

Key Operat on Ball Valves

Key Operation Ball Valves (a ball valve that can be opened or closed with Master Key) were first developed by BMT in 2007. Key Operation Ball Valves are secured against undesired manipulation that can lead to system failures.



Features

- The valve can only be operated by inserting Master Key into the handle.
- Applicable to various types of valves such as ball, needle, diaphragm, and bellows valves.
- Accidents caused by inadvertent or unauthorized operation can be prevented.
- Ideal to use in areas populated or opened to unauthorized individuals, preventing accidents resulted from undesired manipulation.

Options

- Standard type: The locking function works at both open and closed positions as the Master Key is taken out from the handle.
- Open-Free type: At fully-opened position, it is impossible to close the valve without the insertion of the key. Suitable for systems where the stop of flow from inadvertent or unauthorized manipulation may lead to catastrophic results.
- Close-Free Type: At fully-closed position, it is impossible to open the valve without the insertion of the key.

 Suitable for systems where the start of fluid flow from inadvertent or unauthorized may lead to catastrophic results.

Key Operation Ball Valve

Ball • Plug Valves

Low Pressure Key Operation Ball Valves

SBVL210 Series

Features

- Locking handle in both On and Off positions
- Compact design
- Low operating torques
- Variety of End connections



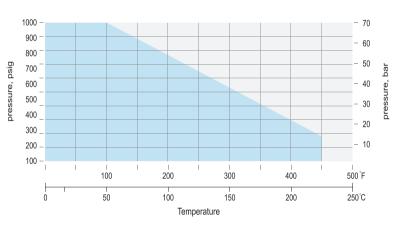
Specifications

- Pressure rating: 1000psig (69bar) @100 °F (38 °C)
- Temperature rating
- Body material: 316 stainless steel
- Port Connections: 1/4 to 1 in. and 6 to 25mm
- Orifice: 5.0 to 16.0mm

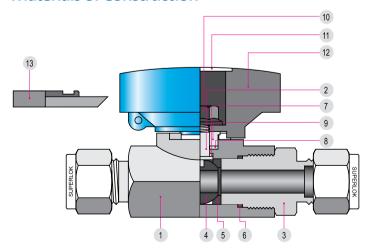
Testing

- Each and every valve is tested with nitrogen at 1000psig (69bar).
- The valves have max allowable leak rate of 0.1 cm³/min
- Shell testing can be performed upon request.

Pressure-Temperature Rating



Materials of Construction



No.	Component	Material Grade ASTM Specification			
*1	Body	A185-F316 / A276-316 / A351-CF8M			
*2	Stem	A276-316			
*3	End Connector	A276-316			
*4	Ball	A276-316			
*5	Ball Seal	PTFE			
*6	Connector Seal	PTFE			
*7	Lower Stem Seal	PTFE			
*8	Upper Stem Seal	PTFE			
*9	Stem Washer	A276-304			
10	Nut	Stainless Steel			
11	Handle Cap	Aluminum			
12	Handle	Aluminum			
13	Master Key	Zinc			

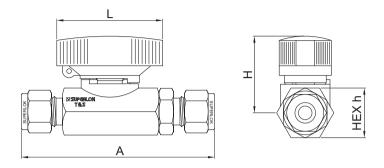
^{*} Wetted components

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Table of Dimensions

SBVL210 Series



Part No.		Orifice	Cv	End Connection	Dimensions			
					h	Α	Н	L
SBVL 210	S6M	F 0	1.25	6mm SUPERLOK	10.0	79.8	32.3	42.0
	S4 5.0	5.0		1/4" SUPERLOK	18.0			
	S10M	7.0	2.5	10mm SUPERLOK	22.2	91.5	35.6	50.0
	S6			3/8" SUPERLOK				
	S12M	9.0	0.5	12mm SUPERLOK	27.0	101.4	37.6	50.0
	S8		9.5	1/2" SUPERLOK				
	S16M	40.5	10.7	16mm SUPERLOK	24.0	107.0	(0.4	60.0
	S12 12.5	12.7	3/4" SUPERLOK	31.8	107.0	40.4	60.0	
	S25M	47.5	25mm SUPERLOK	20.1	424.0	/2 F	60.0	
	S16	S16 16.0	17.5	1" SUPERLOK	38.1	131.0	43.5	60.0

- Dimensions and Drawings are for reference only and are subject to change without prior notice.
- Unless otherwise specified, all dimensions are in millimeters.
- Sizes, pressure classes, and end connections not listed are available upon request.
- Dimensions shown with SUPERLOK nuts finger-tight, where applicable.

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Ordering Information

Example:
$$\frac{SBVL 210}{1} - \frac{S8}{23} - \frac{RD}{4} - \frac{OT}{5}$$

1. Valve Series

□ SBVL210

3. End Connection Size

Tube O.D

Tube O.D (inch)	1/4	3/8	1/2	3/4	1
Designator	4	6	8	12	16
Tube O.D (inch)	6	10	12	16	25
Designator	6M	10M	12M	16M	25M

4. Handle Color

□ (Blank)= Blue (Standard)

□ **RD** = Red

□ **BK** = Black

2. End Connection

□ **S** = SUPERLOK Tube Fitting

□ **F** = Female Thread

□ **M** = Male Thread

Pipe Thread

Size (inch)	1/4	3/8	1/2	3/4	1
Screwed BSPT	4R	6R	8R	12R	16R
Screwed NPT	4N	6N	8N	12N	16N

5. Valve Type*

□ (Blank) = Standard Type

□ **OT** = Open Free Type

 \Box CT = Close Free Type

^{*} Please refer to page 282 for the valve types.