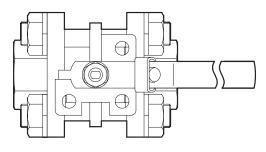


BV1 Screwed* (mm)										
Size	L	Н	H ₁	W	Weight (kg)					
1/2"	71	80	55	100	0.6					
3/4"	81	87	60	130	0.8					
1″	90	101	72	150	1.1					
11/4"	104	115	78		1.9					
11/2"	116	127	86	100	2.6					
2″	133	141	94	180	3.8					
21/2"	168	194	135	260	7.4					
3″	189	215	145		11					

^{*} BSP DIN 2999



Sizes 1/2" -2"



Sizes 21/2"-3"

Handle Lock Feature

Note: For installations on vertical or horizontal piping where the handle is not on top, there may be cases in which the handle lock plate slides back, preventing use of the lock feature. In such cases, the lock plate should be secured with a pin, wire or lock, etc.

Manufacturer
TLV® CO.,LTD.
Kakogawa, Japan
is approved by LR04 Ltd. to ISO 9001/14001

