

MJ* / MRJ series

2/2, 3/2 WAY N.C., N.O. PLUNGER TYPE **ACTUATOR VALVE**



Selection table



Seal material



Caution for safety
(Read before installing)

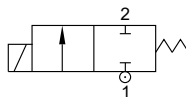


MJS/MJR

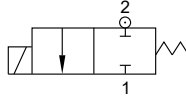


MJT/MRJ

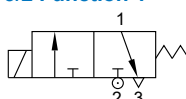
2/2 Function 1



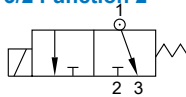
2/2 Function 2



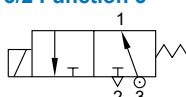
3/2 Function 1



3/2 Function 2



3/2 Function 3



Specification

- IP65 100% ED coil.
- PTB approval EExm II T4 coil.
- MJS, MJR Opening: 15~30 ms, Closing: 30~60 ms
- MJT, MRJ Opening: 20~40 ms, Closing: 40~80 ms

Power consumption

Coil power	4	5	3E
AC (VA)	19.5	23.0	9.2
DC (W)	15.0	18.5	10.0
Ambient temp.	-15~50°C (No freezing)		

Weight

Model		MJS / MJR / MJT / MRJ	
Body mat'l		C (Brass)	S (S.Steel)
Body weight (g)	Coil 4	318	326
	Coil 5	394	402
	Coil 3E	614	622

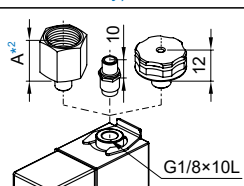
Order example of valve

MJS - 1 - N - C - F - U - 4 - D - □ - AC110

MODEL	FIG.	SEAL MAT'L	BODY MAT'L	BOTTOM	COIL	MANUAL	VOLTAGE
MJS MJR MJT MRJ	1, 2, 3, 4, 5	N: NBR J: EPDM V: Viton	C: Brass S: S. Steel	Blank: Concave F: Flat	4: #4 5: Bigger 3E: Explosion-Proof (*)	Blank: Without M: With manual	AC220V(50/60)Hz AC110V(50/60)Hz DC24V

EXHAUST ACCESSORIES (●: MJT, ○: MRJ only)

U	-	Without	●	○
F6		PS1/8" female	●	○
F8		PS1/4" female	●	○
F10		PS3/8" female	●	○
C		Dust-proof cap	●	○
P		1/8" PS male	●	○



PLUG

Blank: DIN
D: LED
G: 1/2" NPT

*1. Explosion-Proof (3E) coil with LED (D) plug is not applicable.

Code	1/8"	1/4"	3/8"
A	20	21	23
Weight (g)	20	30	40

Order example of manifold

MJ - 03 - 2 - □

MODEL	CODE	MANIFOLD NUMBER	PORT THREAD
	03: 1/8 06: 1/4 10: 3/8	2, 3...n	Blank: Rc thread G: G thread NPT: NPT thread

2/2 way N.C. Brass, stainless steel body. For water, low pressure steam, air, gas, oil(below 50 mm ² /s), vacuum etc.														
Model	Fig. no.	Seal mat'l	Coil	Orifice mm	Temp. °C		Working press. 0~ bar						CV	Torr
							Coil 4		Coil 5		Coil 3E			
					Coil 4, 3E, 5		Funtion 1							
					N	J,V	AC	DC	AC	DC	AC	DC		
MJS	1	N J V	4 5 3E	1.6	-5 ~ 80	-10 ~ 145	30	20	40	30	25	20	0.08	10 ⁻²
	2			2.0			24	14	30	20	16	12	0.12	
	3			2.5			14	10	20	15	10	8	0.18	
	4			3.0			10	6	15	10	7	6	0.25	10 ⁻¹
	5			3.5			7	4	10	7	4.5	3.5	0.32	

2/2 way N.C. Brass, stainless steel body. For water, low pressure steam, air, gas, oil(below 50 mm ² /s), vacuum etc.														
Model	Fig. no.	Seal mat'l	Coil	Orifice mm	Temp. °C		Working press. 0~ bar						CV	Torr
							Coil 4		Coil 5		Coil 3E			
					Coil 4, 3E, 5		AC/DC, Funtion 1, 2							
					N	J,V	1	2	1	2	1	2		
MJR	1	N J V	4 5 3E	1.6	-5 ~ 80	-10 ~ 145	20	7	30	8.5	20	6	0.08	10 ⁻²
	2			2.0			14	5.5	20	7	12	5	0.12	
	3			2.5			10	4	15	5.5	8	3	0.18	
	4			3.0			6	2.5	10	4	6	2	0.25	10 ⁻¹
	5			3.5			4	1.5	7	2.5	3.5	1.5	0.32	

