

# Standard Specification for 2way Globe Control Valves

*Control & Metal Ball Valve Manufacture*

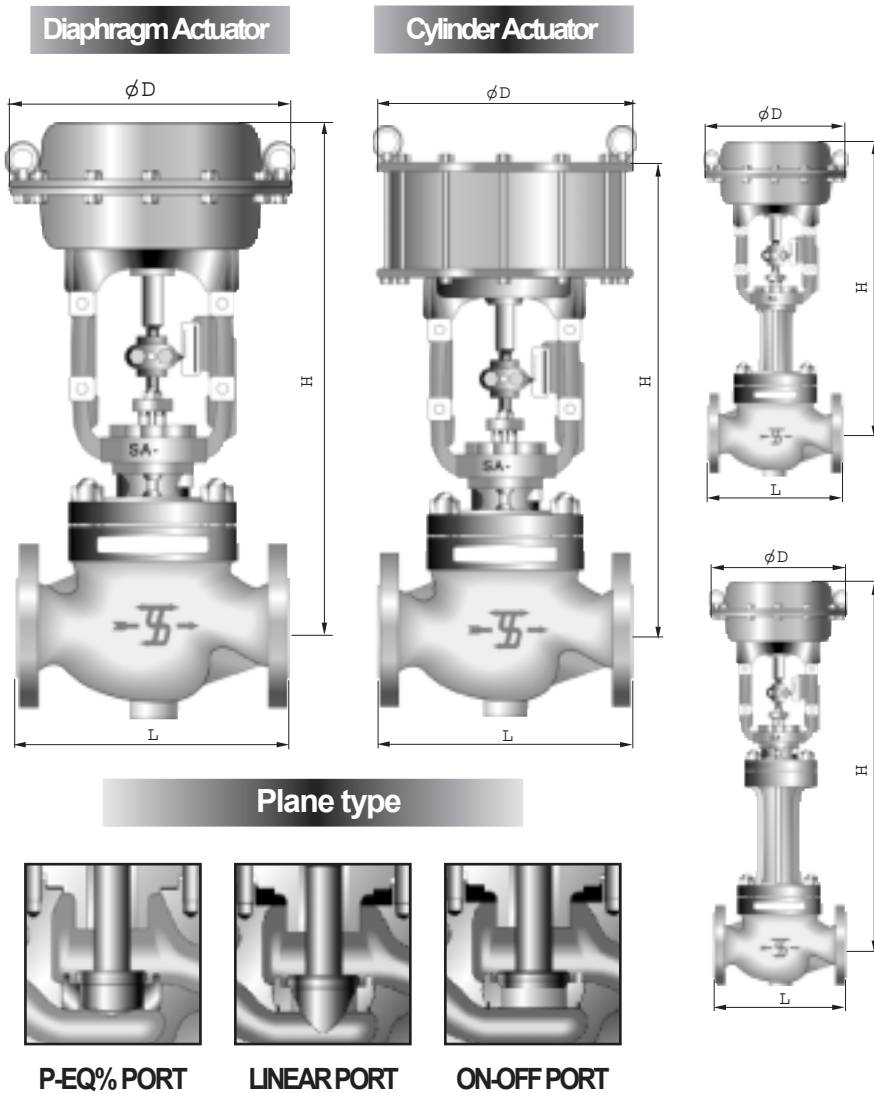
## Top Guided Single Seated Model 1100

### Model : 1100 Series

Table 3. Specifications

Valve Type		2 WAY GLOBE for Top Guide Single Seated											
Size	inch	1	1	1	1½	2	2½	3	4	5	6		
	mm	15	20	25	40	50	65	80	100	125	150		
Rated Travel (mm)		15	15	15	25	25	25	38	38	50	75		
Cv Valve (Full)	Contoured	6	9	14	28	40	50	70	90	130	130	280	340
	On-off	8	11	16	50	60	80	140	190	300	370		
Allowable Pressure Drop (kgf/cm <sup>2</sup> ) (Full STD)	Nor.	5.6	4.2	2.6	2.7	1.6	1.7	1.2	0.7	0.7	0.4		
	Max.	39.0	29.0	18.0	14.1	11.1	12.3	8.7	4.9	5.0	3.4		
Rangeability		30 : 1, 50 : 1, Etc.											
Applicable Pressure		JIS 10~63kgf/cm <sup>2</sup> ANSI 150~2500Lb DIN 5~250bar											
Applicable Temperature		-5~230°C (23~393°F), Option (-196~815°C (-325~1,500°F))											
End Connection		R.F& F.F Flanged, Socket Welding, Butt Welding, Threaded, Etc.											
Material	Body	SCPH 2 (A216 WCB), SCS 13 (A351 CF8), SCS 14 (A351 CF8M), Etc.											
	Trim	SUS 316 (A276 TY316), SUS 316-Stellite Hardfacing, Etc.											
	Packing	V-PTFE, Graphite, Etc											
	Gasket	SUS 304+PTFE or Graphite Spiral Wound Ring											
Type of Bonnet		Plane, Extension, Bellows, Cryogenic Service, Etc.											
Flow Characteristics		Equal %, Linear, Quick Open, Etc.											
Seat Leakage Rate (Standard)		Metal seat : ANSI B 16.104 IV (Less Than 0.01% of Cv Value), Option (V, VI) Soft seat : ANSI B 16.104 VI (Less Than 0.0001% of Cv Value)											
Actuator	Type	Multi Spring for Single Acting Pneumatic Diaphragm Actuator, Pneumatic Cylinder											
	Action	Direct or Reverse Action											
	Size (Travel)	ø220 (10,15), ø270 (15,25), ø310 (25,38), ø365 (38,50), ø450 (38,50,75), ø620 (75,100)											
	Spring Range	0.2~1.0 or 0.8~2.4 (kgf/cm <sup>2</sup> ), Etc.											
	Diaphragm, Cylinder, Piston	Ethylene Propylene Rubber Reinforced Nylon, Aluminum, Etc.											
	Ambient Temperature	-30°C~70°C (-22°F~158°F)											
	Air Connection	PT 1/4" Female Tap											
	Handwheel	Top Mounted, Side Mounted, Top Side Mounted											
	Hysteresis	Without Positioner : Within 5% With Positioner : Within 1%											
