

Features

- Use of austenite-based (Cr-Ni-based) stainless steel, which offers superior corrosion resistance and durability.
- A lineup of two series of valves (H-series and S-series) that take into account the lifecycle and serve various applications and purposes.
- Consideration was given to strength balance in the design of these valves. Lost wax casting is employed in the H-series valves to help improve the aesthetic appearance of the overall device.

Production Standard

Series		Mini ball valve		Ball valve (general-purpose, for high temperatures, floating type)				Ball valve (general-purpose, trunnion type)		
Class		600 Type	800 Type	10K	20K	150lb	300lb	10K	150lb	
Specification standard	End-to-end dimensions	Hitachi Valve standard		JIS B 2002		ASME B 16.10		JIS B 2002	ASME B 16.10	
	Thickness	Hitachi Valve standard		ASME B 16.34(1996)						
	Connection	JIS B 0203 Taper pipe threads		JIS B 2220 10K-RF	JIS 2220 20K-RF	ASME B 16-5(1996) 150lb-RF	ASME B 16-5(1996) 300lb-RF	JIS B 2220 10K-RF	ASME B 16-5(1996) 150lb-RF	
	Packing	Reinforced PTFE	PTFE	PTFE						
	Seat	Reinforced PTFE	Reinforced PTFE	Special PTFE (FT seat *1: general-purpose, P seat*2: for high temperatures)				PTFE		
	Retainer O-ring	—	—	—	—	—	—	FKM*3		
Scope of use		See "Mini ball valve," "Ball valve (floating)," and "Ball valve (trunnion)" in the section "Pressure-Temperature Range" on page 3.								
		Caution: 1.Usable: Heavy oil (A/ B/ C), lubricant oil, turbine oil (#90 or higher), coat tar, and pitch 2.Unusable: Crude oil, naphtha, gasoline, kerosene, turbine oil (#80 or lower), and heat-transfer oil								
Test Pressure	Valve body pressure resistance	Water pressure	6.3 MPa	8.3 MPa	2.10 MPa	5.10 MPa	2.85 MPa	5.88 MPa	2.10 MPa	2.85 MPa
	Valve seat leakage	Water pressure	—		1.54 MPa	3.74 MPa	2.09 MPa	4.31 MPa	1.54 MPa	2.09 MPa
		Air pressure	0.59 MPa							

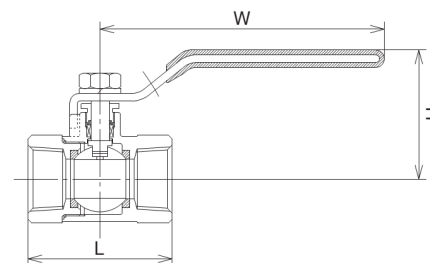
*1 The special PTFE (FT seat) combines the excellent properties of PTFE and PFA.

*2 The special PTFE (P seat) consists of multiple PTFE monomers, including a carbon-based reinforcing material, and can be used for fluid at temperatures of up to 300°C.

*3 Special customization is available for the conditions of use.



Product Name	Material	Remarks
Body	SCS14A	
Ball	SCS14A	
Stem	SUS316	
Seat ring	Reinforced PTFE	
Packing	PTFE	
Handle	SUS304	PVC coating



Nominal (B)	L	W	(Reference) H
1/4	59	103	49
3/8	59	103	49
1/2	59	103	49
3/4	66.5	103	54
1	77	109	63
1 1/4	92	145	78
1 1/2	101	145	82
2	122	180	93

Unit: mm