Tosilon Automation

Your Global Partner for Engineering

Valve

TGV310/320 Series

3-Way Diverting / Mixing Control Valve

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Mixing control valve is mainly used for mixing two fluids into a third fluid. Diverting control valve is mainly used for diverting one fluid into two fluids.

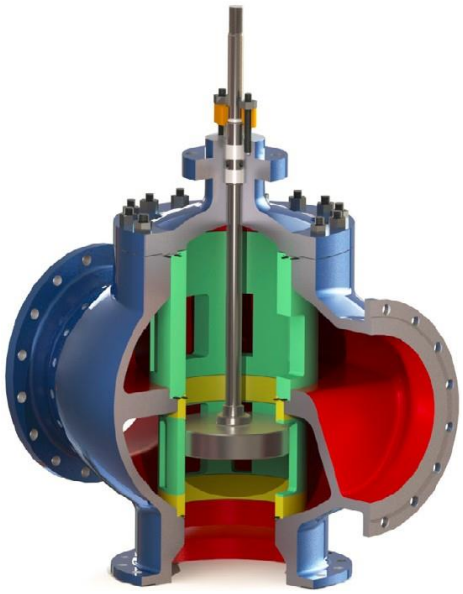
With control of the 3-way valve, when one circulation area between the plug and the valve seat gasket increases, the other one would decrease. The series can replace two mutual switch valves, and they can be applied to the control of liquid, gas, steam etc.

Performance Characteristics

TGV310/320 is a cage guided 3-way valve, blockage of plug and cage can be reduced due to its simple structure. This series can be applied to high temperature and high pressure occasions.

Un-balanced plug structure, mainly used for control of 3-way diverting or mixing occasions, cannot take too much close pressure difference

Leakage would be increased when the fluids flowing through the 3-way valve are with different temperature, because the degree of expansion of valve plug and seat are different. So normally, the two fluid temperature differences should not be more than 150 Deg. C



Product Advantage

1. Product costs and installation space can be reduced when using this series for fluid proportion control system, because it covers air-open and air-close control valves.
2. This series is suitable for diverting one fluid flow into two flows or mixing two fluid flows into one flow through a three-way valve.
3. The only difference between TGV310 and TGV320 is the flow direction, 3-way diverting valve TGV310 can be used as TGV320 by changing the flow direction.

STANDARD SPECIFICATION

BODY

Type	*TGV310*	Diverting type
	TGV320	Mixing type
Body Size	1"~18" (25A~450A / DN25~DN450)	
Plug Form	Pressure unbalanced plug type	
Characteristics	Equal percentage, Linear	
Trim Materials **Trim Treatment**	See Table 1& Fig.1 for hardening treatment and operating pressure-temperature.	
Body Rating	ANSI Class 150, 300, 600	
Body Connections	Flanged (RF, RTJ, MFM)	
Face to Face Dimension	See pages 12~22.	
Body & Bonnet Material	SCPH2/WCB, SCPH21/WC6, SCPH61/C5, SCPL1/LCB, SCS13A/CF8, SCS14A /CF8M, and other alloy steels. As to the operating pressure-temperature limitation for each material, see Tables 1 & 2.	
Bonnet Type	Standard Type	-5~ + 230 (Deg. C)
	Fin-Extension Type	-45~ under -5 Deg. C or over + 230 (Deg. C)
	Note the allowable operating pressure-temperature limitation for each material.	
Packing	Teflon V-ring, Teflon fiber, Teflon-Asbestos, Grafoil, etc. See Fig. 2 for selection.	
Gasket	Spiral wound metal, with Grafoil or Teflon filler. See Fig. 3 for selection.	
Painting Color	Munsell N-6 (Epoxy resin group) is standard. In the case of stainless steel body, no painting is standard.	

STANDARD SPECIFICATION

ACTUATOR

Type / Spec.	Diaphragm Type	Solid State Electronic Type		Pneumatic Cylinder Type
	PD3000LA	3500LB	3600LA	PC3000LA
	Multi-Spring Type	DC Motor Resolution: 0.3%	AC Motor Resolution: 0.4%	Double Acting Type
Purpose	Modulation	Modulation		Modulation
Air Supply **Power Supply**	Air supply (Spring range) 140 (20~100) KPa G 300 (80~200) KPa G 340 (80~200) KPa G 340 (120~300) KPa G	Power Supply: 220V 50/60Hz Input Signal: 4-20mA DC		Air Supply: 400~500 KPa G
Connection	Air Piping: See page 12~19	Wiring: See pages 21~22.		Air Piping : See pages 20
Direct Action	Air to Valve Shut	Signal Increase to Valve Shut		Valve Open or Shut by Air or Electric Signal.
Reverse Action	Air to Valve Open	Signal Increase to Valve Open		
Hysteresis	≤1% of FS with Positioner	≤0.5% FS	≤0.8% FS	≤1.5% of FS with Positioner
Linearity	≤±2% of FS with Positioner	≤±1% FS	≤±1% FS	≤±2% of FS with Positioner
Ambient Tempt.	-10~+70 Deg.C	-10~+55		-20~+60
Painting	Munsell: N-6	Metallic Blue		Munsell: N-6
Option	E/P•P/P-Positioner, Air-set, Solenoid valve, Limit switch, Speed controller Lock valve, Lock-up valve Manual handle, etc.	Resolution: 0.1% Split Range; Position Transmitter	Overload Unit	E/P•P/P-Positioner, Air-set, Solenoid valve, Limit switch, Speed controller, Lock valve, Lock-up valve, Manual handle, etc.
		Space Heater, Junction Box, Manual Handle, etc.		

PERFORMANCE

Rated Cv	See Table 3
Flow Characteristics	Linear, Equal Percentage
Rangeability	50:1
Seat Leakage	See Table 1 (Option: ANSI CLASS V)
Allowable Pressure Drops	See Table 4

OPTIONAL SPECIAL SPECIFICATIONS (additional cost is required)

Special Testing for Body	Material certificate, Liquid penetrant testing, Radiographic testing, Flow characteristic testing, Low temperature testing, Steam testing.
Special Cleaning for Body	Oxygen clean, Oil-free, Water-free
Special Specification for Body & Actuator	Sand and Dust proof, Salty environment proof, Cold area proof, Tropical area proof Copper-free alloy, Special piping and fitting, Vacuum service proof, bolt and nut for exposed parts, Non-standard painting.
Authorization	Japanese government authorization for high pressure gas.

