

2/3 Port Mechanical Valve Series VM200

Large flow capacity.
A variety of actuator types.



Specifications

Fluid	Air/Inert gas
Operating pressure	0 to 1.0 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Effective area	19 mm ²
Lubrication	Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)
Port size	1/4
Mass (Basic)	111g

Model

	No. of ports		2 port	3 port	Actuator part no.	Application
	Actuator					
Mechanical operation	Basic	VM220-02-00	VM230-02-00	—	—	
	Roller lever	VM220-02-01	VM230-02-01	VM-01A	Polyacetal roller	
		VM220-02-01S	VM230-02-01S	VM-01AS	Hard steel roller	
	One way roller lever	VM220-02-02	VM230-02-02	VM-02A	Polyacetal roller	
		VM220-02-02S	VM230-02-02S	VM-02AS	Hard steel roller	
	Straight plunger	VM220-02-05	VM230-02-05	VM-05A	—	
	Roller plunger	VM220-02-06	VM230-02-06	VM-06A	Polyacetal roller	
		VM220-02-06S	VM230-02-06S	VM-06AS	Hard steel roller	
Cross roller plunger	VM220-02-07	VM230-02-07	VM-07A	Polyacetal roller		
	VM220-02-07S	VM230-02-07S	VM-07AS	Hard steel roller		
Manual operation	Toggle lever	VM220-02-08	VM230-02-08	VM-08A	—	
	Push button (Mushroom)	VM220-02-30R	VM230-02-30R	VM-30AR	Red	
		VM220-02-30B	VM230-02-30B	VM-30AB	Black	
		VM220-02-30G	VM230-02-30G	VM-30AG	Green	
		VM220-02-30Y	VM230-02-30Y	VM-30AY	Yellow	
	Push button (Extended)	VM220-02-32R	VM230-02-32R	VM-32AR	Red	
		VM220-02-32B	VM230-02-32B	VM-32AB	Black	
		VM220-02-32G	VM230-02-32G	VM-32AG	Green	
		VM220-02-32Y	VM230-02-32Y	VM-32AY	Yellow	
	Push button (Flush)	VM220-02-33	VM230-02-33	VM-33A	With a set of red, black, green, yellow	
	Twist selector (2 position)	VM220-02-34R	VM230-02-34R	VM-34AR	Red	
		VM220-02-34B	VM230-02-34B	VM-34AB	Black	
		VM220-02-34G	VM230-02-34G	VM-34AG	Green	
		VM220-02-34Y	VM230-02-34Y	VM-34AY	Yellow	
	Key selector (2 position)	VM220-02-36	VM230-02-36	VM-36A	—	
	Twist selector (3 position)	VM230-02-35R	VM250-02-35R	—	Red	
		VM230-02-35B	VM250-02-35B	—	Black	
VM230-02-35G		VM250-02-35G	—	Green		
VM230-02-35Y		VM250-02-35Y	—	Yellow		
(3 port)		(5 port)	—	—		
Foot pedal	VM220-02-40	VM230-02-40	—	—		



Note 1) Actuator replacement is available for all types except twist selector (3 position) and foot pedal.

Note 2) For push button (mushroom), push button (extended), push button (flush) and a single unit of fastening ring, refer to pages 1887 to 1888. The other parts are not replaceable.

Note 3) The handle of the selector (2 position and 3 position) cannot be removed or replaced alone.

How to Order

VM2 **3** 0 - **02** - **01** **S** -

Made to Order

(Refer to pages 1882 to 1885 for details.)

