

ISO compliant master valve

PV5S-0 Series

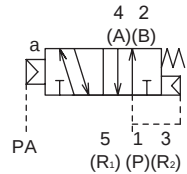
- Cylinder bore size: max. ø100 (PV5S-6-0)
max. ø160 (PV5S-8-0)

RoHS

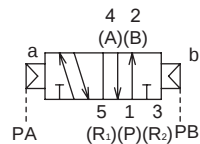
JIS symbol

- 5-port valve

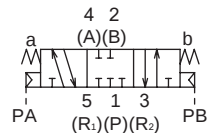
2-position single (FG-S)



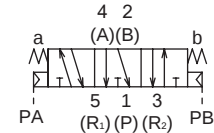
2-position double (FG-D)



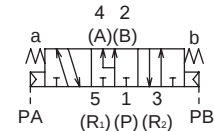
3-position all ports closed (FHG)



3-position A/B/R connection (FJG)



3-position P/A/B connection (FIG)



Specifications

Item	Description
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)
Min. working pressure MPa	Refer to main pressure section in the table below
Proof pressure MPa	1.50 (≈220 psi, 15 bar)
Ambient temperature °C	-5 (23°F) to 60 (140°F) (no freezing)
Fluid temperature °C	5 (41°F) to 60 (140°F)
Lubrication	Not required
Vibration resistance m/s ²	50 or less
Shock resistance m/s ²	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

Individual specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Model No.	Solenoid position	Pilot port PA/PB	Main pressure [MPa]	Pilot pressure [MPa]
PV5S-6	2-position single	Rc1/8	0.15 to 1.0	(0.6 x main pressure + 0.06) to 1.0
	2-position double		0 (≈0 psi, 0 bar) to 1.0 (≈150 psi, 10 bar)	0.15 to 1.0
	3-position all ports closed			0.25 to 1.0
	3-position A/B/R connection			
	3-position P/A/B connection			
PV5S-8	2-position single	Rc1/8	0.15 to 1.0	(0.6 x main pressure + 0.06) to 1.0
	2-position double		0 (≈0 psi, 0 bar) to 1.0 (≈150 psi, 10 bar)	0.15 to 1.0
	3-position all ports closed			0.25 to 1.0
	3-position A/B/R connection			
	3-position P/A/B connection			

Weight

Model No.	Solenoid position	Weight [kg]
PV5S-6	2-position single	0.31
	2-position double	0.36
	3-position	0.39
PV5S-8	2-position single	0.48
	2-position double	0.52
	3-position	0.56

*1: The weight listed is the weight without the sub-plate and option code ML.

Flow characteristics

C[dm³/(s·bar)]

Model No.	Solenoid position	P ⇒ A/B	A/B ⇒ R
PV5S-6	2-position single	4 or more	4 or more
	2-position double		
	3-position all ports closed		
	3-position A/B/R connection		
	3-position P/A/B connection		
PV5S-8	2-position single	9 or more	9 or more
	2-position double		
	3-position all ports closed		
	3-position A/B/R connection		
	3-position P/A/B connection		

*2: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.

How to order

PV5S - 6 - FG-S - 0 - ML - A02

Model No.

ISO size 1: 6
ISO size 2: 8

A Solenoid position

Master valve

B Option

C Sub-plate

		Model No.	
Code	Description	PV5S-6	PV5S-8
A Solenoid position			
FG-S	2-position single	●	●
FG-D	2-position double	●	●
FHG-D	3-position all ports closed	●	●
FJG-D	3-position ABR connection	●	●
FIG-D	3-position PAB connection	●	●
B Option			
M	With direct manual override	●	●
ML	With direct manual override, with pilot air indicator	●	●
C Sub-plate			
Blank	Without sub-plate	●	●
A02	Side piping Rc1/4 (Rc3/8 for R port only)	●	●
A03	Side piping Rc3/8 (with PV5S-8, Rc1/2 for R port only)	●	●
A04	Side piping (Rc1/2)	●	●
A06	Side piping (Rc3/4)	●	●

ISO size 1 sub-plate specifications and how to order

CB1 - A02

A Piping connection method

Code	Type	P/A/B port	R1/R2 port	Weight (kg)
A Piping connection method				
A02	Side	Rc1/4	Rc 3/8	0.27
A03	piping	Rc3/8		

ISO size 2 sub-plate specifications and how to order

CB2 - A03

A Piping connection method

Code	Type	P/A/B port	R1/R2 port	Weight (kg)
A Piping connection method				
A03	Side piping	Rc3/8	Rc1/2	0.49
A04		Rc1/2		
A06		Rc3/4	Rc3/4	1.40

These master valves (PV5S-0 series) are not available for shipment with manifold.
When using with a manifold, separately purchase the GMF series.
Refer to pages 1484 to 1495 for details on the GMF series.