STANDARD SPECIFICATION

Table 1 BODY/TRIM STANDARD MATERIAL COMBINATION, OPERATING TEMPERATURE AND SEAT LEAKAGE

Trim material/treatment vs operating temperature-pressure range: See Fig. 1.

When ANSI CLASS V for seat leakage is required, please consult us.

- **PH** Precipitation Hardening
- **HT** Heat Treatment
- **Hcr** Hard Chrome Plated
- **SS** Stellite Seat Surface
- **SF** Stellite Full Surface

Table 1-1 BODY MATERIAL: CARBON STEEL

Body Material	SCPH2/A216-WCB, SCPH21/A217-WC6, SCPH61/A217-C5, SCPL1/A352-LCB	
Cage	Material	SCS24(630)
	Treatment	PH
Plug	Material	410
	Treatment	HT
Seat Ring	Material	410
	Treatment	HT
Seat Leakage	ANSI	Class IV
	Rated CvX	0.01%
Operating Tempt. (Deg. C)	SCPH2/WCB Body	-5~+425
	SCPH21/WC6 Body	
	SCPH61/C5 Body	
	SCPL1/LCB Body	-45~+350

Table 1-2 BODY MATERIAL: STAINLESS STEEL

Body Material	SCS13A/A351-CF8, SCS14A/A351-CF8M			
Cage	Material	SCS14A(316)		
	Treatment	Hcr		
Plug	Material	316	316	316
	Treatment	- -	SS	SF
Seat Ring	Material	316	316	316
	Treatment	- -	SS	SF
Seat Leakage	ANSI	Class IV	Class IV	Class IV
	Rated CvX	0.01%	0.01%	0.01%
Operation Tempt. (Deg. C)		-45~250	-45~400	-45~538

STANDARD SPECIFICATION

Table 2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATING

Table 2-1 ANSI UNIT : MPa G

Tempt.	Class 150						Class 300						Class 600					
°C	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M
-196~38	-	-	-		1.90	1.90	-	-	-	-	4.95	4.95	-	-	-	-	9.91	9.92
-45~38	1.84	-	-		1.90	1.90	4.78	-	-	-	4.95	4.95	9.57	-	-	-	9.91	9.92
-5~38	1.84	1.96	1.99	1.99	1.90	1.90	4.78	5.10	5.16	5.16	4.95	4.95	9.57	10.20	10.32	10.32	9.91	9.92
50	1.81	1.92	1.92	1.92	1.84	1.84	4.72	5.00	5.10	5.16	4.77	4.80	9.46	10.01	10.22	10.32	9.56	9.62
100	1.72	1.76	1.76	1.76	1.56	1.61	4.51	4.63	4.88	5.14	4.08	4.21	9.02	9.27	9.74	10.29	8.17	8.43
150	1.57	1.57	1.57	1.57	1.39	1.47	4.40	4.51	4.63	5.01	3.62	3.85	8.78	9.04	9.26	10.03	7.26	7.69
200	1.40	1.40	1.40	1.40	1.25	1.37	4.26	4.38	4.54	4.88	3.27	3.56	8.54	8.75	9.09	9.75	6.54	7.12
250	1.20	1.20	1.20	1.20	1.16	1.20	4.05	4.16	4.44	4.62	3.04	3.34	8.11	8.33	8.88	9.26	6.10	6.67
300	1.01	1.01	1.01	1.01	1.01	1.01	3.76	3.87	4.23	4.23	2.91	3.15	7.54	7.74	8.48	8.48	5.80	6.32
350	0.84	0.84	0.84	0.84	0.84	0.84	3.59	3.69	4.01	4.01	2.81	3.03	7.18	7.38	8.04	8.04	5.60	6.07
375		0.73	0.73	0.73	0.73	0.73		3.64	3.88	3.88	2.77	2.96		7.28	7.75	7.75	5.54	5.93
400		0.64	0.64	0.64	0.64	0.64		3.44	3.65	3.65	2.74	2.91		6.89	7.31	7.31	5.48	5.81
425		0.55	0.55	0.55	0.55	0.55		2.88	3.50	3.44	2.71	2.87		5.74	7.01	6.91	5.42	5.72
450		0.47	0.47	0.47	0.47	0.47		1.99	3.38	3.08	2.68	2.81		4.00	6.75	6.17	5.37	5.61
475		0.37	0.37	0.37	0.37	0.37		1.35	3.16	2.58	2.65	2.73		2.70	6.32	5.17	5.30	5.46
500		0.28	0.28	0.28	0.28	0.28		0.88	2.77	2.02	2.60	2.67		1.75	5.55	4.04	5.20	5.37
525		0.18	0.18	0.18	0.18	0.18		0.51	2.02	1.53	2.19	2.57		1.03	4.04	3.07	4.77	5.15
538		0.13	0.15	0.15	0.15	0.15		0.34	1.63	1.34	2.18	2.53		0.72	3.26	2.69	4.55	5.06

Table 2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATING

Table 2-2 JIS UNIT : MPa G

Tempt.	10K	20K	30K		40K	
°C	SCPH2	SCPH2	SCPH2	SCPH21	SCPH2	SCPH21
-5~120	1.37	3.33	4.99	4.99	6.66	6.66
~220	1.17	3.03	4.50	4.50	6.07	6.07
~300	0.98	2.84	4.21	4.21	5.58	5.58
~350		2.54	3.82	3.82	5.09	5.09
~400		2.25	3.33	3.72	4.50	4.99
~425		1.96	2.94	3.52	3.92	4.70
~450						4.41
~475						4.11
~490						3.92
~500						3.72
~510						3.52