X207	Alternate type, Mushroom push button
X219	Push-lock turn-reset type, Mushroom push button

Suffix for actuator

S	Hard steel roller	Color of push button selector
R	Red	
B	Black	
G	Green	
Y	Yellow	

Actuator type

00	Basic
01	Roller lever
02	One way roller lever
05	Straight plunger
06	Roller plunger
07	Cross roller plunger
08	Toggle lever
30	Push button (Mushroom)
32	Push button (Extended)
33	Push button (Flush)
34	Twist selector (2 position)
36	Key selector (2 position)
35	Twist selector (3 position)
40	Foot pedal

Port size

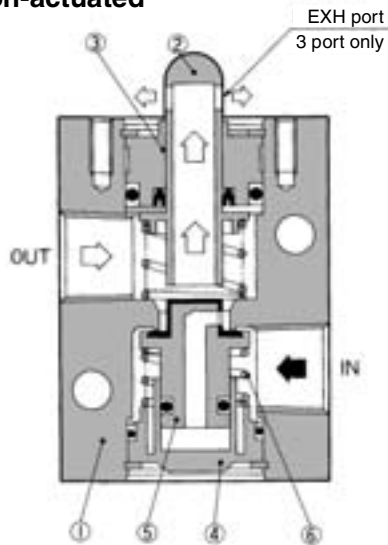
02	Rc 1/4
N02	NPT 1/4
F02	G 1/4

Number of ports

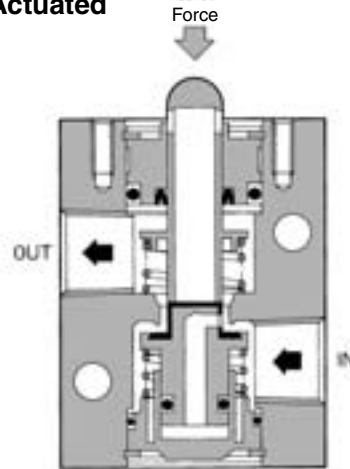
2	2 port
3	3 port

Construction

Non-actuated



Actuated



Component Parts

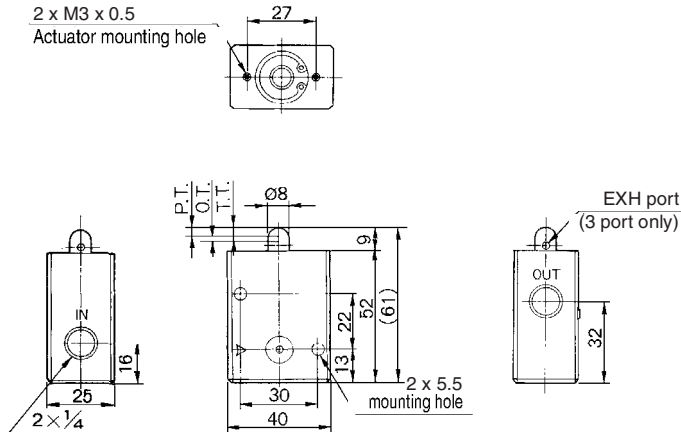
No.	Description	Material	Note
1	Valve	ADC	Platinum silver
2	Plunger	POM	
3	Plunger retainer	PBT	

