

ADEX A20P Series

5 Port Pilot Operated Solenoid Valve
Rubber Seal/Sub-base Mounting type

A20PS25

2-position, single solenoid

A20PD25

2-position, double solenoid

A20PD35

3-position, closed center

A20PE35

3-position, ABR connect

A20PO35

3-position, PAB connect



Specifications

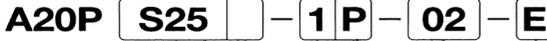
Model No.		Unit	A20PS25	A20PD25	A20PD35	A20PE35	A20PO35
Fluid			Non-lubricated/lubricated air				
Port size			RC ¼, ⅜				
Effective area		mm ²	20.6		15.9		20.5
Cv value			1.13		0.87		1.13
Operating ambient temperature		°C	-5~50				
Pressure range		MPa	0.15~0.7	0.1~0.7	0.2~0.7		
			-0.1~0.7 For external pilot operation				
Maximum Frequency		cycle/min	300		200		
Response Time	DC	ON	s	0.018	0.010	0.015	
		OFF	s	0.028 (0.034)	—	0.060(0.066)	
	AC	ON	s	0.021	0.013	0.018	
		OFF	s	0.034	—	0.065	
Pilot air exhaust			Captured exhaust				
Manual override			Screw driver-operated locking button				
Mounting position			Free				
Shock resistance, vibration resistance		m/s ²	150/30				
Weight	Without sub-base	g	90	105	113		
	With sub-base	g	330	349	357		



- Service kit not available
- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
- Pressure range of external pilot supply: 0.25~0.7MPa
- Response time in bracket () is displayed with surge suppressor
- Response time shown above is in accordance with JIB B 8375
- Effective area shown above is a value between ports 1 and 2, 4

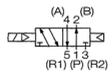
Electrical Specifications

Rated voltage	DC	V	24, 12, 6, 5, 3		
	AC	V	100, 110 (50/60Hz)		
Permissible voltage fluctuation		%	+10, -10		
Power consumption	DC		W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	
	AC	110V	VA	1.4 (with indicator light and surge suppressor), 1.3 (without indicator light and surge suppressor)	
Grade of Insulation			JIS grade E		
Wiring			Plug-in connector		
Surge suppressor			Diode		
Indicator light			LED		

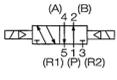


Switch Form

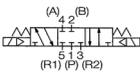
S25
2-position, single solenoid



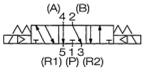
D25
2-position, double solenoid



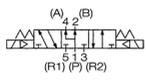
D35
3-position, closed center



E35
3-position, ABR connect



O35
3-position, PAB connect



Special Specification

No mark : standard
(Internal pilot)
X : *External pilot

Voltage

- 1: DC24V
- 2: *DC12V
- 3: *DC6V
- 4: *DC5V
- 5: *DC3V
- 7: *AC100V
- 8: AC110V

Wiring

No mark: Without connector
E : Connector with wire
(Length: 500 mm)

Port size

No mark : Without sub-base
02 : Rc $\frac{1}{4}$
03 : Rc $\frac{3}{8}$
G2 : *G $\frac{1}{4}$
G3 : *G $\frac{3}{8}$
N2 : *NPT $\frac{1}{4}$
N3 : *NPT $\frac{3}{8}$
F2 : *NPTF $\frac{1}{4}$
F3 : *NPTF $\frac{3}{8}$
(Valve without sub-base comes with a base gasket & two mounting screws)

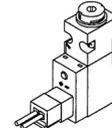
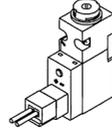
Wiring withdrawal direction

P:

With indicator light and surge suppressor

S:

Without indicator light and surge suppressor



* : Made to order

Connector with lead wire

A 0 5 P — D C — C L 5

Type
P: For PR type

Lead wire length
5 : 500mm
10: *1000mm

Voltage
DC: For DC
AC: For AC type

For PR type



	DC	AC
(+)	Black	Blue
(-)	Red	Blue

(For common use with PR type of A05, A12, and A20)

Locking cover

A 0 5 P — L A

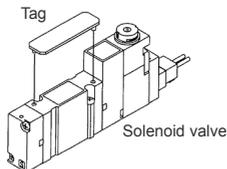


Color
A: Orange

(For common use with all A05, A12, and A20)

Tag for solenoid valve

A 0 5 P — N (Pack of 10)



(For common use with sub-base mounting type of A05, A12, and A20)

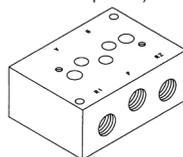
Sub-base

A 2 0 P — B — 0 2 X

Port size
No mark: Without sub-base

- O2 : Rc $\frac{1}{4}$
- O3 : Rc $\frac{3}{8}$
- G2 : *G $\frac{1}{4}$
- G3 : *G $\frac{3}{8}$
- N2 : *NPT $\frac{1}{4}$
- N3 : *NPT $\frac{3}{8}$
- F2 : *NPTF $\frac{1}{4}$
- F3 : *NPTF $\frac{3}{8}$