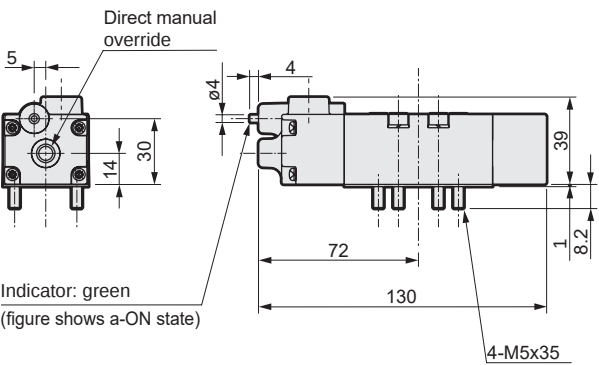
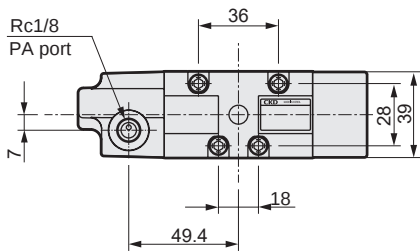
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

PV5S-6-0 Series

Dimensions: ISO size 1 (without sub-plate)

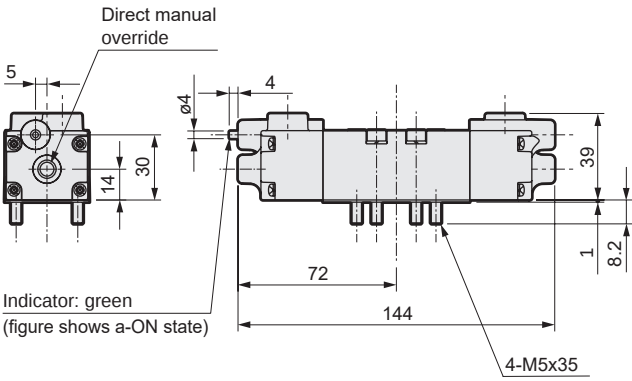
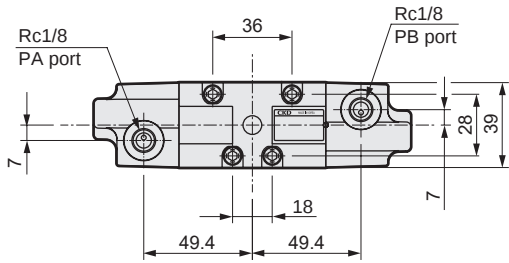
PV5S-6-FG-S-0-*

● 2-position single



PV5S-6-FG-D-0-*

● 2-position double

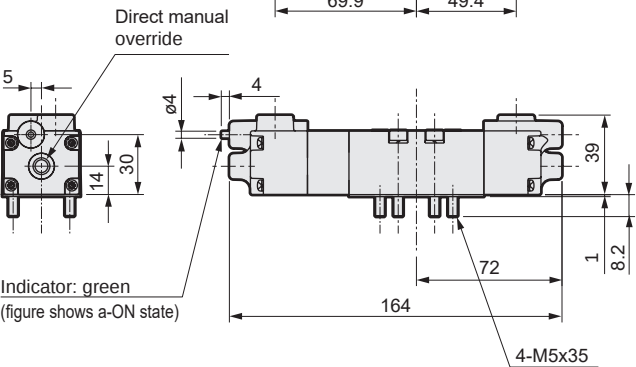
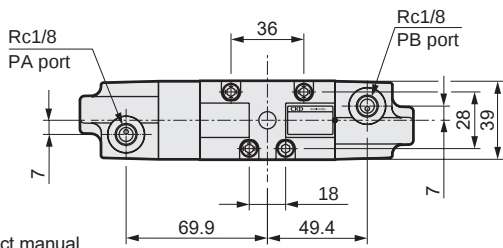


