

ADEX A12P Series

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

A12PS25

2-position, single solenoid

A12PD25

2-position, double solenoid

A12PD35

3-position, closed center

A12PE35

3-position, ABR connect

A12PO35

3-position, PAB connect



Specifications

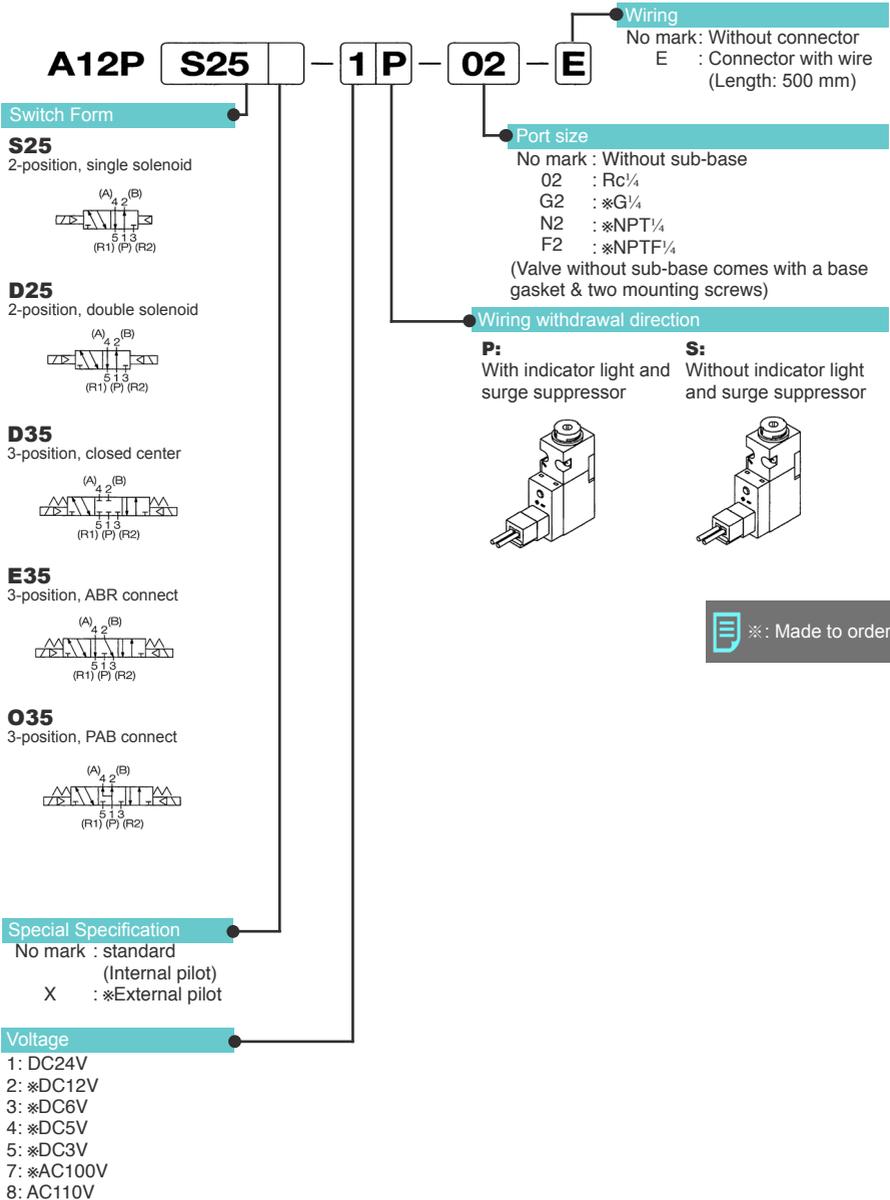
Model No.		Unit	A12PS25	A12PD25	A12PD35	A12PE35	A12PO35
Fluid			Non-lubricated/lubricated air				
Port size			RC ¼				
Effective area		mm ²	11.1		7.6		14.1
Cv value			0.61		0.42		0.78
Operating ambient temperature		°C	-5~50				
Pressure range		MPa	0.15~0.7	0.1~0.7	0.2~0.7		
			-0.1~0.7 For external pilot operation				
Maximum Frequency		cycle/min	600		500		
Response Time	DC	ON	s	0.015	0.010	0.012	
		OFF	s	0.018 (0.024)	—	0.036(0.042)	
	AC	ON	s	0.018	0.013	0.015	
		OFF	s	0.024	—	0.041	
Pilot air exhaust			Captured exhaust				
Manual override			Screwdriver-operated locking button				
Mounting position			Free				
Shock resistance, vibration resistance		m/s ²	150/30				
Weight	Without sub-base		g	60	75	79	
	With sub-base		g	143	161	166	



- 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			



Connector with lead wire

A 0 5 P — D C — C L 5

Type

P: For PR type

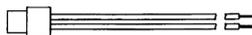
Lead wire length

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)

Sub-base

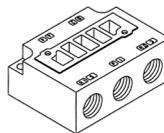
A 1 2 P — B — 0 1 X

Port size

O2: Rc $\frac{1}{4}$
G2: ※G $\frac{1}{4}$
N2: ※NPT $\frac{1}{4}$
F2: ※NPTF $\frac{1}{4}$