No.	Description	Material	Note
4	Cover	POM	
5	Valve	Brass, NBR	
6	Spring	Steel	

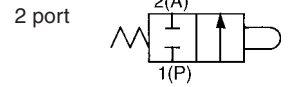
Series VM200

Series VM200

Basic VM220-02-00 VM230-02-00



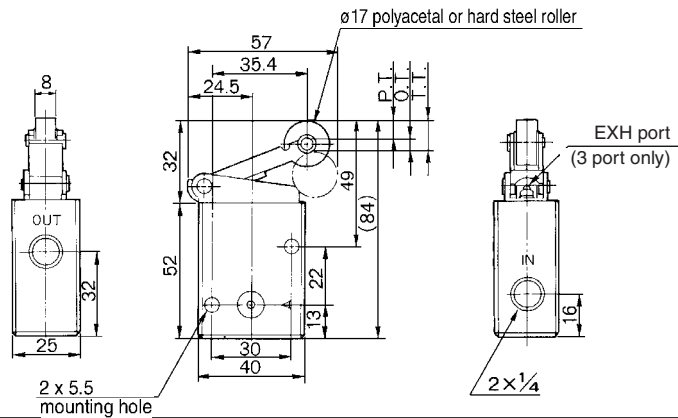
JIS Symbol



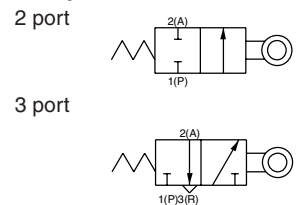
* 0.5 MPa supply

F.O.F. *	52 N
P.T.	3.0 mm
O.T.	2.0 mm
T.T.	5.0 mm

Roller lever VM220-02-01 VM230-02-01 VM220-02-01S VM230-02-01S



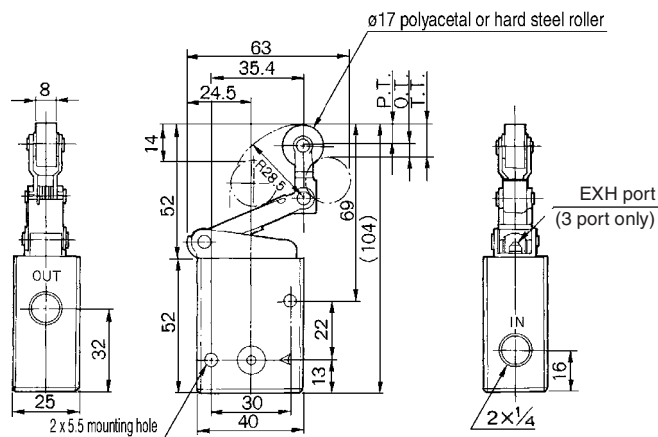
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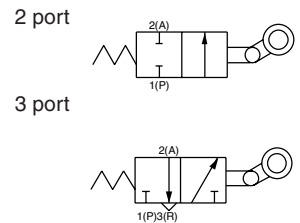
* 0.5 MPa supply

