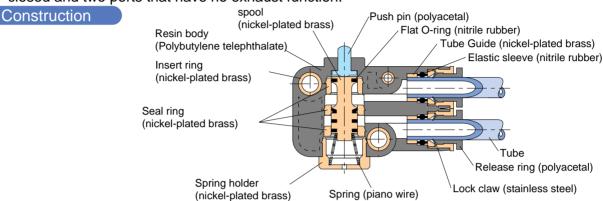
Quick-fitting Type Mechanical Valve

Mechanical Valve



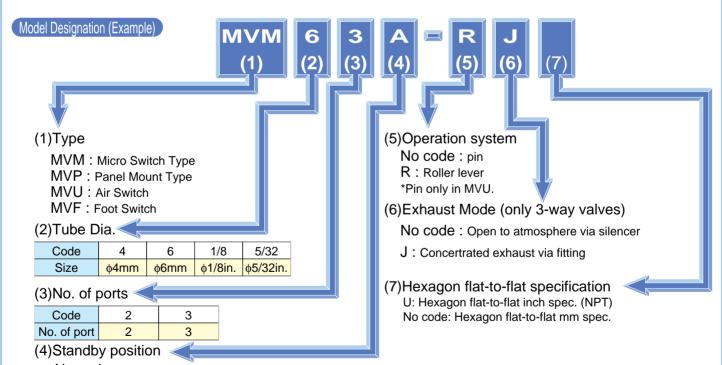
- ■This push-type valve turns on and off the input of air pressure.
- ■The operating force is not affected by strength of pressure owing to the spool valve mechanism.
- ■The valve has three ports to exhaust the residual pressure on the output side (equipment) when closed and two ports that have no exhaust function.



Specification

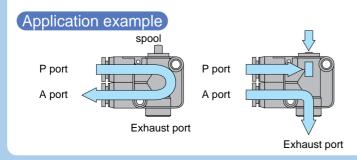
Fluid admitted	Air						
Service pressure range	0~100psi	0~0.7MPa					
Working vacuum	32~140°F	0~60°C					
Lubrication	ISO VG32 (Turbine oil class 1)						

*Black in normal-close type, ivory in normal-open type.



No code: Nomally closed (Release ring is black)

A: Normally open (Release ring is ivory)
*Only normally close type in MVP and MVU.



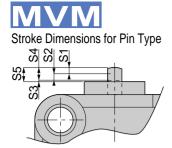
■In case of Three-Way, Normally Open type, the compressed air entered from P port flows to A port. While the spool is pushed down, the air inlet is blocked and the residual pressurized air is released from the exhaust port (open to air type or concentrated exhaust type).

*Three-Way, Normally Closed type works contrary to Normally Open type.

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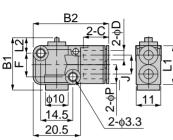
unit:mm

unit:mm



					uiiit.iiiii
Tube dia.	Pre-Stroke S1	Operating Stroke S2	Over Stroke S3	Recommended Stroke S4	Max. Stroke S5
φ4	1.0	1.0	0.4	2	2.4
ф6	1.6	1.6	0.4	3.2	3.6

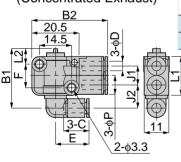
Microswitch Pin Type



Model	Tube dia.	В	1	B2	L1	12	φР	С	1	E	Mass	Eff. a.
Model	φD	max	min	D2	L!	LZ	ψι		J	•	(g)	(mm²)
MVM 4	4	23.5	21	33	17	7	8	11	8	10.5	10	2
MVM 4□A	4	23.5	21	33	17	,	0	11	0	10.5	10.5	3
MVM 6□ MVM 6□ A	6	30.5	27	33.5	22	6.5	10.5	12	10.5	15.5	12.5	7



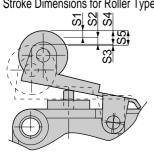
Microswitch Pin Type (Concentrated Exhaust)