Fig. 1 OPERATING TEMPERATURE AND PRESSURE DROPS FOR TRIM MATERIAL COMBINATIONS

Fig. 1-1

Cage	SCS24 PH
Plug	410 HT
Seat Ring	410 HT

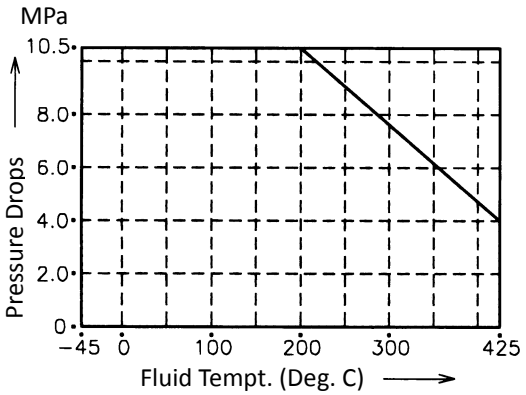


Fig. 1-2

Cage	SCS14A Hcr
Plug	316
Seat Ring	316

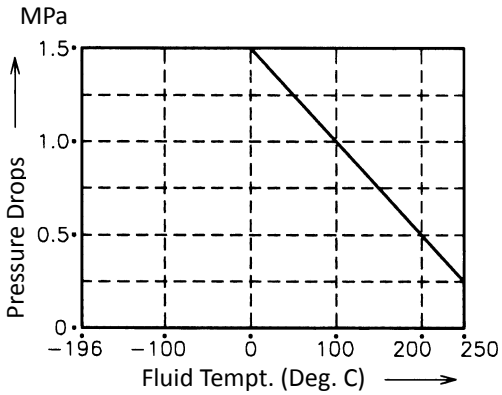


Fig. 1-3

Cage	SCS14A Hcr
Plug	316 SS
Seat Ring	316 SS

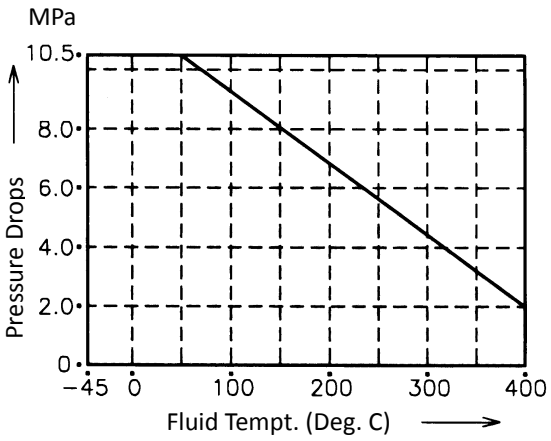


Fig. 1-4

Cage	SCS14A Hcr
Plug	316 SF
Seat Ring	316 SF

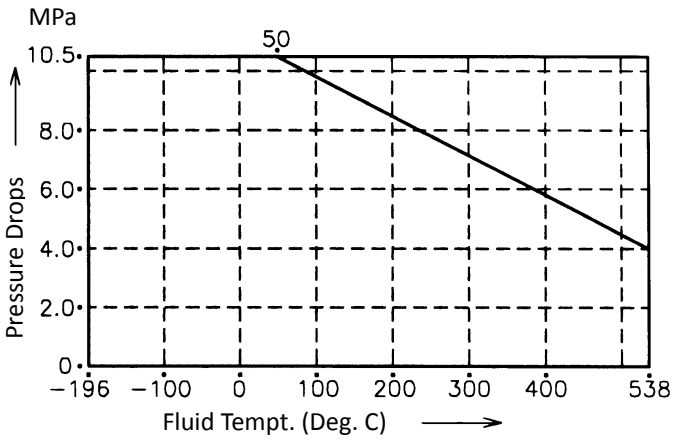


Fig. 2 GLAND PACKING PRESSURE-TEMPERATURE RATINGS

Fig. 2-1 R.TFE V-RING

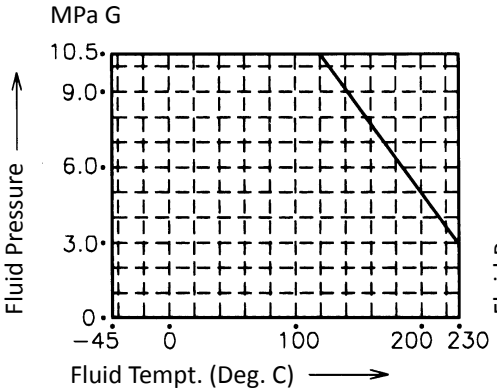


Fig. 2-2 TFE FIBER/TFE- ASBESTOS

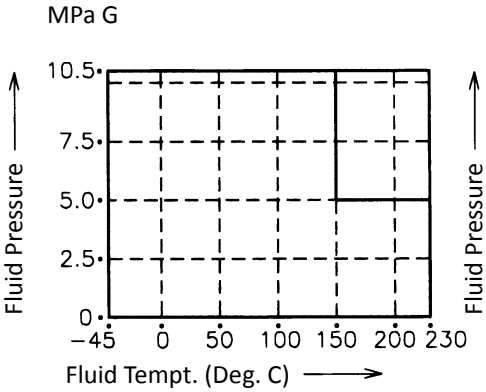


Fig. 2-3 GRAFOIL

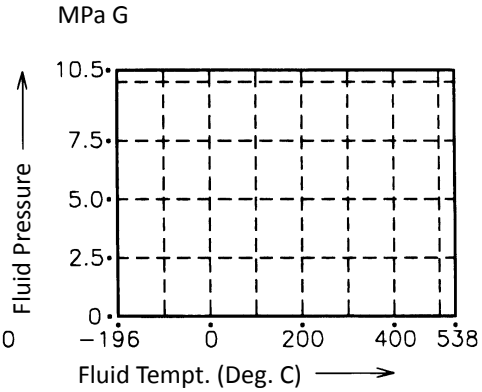


Fig. 3 GASKET PRESSURE-TEMPERATURE RATINGS

Fig. 3-1 GRAFOIL/316

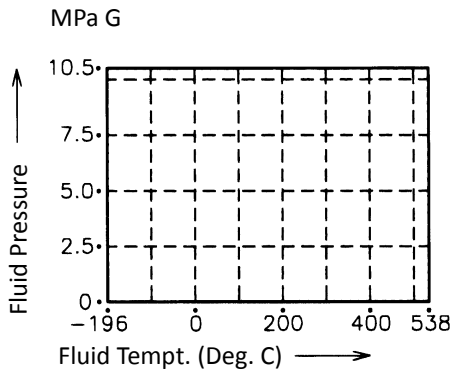


Fig. 3-2 TEFLON/ 316

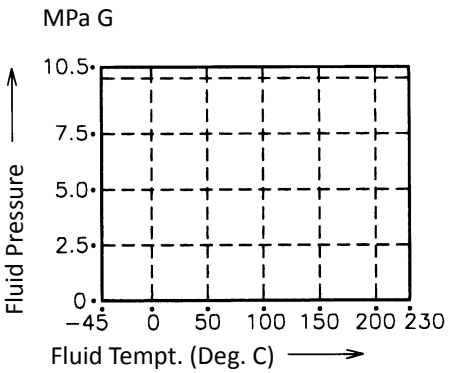


Table 3 Cv VALUE AND STROKE

Valve Size inch (mm)	Plug Size inch (mm)	Rated Cv		Stroke mm
		EQ%	Linear	
1 (25)	5/8 (16)	6.3	8	20
	3/4 (20)	10	13	20
1.5 (40)	1 (25)	17	20	20
	1.25 (32)	25	30	20
2 (50)	1.25 (32)	25	30	20
	1.5 (40)	36	40	20
3 (80)	2 (50)	60	70	30
	2.5 (65)	100	115	30
4 (100)	2.5 (65)	100	115	40
	3 (80)	135	150	40
6 (150)	4 (100)	190	215	50
	5 (125)	280	315	60