F.O.F. *	24 N
P.T.	6.5 mm
O.T.	4.5 mm
T.T.	11.0 mm

One way roller lever VM220-02-02 VM230-02-02 VM220-02-02S VM230-02-02S



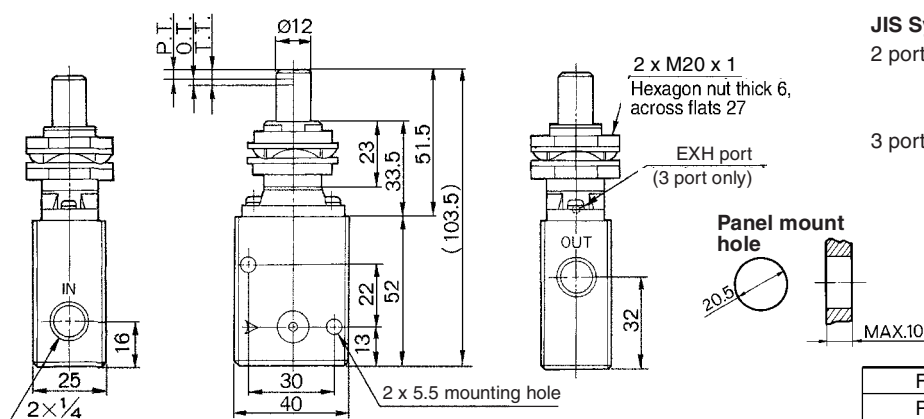
JIS Symbol



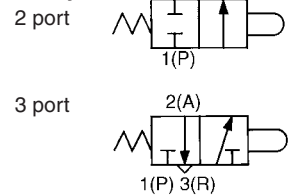
* 0.5 MPa supply

F.O.F. *	22 N
P.T.	7.0 mm
O.T.	5.0 mm
T.T.	12.0 mm

Straight plunger VM220-02-05 VM230-02-05



JIS Symbol



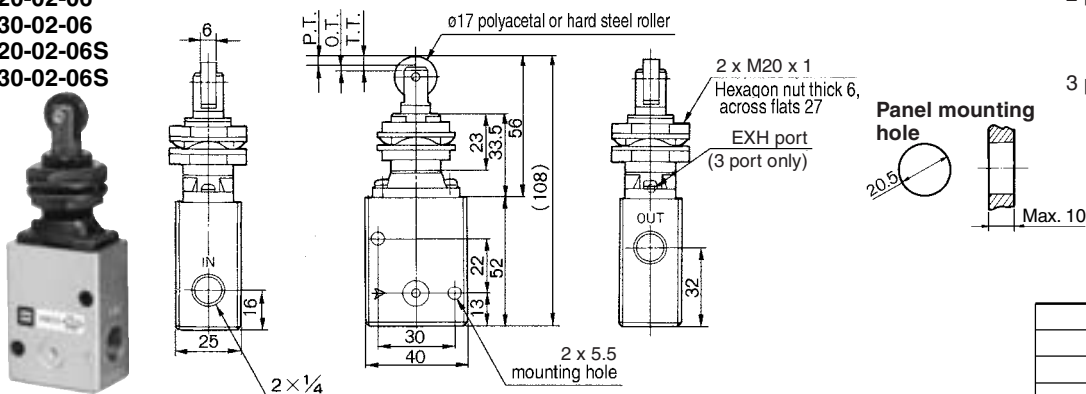
* 0.5 MPa supply

F.O.F. *	56 N
P.T.	3.5 mm
O.T.	2.0 mm
T.T.	5.5 mm

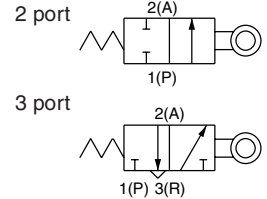
Series VM200

Roller plunger

VM220-02-06
VM230-02-06
VM220-02-06S
VM230-02-06S



JIS Symbol

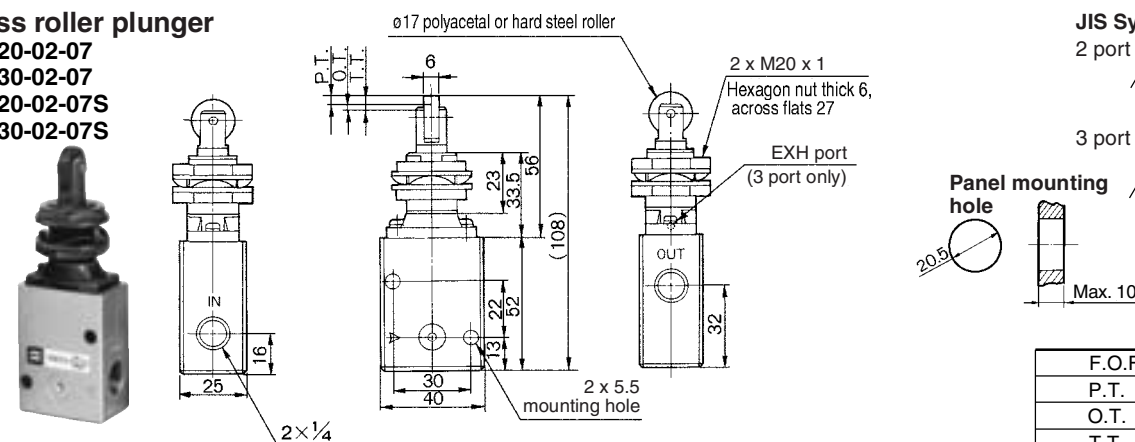


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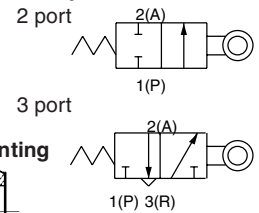
F.O.F. *	56 N
P.T.	3.5 mm
O.T.	2.0 mm
T.T.	5.5 mm