PV5S-6-FHG-D-0-*

PV5S-6-FJG-D-0-*

PV5S-6-FIG-D-0-*

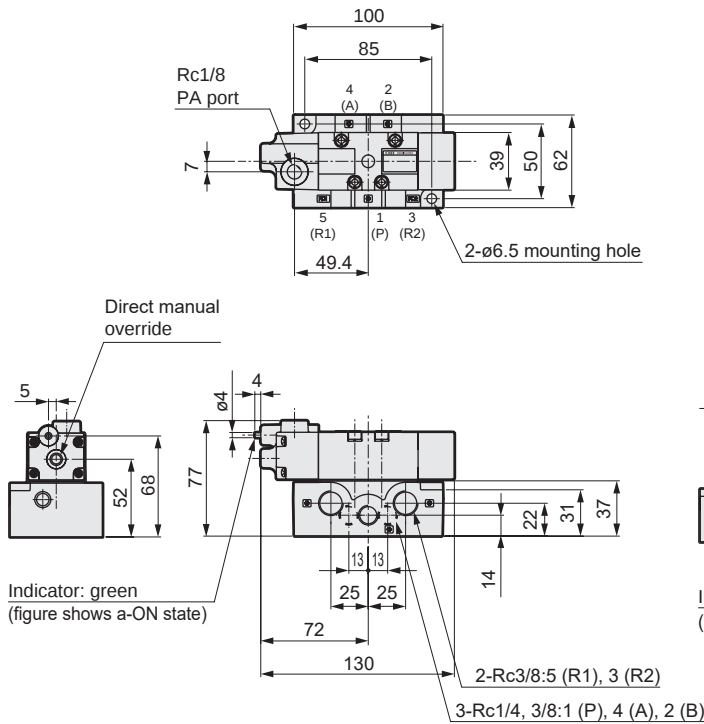
● 3-position



Dimensions: ISO size 1 (with sub-plate)

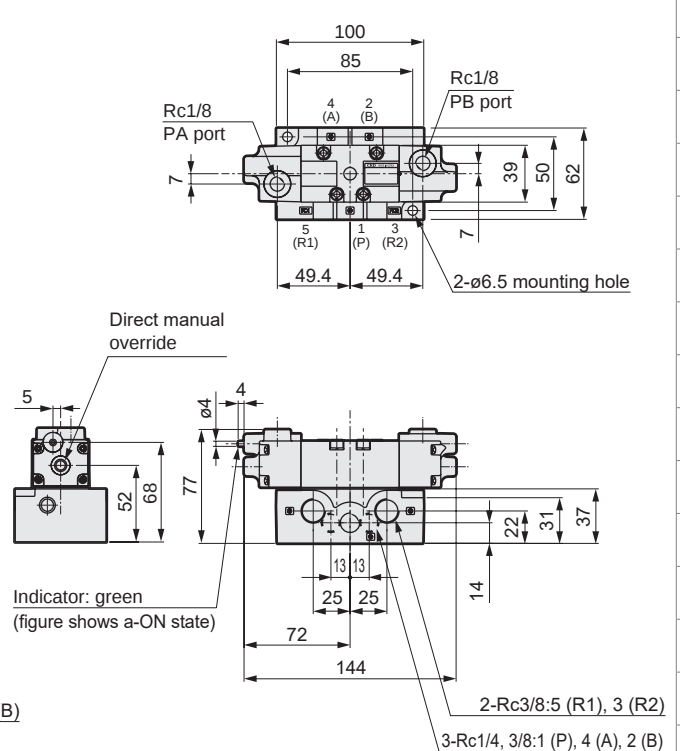
PV5S-6-FG-S-0-*-A0*

● 2-position single



PV5S-6-FG-D-0-*-A0*

● 2-position double

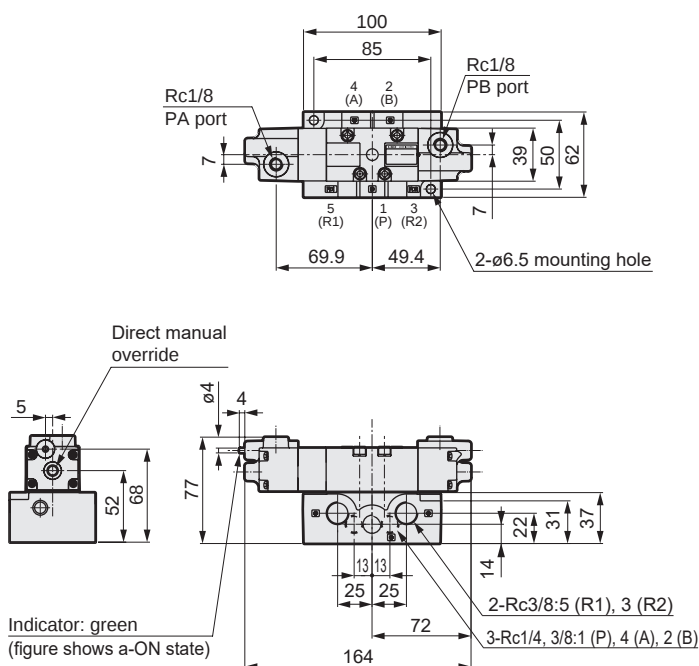


PV5S-6-FHG-D-0-*-A0*

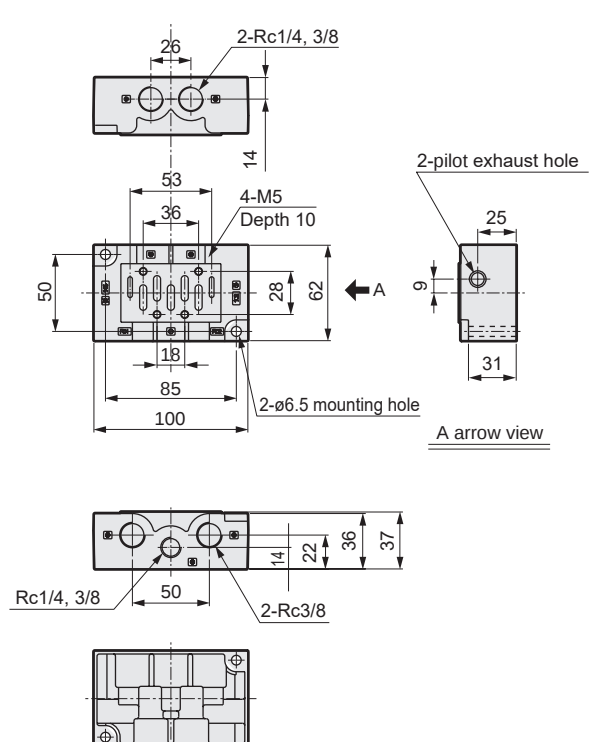
PV5S-6-FJG-D-0-*-A0*

PV5S-6-FIG-D-0-*-A0*

● 3-position



● Sub-plate dimensions



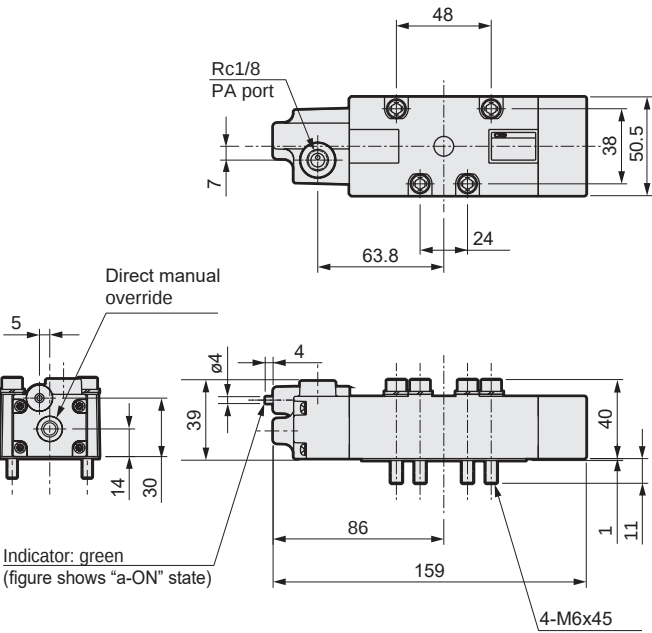
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

PV5S-8-0 Series

Dimensions: ISO size 2 (without sub-plate)

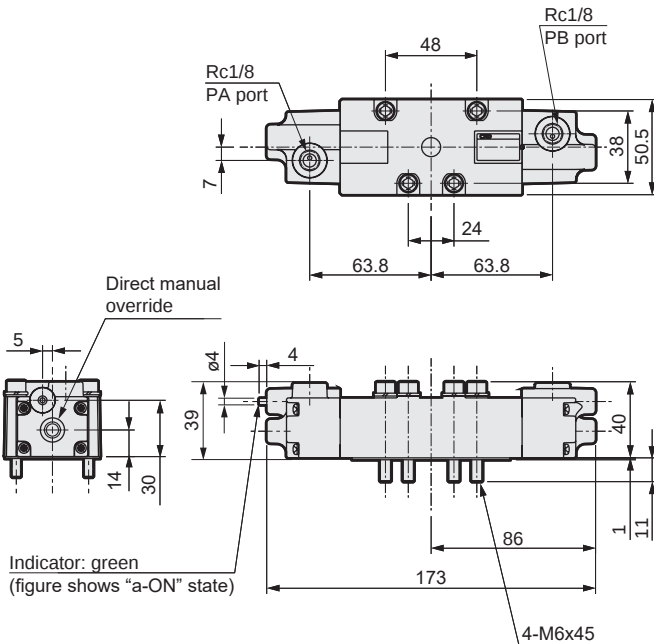
PV5S-8-FG-S-0-*

● 2-position single



PV5S-8-FG-D-0-*

● 2-position double

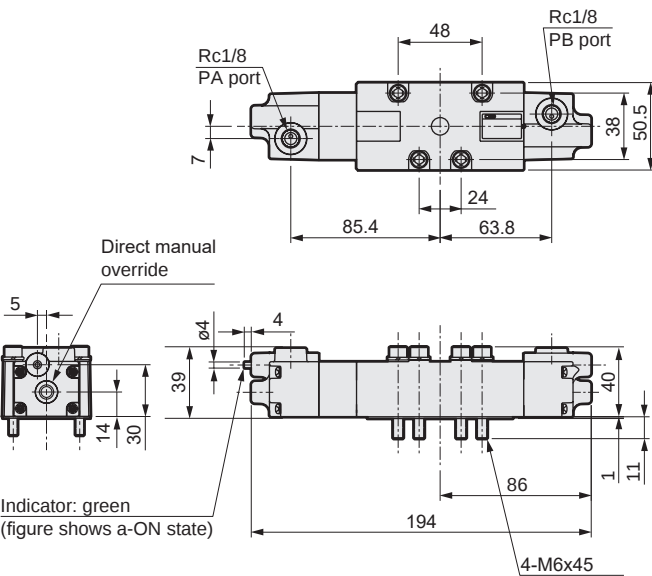


PV5S-8-FHG-D-0-*

PV5S-8-FJG-D-0-*

PV5S-8-FIG-D-0-*

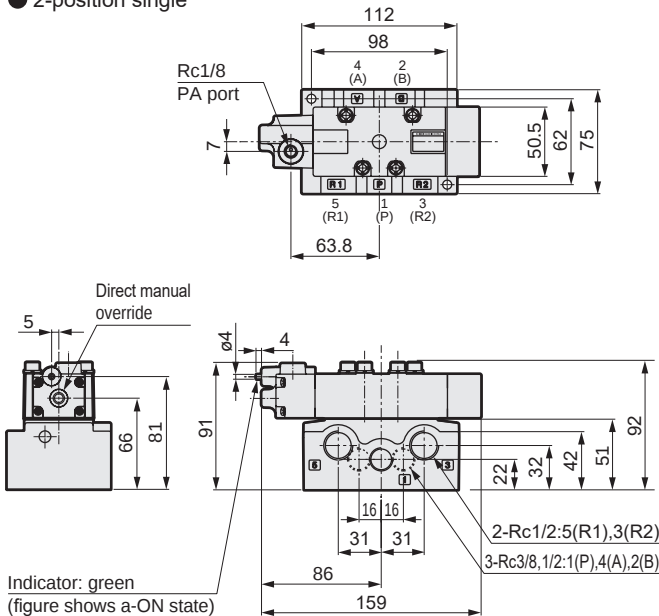
● 3-position



Dimensions: ISO size 2 (with sub-plate)

PV5S-8-FG-S-0-*-A0*

● 2-position single

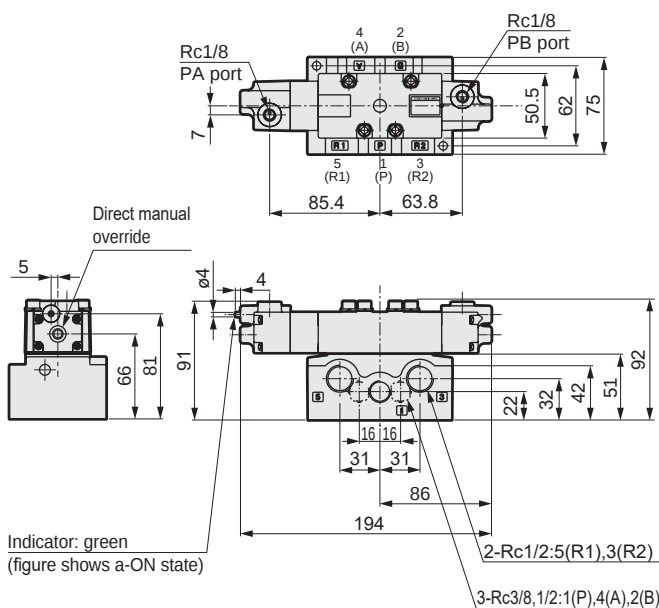


PV5S-8-FHG-D-0-*-A0*

PV5S-8-FJG-D-0-*-A0*

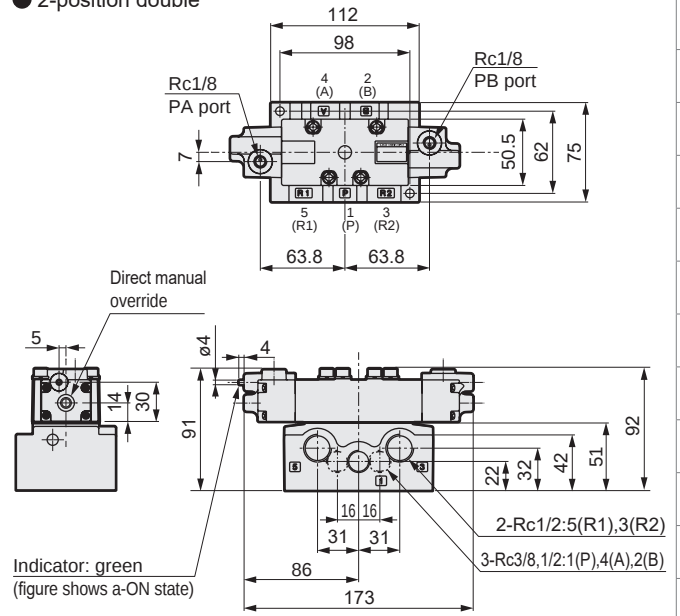
PV5S-8-FIG-D-0-*-A0*

● 3-position

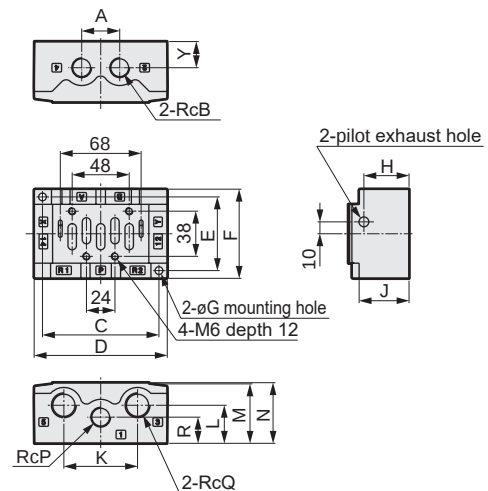


PV5S-8-FG-D-0-*-A0*

● 2-position double



● Sub-plate dimensions



Model No.	CB2-A03	CB2-A04	CB2-A06
A	32		40
B	3/8	1/2	3/4
C	98		128
D	112		142
E	62		72
F	75		86
G	6.5		7.5
H	38		53
J	42		55
K	62		84
L	32		42
M	50		62
N	51		63
P	3/8	1/2	3/4
Q	1/2		3/4
R	22		30

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/INP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending