

MOTORIZED BALL VALVES

Type MJV

SAGINOMIYA

GENERAL DESCRIPTION

- Proportional Control valve for hot or chilled water, industrial water and steam circuit.
- Compact & Light weight design, manual operation is also available.
- Various types of water supply Equipments
- Air Handling Units
- Ice Storage Units



Type MJV

SPECIFICATIONS

Valve Type		Two-way Valve	Two-way Valve for Steam	Three-way Valve	
VALVE PART	Water Test Pressure	1.6MPa			
	Air Tight Pressure	1.6MPa			
	Max. Working Pressure	1.6MPa (0.2MPa for Steam)	1.6MPa (0.5MPa for Steam)	1.6MPa	
	Fluid	Non-corrosive water and Steam		Non-corrosive water	
	Fluid Temperature	0 to 120°C	0 to 160°C	0 to 90°C	
	Flow Characteristics	Equal Percentage		Corrected Linear	
	Valve Leakage	Cv: 0.1% or less			
Material	Body: Bronze Casting, Seat Ring: Fluoro-resin, O-ring: Fluoro rubber, Spindle: Stainless Steel, Plug: Stainless Steel				
MOTOR PART	Power Supply Voltage	24V.AC±10%, 50/60Hz			
	Max. power Consumption	12VA			
	Housing Construction	Rain-Proof (JIS C 0920 IP53)			
	Ambient Temperature	Operating Temp.: -10 to 50°C, Storage Temp.: -20 to 70°C			
	Timing	Approx. 52 sec.			
	INPUT SIGNAL	Resistance Input	0 to 135Ω		
		Current Input	DC 4 to 20mA (Input Impedance 250Ω)		
		Voltage Input	DC 1 to 5V (Input Impedance 100kΩ), DC 0 to 10V (Input Impedance 250kΩ)		
	Material	Case: PPS Resin, Cover: ABS Resin			
Manual Operation	Yes				
Flow Display	O: Open, S: Close		O: Open(C→A), S: Close(C→A)		
Movement of Valve	Input Signal 135Ω·4mA·1V·0V:Close		Input Signal 135Ω·4mA·1V·0V: Close(C→A)		

TYPE NUMBER SELECTION

Two-way Valve

Catalog No.			Connection Rc (O.D.)	Cv Value	Max. Operation Press. Differential (MPa)	Connection Fastening Torque (N·m)	Dimension			Wt. (kg)
Type	Model	Input Signal					H	L	D	
MJV-	1504GQ1	70 (Resistance 0 to 135Ω)	1/2"	1	1	34.3	152	56	34	1.5
	1504GQ2			2						
	1504G			3.5						
	2006G	71 (4 to 20 mA)	3/4"	6.5	49	155	69	43	1.7	
	2510G	72 (1 to 5 VDC)	1"	12	58.8	159	82	51	1.9	
	3212G	73 (0 to 10 VDC)	1-1/4"	20	78.5	165	97	65	2.6	
	4014G		1-1/2"	30	83.4	178	106	72	3.2	
	5020G		2"	45	98.1	185	128	90	4.6	

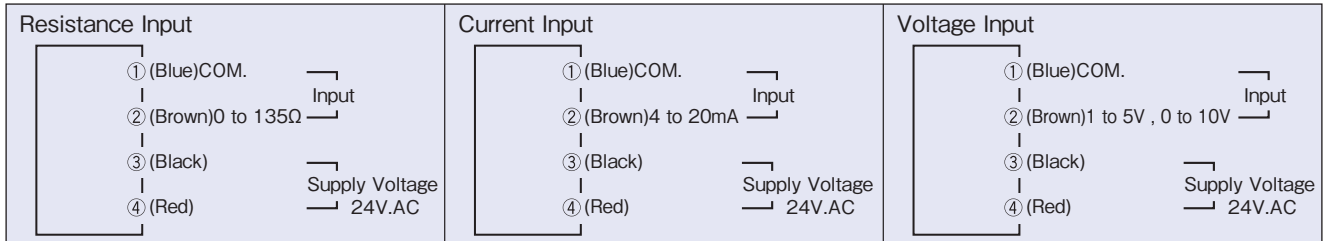
Two-way Valve for Steam

Catalog No.			Connection Rc (O.D.)	Cv Value	Max. Operation Press. Differential (MPa)	Connection Fastening Torque (N·m)	Dimension			Wt. (kg)
Type	Model	Input Signal					H	L	D	
MJV-	H1504GQ1	70 (Resistance 0 to 135Ω)	1/2"	1	1	34.3	202	56	34	1.8
	H1504GQ2			2						
	H1504G			3.5						
	H2006G	71 (4 to 20 mA)	3/4"	6.5	49	205	69	43	2.0	
	H2510G	72 (1 to 5 VDC) 73 (0 to 10 VDC)	1"	12	58.8	209	82	51	2.2	