Cross roller plunger

VM220-02-07
VM230-02-07
VM220-02-07S
VM230-02-07S



JIS Symbol

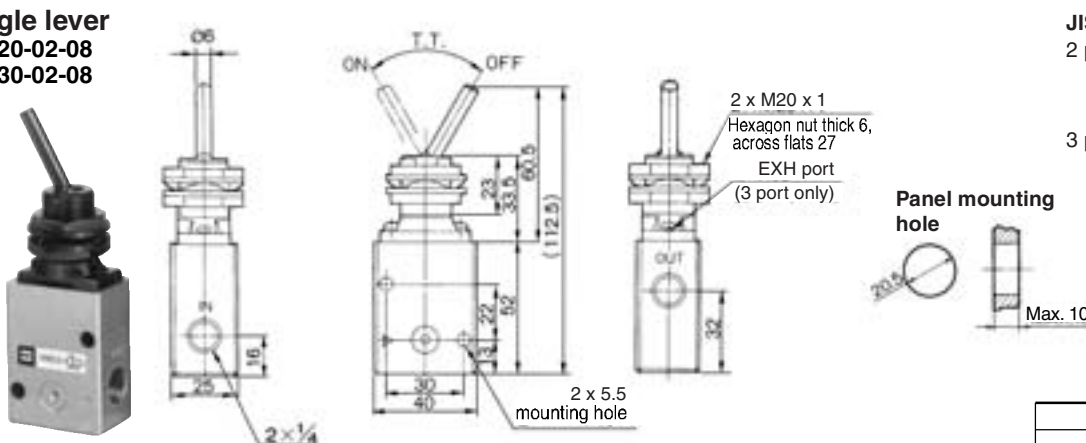


* 0.5 MPa supply

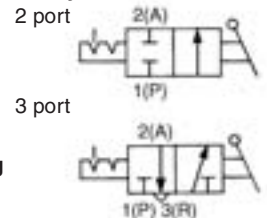
F.O.F. *	56 N
P.T.	3.5 mm
O.T.	2.0 mm
T.T.	5.5 mm

Toggle lever

VM220-02-08
VM230-02-08



JIS Symbol

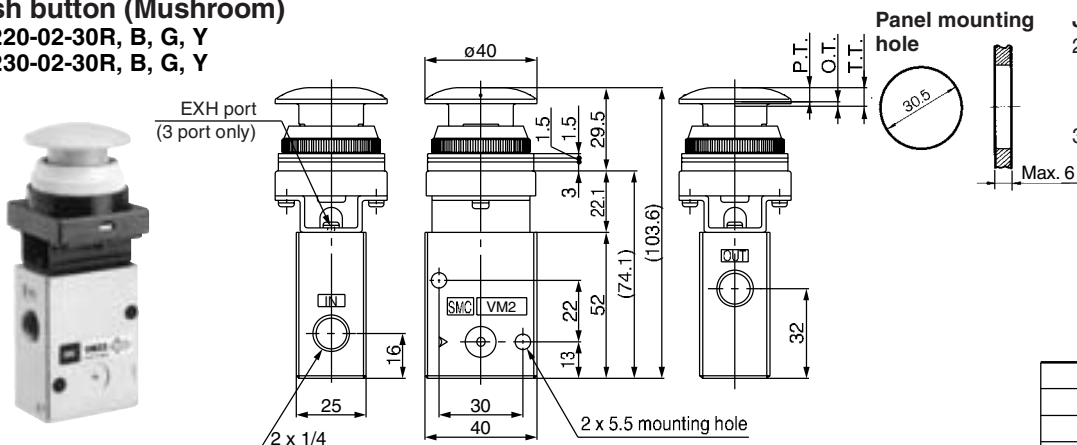


* 0.5 MPa supply

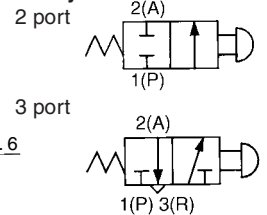
F.O.F. *	12 N
T.T.	60°

Push button (Mushroom)