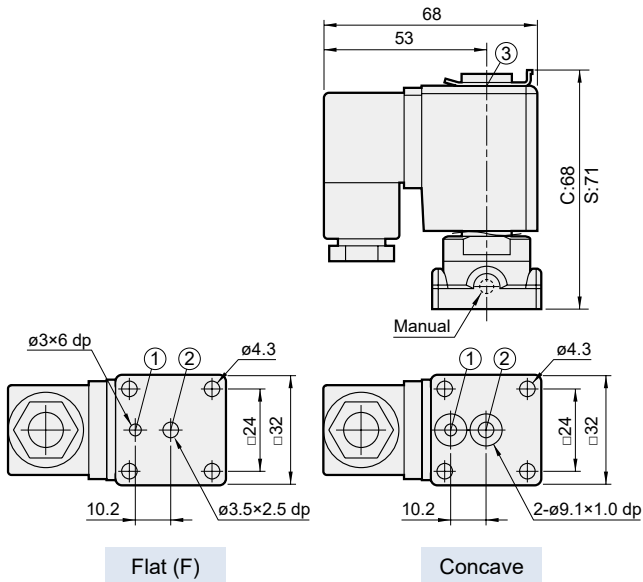
3/2 way N.C. Brass, stainless steel body. For water, low pressure steam, air, gas, oil(below 50 mm ² /s), vacuum etc.																	
Model	Fig. no.	Seal mat'l	Coil	Orifice mm		Temp. °C		Working press. 0~ bar								CV	Torr
				Body	Tube	Coil 4, 3E, 5		Coil 4		Coil 5		Coil 3E					
						AC/DC, Funtion 1, 2, 3											
						N	J,V	1	2	3	1	2	1	2	3		
MJT	1	N J V	4 5 3E	1.3	1.6	-5 ~ 80	-10 ~ 145	9	5.5	3	12	6	8	5.5	3	0.05	10 ⁻²
	2			1.6				7		2	8.5		6		2	0.08	
	3			2.0				5.5		2	7		5		2	0.12	
	4			2.5	2.0			4		1	5.5		3		1	0.18	10 ⁻¹
	5			3.0				2.5		1	4		2		1	0.25	

3/2 way N.O. Brass, stainless steel body. For water, low pressure steam, air, gas, oil(below 50 mm ² /s), vacuum etc.												
Model	Fig. no.	Seal mat'l	Coil	Orifice mm		Temp. °C		Working press. 0~ bar		CV	Torr	
						Coil 4, 3E		Coil 4	Coil 3E			
				Body	Tube	N	J,V	AC/DC, Funtion 3				
MRJ	1	N J V	4 3E	1.3	1.6	-5 ~ 80	-10 ~ 145	12	12	0.08	10 ⁻²	
	2			1.6				10	10			
	3			2.0				8	8			
	4			2.5	6			6	0.12			
	5			3.0	4			4				

* Connect air source to outlet port for vacuum application.

MJ* / MRJ Dimensions

2/2, 3/2 WAY N.C., N.O. PLUNGER TYPE ACTUATOR VALVE



No. of stations	Code (mm)		MJS, MJR weight (kg)			MJT, MRJ weight (kg)		
	L	P	Coil 4	Coil 5	Coil 3E	Coil 4	Coil 5	Coil 3E
2	104	96	1.28	1.43	1.86	1.26	1.41	1.84
3	142	134	1.92	2.14	2.79	2.89	2.11	2.76
4	180	172	2.55	2.85	3.72	2.52	2.82	3.68
5	218	210	3.19	3.57	4.65	3.15	3.52	4.60
6	256	248	3.83	4.28	5.58	3.78	4.23	5.52
7	294	286	4.47	5.00	6.51	4.41	4.93	6.44
8	332	324	5.11	5.71	7.44	5.04	5.64	7.36
9	370	362	5.75	6.43	8.37	5.67	6.34	8.28
10	408	400	6.39	7.14	9.31	6.30	7.05	9.20
Bracket kit	-		0.02 [(J1+J2)×2]					

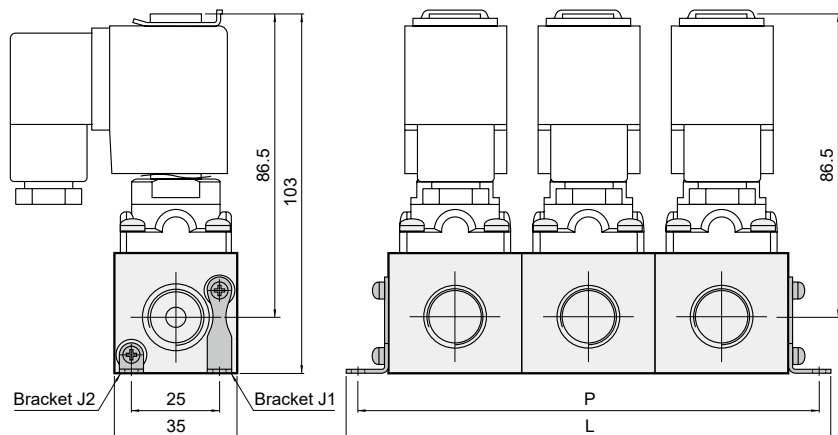
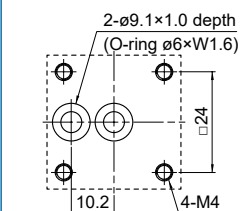
MJ

Manifold

Material: Brass

Flat type

Installation dimensions

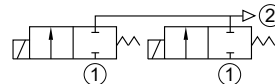


Manifold assembling

Manifold base could be added freely (only for brass material).

MJS/MRJ APPLICATION: Port ② is a common port.

MJS+MJ (2/2)



MRJ+MJ (3/2)