Three-way Valve

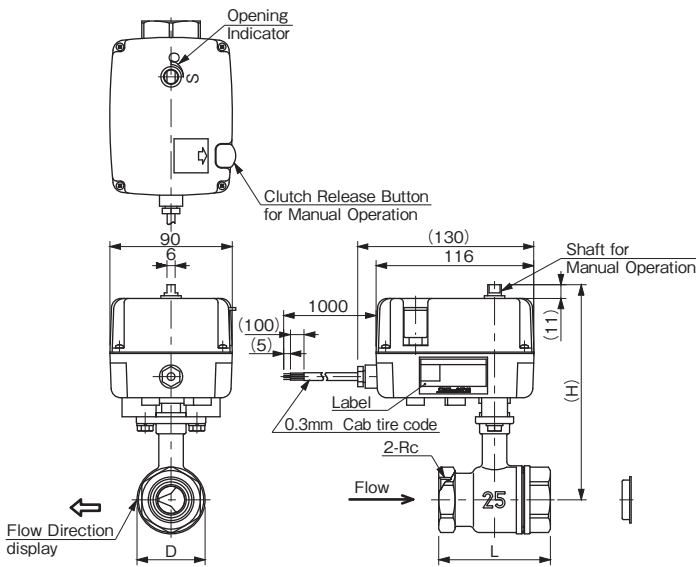
Catalog No.			Connection Rc (O.D.)	Cv Value	Max. Operation Press. Differential (MPa)	Connection Fastening Torque (N·m)	Dimension				Wt. (kg)
Type	Model	Input Signal					H1	H2	H2	L	
MJV-	M1504G	70	1/2"	3.5	0.1	34.3	152	30	56	34	1.6
	M2006G	(Resistance 0 to 135Ω)	3/4"	6.5		49	155	37	69	43	1.8
	M2510G	71	1"	12		58.8	159	44	82	51	2.1
	M3212G	(4 to 20 mA)	1-1/4"	20		78.5	165	51	97	65	2.8
	M4014G	72	1-1/2"	30		83.4	178	57	106	72	3.5
	M5020G	(1 to 5 VDC)	2"	45		98.1	185	67	128	90	5.0
		73									
		(0 to 10 VDC)									

WIRING

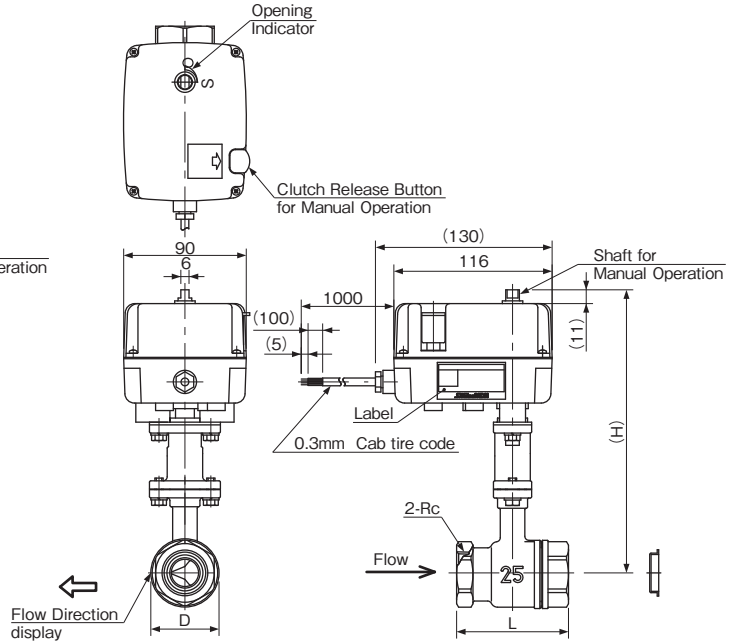


DIMENSIONS

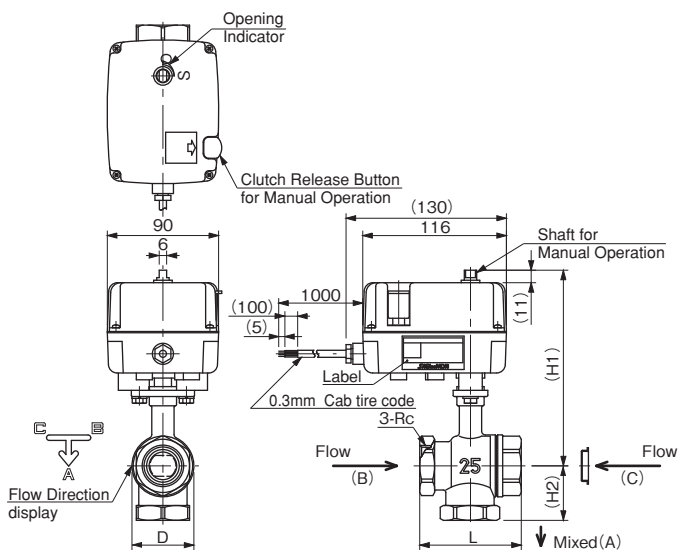
Two-way Valve



Two-way Valve for Steam



Three-way Valve

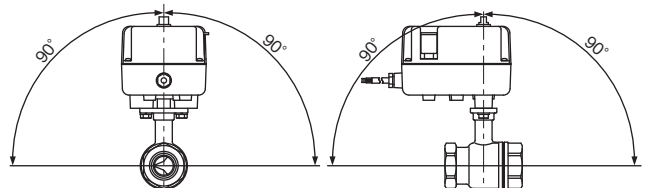


Manual Operation

- Use a spanner at Manual Operation shaft (Torque:3N·m), with pushing a Clutch Release Button. Manual operation can be carried out by rotating the shaft. Don't operate in energized position for the safty. -- please do not operate it by any means.

Mounting Position

Mounting position should be in the below range.



Opening Indicator: O...Open, S...Close

Unit: mm