VM220-02-30R, B, G, Y
VM230-02-30R, B, G, Y



JIS Symbol



* 0.5 MPa supply

F.O.F. *	52 N
P.T.	4.9 mm
O.T.	1.6 mm
T.T.	6.5 mm

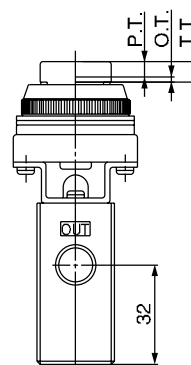
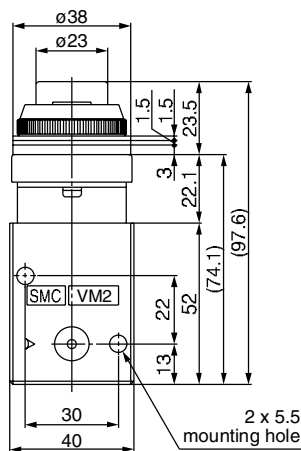
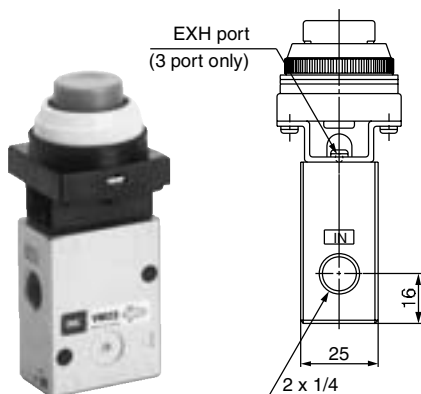
Series VM200

Series VM200

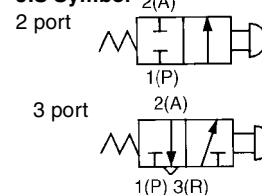
Push button (Extended)

VM220-02-32R/B/G/Y

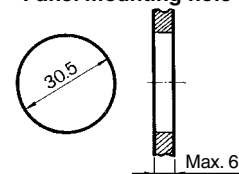
VM230-02-32R/B/G/Y



JIS Symbol



Panel mounting hole



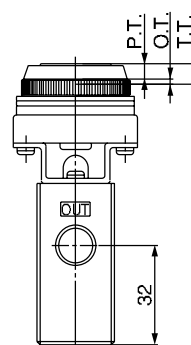
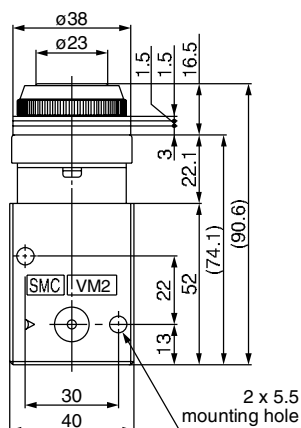
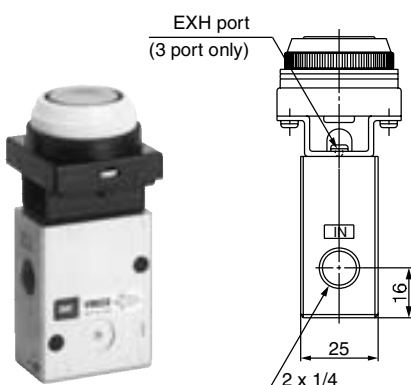
* 0.5 MPa supply

F.O.F. *	52 N
P.T.	4.9 mm
O.T.	1.6 mm
T.T.	6.5 mm

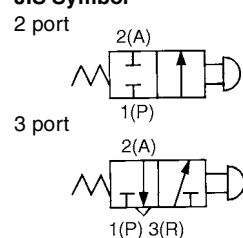
Push button (Flush)