Linearity	Without Positioner : Within 5% With Positioner : Within 1%												
Accessory Option	Positioner	Electric per Pneumatic (E/P), Pneumatic per Pneumatic (P/P)											
	Air Set	Filter & Regulator											
	Solenoid V/V	3 Way 2 Port Seat Type Explosion Proof or Weather Proof, Etc											
	Limit S/W	Single Pole Double Through (SPDT), Double Pole Double Through (DPDT) Type Explosion Proof or Weather Proof											
	Other Option	Air Lock Valve, Volume Booster Relays, Motion Transmitter, Current to pressure (E/P) Transmitter, Lubricator/Isolating valve, Other											

## Top Guided Single Seated Model 1100



### Extension (+815°C) Cryogenic Service(-196°C)

Table 6. Unit : mm

Valve size (inch)	H (Body Center to Actuator Upper)		
	ANSI 600 Less than	ANSI 900	ANSI 1500
1/2	435	465	470
3/4	435	465	470
1	510	535	540
1-1/2	590	615	620
2	600	625	630
2-1/2	730	760	770
3	755	780	795
4	780	800	810
5	990	1010	1020
6	1095	1115	1130

### Bellows type(+570°C)

Table 7. Unit : mm

Valve size (inch)	H (Body Center to Actuator Upper)		
	ANSI 600 Less than	ANSI 900	ANSI 1500
1/2	595	625	630
3/4	595	625	630
1	670	695	700
1-1/2	730	755	760
2	750	765	770
2-1/2	900	930	940
3	925	955	965
4	970	1000	1010
5	1170	1190	1200
6	1270	1290	1300

Table 4. Dimensions

Unit : mm

Valve size (inch)	L (ANSI CLASS)					ϕD (Diaphragm)	H (Body Center to Actuator Upper)		
	150RF	300RF	600RF	900RF	1500RF		ANSI 600 Less than	ANSI 900	ANSI 1500
1/2	184	190	203	273	273	220	310	395	400
3/4	184	194	206	273	273	220	310	395	400
1	184	197	210	273	273	270	375	465	470
1-1/2	222	235	251	311	311	270	500	515	520
2	254	267	286	340	340	270	500	515	520
2-1/2	276	292	311	365	375	365	630	650	660
3	298	318	337	387	406	365	635	655	665
4	352	368	394	464	483	365	660	680	690
5	403	425	457	587	632	450	860	880	890
6	451	473	508	600	692	450	955	975	985

Note : Face to face dimensions conform to IEC 534-3:1976 Specifications.

Table 5. Flow Coefficients Cv

Part Size	3/8					1/2		3/4	1	1-1/4	1-1/2	2	2-1/2		3	4		5	6	
Travel	15	15	15	15	15	15	15	15	15	25	25	25	25	38	25	38	38	50	50	50
Contoured	0.4	0.6	0.8	1.0	1.6	3	6	9	14	28	40	50	70	90	130	130	180	280	340	
On-off	5	8	11	16	20	5	8	11	16	35	50	60	80	100	120	140	190	250	300	370