Valve Size inch (mm)	Plug Size inch (mm)	Rated Cv		Stroke mm
		EQ%	Linear	
8 (200)	6 (150)	410	435	60
	7 (175)	500	550	60
10 (250)	7 (175)	500	550	60
	8 (200)	650	735	80
12 (300)	8 (200)	650	735	80
	10 (250)	950	1050	90
14 (350)	10 (250)	950	1050	90
	12 (300)	1300	1400	100
16 (400)	12 (300)	1300	1400	100
	14 (350)	1600	1900	130
18 (450)	14 (350)	1600	1900	130
	16 (400)	1800	2000	150

Fig. 4 FLOW DIRECTION

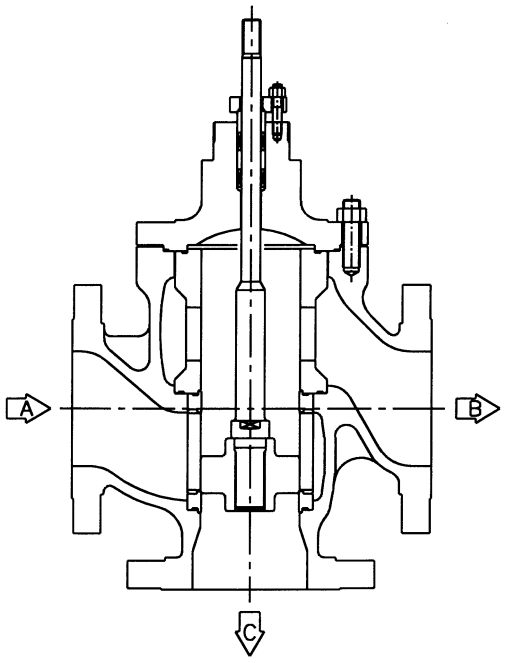
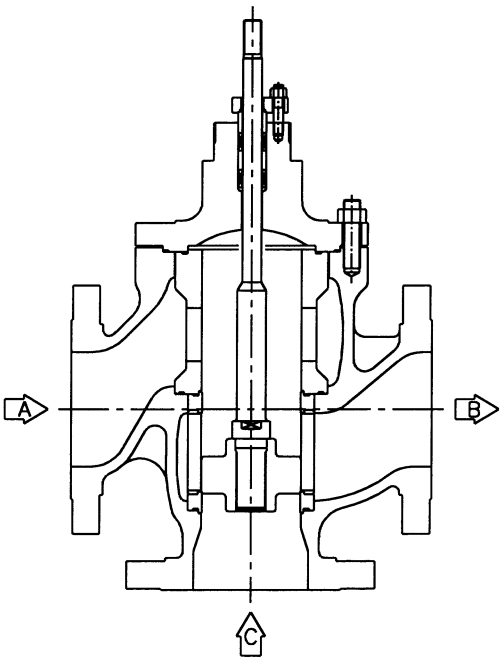
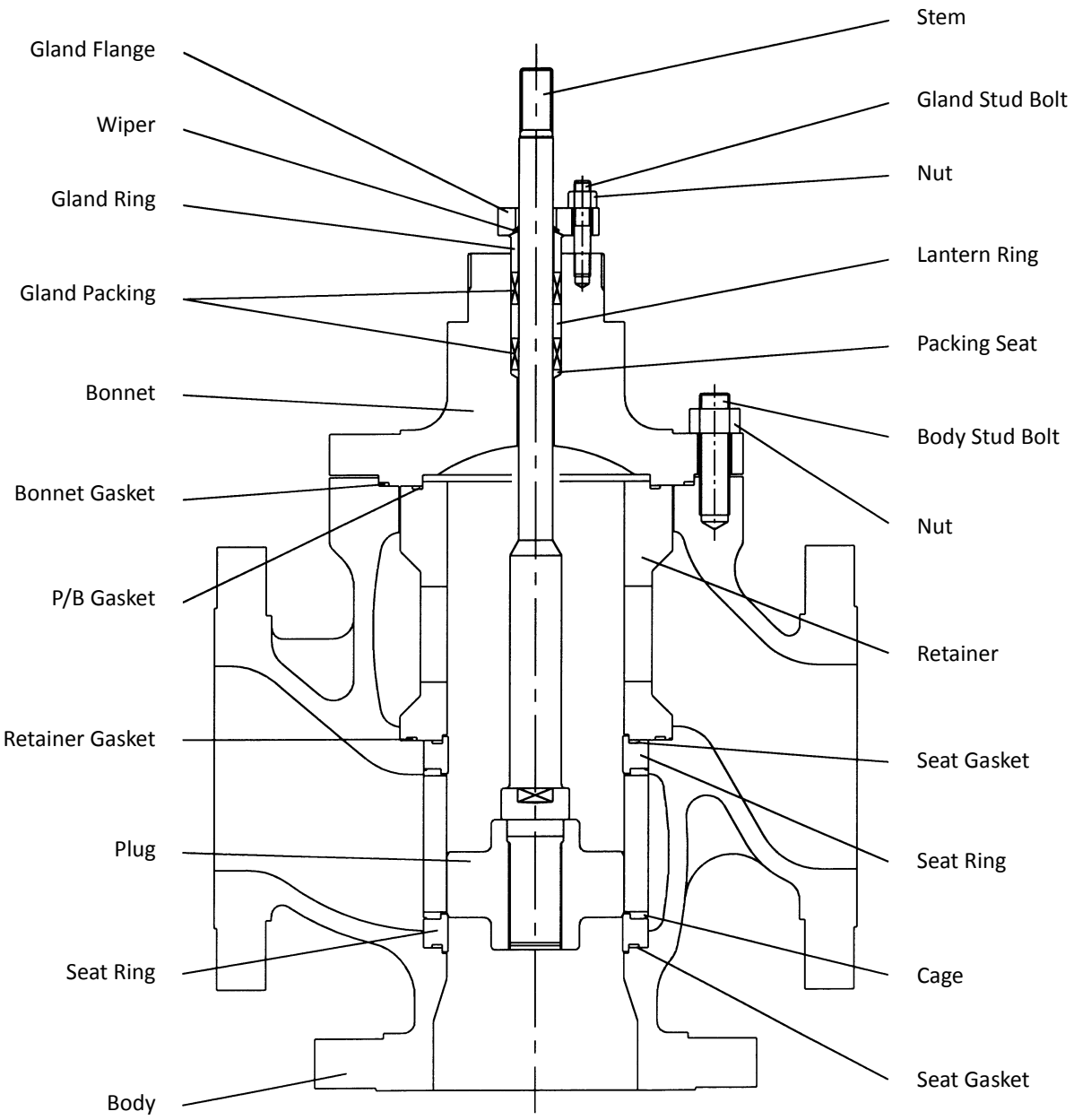
Valve Type	GV310: Diverting Type				GV320: Mixing Type			
Valve Size	1"~18" (25A~450A)				1"~18~ (25A~450A)			
Actuator	Direct Acting		Reverse Acting		Direct Acting		Reverse Acting	
	Air to Stem down	Air less Stem up	Air to Stem up	Air less Stem down	Air to Stem down	Air less Stem up	Air to Stem up	Air less Stem down
Flow Direction	A→B	A→C	A→C	A→B	A→B	C→B	C→B	A→B
Flow Direction								