VM220-02-33

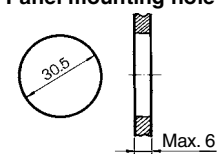
VM230-02-33



JIS Symbol



Panel mounting hole



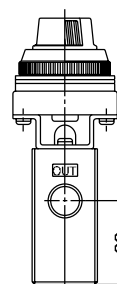
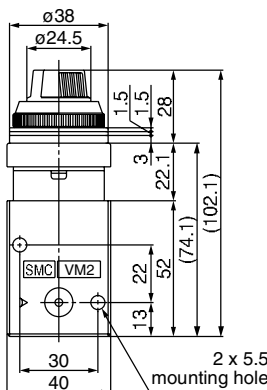
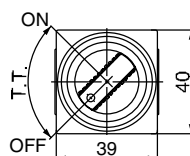
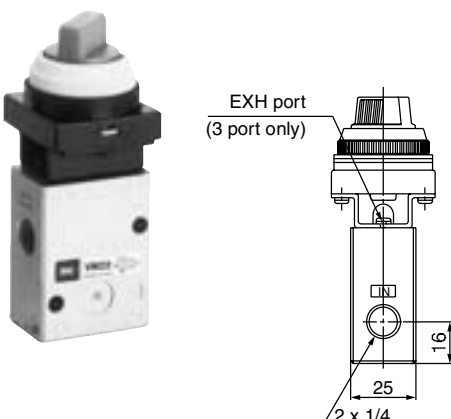
* 0.5 MPa supply

F.O.F. *	52 N
P.T.	4.9 mm
O.T.	1.6 mm
T.T.	6.5 mm

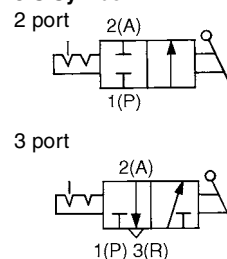
Twist selector (2 position)

VM220-02-34R/B/G/Y

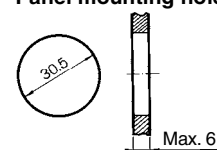
VM230-02-34R/B/G/Y



JIS Symbol



Panel mounting hole



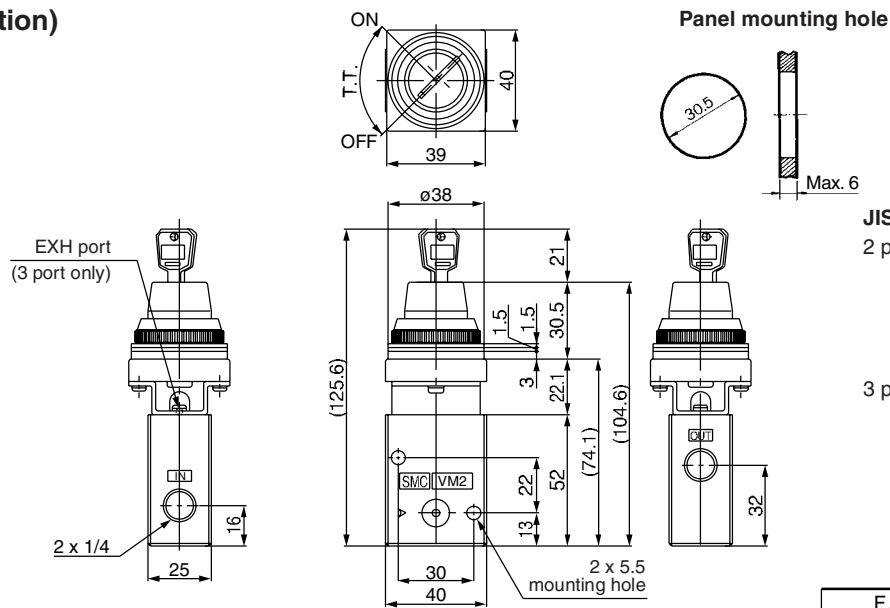
* 0.5 MPa supply

F.O.F. *	32 N
T.T.	90°

Series VM200

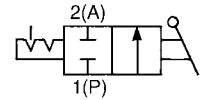
Key selector (2 position)

