

PV5/CMF

ISO conformed valve

5 port pilot operated valve

Overview

PV5 series is 5 port pilot operated valve conformable with ISO standards of valve installation dimensions.

Applicable cylinder bore size up to 160mm.

Features

ISO standards conformed

Mounting space, nominal designation of screw thread and flow path dimensions of the valve are conformable with ISO standards.

Energy saving

Realizes energy saving with low wattage design (1.4W to 2.1W).

Space saving

38 to 50mm valve wide and compact design. Contributes to downsizing of devices etc.

Easy maintenance

One plug wiring method and one tough plug-in method between valve and solenoid are provided. Set screws are gathered to the top. Maintenance is easy.

Resource saving

Special soft packing seal provided. Pre-lubricated.

Long term use available

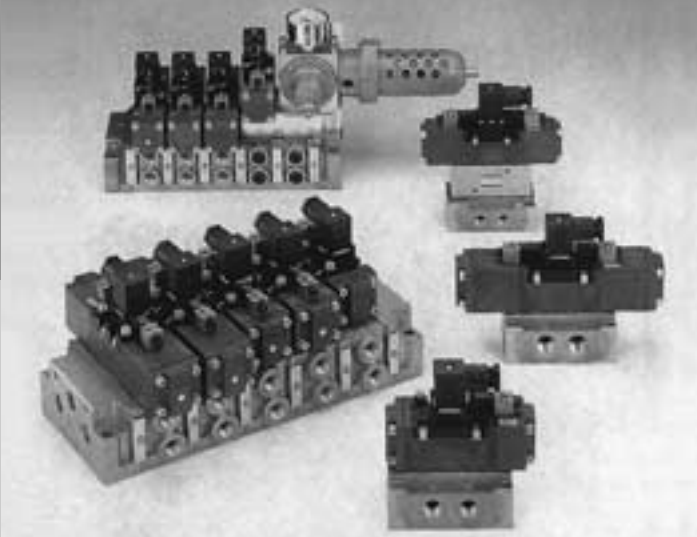
Widely used soft spool method is provided. Long service life.

For two piston cylinder drive

Exhaust pressurization type is available. Optimum for driving a two piston cylinder for welding machine etc.

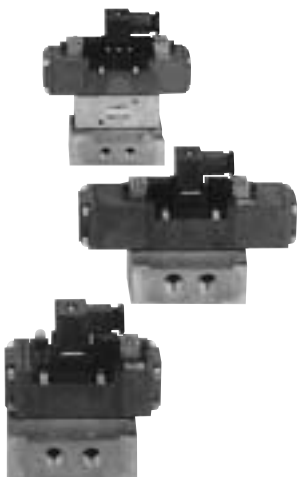
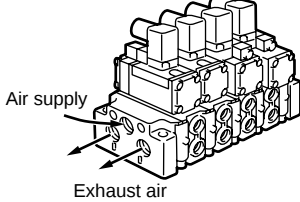
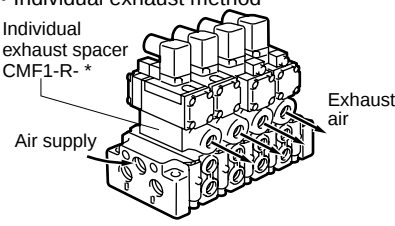
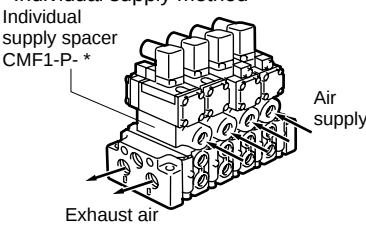
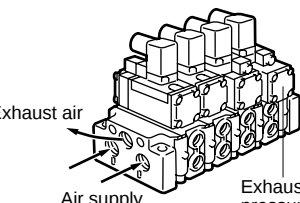
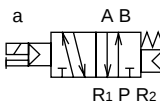
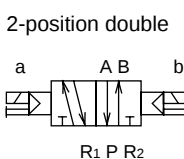
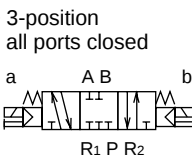
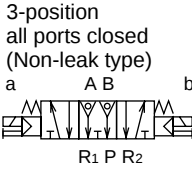
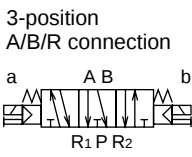
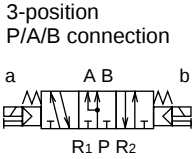
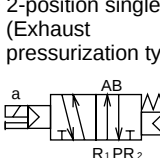
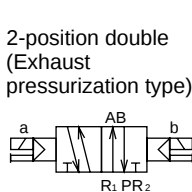
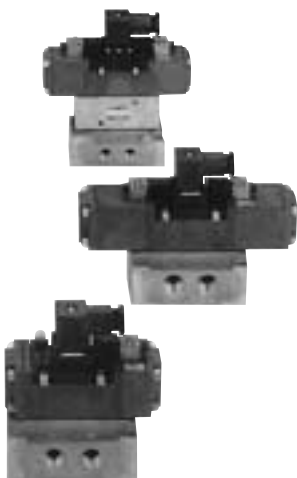
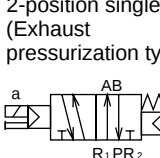
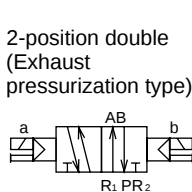
Wide variation of options

Mix manifold of size 1 and 2. For Size 1, a filter, a regulator and an air release valve mounted types are available.



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Series/appearance		Position No. of solenoid JIS symbol	Valve faculty		Voltage
Discrete valve	Individual wiring type manifold		Applicable cylinder bore size	Effective sectional area (mm ²)	
PV5-6 5 port valve 	Discrete: Page 654 Manifold: Page 666 • Common exhaust method  • Individual exhaust method Individual exhaust spacer CMF1-R- *  • Individual supply method Individual supply spacer CMF1-P- *  • Common method 	• 2-position single  • 2-position double  • 3-position all ports closed  • 3-position all ports closed (Non-leak type)  • 3-position A/B/R connection  • 3-position P/A/B connection  • 2-position single (Exhaust pressurization type)  • 2-position double (Exhaust pressurization type) 	MAX. 100 dia.	20 to 28	AC100V AC200V DC 12V DC 24V
PV5-8 5 port valve 	Discrete: Page 660 Manifold: Page 670 • Multi-pressure air supply method This is a method that high and low, two different pressures are supplied to one manifold. Insert a masking plate (CM1-01) between manifold blocks whose pressures are different. • Individual supply/exhaust method Insert individual air supply (CMF1-P- *) and exhaust air spacers (CMF1-R- *) between a manifold block and a valve to individually supply and exhaust air. • Rear piping method When side porting is impossible, a part or all of port A and B can be piped from bottom of manifold.	• 2-position single (Exhaust pressurization type)  • 2-position double (Exhaust pressurization type) 	MAX. 160 dia.	40 to 63	AC100V AC200V DC 12V DC 24V

ISO size	Size ①					Size ②										
	Discrete: PV5-6 series Effective sectional area (mm ²): 25 to 28 Manifold: CMF1 series					Discrete: PV5-8 series Effective sectional area (mm ²): 50 to 63 Manifold: CMF2 series										
Sub base																
	Model No.	Electrical connection type	Port size			Model No.	Electrical connection type	Port size								
			P/A/B	R1/R2				P/A/B	R1/R2							
	CB1-A02	Side porting	Rc1/4	Rc3/8		CB2-A03	Side porting	Rc3/8	Rc1/2		CB2-B03	Back porting	Rc3/8	Rc1/2		
	CB1-A03		Rc3/8			CB2-A04		Rc1/2			CB2-B04		Rc1/2			
	CB1-B02	Back porting	Rc1/4			CB2-A06		Rc3/4	Rc3/4		CB2-B06		Rc3/4		Rc3/4	
	CB1-B03	Rc3/8														
	Page 666					Page 670										
	Base specifications					Base specifications										
Series	Descriptions		Specifications		Series	Descriptions		Specifications								
CMF1 Series	Station #		1 to 10 stations (When a control unit is integrated, control unit equivalent to 2 station)		CMF2 Series	Station #		1 to 10 stations								
	Port size	Port A/B	Rc 1 / 4, 3 / 8			Port size	Port A/B	Rc 3 / 8, 1 / 2								
		Port P/R1/R2	Rc 3 / 8, 1 / 2				Port P/R1/R2	Rc 1 / 2, 3 / 4								
	Option	Control unit		Air filter (manual drain/automatic drain) Regulator/air release valve		Option		Individual supply spacer		CMF2-P- *						
		Individual supply spacer		CMF1-P- *			Individual exhaust spacer		CMF2-R- *							
		Individual exhaust spacer		CMF1-R- *			Masking plate		CM2-00							
		Masking plate		CM1-00			Spacer type regulator		CMF2-SR-A B							
		Spacer type regulator		CMF1-SR-A B			Air pilot check valve		CMF2-PC							
		Air pilot check valve		CMF1-PC												
	Manifold structure (As an option, CMFZ type, combination of CMF1 and CMF2, is available)															
1	Common exhaust method				1	Common exhaust method										
2	Individual exhaust method				2	Individual exhaust method										
3	Individual supply method				3	Individual supply method										
4	Multi-pressure air supply method				4	Multi-pressure air supply method										
5	Individual supply/exhaust method				5	Individual supply/exhaust method										
6	Back porting method				6	Back porting method										

4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B (master)

MN3S0/

MN4S0

4TB

4L2-4/

LMF0

4KA/B

4F

PV5/

CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/

NVP

4F**0E

HMV/

HSV

Uniwire

system

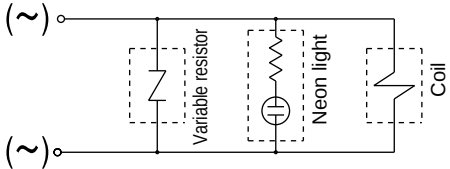
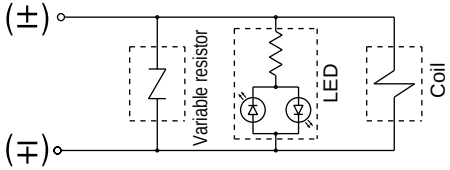
SKH

PCD/

FS/FD

5 port pilot operated valve

Electric connection circuit diagram

Electric connection (wiring method)			
Blank	None	N	Light/surge suppressor
AC		AC	
DC		DC	

• Variable resistor is used for surge suppressor.



Pneumatic components

Safety precautions

Please carefully read this before starting use.

Refer to Page 47 on the introduction about general precautions for valves.

5 port pilot operated valve PV5/CMF series



Caution

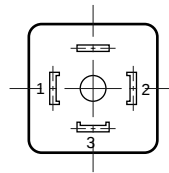
When installation/adjustment

1 Please use the cable conformable with JIS C3312 (600V vinyl insulation vinyl cable), conductor cross-section areas 0.75mm² or 1.25mm², and 2/3/4 conductor (O.D.: 8.5 to 11.5 mm).

2 On the end of cable, use crimp terminal to prevent contact defective and coming off.
(E.g.: 1.25Y-3U/1.25-3.5S/1.25-4M/I.D. M3.5
O.D. should be within 7mm.)

3 Wrong wiring of terminal may cause malfunction.
Refer to the following diagram to wire correctly.

How to wire



Terminal	Wiring position
1	Solenoid a (operation side)
2	Solenoid b (origin side)
3	Common terminal (COM)

When DC, not polarized.

4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B
(master)

MN3S0/
MN4S0

4TB

4L2-4/
LMF0

4KA/B

4F

PV5/
CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/
NVP

4F**0E

HMV/
HSV

Uniwire
system

SKH

PCD/
FS/FD

5 port pilot operated valve

Discontinue

Discrete (ISO size 1)

5 port pilot operated valve conformable with ISO

PV5-6 Series

• Applicable cylinder bore size: up to 100 mm

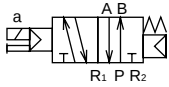


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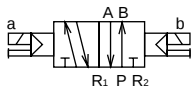
JIS symbol

• 5 port valve

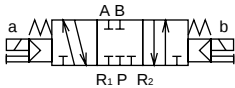
2-position single (FG-S)



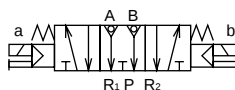
2-position double (FG-D)



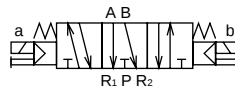
3-position all ports closed (FHG)



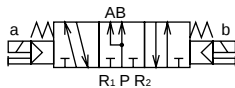
3-position all ports closed
Non-leak type (FPG)



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

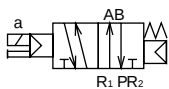


3-position P/A/B connection (FIG)



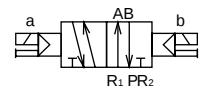
2-position single

Exhaust pressurization type (YZ-S)



2-position double

Exhaust pressurization type (YZ-D)



Common specifications

Descriptions	
Valve and solenoid type	Pilot operated soft spool valve
Working fluid	Compressed air
Min. working pressure MPa	• 1 0.10, 0.15 (FIG-D)
Max. working pressure MPa	0.97
Withstanding pressure MPa	1.50
Ambient temperature °C	-5 to 60
Fluid temperature °C	5 to 60
Lubrication	Not required
Protection structure	Dust proof
Leakage cm ³ /min	10 (ANR) or less 3-position all ports closed Non-leak type only 0.3 (ANR) or less (Port A, B → R)
Vibration/impact m/s ²	50 or less/300 or less
Working environment	Not to be subject to corrosive gas

• 1: Please use YZ-S with supply pressure of
R1>R2≥0.1MPa.

Electrical specifications

Descriptions			
Rated voltage V	AC		100, 200 (50/60Hz)
	DC		12, 24
Fluctuation range			±10%
Starting current A	AC	100V	0.056 / 0.044
		200V	0.034 / 0.026
	DC	12V	0.150
		24V	0.075
Holding current A	AC	100V	0.028 / 0.022
		200V	0.017 / 0.013
	DC	12V	0.150
		24V	0.075
Power consumption W	AC	100V	1.8 / 1.4
		200V	2.1 /1.6
	DC	12V	1.8
		24V	1.8
Heat proof class			B (Molded coil)
Wiring methods			Electric plug connector

Reference: AC100V coil is available for AC110V 60Hz, while
AC200V coil is available for A220V 60Hz.

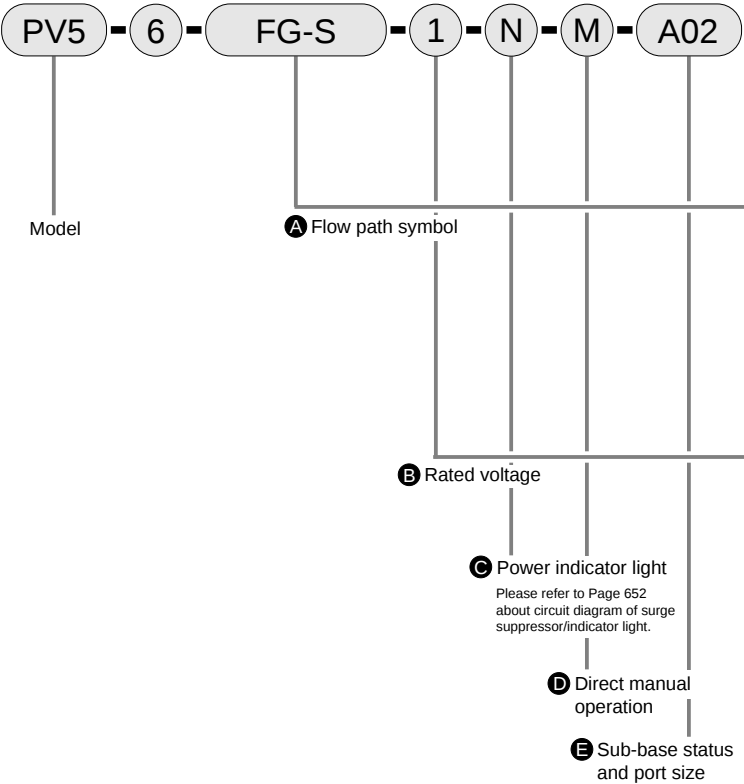
Individual specifications

Descriptions		PV5-6	
Port size		Rc1/4	Rc3/8
Effective sectional area mm ²	2-position	25	28
	3-position		
	Except non-leak type	25	27
Response time s	2-position		
	Single	0.03 (when ON), 0.04 (when OFF)	
	Double	0.03	
• 1	3-position	0.03 (when ON), 0.05 (when neutral)	
	2-position		
	Single	0.44	
Mass kg	2-position		
	Double	0.53	
	3-position		
	Except non-leak type	0.57	
	All ports closed non-leak type	1.23	

• 1: Response time is the value at supply pressure 0.5MPa and not lubricated. The value varies depending on pressure and quality of lubricant.
• 2: Mass of sub-plate is not included.

How to order discrete valve

• ISO size 1



Caution for model No. selection

• 1: When rated voltage symbol 9 (other voltage), indicate optional voltage at the end of model No.

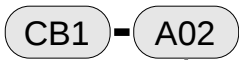
<Example of model number>

PV5-6-FG-S-1-N-A02

Model: PV5/ISO size 1

- A** Flow path circuit : P pressurization type 2-position single solenoid
- B** Rated voltage : AC100V
- C** Power indicator light : Surge suppressor/light
- D** Direct manual operation : Blank
- E** Sub base port size : Side porting Rc1/4, Port R Rc3/8

ISO size 1 Sub-base specifications and model No. methods



A Porting method

A	Symbol	Method	Port P/A/B	Port R1/R2	Mass (kg)
Porting method	A02	Side porting	Rc1/4	Rc3/8	0.36
	A03		Rc3/8		
	B02	Back porting	Rc1/4	Rc3/8	
	B03		Rc3/8		

Model			PV5-6
Symbol	Descriptions		
Flow path symbol	FG-S	2-position single	●
	FG-D	2-position double	●
	FHG-D	3-position all ports closed	●
	FJG-D	3-position A/B/R connection	●
	FIG-D	3-position P/A/B connection	●
	FPG-D	3-position all ports closed non-leak	●
	YZ-S	2-position single	●
	YZ-D	2-position double	●
Rated voltage	1	AC100V	●
	2	AC200V	●
	3	DC 24V	●
	4	DC 12V	●
	9	Other (voltage assignment) • 1	●
C	Blank	None	●
	N	Surge suppressor/light	●
D	Blank	None	●
	M	Main valve (spool) direct manual operation	●
E	Blank	Without sub plate	●
	A02	Side porting Rc1/4 (Port R only Rc3/8)	●
	A03	Side porting Rc3/8	●
	B02	Back porting Rc1/4 (Port R only Rc3/8)	●
	B03	Back porting Rc3/8	●

4SA/B0
4SA/B1
4GA/B
MN4GA/B
4GA/B (master)
MN3S0/
MN4S0
4TB
4L2-4/
LMF0
4KA/B
4F
PV5/
CMF
3MA/B0
3PA/B
P/M/B
NP/NAP/
NVP
4F**0E
HMV/
HSV
Uniwire
system
SKH
PCD/
FS/FD
5 port pilot operated valve
Discrete

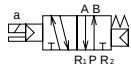
PV5-6 Series

Discrete valve: ISO size 1

Internal structure and parts list

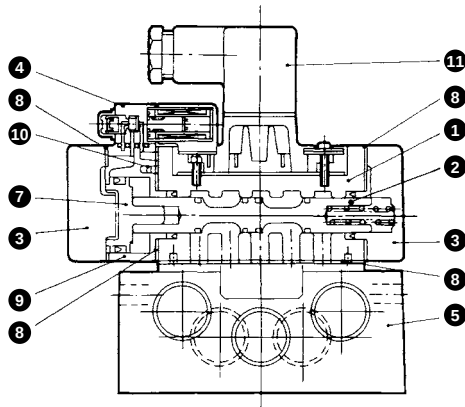
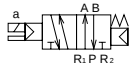
PV5-6-FG-S

- 2-position single



PV5-6-YZ-S

- 2-position single
- Exhaust pressurization type



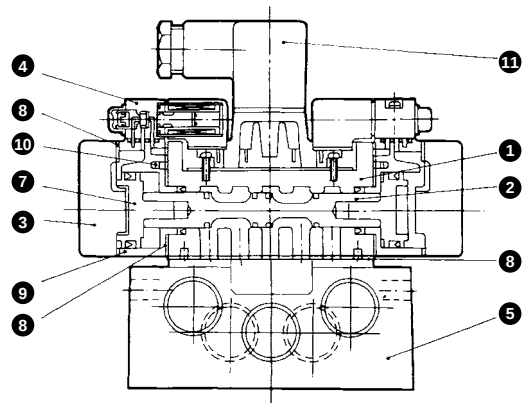
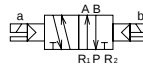
PV5-6-FG-D

- 2-position double



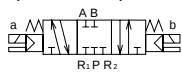
PV5-6-YZ-D

- 2-position double
- Exhaust pressurization type



PV5-6-FHG-D

- 3-position all ports closed



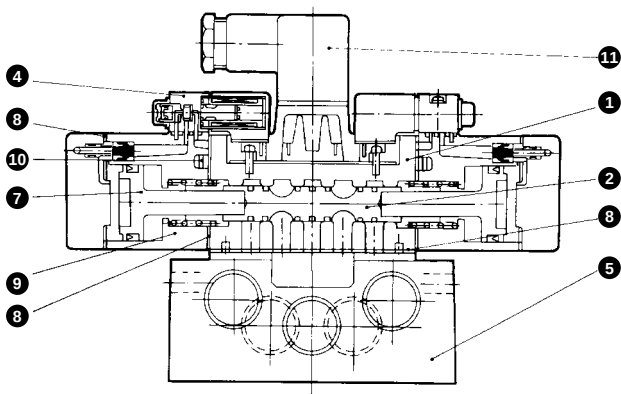
PV5-6-FJG-D

- 3-position A/B/R connection



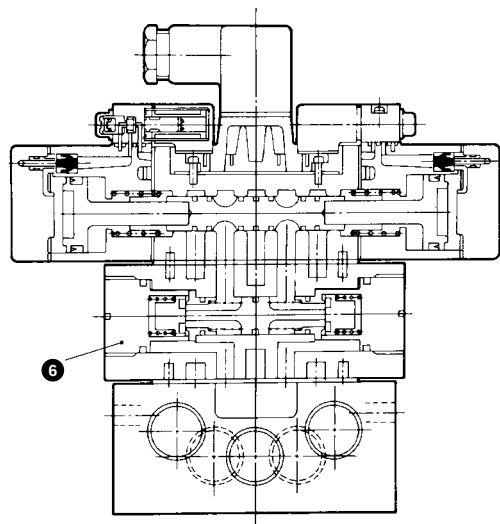
PV5-6-FIG-D

- 3-position P/A/B connection



PV5-6-FPG-D

- 3-position all ports closed non-leak type



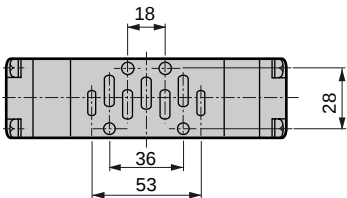
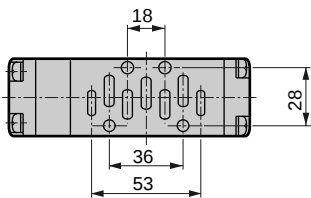
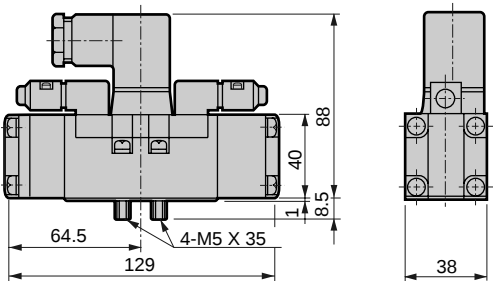
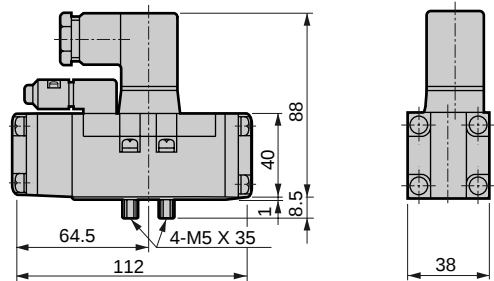
Main parts list

No.	Parts name	Material	No.	Parts name	Material
1	Body	Aluminum alloy die casting	7	Piston assembly	-
2	Spool assembly	Nitrile rubber, aluminum	8	Gasket	Nitrile rubber
3	Cap	Aluminum alloy die casting	9	Pilot valve body	-
4	Pilot valve	-	10	Filter	-
5	Sub base	Aluminum alloy die casting	11	DIN terminal box	-
6	Air pilot check valve	-			

Dimensions

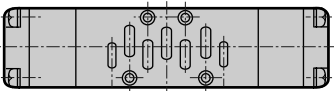
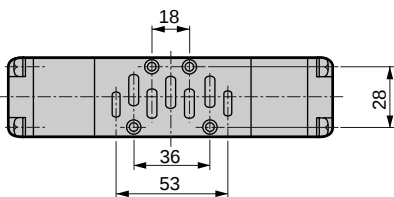
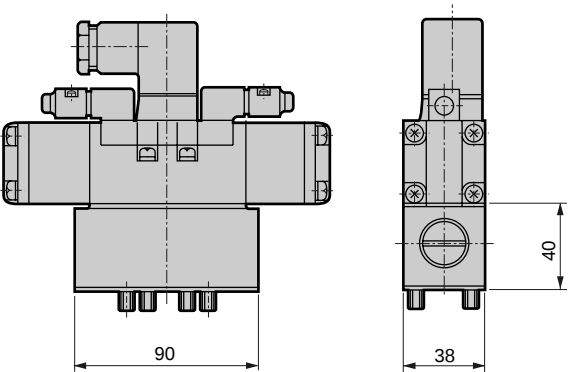
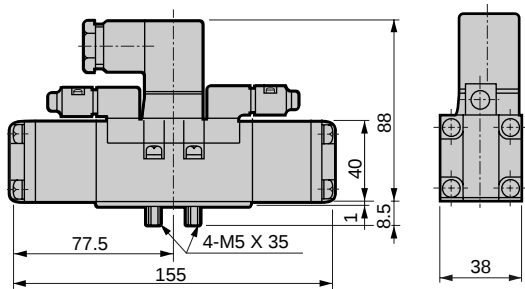
PV5-6-FG-S *  (File name: Page 680 or Ending 24)
PV5-6-YZ-S *
• 2-position single

PV5-6-FG-D *  (File name: Page 680 or Ending 24)
PV5-6-YZ-D *
• 2-position double



PV5-6-FHG-D *  (File name: Page 680 or Ending 24)
PV5-6-FJG-D *
PV5-6-FIG-D *
• 3-position

PV5-6-FPG-D *
• 3-position/non-leak type



4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B
(master)

