

5 Port Mechanical Valve/Metal Seal

Series VZM400

**Compact design,
Large flow capacity/Cv.0.55**

**High cycle rate,
Long life/300c.p.m.**

Piping possible to any EXH port.

Proper countermeasures can be taken for applications in which the noise of the exhaust could cause problems to the surroundings.

External pilot model available. (Option)

Foot bracket and manifold mounting possible.



Specifications

Fluid	Air, Inert gas
Operating pressure	0.15 to 1.0MPa ⁽¹⁾
Ambient and fluid temperature	-5 to 60°C (No freezing)
Effective area (Cv)	9.9mm ² (0.55)
Maximum frequency (Mechanical operation style)	300 c.p.m or less
Lubrication	Not required/Turbine oil #1 (ISO VG32)
Port size (Nominal size)	Main valve/Rc(PT) 1/8 (6A) Pilot valve (EXH)/M5 X 0.8
Option	Foot bracket ⁽²⁾
Weight (Basic)	150g



* Contact SMC for manifold mounting style.

Note 1) External pilot Main valve: 0 to 1.0MPa

Pilot valve: 0.15 to 1.0MPa

Note 2) The standard body can not be retrofitted with a foot bracket.

S□A

V□A

S□A

V□A

VMVR

VH

Model

	Actuator	Model	Actuator part No.	Application
Mechanical operation	Basic	VZM450-01-00	—	—
	Roller lever	VZM450-01-01	VM-01C	Polyacetal roller
		VZM450-01-01S	VM-01CS	Hard steel roller
	One way roller lever	VZM450-01-02	VM-02C	Polyacetal roller
		VZM450-01-02S	VM-02CS	Hard steel roller
	Straight plunger	VZM450-01-05	VM-05C	—
	Roller plunger	VZM450-01-06	VM-06C	Polyacetal roller
		VZM450-01-06S	VM-06CS	Hard steel roller
	Toggle lever	VZM450-01-08	VM-08C	—
		VZM450-01-30R	VM-30CR	Red
Manual operation	Push button (Mushroom)	VZM450-01-30B	VM-30CB	Black
		VZM450-01-30G	VM-30CG	Green
		VZM450-01-30Y	VM-30CY	Yellow
		VZM450-01-32R	VM-32CR	Red
	Push button (Extended)	VZM450-01-32B	VM-32CB	Black
		VZM450-01-32G	VM-32CG	Green
		VZM450-01-32Y	VM-32CY	Yellow
	Push button (Flush)	VZM450-01-33	VM-33C	With a set of red, black, green, yellow
	Twist selector (2 position)	VZM450-01-34R	VM-34CR	Red
		VZM450-01-34B	VM-34CB	Black
		VZM450-01-34G	VM-34CG	Green
		VZM450-01-34Y	VM-34CY	Yellow
	Key selector (2 position)	VZM450-01-36	VM-36C	—



Note) Actuator replacement is available for all styles.

VZM400

How to Order

VZM45

0

01

01

S

Port size

01

Rc(PT) 1/8

Body option

0

Internal pilot style

1

External pilot style

Actuator

00

Basic

01

Roller lever

02

One way roller lever

05

Straight plunger

06

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)

Suffix of actuator

S

Hard steel roller

R

Red

B

Black

G

Green

Y

Yellow

Color of push button

Option

F

Foot bracket (Only internal pilot)

Construction

Non-actuated

Actuated

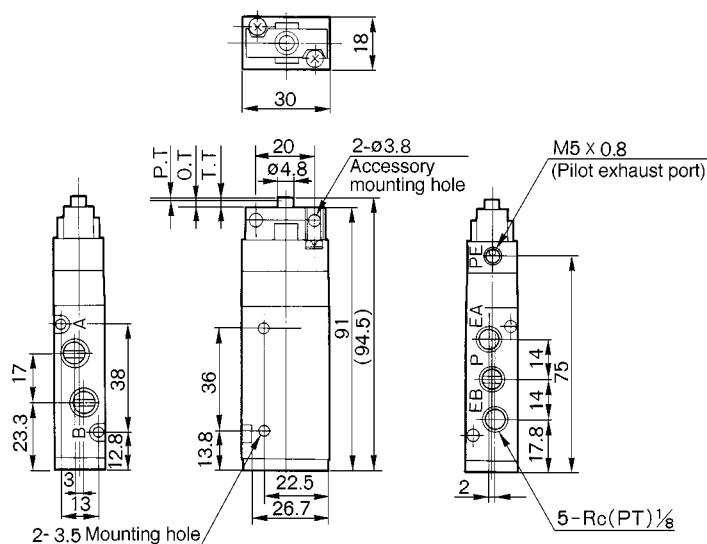
Componet Parts

No.	Description	Material	Notes
①	Body	ADC	Metallic plated
②	Pilot body	PBT	Only external pilot style: ZDC
③	Head cover	ZDC	Black zinc chromated
④	Spool sleeve	Stainless steel	
⑤	End cover	POM	
⑥	Piston A	POM	
⑦	Plunger	POM	
⑧	Valve seat (A)	POM	
⑨	Valve seat (B)	POM	

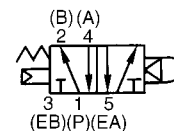
No.	Description	Material	Notes
⑩	Valve	NBR	
⑪	Piston guide B	Aluminum alloy	
⑫	Return spring	Stainless steel	
⑬	Cushion	Rubber	
⑭	Cushion	Rubber	
⑮	Valve spring	Stainless steel	
⑯	Return spring	Stainless steel	
⑰	Piston B	POM	

Series VZM400

Basic/VZM450-01-00



JIS Symbol



* 0.5MPa supply

F.O.F.*	16N
P.T.	1mm
O.T.	2mm
T.T.	3mm

S□A

V□A

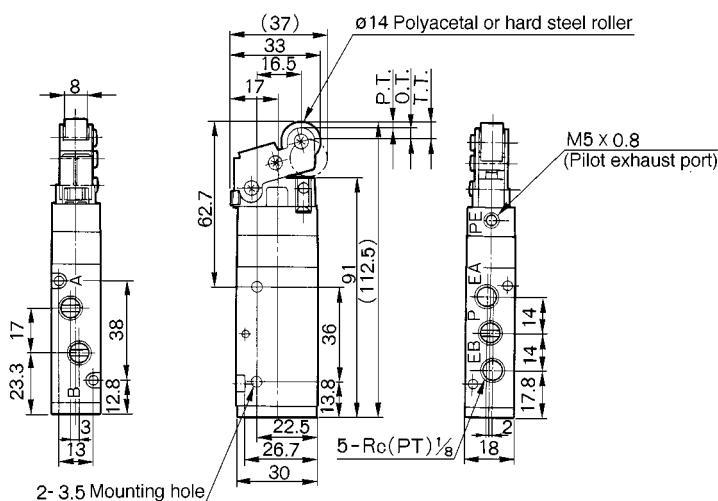
S□A

V□A

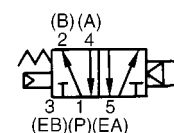
VM/VR

VH

Roller Lever/VZM450-01-01, VZM450-01-01S



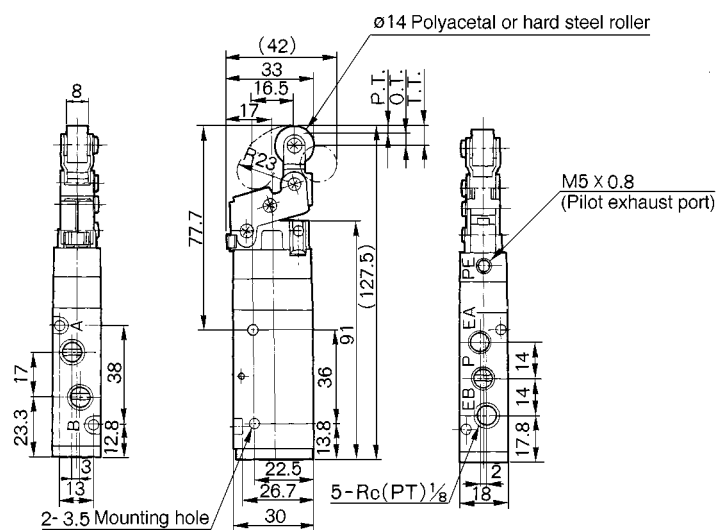
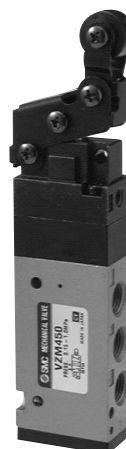
JIS Symbol



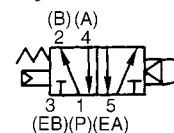
* 0.5MPa supply

F.O.F.*	8N
P.T.	2.2mm
O.T.	4mm
T.T.	6.2mm

One Way Roller Lever/VZM450-01-02, VZM450-01-02S



JIS Symbol



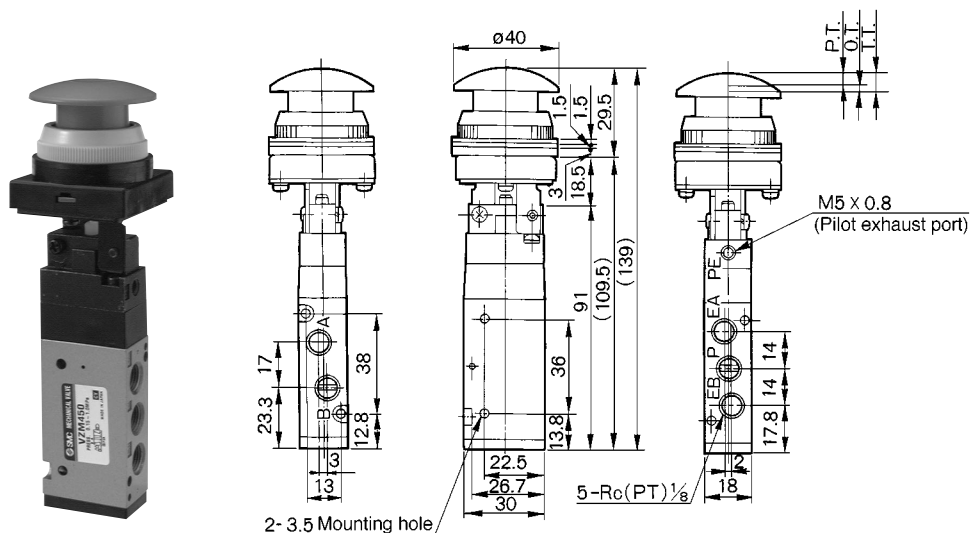
* 0.5MPa supply

F.O.F.*	7N
P.T.	2.4mm
O.T.	4.6mm
T.T.	7mm

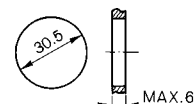
3.5-37

Series VZM400

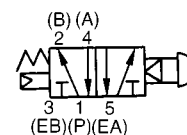
Push Button (Mushroom)/VZM450-01-30R, B, G, Y



Panel mounted hole



JIS Symbol



* 0.5MPa supply

F.O.F.*	21N
P.T.	4.8mm
O.T.	1.7mm
T.T.	6.5mm

S□A

V□A

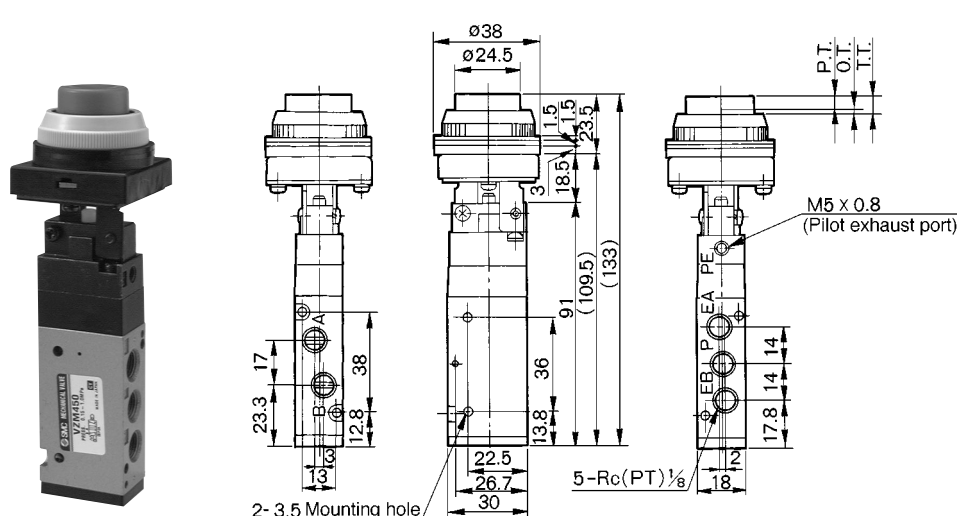
S□A

V□A

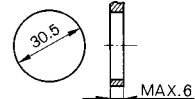
VMVR

VH

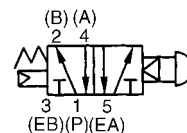
Push Button (Extended)/VZM450-01-32R, B, G, Y



Panel mounted hole



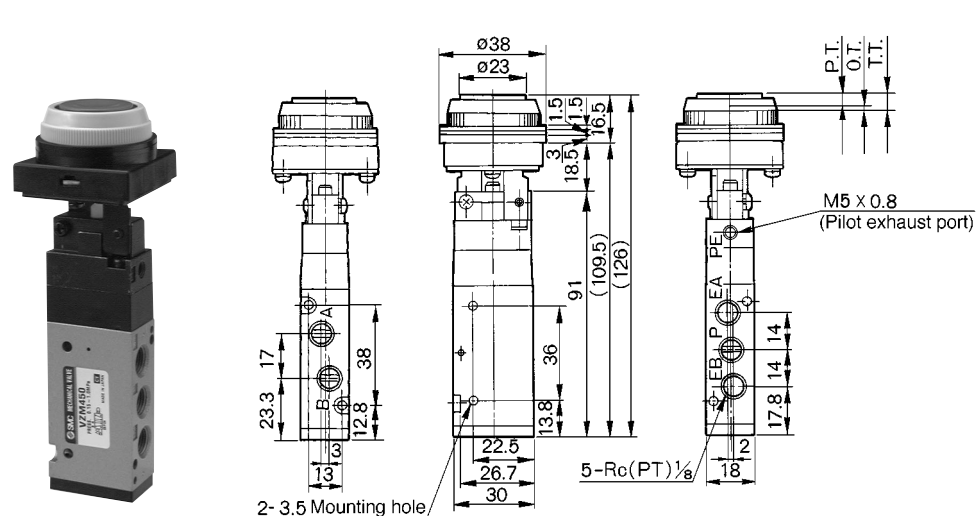
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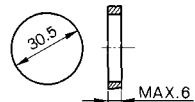
* 0.5MPa supply

F.O.F.*	21N
P.T.	4.8mm
O.T.	1.7mm
T.T.	6.5mm

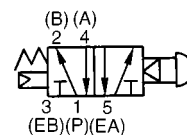
Push Button (Flush)/VZM450-01-33



Panel mounted hole



JIS Symbol



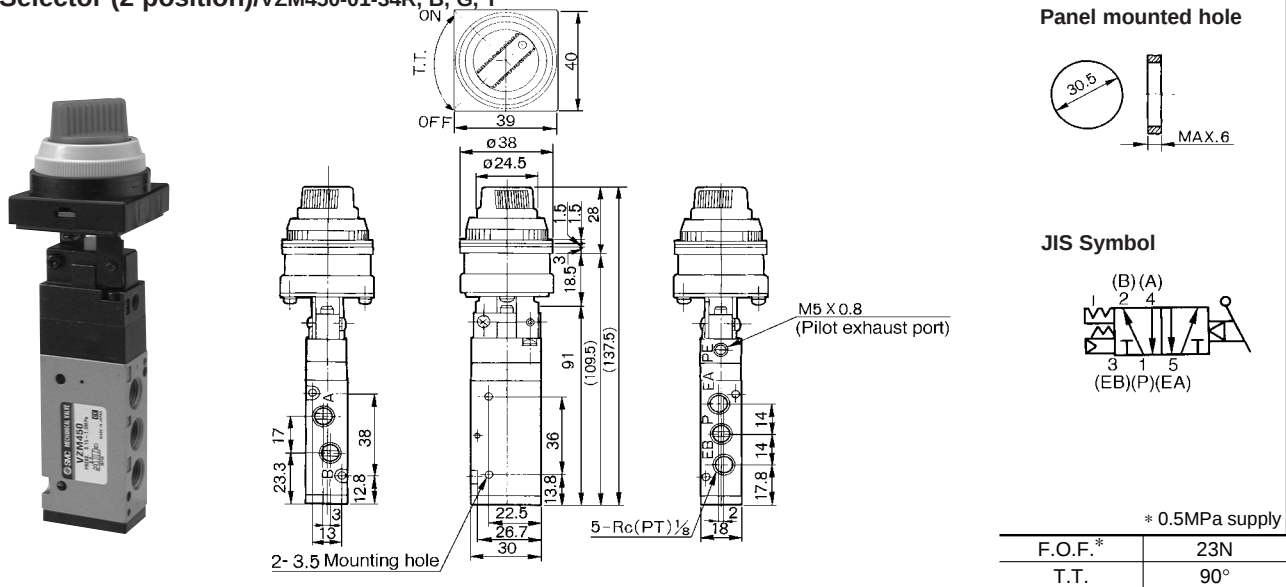
* 0.5MPa supply

F.O.F.*	21N
P.T.	4.8mm
O.T.	1.7mm
T.T.	6.5mm

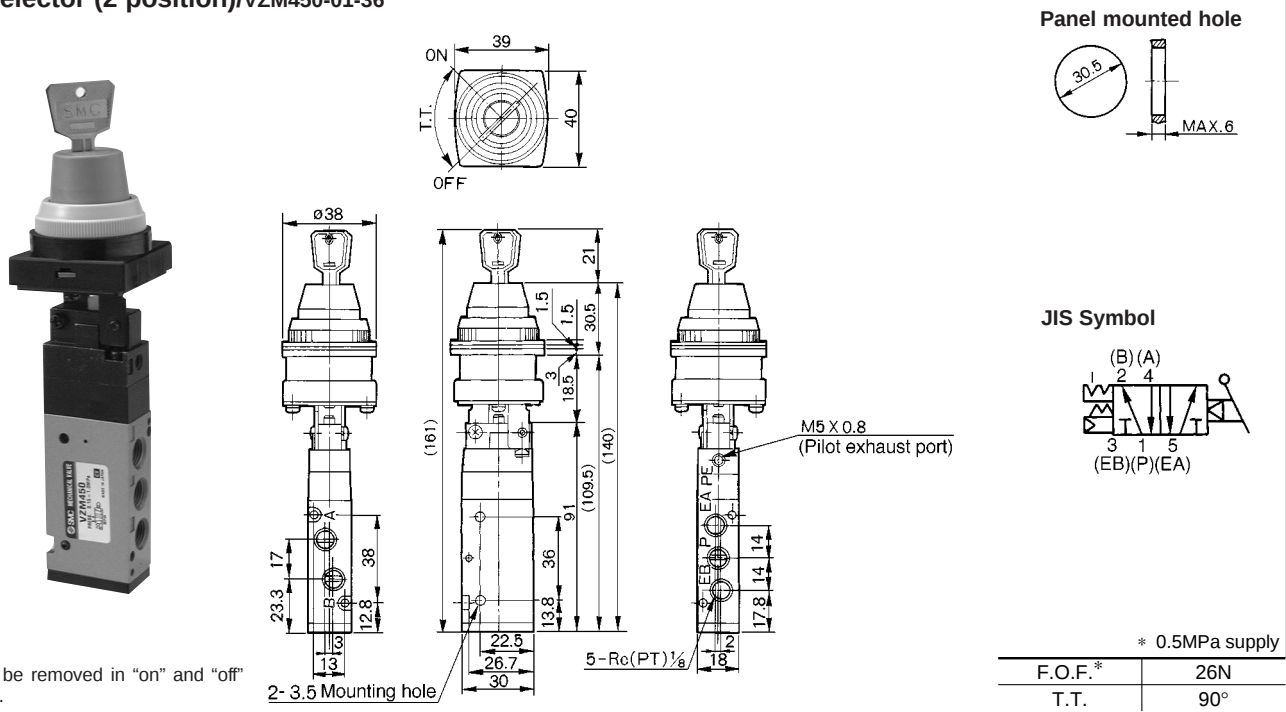
VZM400

Series VZM400

Twist Selector (2 position)/VZM450-01-34R, B, G, Y

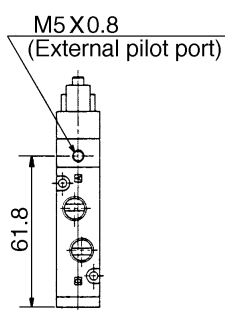


Key Selector (2 position)/VZM450-01-36



Key can be removed in "on" and "off" positions.

External Pilot Style VZM451 Type



With Foot Bracket VZM450-01-□□-F

