CM3 Series





Specification

Model	CM3□-05	CM3□-06	CM3□-08
Operating	E	External contro	l
Fluid	Air (to be filte	red by 40 µm f	ilter element)
Pressure range	0~1.0MF	Pa(0~10bar)(0	~145psi)
Proof pressure	1.5M	1Pa(15bar)(21	5psi)
Temperature	-20~70°C 3 port 2 position		
Valve type [Note1]			
Orifice size	2.0mm ²	2.5mm²	15.0mm²
Cv	0.11	0.14	0.84
Port size [Note2]	M5×0.8	1/8"	1/4"
Material of body		Aluminum alloy	/

[Note1] HD series are 5/3 way.

[Note2] PT thread, G thread and NPT thread are available.

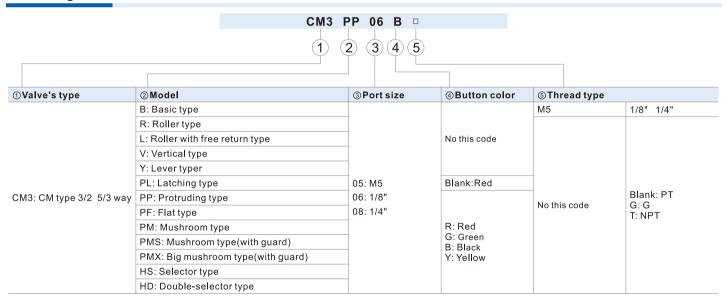
Symbol



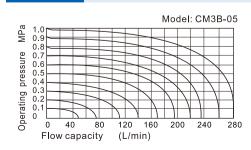
Product feature

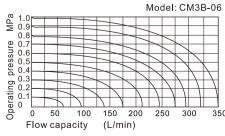
- 1. The external force required by changing the direction of the series of CM3B, CM3V, CM3L and CM3R is provided by external mechanism, which can be used for position test or limit switch.
- 2. The series of CM3PF, CM3PM, CM3PMS, CM3PMX, CM3PL, CM3PP, CM3HS, CM3HD and CM3Y are operated manually, owning control joints with several structure forms and suitable for application under different conditions.
- 3. 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.
- 5. 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.

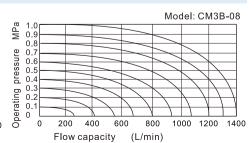
Ordering code



Flow chart





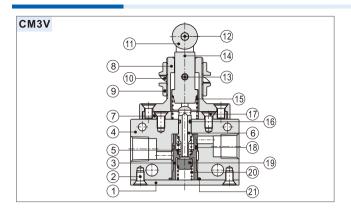






CM3 Series

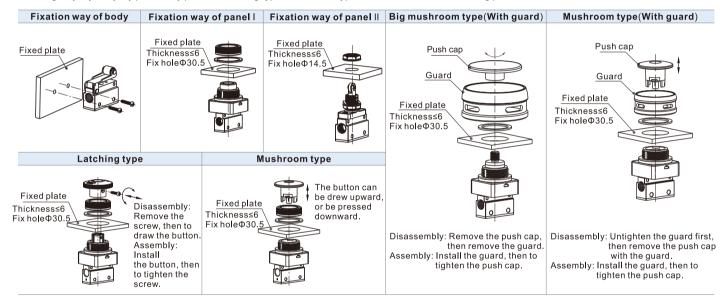
Inner structure



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

Installation and operation

1. Mounting way: by body, by panel I, by panel II, latching type, mushroom type. Please refer to the following picture:



- 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 orientation.
- 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.

Model	Spool stroke	Button(Roller\Handle) stroke	Model	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 the other direction (from right to left) is invalid.
- 6. Control joint combination can be ordered individually. Please refer to external specification.



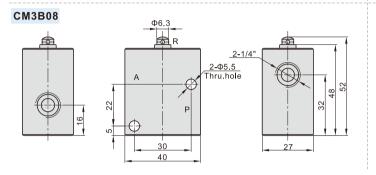


CM3 Series

Dimension (Basic type)

2-04.3 Thru.hole 25.5 42 View from A

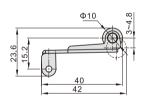
CM3B06 04.9 11.8 2-1/8 2-1/8 17 25.5 42

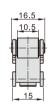


Control set dimension

Roller type(R)

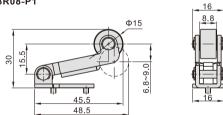
CM3R06-P1





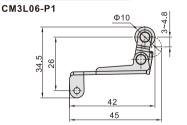
Note: CM3R06 control joint, which used in CM3R05 and CM3R06, can not be ordered individually. It should be matched with basic type.

CM3R08-P1



Model		Roller type(R)	
How to	Ordering code	CM3R08-P1	
order	Туре	CM3R08 roller type control set	
Applicable products		CM3R08	

Roller with free return type(L)





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

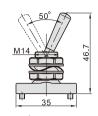
	Model	Roller with free return type(L)
How to	Ordering code	CM3L08-P1
order	Type	CM3L08Roller with free return type control set
Applic	able products	CM3L08



Control valve(3/2 way, 5/3 way)

CM3 Series

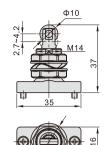
Lever type(Y)





M	odel	Lever type(Y)	
How to order	Ordering code	CM3Y06-P1	
How to order	Type	CM3Y lever type control set	
Applicable products		CM3Y05 CM3Y06 CM3Y08	

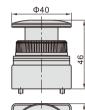
$Vertical\ type(V)$



Φ20		
	Vertical type(V)	
lering code	CM3V06-P1	
Туре	CM3V vertical type control set	

CM3V05 CM3V06 CM3V08

$\mathbf{Mushroom}\ \mathbf{type}(\mathbf{PM})$





	Model	Mushroom type (PM)
	Ordering code	CM3PM06-P1
	Type	CM3PM mushroom type control set(green)
	Ordering code	CM3PM06-P2
How to	Туре	CM3PM mushroom type control set(red)
order	Ordering code	CM3PM06-P3
	Туре	CM3PM mushroom type control set(black)
	Ordering code	CM3PM06-P4
	Туре	CM3PM mushroom type control set(yellow)
Applic	able products	CM3PM05 CM3PM06 CM3PM08

Protruding type(PP)

How to order

Model

Applicable products

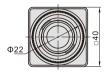




	Model	Protruding type (PP)
	Ordering code	CM3PP06-P1
	Туре	CM3PP protruding type control set(green)
	Ordering code	CM3PP06-P2
How to	Туре	CM3PP protruding type control set(red)
order	Ordering code	CM3PP06-P3
	Туре	CM3PP protruding type control set(black)
	Ordering code	CM3PP06-P4
	Type	CM3PP protruding type control set(yellow)
Applic	able products	CM3PP05 CM3PP06 CM3PP08

Flat type(PF)





	Model	Flat type(PF)
	Ordering code	CM3PF06-P1
	Type	CM3PF flat type control set(green)
	Ordering code	CM3PF06-P2
How to	Туре	CM3PF flat type control set(red)
order	Ordering code	CM3PF06-P3
	Туре	CM3PF flat type control set(black)
	Ordering code	CM3PF06-P4
	Туре	CM3PF flat type control set(yellow)
Applic	able products	CM3PF05 CM3PF06 CM3PF08

Selector type(HS)



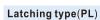


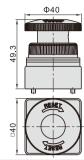
	Model	Selector type (HS)
	Ordering code	CM3HS06-P1
	Туре	CM3HS selector type control set(green)
	Ordering code	CM3HS06-P2
How to	Туре	CM3HS selector type control set(red)
order	Ordering code	CM3HS06-P3
	Туре	CM3HS selector type control set(black)
	Ordering code	CM3HS06-P4
	Туре	CM3HS selector type control set(yellow)
Applic	able products	CM3HS05 CM3HS06 CM3HS08



Control valve(3/2 way, 5/3 way)

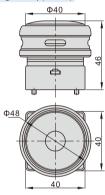
CM3 Series





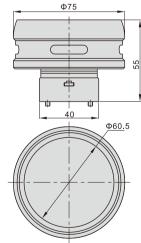
Model		Latching type(PL)
How to	Ordering code	CM3PL06-P2
order	Type	CM3PL latching type control set(red)
Applicable products		CM3PL05 CM3PL06 CM3PL08

Mushroom type(with guard)(PMS)



Model		Mushroom type(with guard) (PMS)
How to order	Ordering code	CM3PMS06-P1
	Type	CM3PMS mushroom type control set(green with guard)
	Ordering code	CM3PMS06-P2
	Type	CM3PMS mushroom type control set(red with guard)
	Ordering code	CM3PMS06-P3
	Type	CM3PMS mushroom type control set(black with guard)
	Ordering code	CM3PMS06-P4
	Type	CM3PMS mushroom type control set(yellow with guard)
Applicable products		CM3PMS05 CM3PMS06 CM3PMS08

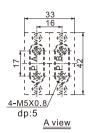
$Big\ mushroom\ type(with\ guard)(PMX)$

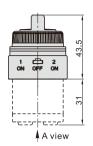


Model		Big mushroom type(with guard)(PMX)
How to order	Ordering code	CM3PMX06-P1
	Type	CM3PMX big mushroom type control set(green with guard)
	Ordering code	CM3PMX06-P2
	Type	CM3PMX big mushroom type control set(red with guard)
	Ordering code	CM3PMX06-P3
	Type	CM3PMX big mushroom type control set(black with guard)
	Ordering code	CM3PMX06-P4
	Type	CM3PMX big mushroom type control set(yellow with guard)
Applicable products		CM3PMX05 CM3PMX06 CM3PMX08

Double-selector type(HD)

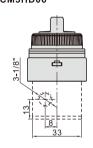
CM3HD05

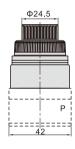


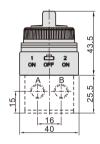




CM3HD06

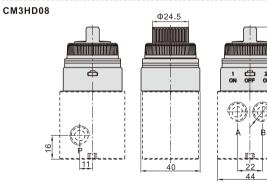
















Model		Double-selector type (HD)
How to order	Ordering code	CM3HD06-P1
	Type	CM3HD double-selector type control set(green)
	Ordering code	CM3HD06-P2
	Type	CM3HD double-selector type control set(red)
	Ordering code	CM3HD06-P3
	Type	CM3HD double-selector type control set(black)
	Ordering code	CM3HD06-P4
	Type	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.