MN3S0/
MN4S0

4TB

4L2-4/
LMF0

4KA/B

4F

PV5/
CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/
NVP

4F**0E

HMV/
HSV

Uniwire
system

SKH

PCD/
FS/FD

Discrete
5 port pilot operated valve

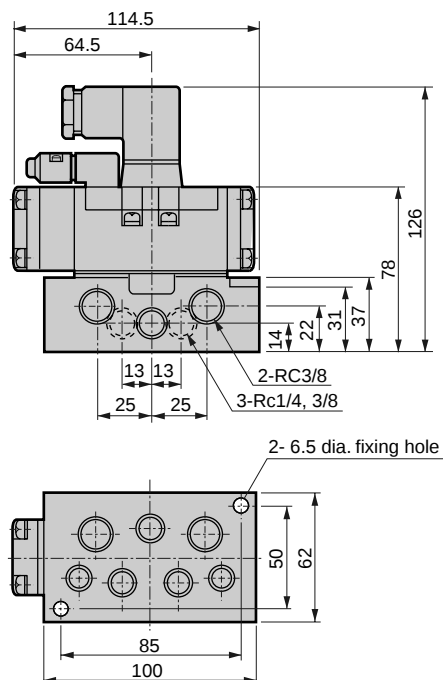
Discrete valve ISO size 1: Sub base

Dimensions

PV5-6-FG-S * *

PV5-6-YZ-S * *

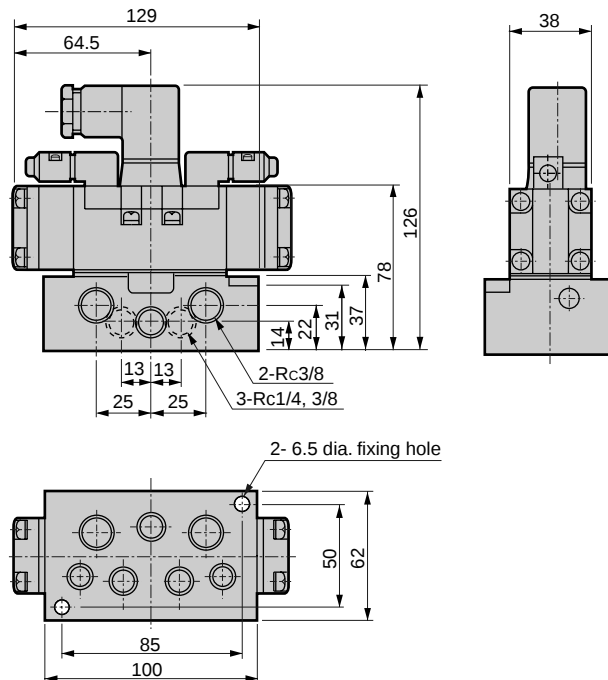
- 2-position single



PV5-6-FG-D * *

PV5-6-YZ-D * *

- 2-position double

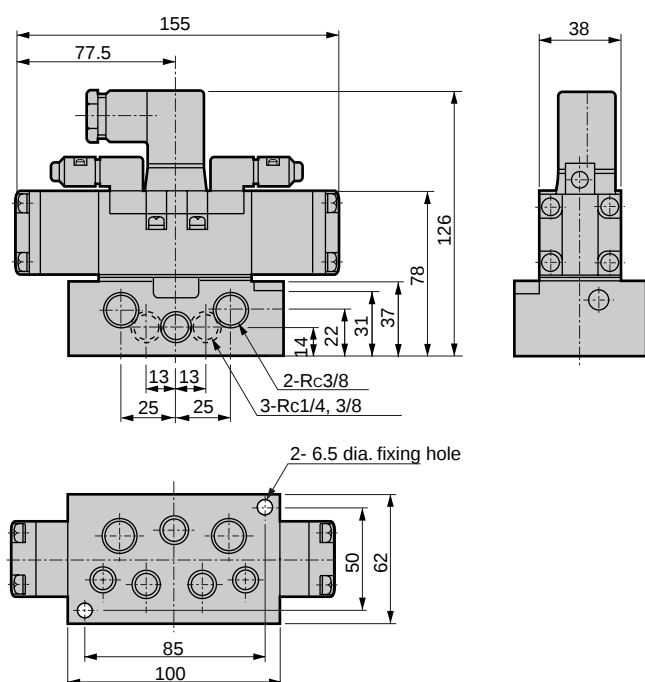


PV5-6-FHG-D * *

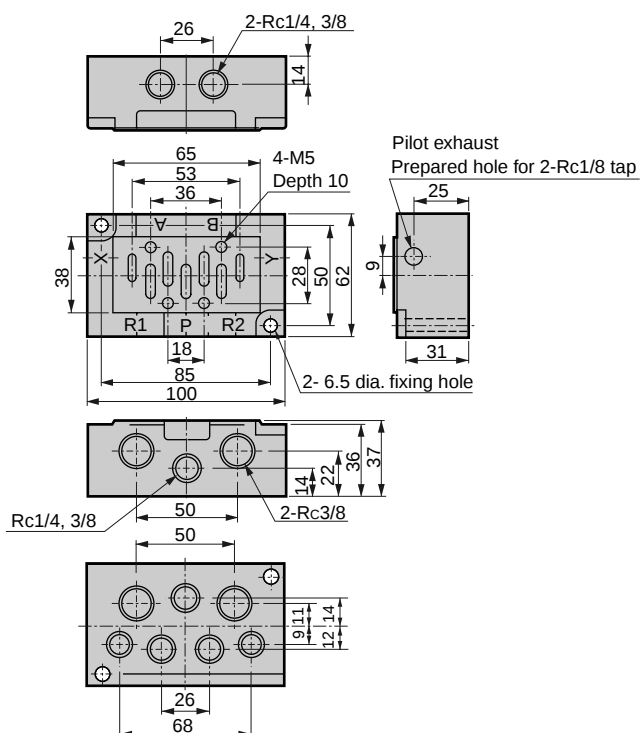
PV5-6-FJG-D * *

PV5-6-F|G-D * *

- 3-position



- Sub base dimensions



Discontinue

Discrete (ISO size 2)

5 port pilot operated valve conformable with ISO

PV5-8 Series

• Applicable cylinder bore size: Up to 160 mm



CAD DATA AVAILABLE.

JIS symbol

• 5 port valve

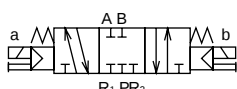
2-position single (FG-S)



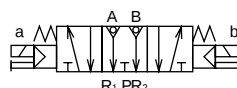
2-position double (FG-D)



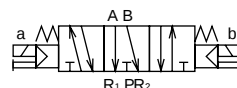
3-position all ports closed (FHG)



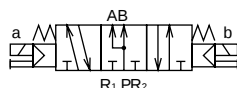
3-position all ports closed
Non-leak type (FPG)



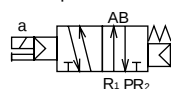
3-position A/B/R connection (FJG)



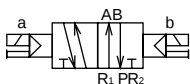
3-position P/A/B connection (FIG)



2-position single
Exhaust pressurization type (YZ-S)



2-position double
Exhaust pressurization type (YZ-D)



Common specifications

Descriptions	
Valve and solenoid type	Pilot operated soft spool valve
Working fluid	Compressed air
Min. working pressure MPa	• 1 0.10, 0.15 (FIG-D)
Max. working pressure MPa	0.97
Withstanding pressure MPa	1.50
Ambient temperature °C	-5 to 60
Fluid temperature °C	5 to 60
Lubrication	Not required
Protection structure	Dust proof
Leakage cm ³ /min	10 (ANR) or less
	3-position all ports closed
	Non-leak type only 0.3 (ANR) or less (Port A, B → R)
Vibration/impact m/s ²	50 or less/300 or less
Working environment	Not to be subject to corrosive gas

• 1: Please use YZ-S with supply pressure of R1>R2≥ 0.1MPa.

Electrical specifications

Descriptions			
Rated voltage V	AC	100, 200 (50/60Hz)	
	DC	12, 24	
Fluctuation range			±10%
Starting current A	AC	100V	0.056 / 0.044
		200V	0.034 / 0.026
	DC	12V	0.150
		24V	0.075
Holding current A	AC	100V	0.028 / 0.022
		200V	0.017 / 0.013
	DC	12V	0.150
		24V	0.075
Power consumption W	AC	100V	1.8 / 1.4
		200V	2.1 / 1.6
	DC	12V	1.8
		24V	1.8
Heat proof class			B (Molded coil)
Wiring methods			Electric plug connector

Reference: AC100V coil is available for AC110V 60Hz, while AC200V coil is available for A220V 60Hz.

Individual specifications

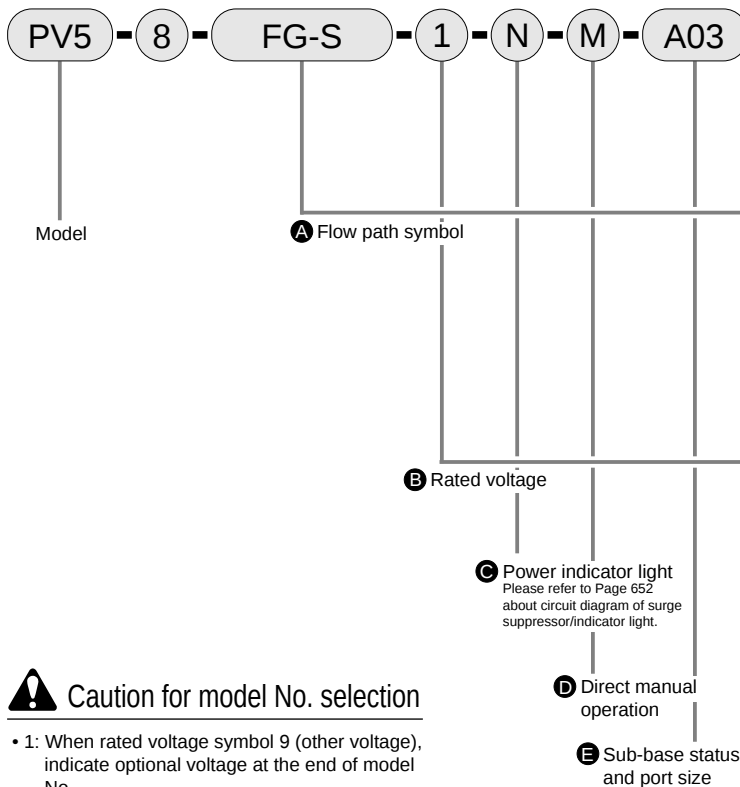
Descriptions		PV5-8		
Port size		Rc3/8	Rc1/2	Rc3/4
Effective sectional area mm ²	2-position	50	55	63
	Except non-leak type		53	61
	All ports closed non-leak type	40	40	40
Response time s	2-position	0.04 (when ON), 0.06 (when OFF)		
	Single	0.04		
	Double	0.04		
• 1	3-position	0.04 (when ON), 0.06 (when neutral)		
	2-position	0.71		
	Single	0.85		
Mass kg	2-position	1.10		
	Double	1.75		
	Except non-leak type	1.75		
	All ports closed non-leak type	1.75		

• 1: Response time is the value at supply pressure 0.5MPa and not lubricated. The value varies depending on pressure and quality of lubricant.

• 2: Mass of sub-plate is not included.

How to order discrete valve

• ISO size 2



Caution for model No. selection

- 1: When rated voltage symbol 9 (other voltage), indicate optional voltage at the end of model No.

<Example of model number>

PV5-8-FG-S-1-N-A03

Model : PV5/ISO size 2

- A** Flow path circuit : P pressurization
type 2-position
Single solenoid
- B** Rated voltage : AC100V
- C** Power indicator light : Surge suppressor/
light
- D** Direct manual operation : Blank
- E** Sub base port size : Side porting Rc3/8,
Port R Rc1/2

		Model	
		PV5-8	
A	FG-S	2-position single	●
	FG-D	2-position double	●
	FHG-D	3-position all ports closed	●
	FJG-D	3-position A/B/R connection	●
	FIG-D	3-position P/A/B connection	●
	FPG-D	3-position all ports closed non-leak	●
	YZ-S	2-position single	●
	YZ-D	2-position double	●
B	1	AC100V	●
	2	AC200V	●
	3	DC 24V	●
	4	DC 12V	●
	9	Other (voltage assignment) • 1	●
C	Blank	None	●
	N	Surge suppressor/light	●
D	Blank	None	●
	M	Main valve (spool) direct manual operation	●
E	Blank	Without sub plate	●
	A03	Side porting Rc3/8 (Port R only Rc1/2)	●
	A04	Side porting Rc1/2	●
	A06	Side porting Rc3/4	●
	B03	Back porting Rc3/8 (Port R only Rc1/2)	●
	B04	Back porting Rc1/2	●
	B06	Back porting Rc3/4	●

4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B (master)

MN3S0/

MN4S0

4TB

4L2-4/

LMF0

4KA/B

4F

PV5/

CMF

3MA/B0

P/M/B

NP/NAP/

NVP

4F**0E

HMV/

HSV

Uniwire

system

SKH

PCD/

FS/FD

5 port pilot operated valve

Discrete

ISO size 2 Sub-base specifications and model No. methods

CB2 - A03

A Porting method

A	Symbol	Method	Port P/A/B	Port R1/R2	Mass (kg)
Porting method	A03	Side porting	Rc 3/8	Rc 1/2	0.66
	A04		Rc 1/2		0.64
	A06		Rc 3/4		1.40
Porting method	B03	Back porting	Rc 3/8	Rc 1/2	0.62
	B04		Rc 1/2		0.61
	B06		Rc 3/4		1.40

PV5-8 Series

Discrete valve: ISO size 2

Internal structure and parts list

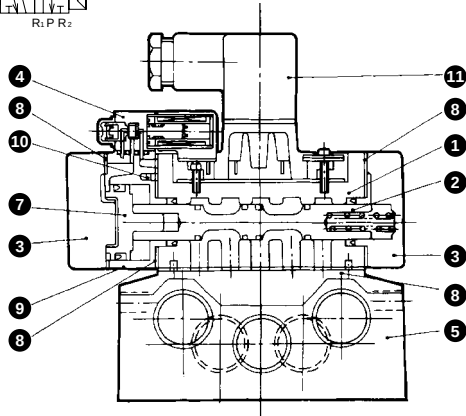
PV5-8-FG-S

- 2-position single



PV5-8-YZ-S

- 2-position single
- Exhaust pressurization type



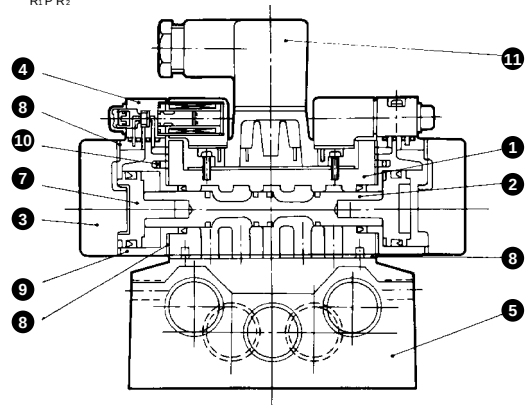
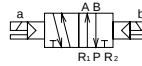
PV5-8-FG-D

- 2-position double



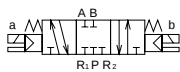
PV5-8-YZ-D

- 2-position double
- Exhaust pressurization type



PV5-8-FHG-D

- 3-position all ports closed



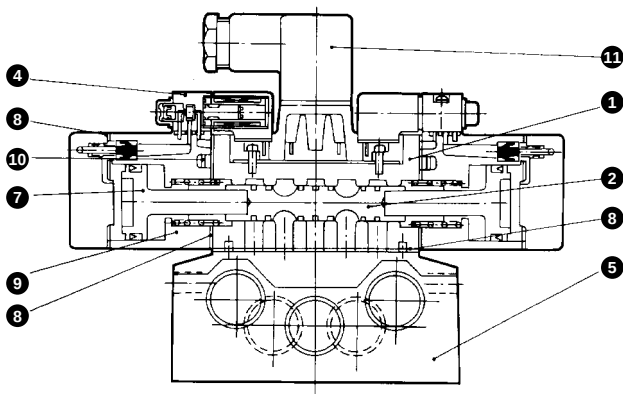
PV5-8-FJG-D

- 3-position A/B/R connection



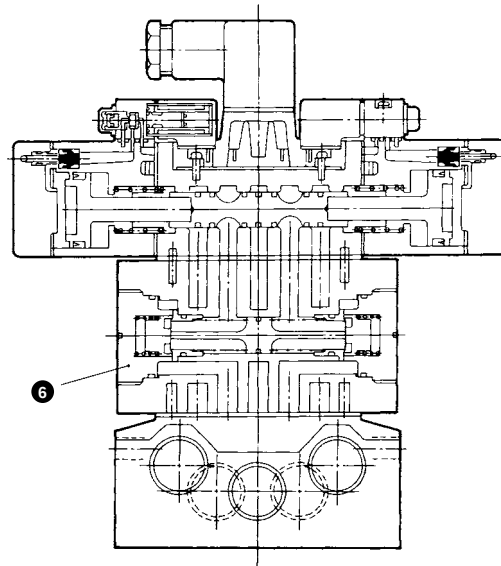
PV5-8-FIG-D

- 3-position P/A/B connection



PV5-8-FPG-D

- 3-position all ports closed non-leak type



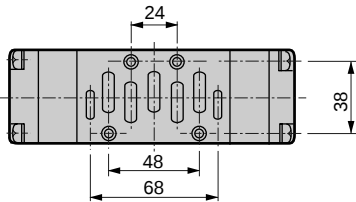
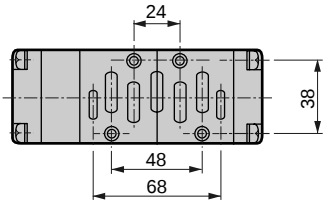
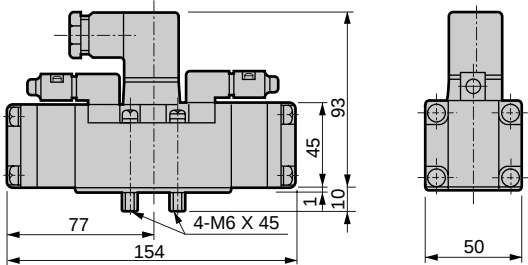
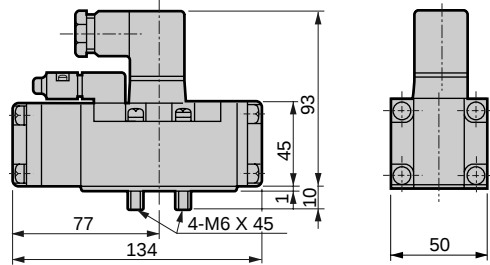
Main parts list

No.	Parts name	Material	No.	Parts name	Material
1	Body	Aluminum alloy die casting	7	Piston assembly	-
2	Spool assembly	Nitrile rubber, aluminum	8	Gasket	Nitrile rubber
3	Cap	Aluminum alloy die casting	9	Pilot valve body	-
4	Pilot valve	-	10	Filter	-
5	Sub base	Aluminum alloy die casting	11	DIN terminal box	-
6	Air pilot check valve	-			

Dimensions

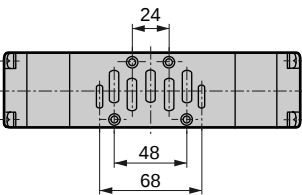
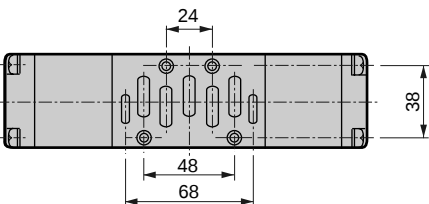
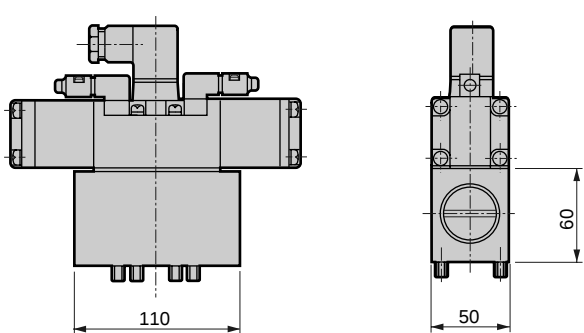
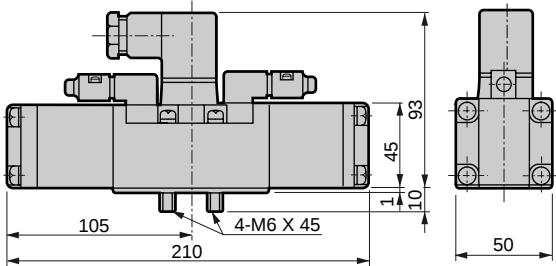
PV5-8-FG-S *  (File name: Page 680 or Ending 24)
PV5-8-YZ-S *
• 2-position single

PV5-8-FG-D *  (File name: Page 680 or Ending 24)
PV5-8-YZ-D *
• 2-position double



PV5-8-FHG-D *  (File name: Page 680 or Ending 24)
PV5-8-FJG-D *
PV5-8-FIG-D *
• 3-position

PV5-8-FPG-D *
• 3-position/non-leak type



4SA/B0

4SA/B1

4GA/B

MN4GA/B

4GA/B
(master)

MN3S0/
MN4S0

4TB

4L2-4/
LMF0

4KA/B

4F

PV5/
CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/
NVP

4F**0E

HMV/
HSV

Uniwire
system

SKH

PCD/
FS/FD

Discrete
5 port pilot operated valve

PV5-8 Series

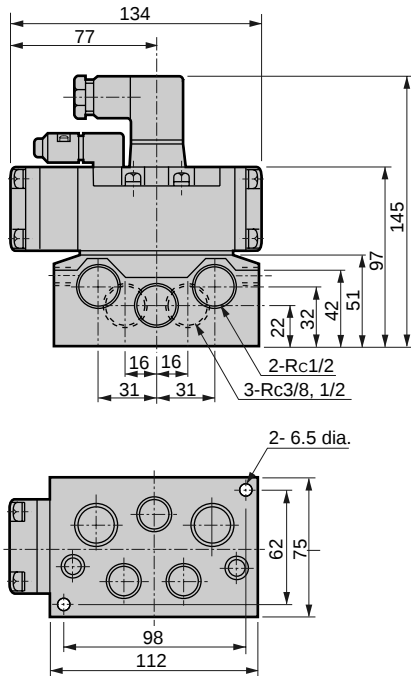
Discrete valve ISO size 2: Sub base

Dimensions

PV5-8-FG-S **

PV5-8-YZ-S **

• 2-position single

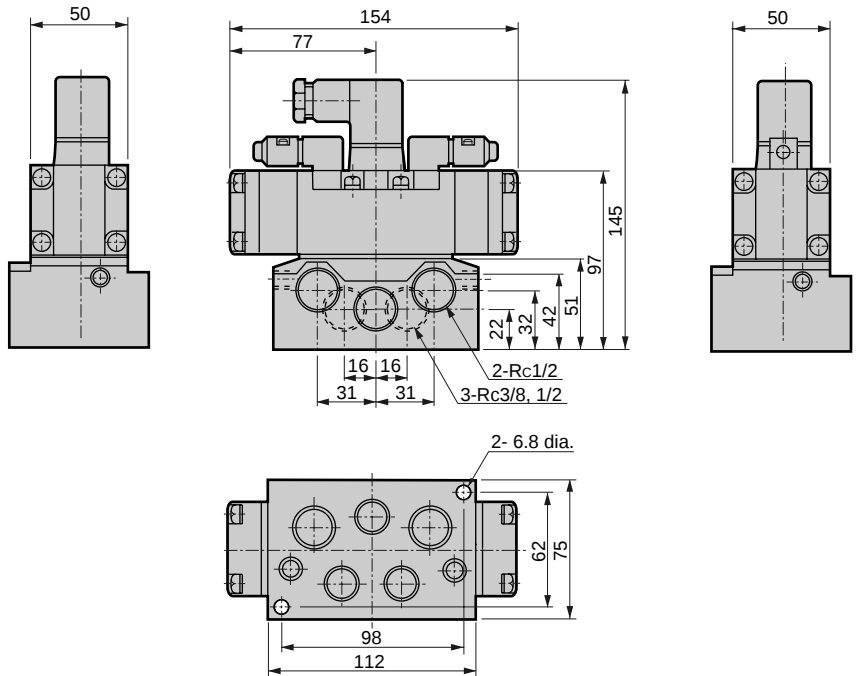


(Note: Please refer to CB2-_A06 dimensions on the below table).

PV5-8-FG-D **

PV5-8-YZ-D **

• 2-position double



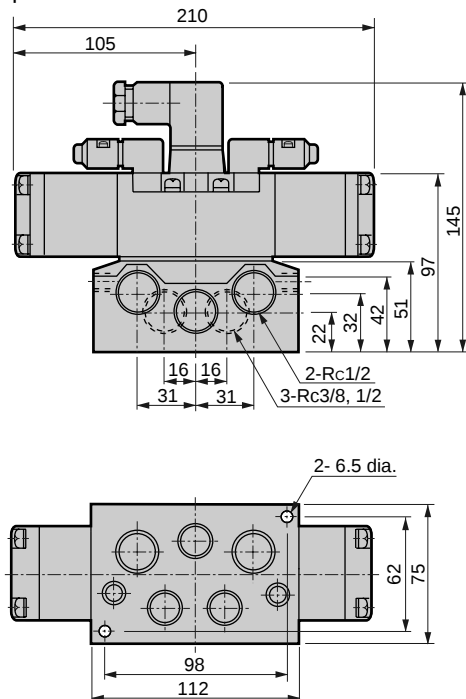
(Note: Please refer to CB2-_A06 dimensions on the below table).

PV5-8-FHG-D **

PV5-8-FJG-D **

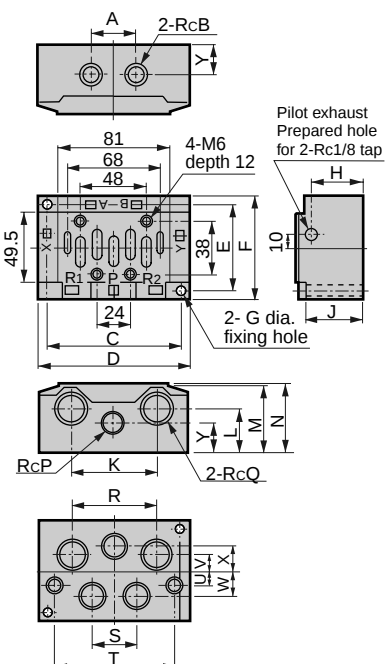
PV5-8-FIG-D **

• 3-position



(Note: Please refer to CB2-_A06 dimensions on the right table).

• Sub base dimensions



Model No.	CB2- _A 03	CB2- _A 04	CB2- _A 06
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	66		84
S	32		40
T	88		116
U	10		11
V	12		16
W	18		22
X	18		23
Y	22		30