VM220-02-36
VM230-02-36

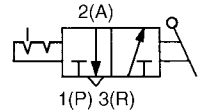


JIS Symbol

2 port



3 port



* 0.5 MPa supply

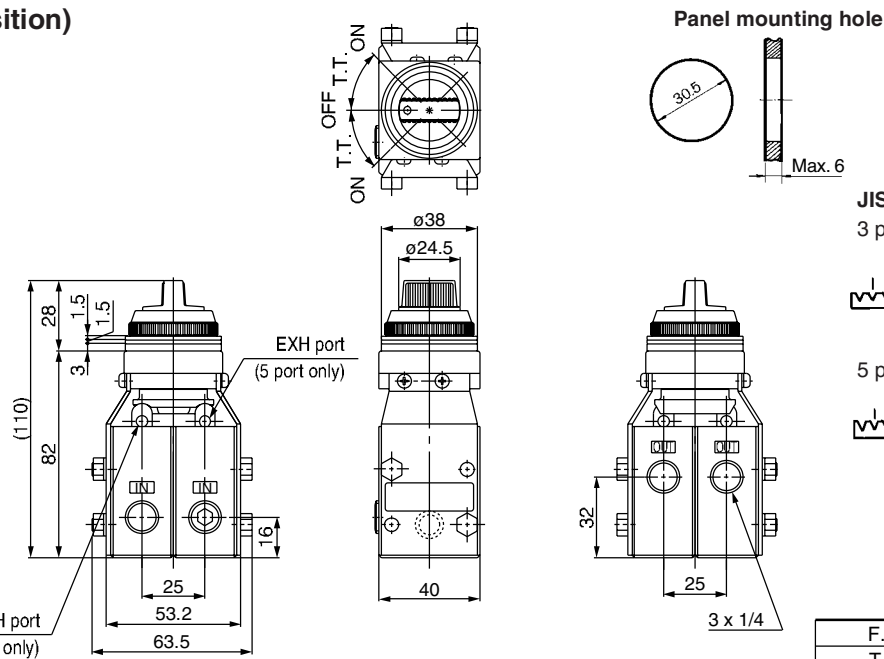
F.O.F. *	32 N
T.T.	90°



Key can be removed at the "on" and "off" positions.

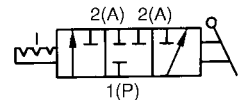
Twist selector (3 position)

VM230-02-35R/B/G/Y
VM250-02-35R/B/G/Y

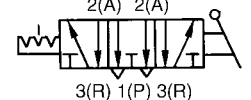


JIS Symbol

3 port



5 port

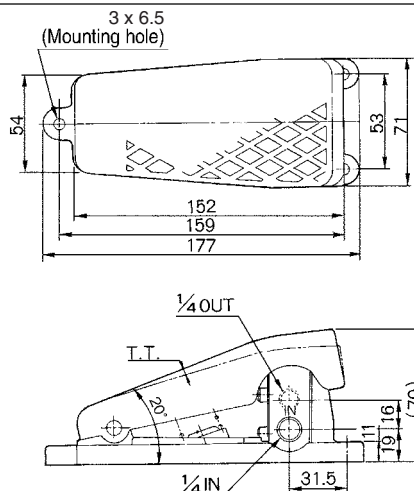


* 0.5 MPa supply

F.O.F. *	40 N
T.T.	45°

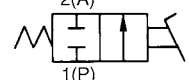
Foot pedal

VM220-02-40
VM230-02-40

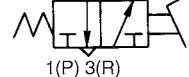


JIS Symbol

2 port



3 port



* 0.5 MPa supply

F.O.F. *	65 N
T.T.	1.2°