Fig. 5 BODY SECTION VIEW



STANDARD SPECIFICATION

Table 4 ALLOWABLE PRESSURE DROPS (UNIT: MPa)

See pages 12~22, for valve size-actuator size combinations.

DA Direct Action (Air to valve shut)

RA Reverse Action (Air to valve open)

Table 4-1 DIAPHRAGM ACTUATOR (PD3000LA)

Table 4-1A PACKING: R. TFE V-RING, TFE-ASBESTOS, TFE FIBER

Actuator Size	Air supply (Off-Balance) KPa G	Spring Range KPa G	Seat Ring	Plug Size (inch)													
				5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6	7	8	10	12
218	140 (20)	DA&RA 20~100	Metallic Seal	-	-	-	-											
	300 (80)	DA&RA 80~200	Metallic Seal	9.89	2.23	0.95	0.49											
	340 (120)	DA: 80~200 RA: 120~300	Metallic Seal	9.89	4.15	2.07	1.14											
270	140 (20)	DA&RA 20~100	Metallic Seal	-	-	-	-	-	-									
	300 (80)	DA&RA 80~200	Metallic Seal	9.89	4.38	2.44	1.35	0.80	0.47									
	340 (120)	DA: 80~200 RA: 120~300	Metallic Seal	-	7.55	4.28	2.43	1.48	0.91	0.59								
350	140 (20)	DA&RA 20~100	Metallic Seal	-	-	-	-	-	-									
	300 (80)	DA&RA 80~200	Metallic Seal	-	-	5.29	3.02	1.85	1.15	0.75								
450	140 (20)	DA&RA 20~100	Metallic Seal	-	-	1.40	0.75	0.42	-	-								
	300 (80)	DA&RA 80~200	Metallic Seal	-	-	9.85	5.69	3.53	2.22	1.48	0.99	0.58	0.37	0.24	0.18			
650	300 (80)	DA&RA 80~200	Metallic Seal	-	-	-	-	-	-	3.48	2.38	1.42	0.94	0.71	0.55	0.42	0.28	0.18

Table 4-1 B PACKING: GRAFOIL

Actuator Size	Air supply (Off-Balance) KPa G	Spring Range KPa G	Seat Ring	Plug Size (inch)													
				5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6	7	8	10	12
218	300 (80)	DA&RA 80~200	Metallic Seal	5.92	1.25	-	-											
	340 (120)	DA: 80~200 RA: 120~300	Metallic Seal	9.89	3.17	1.28	0.68											
270	300 (80)	DA&RA 80~200	Metallic Seal	9.89	3.02	1.65	0.89	0.51	0.29									
	340 (120)	DA: 80~200 RA: 120~300	Metallic Seal	-	6.20	3.49	1.97	1.19	0.72	0.46								
350	300 (80)	DA&RA 80~200	Metallic Seal	-	7.94	4.50	2.36	1.56	0.96	0.62								
450	300 (80)	DA&RA 80~200	Metallic Seal	-	-	8.90	5.14	3.18	2.00	1.32	0.89	0.52	0.33	0.17	0.13			
650	300 (80)	DA&RA 80~200	Metallic Seal	-	-	-	-	-	-	3.17	2.16	1.29	0.85	0.64	0.50	0.37	0.25	0.16

Table 4-2 DOUBLE ACTING CYLINDER ACTUATOR (PC3000LA)

Table 4-2A PACKING: R. TFE V-RING, TFE-ASBESTOS, TFE FIBER

Actuator Size	Air Supply KPa G	Seat Ring	Plug Size (inch)									
			3	4	5	6	7	8	10	12	14	16
300	400	Metallic Seal	4.02	2.42	1.61	1.22	0.95	0.72	0.50	-	-	-
	500	Metallic Seal	5.12	3.08	2.05	1.56	1.22	0.93	0.64	-	-	-
450	400	Metallic Seal				2.89	2.27	1.74	1.21	0.79	0.63	0.55
	500	Metallic Seal				3.66	2.88	2.21	1.53	1.01	0.81	0.70
600	400	Metallic Seal							2.22	1.47	1.18	1.01
	500	Metallic Seal							2.81	1.86	1.49	1.28

Table 4-2 B PACKING: GRAFOIL

Actuator Size	Air Supply KPa G	Seat Ring	Plug Size (inch)									
			3	4	5	6	7	8	10	12	14	16
300	400	Metallic Seal	3.80	2.28	1.52	1.15	0.90	0.68	0.47	-	-	-
	500	Metallic Seal	4.90	2.95	1.97	1.49	1.17	0.89	0.61	-	-	-
450	400	Metallic Seal					2.18	1.67	1.16	0.76	0.61	0.52
	500	Metallic Seal					2.79	2.14	1.48	0.98	0.78	0.67
600	400	Metallic Seal							2.17	1.44	1.15	0.99
	500	Metallic Seal							2.76	1.83	1.46	1.26

Table 4-3 SOLID STATE ELECTRONIC ACTUATOR (3500LB, 3600LA)

