AITTAC

CM3 Series



Symbol













Product feature

- The external force required by changing the direction of the series of CM3B, CM3V, CM3L and CM3R is provided by external mechanism, which can be used for position test or limit switch.
- The series of CM3PF, CM3PM, CM3PMS, CM3PMX, CM3PL, CM3PP, CM3HS, CM3HD and CM3Y are operated manually, owning control joints with several structure forms and suitable for application under different conditions.
- Shut-off structure has good tightness and is sensitive in direction changing and lubricant is not necessary.
- 4. Multi-mounting makes it convenient to install and apply.
- The control joints of series of CM3L, CM3V, CM3R and CM3Y are made of metal which has long service life and more reliable and steady performance.
- 6. CM3PMS. CM3PMX Series have metallic guard, it can protect the push cup, to avoid misact due to outside force touching the push cup. So they can be used more reliably.

Ordering code

CM3 PP 06 B P Valve's type Thread type CM3: CM type 3/2 5/3 way Port size Thread type М5 Not code B: Basic type T: NPT R: Roller type 1/4' G: G L: Roller with free return type V: Vertical type **Button color** Y: Lever typer Button color PL: Latching type PP: Protruding type R: Red R: Red B,R,L,V,Y PF: Flat type PP,PF,PM G: Green B: Black R: Red PM: Mushroom type PMS: Mushroom type(with guard) PMX: Big mushroom type(with guard) HS,HD Y: Yellow HS: Selector type HD: Double-selector type Port size 05: M5 08: 1/4"

Specification

Model	CM3□-05	CM3□-06	CM3□-08
Operating	External control		
Fluid	Air (to be	filtered by 40 µ m filte	r element)
Pressure range	0~1.0	MPa(0~114psi)(0~10).0bar)
Proof pressure	1.	5MPa(215psi)(15.0ba	ar)
Temperature	-20~70 °C 3 port 2 position		
Valve type①			
Orifice size	2.0mm²	2.5 mm ²	15.0mm ²
Lubrication	0.11	0.14	0.84
Port size 2	M5x0.8 1/8" 1/4" Aluminum alloy		1/4"
Material body			

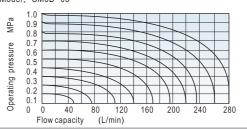


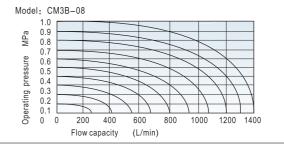
CM3

1 HD series are 5/3 way. 2 PT thread, NPT thread and G thread are available.

Flow chart

Model: CM3B-05





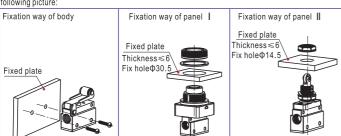


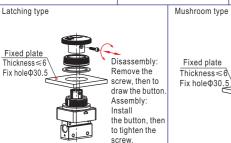
CM3 Series

CM3

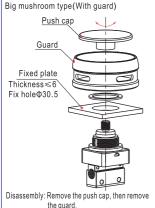
Installation and operation

 $1. \, Mounting \, way: \, by \, body, \, by \, panel \, II, \, by \, panel \, II, \, latching \, type, \, mushroom \, type. \, Please \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, refer to \, the \, latching \, type \, decreases \, decrea$ following picture:

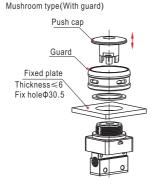












Disassembly: Untighten the guard first, then remove the push cap with the guard.

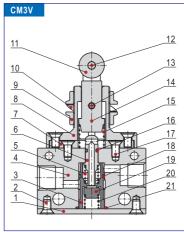
Assembly: Install the guard, then to tighten the push cap.

- $2. The \ control \ set \ is \ made \ of \ engineering \ plastic \ which \ only \ allows \ manual \ operation \ and \ switching \ valves$ through metal impact is forbidden
- 3. The series of CM3B, CM3L, CM3V, CM3R, CM3PM, CM3PMS, CM3PMX, CM3PF, CM3PP get the function of automatic restoration. The hand valves of CM3Y, CM3HS, CM3HD, CM3PL are in type of manual restoration. CM3PL will be restored by turning the revolve button after being pressed into
- $4. \ Pay \ attention \ to \ the \ reversing \ stroke. \ The \ reversing \ stroke \ can \ not \ surpass \ its \ stroke \ stipulated \ in \ stroke$ $control\ table\ when\ the\ direction-change\ of\ the\ valve\ is\ forced\ by\ any\ external\ forces,\ otherwise\ it\ will$ cause the damage of the valve