													-	unit:mm
Model	Tube dia.	В	1	B2	L1	12	φР	С	J1	J2	Е	F	Mass	Eff. a.
Model	φD	max	min	D2	_	LZ	Ψι		01	02	J	'	(g)	(mm²)
MVM 43-J	4	26.5	24	33	17	7	8	11	8	8.5	15	10.5	11	3
MVM 43A-J	4	20.5	24	33	17	'	0	'''	0	0.5	13	10.5	11	3
MVM 63-J	_	24 5	31	22 E	22	G E	10 E	10	10.5	11 E	16 E	1 E E	14.5	7
MVM 63A-J	6	34.5	31	33.5	22	6.5	10.5	12	10.5	11.5	16.5	15.5	15	, ,



Stroke Dimensions for Roller Type



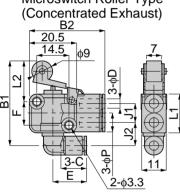
					unit:mm	
Tube dia.	Pre-Stroke	Operating Stroke	Over Stroke	Recommended Stroke	Max. Stroke	
Tube dia.	S1	S2	S3	S4	S5	
φ4	1.5	1.7	0.4	3.2	3.6	
φ6	2.0	2.5	0.4	4.5	4.9	

Microswitch	Roller Type
B2 \$\phi 9\$ \$\phi 10\$ \$\frac{14.5}{20.5}\$	2-C Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q

													unit:mm
Model	Tube dia.	В	1	B2	L1	L2		φР	С		F	Mass	Eff. a.
Model	φD	max	min	DZ	_	max	min	Ψ		3		(g)	(mm ²)
MVM 4□-R	4	245	30.5	33	17	18	14.5	8	11	8	10.5	12.5	3
MVM 4□A-R	4	34.5	30.5	33	17	10	14.5	0	' '	0	10.5	12.5	3
MVM 6□-R	_	42	37	33.5	22	19.5	15	10 E	12	10 E	15.5	15	7
MVM 6□A-R	6	42	37	33.5	22	19.5	15	10.5	12	10.5	15.5	15	



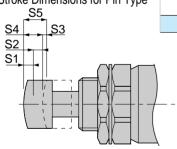
Microswitch Roller Type



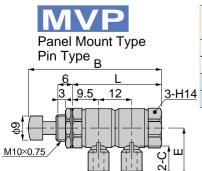
														unit:mm
MODEL	Tube dia.	В	1	B2	L1	L	2	φР	С		Е	F	Mass	Eff. a.
Model	φD	max	min	DZ.	LI	max	min	ΨΕ		J	_		(g)	(mm²)
MVM 43-RJ	4	27.5	33.5	33	17	18	14.5	8	11	8	15	10.5	13	3
MVM 43A-RJ	4	37.3	33.5	33	17	10	14.5	0	11	0	13	10.5	13.5	3
MVM 63-RJ	_	46	44	22 E	22	10 E	15	10 E	12	10 E	16 E	1 E E	17	7
MVM 63A-RJ	6	40	41	33.5	22	19.5	15	10.5	12	10.5	16.5	15.5	17	1



Stroke Dimensions for Pin Type



					unit:mm
Tube dia.	Pre-Stroke S1	Operating Stroke S2	Over Stroke S3	Recommended Stroke S4	Max. Stroke S5
φ4	1.8	1.8	0.4	3.6	4
φ6	1.8	1.8	0.4	3.6	4



2-\phi D_

2-φΡ

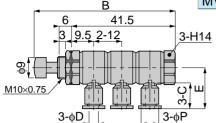
										unit:mm	
	Model	Tube dia.	Е	3		φР	С	Е	Mass	Eff. a.	
	Model	φD	max	min	L	Ψι		L	(g)	(mm ²)	
	MVP 42	4	49.5	46	33	8	11	18	31	2	
	MVP 43	4	49	45.5	32.5	0	11	10	30	3	
	MVP 62	6	49.5	46	33	10.5	12	18.5	32	E	
4	MVP 63	6	49	45.5	32.5	10.5	12	10.5	31	5	



unit·mm



Model	Tube dia.	E	3	φР	C	Е	Mass	Eff. a.
Model	φD	max	min	φΡ	C		(g)	(mm²)
MVP 43-J	4	57	53.5	8	11	18	33	3
MVP 63-J	6	57	53.5	10.5	12	18.5	35	5





unit:mm

unit:mm

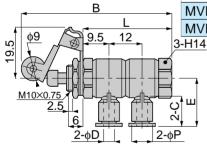


Tube dia.	Pre-Stroke S1	Operating Stroke S2	Over Stroke S3	Recommended Stroke S4	Max. Stroke S5
φ4	1.8	2.1	0.4	3.9	4.3
φ6	1.8	2.1	0.4	3.9	4.3

** Stroke Dimensions were measured for the product mounted on 2.5-mm plate. Dimensions vary when the thickness of the plate changes.

Panel Mount Roller Type

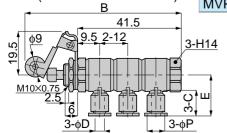
Model	Tube dia. φD	В		1	φР	С	Е	Mass	Eff. a.
Model		max	min	L	ΨΓ	C		(g)	(mm²)
MVP 42-R	4	56.5	53	33	8	11	18	34.5	3
MVP 43-R		57	53.5	32.5		11		33.5	
MVP 62-R	6	56.5	53	33	10 E	10.5 12	18.5	35.5	E
MVP 63-R		57	53.5	32.5	10.5	12	16.5	34.5	- 5





Panel Mount Roller Type (Concentrated Exhaust)

								unit:mm
Model	Tube dia.	E	В	φР	C	Е	Mass	Eff. a.
Model	φD	max	min	Ψι	C	L	(g)	(mm²)
MVP 43-RJ	4	66	62.5	8	11	18	36.5	3
MVP 63-RJ	6	66	62.5	10.5	12	18.5	38	5





Air Switch 2-φ3.4 35.5 2.5 (stroke) 2-φD

11.5 52

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					unit:mm
Model	Tube dia. φD	В	С	Mass (g)	Eff. a. (mm²)
MVU 42	4	20	11	22.5	3
MVU 43	4	29	Į Į	24	3
MVU 62		24 5	10	22.5	_
MVU 63	6	31.5	12	24	5

*Main body is Ivory color. Release ring is black.



			U	unit:mm		
VE	Model	Tube dia.	Mass	Eff. a.		
Overit with	Model	φD	(g)	(mm²)		
Switch 20 80	MVF 4□□	4	172.5	3		
	MVF 6□□	6	174.5	7		
900						
	M//E6	ICOC NAVANA	$\Box \text{ or } M \setminus M \in \Box A$			

MVF $6 \square \square$ uses MVM $6 \square$ or MVM $6 \square$ A.



⚠ Detailed Safely Instruction

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 23~24 and "Common Safety Instructions for Change Series Valves" on page 279.

- 1. Do not allow any load beyond the limit stroke to bear on the push pin or roller by maschine operation. Otherwise damage to the body may result.
- 2. Do not use the valve with cam and dog whose operation involves steep leading and trailing edges. Impacts may inflict damage to the device body.
- 3. Do not carry out the air switch or foot switch type of operation by a machine. Such an operation may damage the device body.
- 4. In applications that require high level of reliability, make certain that the mechanical valve operates properly at start-up.
- 5. Do not subject the product with a rotary resin body to forcible swinging or rotation. Otherwise the body may suffer damage or develop leakage.
- 6. Do not use the valve in locations where it can be exposed to water drops, oil drops, dust, etc. The valve is neither drip-proof nor dustproof, so that malfunction may result.

A Caution

- 1. Consult PISCO about applications involving frequent operations.
- 2. Confirm the number of ports and the conduction system by checking the marking on the body.
- 3. With the microswitch or the panel mounting type, the effective sectional area may change with the stroke. Insufficient stroke may cause low flow rate.
- 4. With the air switch or the foot switch type, push the button or the top lid of the case completely until it stops. Failure to do so may result in poor conduction or low flow rate due to faulty switching.