Table 4-3A PACKING: R. TFE V-RING, TFE FIBER, TFE-ASBESTOS

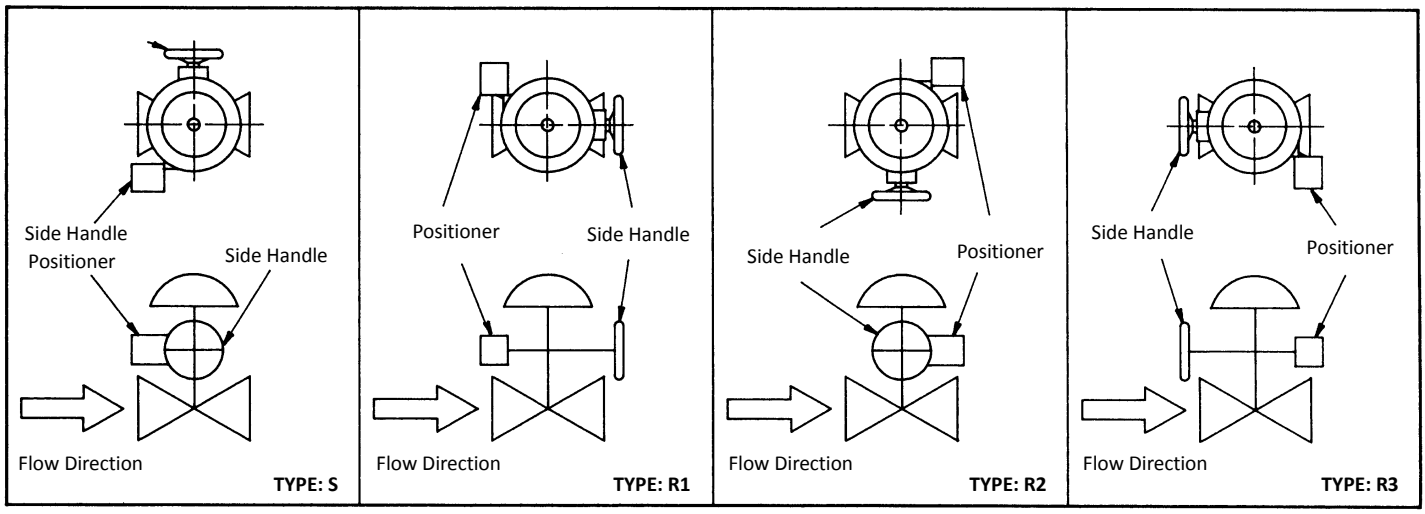
Actuator Size Code	Plug Size (inch)										
	5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6
35A2LB•36A2LA	9.89	3.15	1.73	0.94	0.54	-					
35B1LB•36B1LA	-	5.71	3.21	1.80	1.08	0.61					
35B2LB•36B2LA			6.18	3.54	2.17	1.31	0.86	0.57			
35C1LB•36C1LA						1.84	1.22	0.81	0.47		
35C2LB•36C2LA							1.87	1.27	0.75	0.49	0.36

Table 4-3B PACKING: GRAFOIL

Actuator Size Code	Plug Size (inch)										
	5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6
35B2LB•36B2LA	9.89	9.47	5.39	3.08	1.89	1.09	0.71	0.47			
35C1LB•36C1LA				4.18	2.58	1.61	1.06	0.71	0.41		
35C2LB•36C2LA						2.84	1.56	1.05	0.61	0.40	0.29

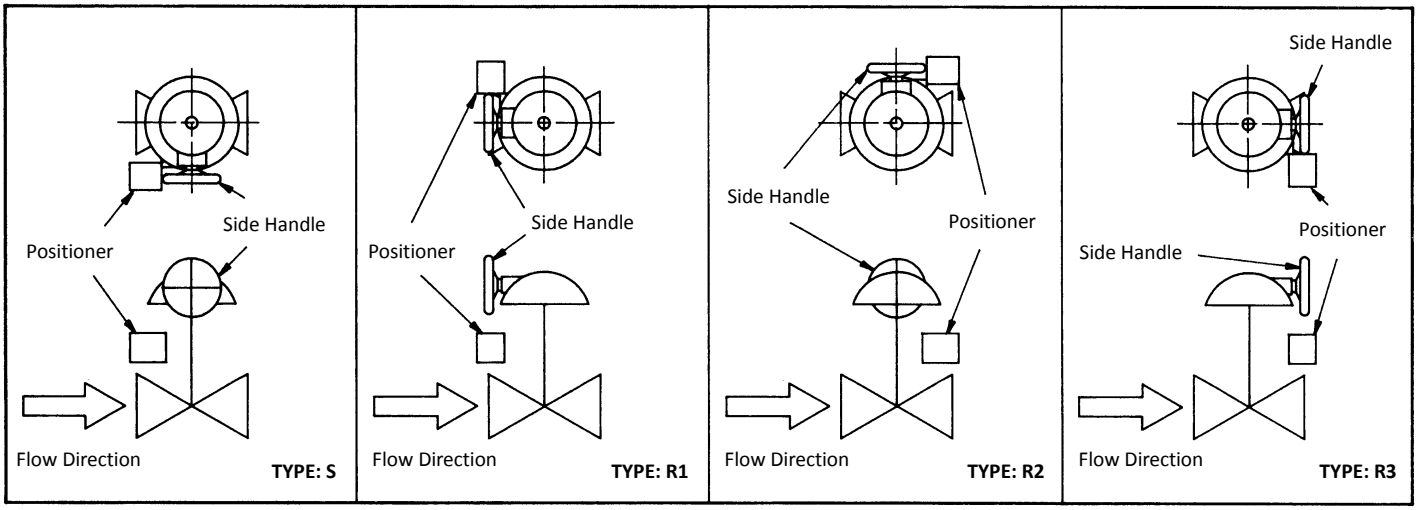
Fig.6 ACTUATOR MOUNTING FORMS FOR PD3000LA

Fig. 6-1 ACTUATOR SIZE: 218~450



NOTE: Type S is automatically applied, unless otherwise specified.

Fig. 6-2 ACTUATOR SIZE: 650



NOTE: Type S is automatically applied, unless otherwise specified.

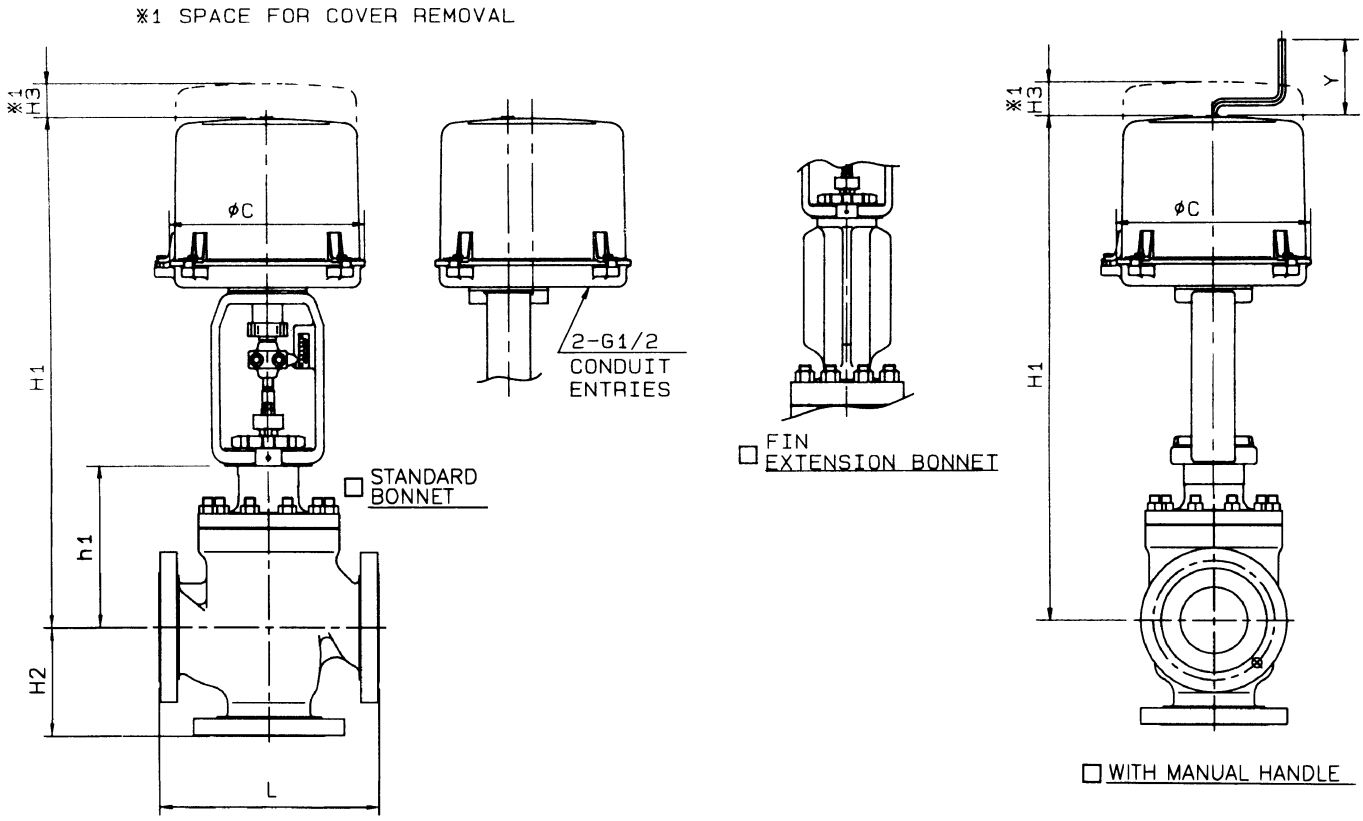
STANDARD SPECIFICATION

Table 5 NET WEIGHT OF STANDARD VALVE AND ACTUATOR COMBINED (UNIT: kg)

Only standard types are represented. Weights of accessories, a hand-wheel and the like are not included.

Valves Size Inch (mm)	Body Rating Class		Diaphragm Actuator Size PD3000LA							Double Acting Cylinder Actuator Size PC3000LA			Electronic Actuator Size		
	ANSI	JIS	218	270	350	450S	450L	650S	650L	300	450	600	35A2LB 36A2LA	35B1LB 35B2LB 36B1LA 36B2LA	35C1LB 35C2LB 36C1LA 36C2LA
1 (25)	150	10K	19	25	41								17	23	
	300	20K;30K	21	27	43								19	25	
	600	40K	22	28	44								20	26	
1.5 (40)	150	10K	31	38	54	89							30	36	
	300	20K;30K	37	44	60	95							36	42	
	600	40K	43	50	66	101							42	48	
2 (50)	150	10K		44	60	95							36	42	
	300	20K;30K		50	66	101							42	48	
	600	40K		56	72	107							48	54	
3 (80)	150	10K		60	76	111							52	58	
	300	20K;30K		73	89	124							65	71	
	600	40K		100	116	151							92	98	
4 (100)	150	10K				120	-	247	-	145				69	105
	300	20K;30K				142	-	269	-	167				91	127
	600	40K				194	-	321	-	219				143	179
6 (150)	150	10K					208	330	-	228					188
	300	20K;30K					251	373	-	271					231
	600	40K					318	440	-	348					298
8 (200)	150	10K					292	414	-	332	438				272
	300	20K;30K					363	485	-	363	469				343
	600	40K					510	632	-	500	606				490
10 (250)	150	10K						510	621	478	584				
	300	20K;30K						620	731	588	694				
	600	40K						915	1026	883	989				
12 (300)	150	10K							798	655	761	863			
	300	20K;30K							922	779	885	987			
	600	40K							1270	1127	1233	1335			
14 (350)	150	10K							1095	952	1120	1240			
	300	20K;30K							1298	1155	1323	1443			
	600	40K							1863	1720	1888	2008			
16 (400)	150	10K									1595	1715			
	300	20K;30K									2043	2163			
	600	40K									2948	3068			
18 (450)	150	10K									2305	2425			
	300	20K;30K									3069	3189			
	600	40K									4482	4602			