Туре	Spool stroke	Button (Roller\ Handle) stroke	Туре	Spool stroke	Button (Roller\ Handle) stroke
CM3B05(06)	1.5~3.0	-	CM3B08	2.4~4.0	_
CM3R05(06)	1.5~2.5	3.0~4.8	CM3R08	2.4~3.2	6.8~9.0
CM3L05(06)	1.5~2.3	3.0~4.8	CM3L08	2.4~3.2	7.2~9.7
CM3V05(06)	1.5~3.0	2.7~4.2	CM3V08	2.4~4.0	2.6~4.2
CM3Y05(06)	1.5~2.5	3.0~4.8	CM3Y08	2.4~3.2	6.8~9.0
CM3PL05(06)	1.5~2.5	4.0~5.0	CM3PL08	2.4~3.5	4.0~5.0
CM3PP05(06)	1.5~3.0	4.0~5.5	CM3PP08	2.4~4.0	4.0~5.5
CM3PF05(06)	1.5~3.0	4.0~5.5	CM3PF08	2.4~4.0	4.0~5.5
CM3HS05(06)	1.5~3.0	4.0~5.5	CM3HS08	2.4~4.0	4.0~5.5
CM3HD05(06)	1.5~3.0	4.0~5.5	CM3HD08	2.4~4.0	4.0~5.5
CM3PM05(06)	1.5~3.0	4.0~5.5	CM3PM08	2.4~4.0	4.0~5.5
CM3PMS05(06)	1.5~3.0	4.0~5.5	CM3PMX08	2.4~4.0	4.0~5.5
CM3PMX05(06)	1.5~3.0	4.0~5.5	CM3PMX08	2.4~4.0	4.0~5.5

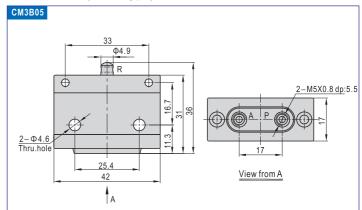
- 5. The CM3L can only switch the valve in single direction (impact from left to right). The impact from theother direction (from right to left) is invalid.
- 6. Control joint combination can be ordered individually. Please refer to external specification.

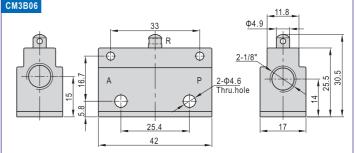
Inner structure

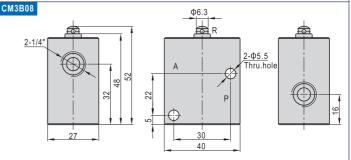


No.	Item	No.	Item
1	Fixing plate	12	Shaft
2	Screw	13	Lock pin
3	Spacer	14	Roller bracket
4	Body	15	Spring
5	Spring	16	O-ring
6	Spool	17	Screw
7	Connerting gasket	18	O-ring
8	connecting holder	19	Bottom cover gasket
9	Clamping nut	20	Spring
10	Spring gasket	21	O-ring
11	Roller		

Dimension (Basic type)



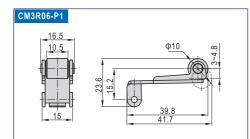




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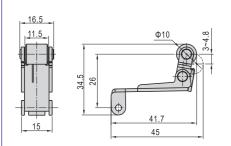
CM3 Series

Control set dimension



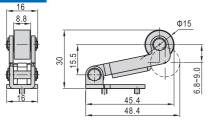
Note: CM3R06 control joint, which used in CM3R05 and CM3R06, can not be ordered individually. It should be matched with basic type.

CM31.06-P1



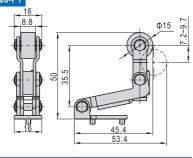
Note: CM3L06 control joint, which used in CM3L05 and CM3L06, can not be ordered individually. It should be matched with basic type.

CM3R08-P1



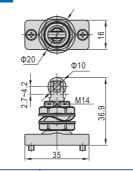
Ordering code	CM3R08-P1
Туре	CM3R08 roller type control set
Applicable products	CM3R08

M3L08-P1



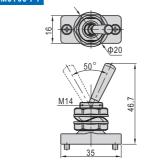
Ordering code	CM3L08-P1
Туре	CM3L08 roller type control set
Applicable products	CM3L08

CM3V06-P1



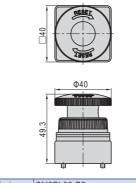
Ordering code	CM3V06-P1
Туре	CM3V vertical type control set
Applicable products	CM3V05 CM3V06 CM3V08

CM3Y06-P1



Ordering code	CM3Y06-P1
Туре	CM3Y lever type control set
Applicable products	CM3Y05 CM3Y06 CM3Y08

CM3PL06-P2



Ordering	CM3PL06-P2
Туре	CM3PL latching type control set(re-
Applicable products	CM3PL05 CM3PL06 CM3PL08
products	CM3PL05 CM3PL06 CM3

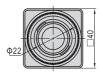
CM3PP06-P□





Ordering code	CM3PP06-P1
Туре	CM3PP protruding type control set(green)
Applicable products	CM3PP05 CM3PP06 CM3PP08
Ordering code	CM3PP06-P2
Туре	CM3PP protruding type control set(red)
Applicable products	CM3PP05 CM3PP06 CM3PP08
Ordering code	CM3PP06-P3
Туре	CM3PP protruding type control set(black)
Applicable products	CM3PP05 CM3PP06 CM3PP08
Ordering code	CM3PP06-P4
Туре	CM3PP protruding type control set(yellow)
Applicable products	CM3PP05 CM3PP06 CM3PP08

CM3PF06-P□





Ordering code	CM3PF06-P1
Туре	CM3PF flat type control set(green)
Applicable products	CM3PF05 CM3PF06 CM3PF08
Ordering code	CM3PF06-P2
Туре	CM3PF flat type control set(red)
Applicable products	CM3PF05 CM3PF06 CM3PF08
Ordering code	CM3PF06-P3
Туре	CM3PF flat type control set(black)
Applicable products	CM3PF05 CM3PF06 CM3PF08
Ordering code	CM3PF06-P4
Туре	CM3PF flat type control set(yellow)
Applicable products	CM3PE05 CM3PE06 CM3PE08

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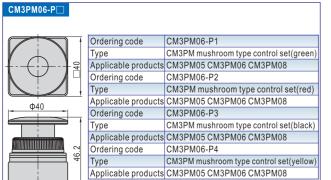
Control valve (3/2 5/3 way)

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CM3 Series

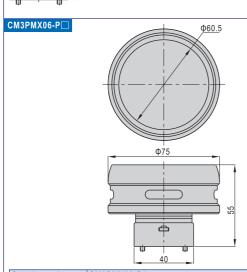


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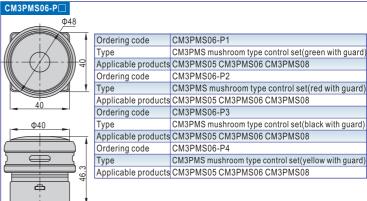




	Ordering code	CM3HS06-P1
	Туре	CM3HS selector type control set(green)
	Applicable products	CM3HS05 CM3HS06 CM3HS08
	Ordering code	CM3HS06-P2
İ	Туре	CM3HS selector type control set(red)
	Applicable products	CM3HS05 CM3HS06 CM3HS08
	Ordering code	CM3HS06-P3
T	Туре	CM3HS selector type control set(black)
	Applicable products	CM3HS05 CM3HS06 CM3HS08
	Ordering code	CM3HS06-P4
	Туре	CM3HS selector type control set(yellow)
	Applicable products	CM3HS05 CM3HS06 CM3HS08
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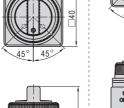
Ordering code	CM3PMX06-P1
Туре	CM3PMX big mushroom type control set(green with guard)
	CM3PMX05 CM3PMX06 CM3PMX08
Ordering code	CM3PMX06-P2
Туре	CM3PMX big mushroom type control set(red with guard)
Applicable products	CM3PMX05 CM3PMX06 CM3PMX08
Ordering code	CM3PMX06-P3
Туре	CM3PMX big mushroom type control set(black with guard)
Applicable products	CM3PMX05 CM3PMX06 CM3PMX08
Ordering code	CM3PMX06-P4
Туре	CM3PMX big mushroom type control set(yellow with guard)
Applicable products	CM3PMX05 CM3PMX06 CM3PMX08



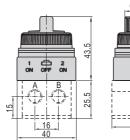
CM3HD06-P

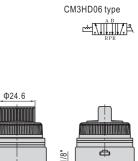


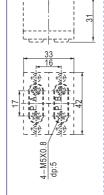




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on oee on (4.5)		
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Ordering code	CM3HD06-P1
Туре	CM3HD double-selector type control set(green)
Applicable products	CM3HD05 CM3HD06 CM3HD08
Ordering code	CM3HD06-P2
Туре	CM3HD double-selector type control set(red)
Applicable products	CM3HD05 CM3HD06 CM3HD08
Ordering code	CM3HD06-P3
Туре	CM3HD double-selector type control set(black)
Applicable products	CM3HD05 CM3HD06 CM3HD08
Ordering code	CM3HD06-P4
Туре	CM3HD double-selector type control set(yellow)
Applicable products	CM3HD05 CM3HD06 CM3HD08

Note: CM3HD control joint can be ordered individually, but should be matched with the body of CM3HD.