Special Specifications
No mark: Standard
X : For external pilot (with port X)



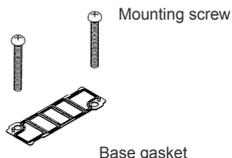
(For common use with A20G)

Base gasket

A 2 0 P X — G

Special Specifications
No mark: Standard
X: For external pilot (with port X)

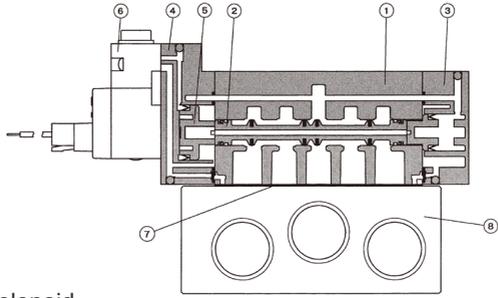
Content of kit
SG: Gasket & mounting screws
G: Only gasket (Pack of 10)
S: Only mounting screw (Pack of 20)



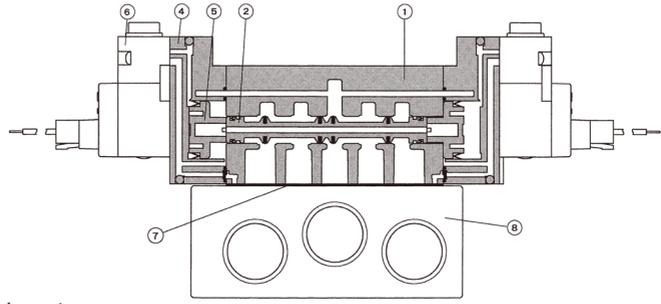
(For common use with A20P)

 ※ : Made to order

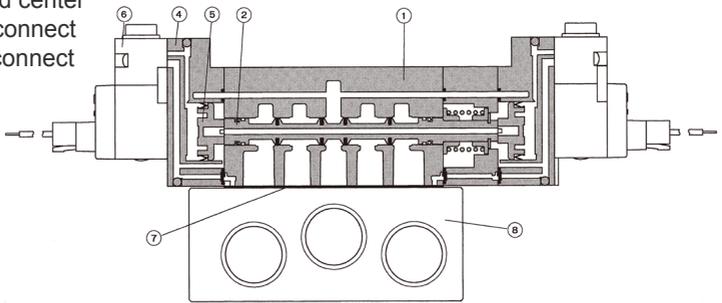
⊙ 2-position Single solenoid



⊙ 2-position Double solenoid

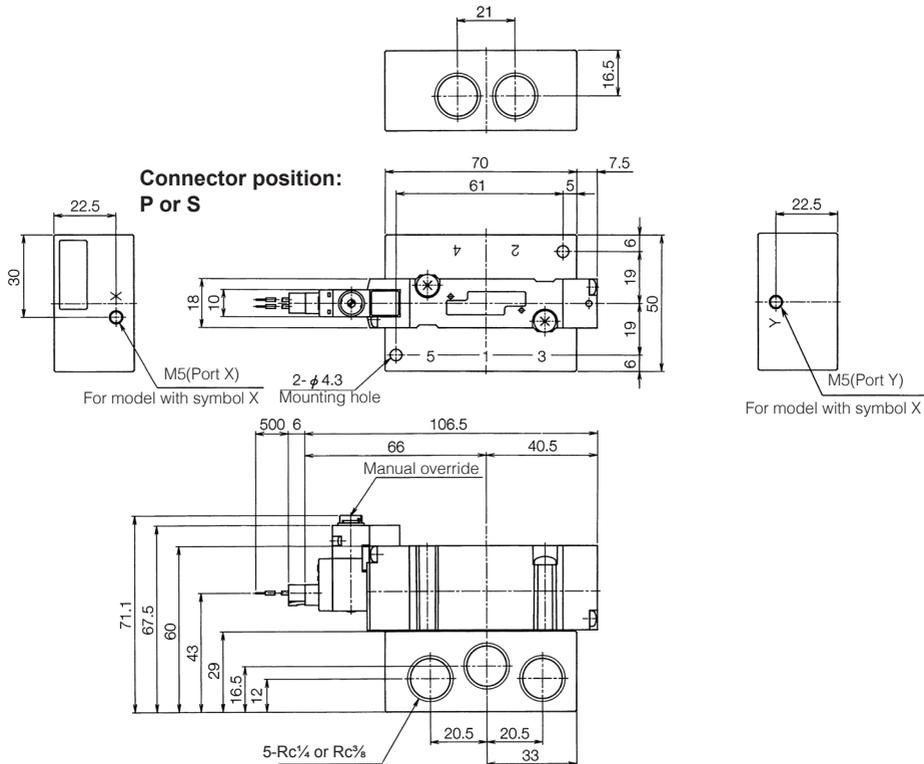


⊙ 3-position Closed center
3-position ABR connect
3-position PAB connect

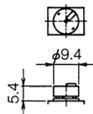


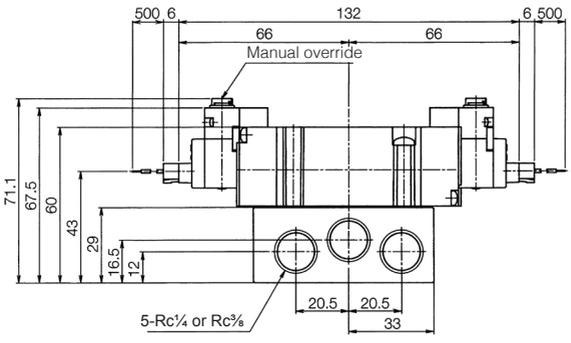
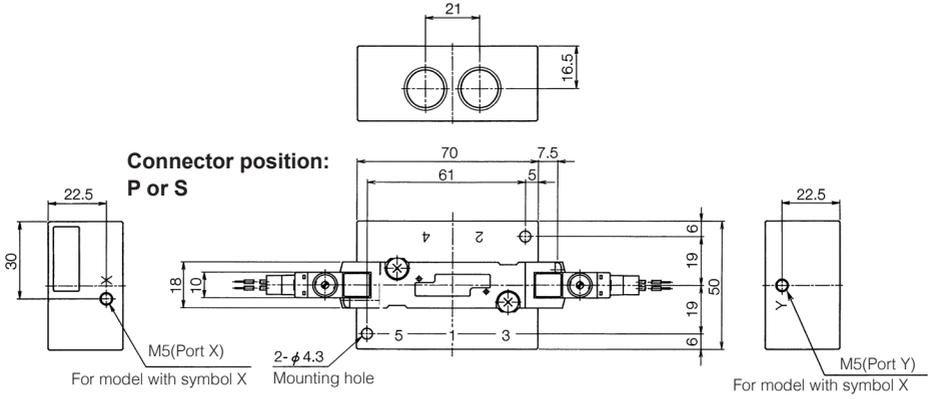
Main Component

No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series
7	Base gasket	NBR
8	Sub-base	Alluminium die-casting

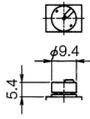


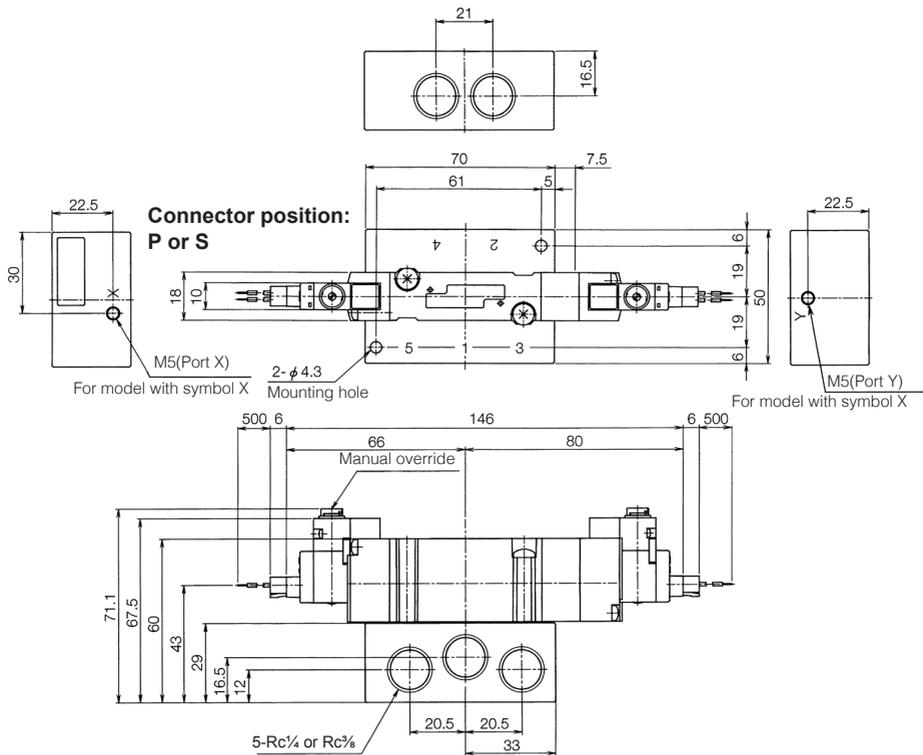
Manual locking cover





Manual locking cover





Manual locking cover