3 WAY TYPE Control-VALVE Motorized Actuator



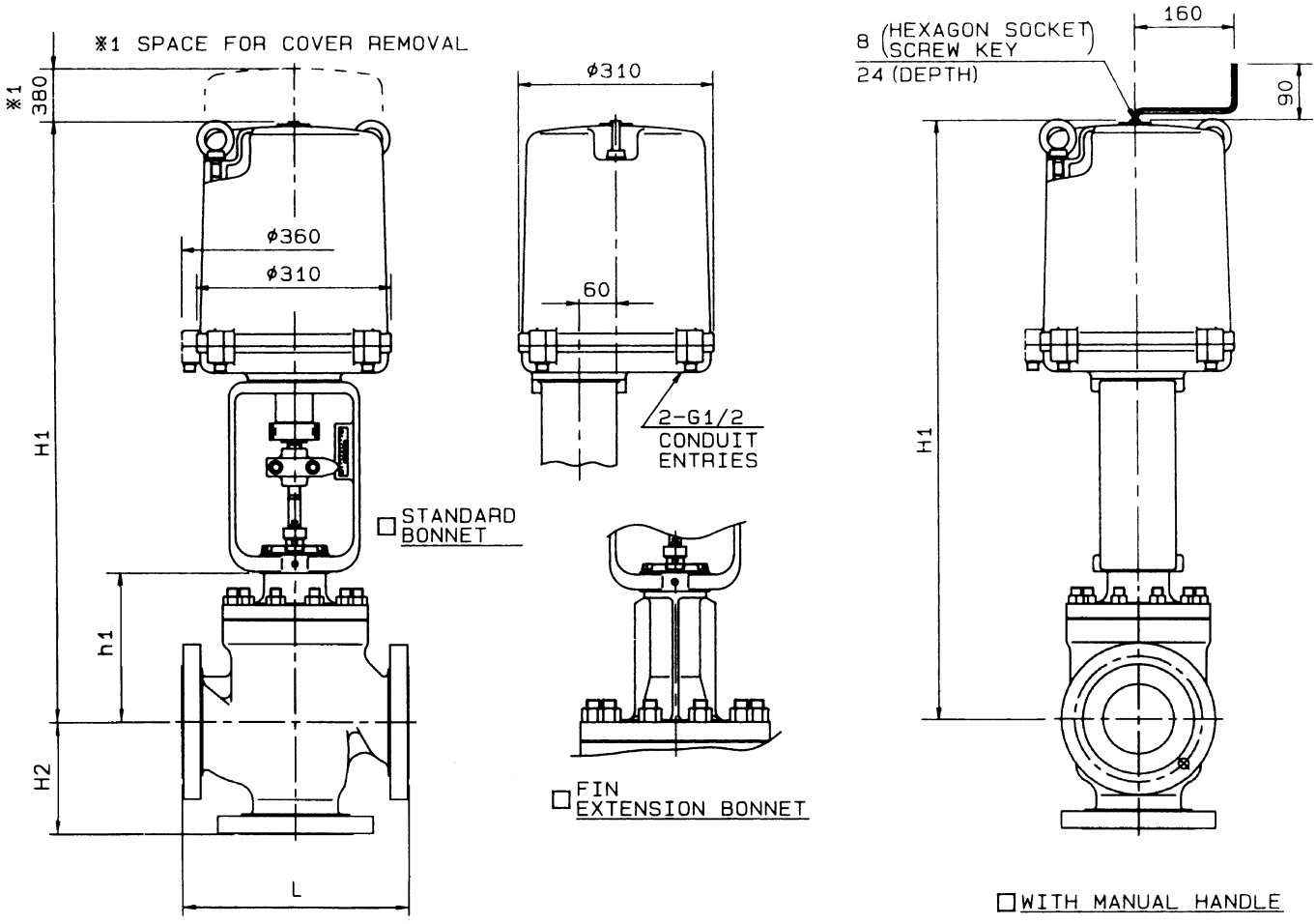
DIMENSIONS

UNIT: mm

No.	VALVE SIZE	FACE TO FACE ☐ANSI 150# RF ☐PN 16 ☐JIS 10KRF		☐ANSI 300# RF ☐PN 40 ☐JIS 20KRF ☐JIS 30KRF		☐ANSI 600# RF ☐PN 63 ☐PN 100 ☐JIS 40KRF		☐ANSI 300# RTJ ☐JPI 300# RTJ		☐ANSI 600# RTJ ☐JPI 600# RTJ		☐ STD. BONNET		☐ FIN EXT. BONNET		ACTUATOR			
		L	H2	L	H2	L	H2	L	H2	L	H2	h1	H1	h1	H1	H3	φC	Y	SIZE CODE No.
01	☐ 1" (25A)	184	92	197	98	210	105	210	105	210	105	157	560	257	660	205	225	87	☐35A2LB ☐36A2LA
													690		790	260	255	90	☐35B1LB ☐36B1LA
93	☐ 1.5" (40A)	222	111	235	117	251	125	248	124	251	125	175	580	325	730	205	225	87	☐35A2LB ☐36A2LA
													705		855	260	255	90	☐35B1LB ☐36B1LA
02	☐ 2" (50A)	254	127	267	133	286	143	283	141	289	145	196	600	346	750	205	225	87	☐35A2LB ☐36A2LA
													730		880	260	255	90	☐35B1LB ☐36B1LA
03	☐ 3" (80A)	298	149	317	159	337	168	333	167	340	170	201	605	351	755	205	225	87	☐35A2LB ☐36A2LA
													735		885	260	255	90	☐35B1LB ☐36B1LA
													785		935	260	255	90	☐35B2LB ☐36B2LA
04	☐ 4" (100A)	352	176	368	184	394	197	384	192	397	199	245	825	395	975	260	255	90	☐35B2LB ☐36B2LA

*FLANGE IS FOLLOWING TO A STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET.

3 WAY TYPE Control-VALVE Motorized Actuator



DIMENSIONS

UNIT: mm

No.	VALVE SIZE	FACE TO FACE ☐ANSI 150# RF ☐PN 16 ☐JIS 10KRF		☐ANSI 300# RF ☐PN 40 ☐JIS 20KRF ☐JIS 30KRF		☐ANSI 600# RF ☐PN 63 ☐PN 100 ☐JIS 40KRF		☐ANSI 300# RTJ ☐JPI 300# RTJ		☐ANSI 600# RTJ ☐JPI 600# RTJ		☐ STD. BONNET		☐ FIN EXT. BONNET		ACTUATOR SIZE CODE No.	
		L	H2	L	H2	L	H2	L	H2	L	H2	h1	H1	h1	H1		
04	☐ 4" (100A)	352	176	368	184	394	197	384	192	397	199	245	970	395	1120	☐35C1LB	☐36C1LA
													1033		1183	☐35C2LB	☐36C2LA
06	☐ 6" (150A)	451	225	473	236	508	254	489	244	511	256	305	1030	455	1180	☐35C1LB	☐36C1LA
												327	1115	477	1265	☐35C2LB	☐36C2LA
08	☐ 8"×6" (200A×150A)	543	272	568	284	610	305	584	292	613	307	365	1150	515	1300	☐35C2LB	☐36C2LA

*FLANGE IS FOLLOWING TO A STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET.