

Control valve(3/2 way)

AIRTAC

ZM3 Series



ZM3

■ Specification

Model	ZM3R	ZM3J	ZM3P
Operating	External control direct acting type		
Fluid	Air (to be filtered by 40 μm filter element)		
Pressure range	-0.1~1.0MPa(-1~10bar)(-15~114psi)		
Proof pressure	1.5MPa(15bar)(215psi)		
Temperature	-20~70 °C		
Valve type	3/2 Way		
Orifice size	6.0mm ² (Cv=0.34)		
Port size ^①	1/8"		
Lubrication ^②	Not required		
Material body	Aluminum alloy		

① PT thread, NPT thread and G thread are available.

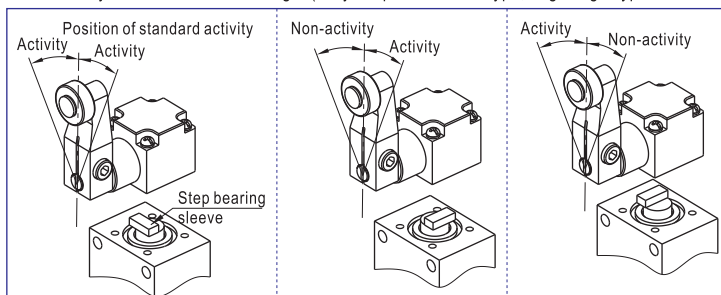
② If add oil for lubrication, it is not allowed to stop midway. It is suggested to use ISO VG32 lubricant or the oil with the same grade.

■ Symbol

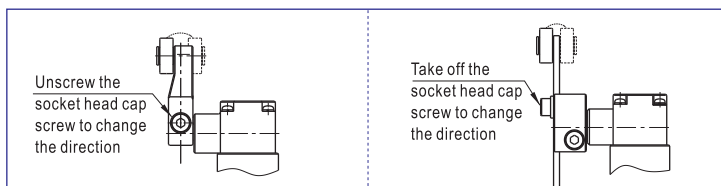


Product feature

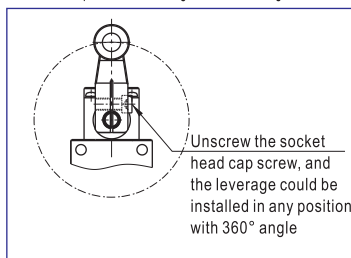
1. The activity direction could be changed(Only adapt to standard type, large angle type unavailable)



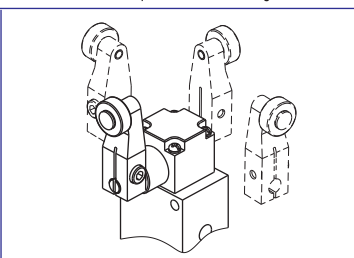
2. The rolling wheel could be installed at the inside of leverage



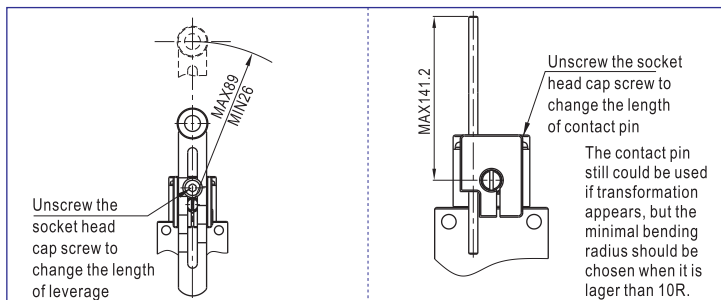
3. Installation position of leverage could be changed



4. Direction of head part could be changed



5. Length of contact pin could be changed

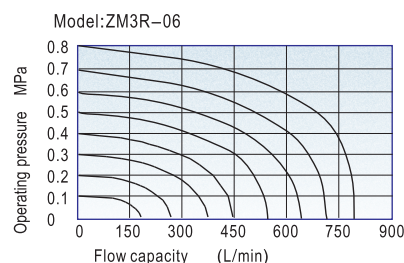


■ Ordering code

ZM3 R 06 W P

- Valve's type**
ZM3: ZM type 3/2 Way
- Model**
R: Roller type
J: Adjustable roller type
P: Contact pin adjustable roller type
- Thread type**
P: PT
T: NPT
G: G
- Port size**
06: 1/8"
- Extreme angle of opening and closing of control head**
Blank: Standard type
W: Large angle type

■ Flow chart



■ Inner structure

ZM3R

No.	Item
1	Bottom cover
2	O-ring
3	Spring
4	Spacer
5	Spool
6	Body
7	O-ring
8	Spring washer
9	Spring
10	Man drill
11	O-ring
12	Bushing
13	Spring holder
14	Spring
15	Screw
16	Front cover
17	Bushing
18	Shaft
19	Roller
20	Rocker arm
21	Screw
22	Rotation axis
23	O-ring



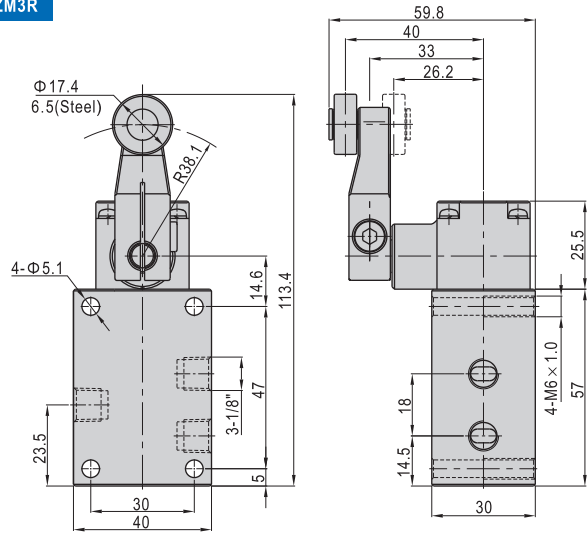
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■ Dimensions

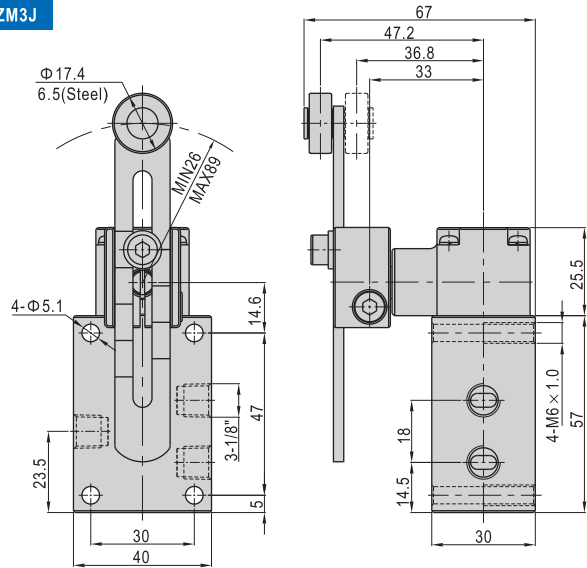


ZM3R



Item\Model	ZM3R06	ZM3R06-W
F.O.F	20N	20N
P.T.	20°	25°
O.T.	30°	50°
T.T.	50°	75°

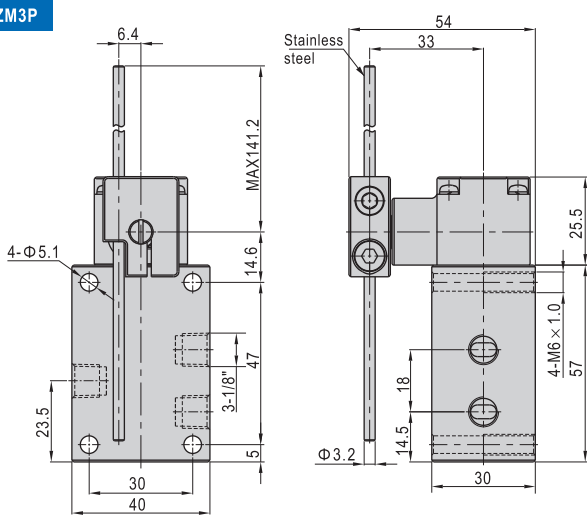
ZM3J



Item\Model	ZM3J06	ZM3J06-W
F.O.F.①	20N	20N
P.T.	20°	25°
O.T.	30°	50°
T.T.	50°	75°

* When the length of leverage is 38.1mm

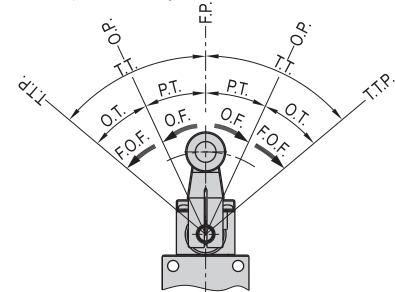
ZM3P



Item\Model	ZM3P06	ZM3P06-W
F.O.F.①	2.3N	2.3N
P.T.	20°	25°
O.T.	30°	50°
T.T.	50°	75°

* When the length of leverage is 141.2mm

Description of symbol



- F.P. Free position: the position of control head when no external force applied;
- O.P. Activity position: the position when the control head is applied with external force and the valve is transferred;
- T.T.P. Extreme position of activity: position of control head when it is pushed until non-movement;
- O.F. Activity power: when driving from free position to activity position, the operation power applied on control head;
- F.O.F. Extreme activity power: when driving from free position to extreme activity position, the operation power applied on control head;
- P.T. Free route: movement distance or rotation angle from free position of control head to activity position;
- O.T. Activity route: movement distance or rotation angle from activity position of control head to extreme activity position;
- T.T. Total route: movement distance or rotation angle from free position of control head to extreme activity position;