Special Specifications

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



(For common use with A12G)

Locking cover

A 0 5 P — L A



Color

A: Orange

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

Base gasket

A 1 2 P X — G

Special Specifications

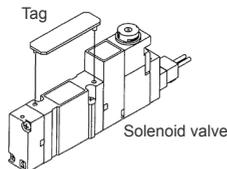
No mark: Standard
X : For external pilot (with port X)

Content of kit

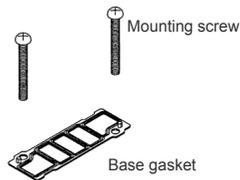
SG: Gasket & mounting screws
G : Only gasket (Pack of 10)
S : Only mounting screw (Pack of 20)

Tag for solenoid valve

A 0 5 P — N (Pack of 10)



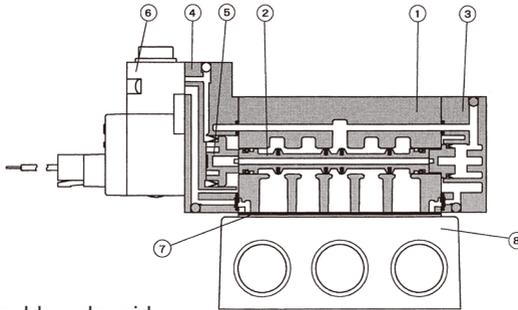
(For common use with sub-base mounting type of A05, A12, and A20)



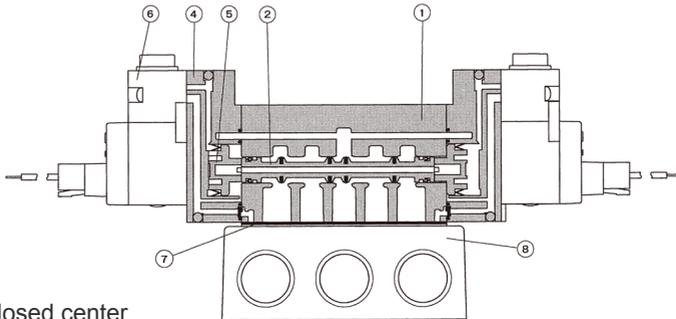
(For common use with A12G)

※ : Made to order

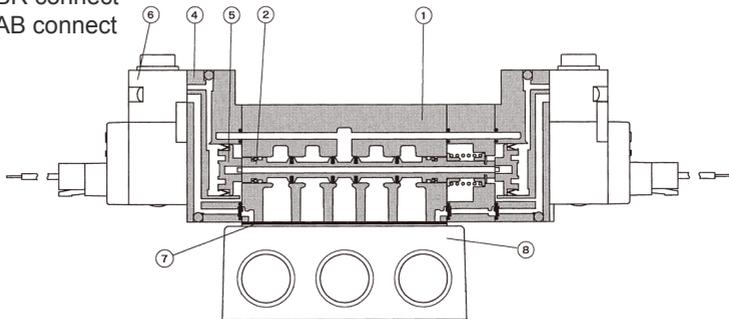
⊙ 2-position Single solenoid



⊙ 2-position Double solenoid



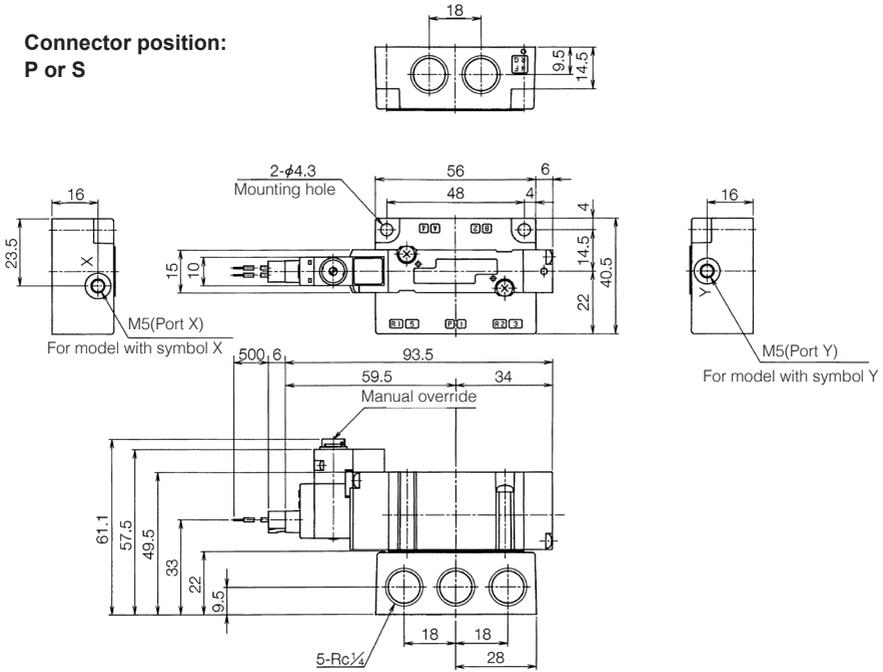
⊙ 3-position Closed center
3-position ABR connect
3-position PAB connect



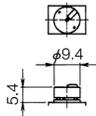
Main Component

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

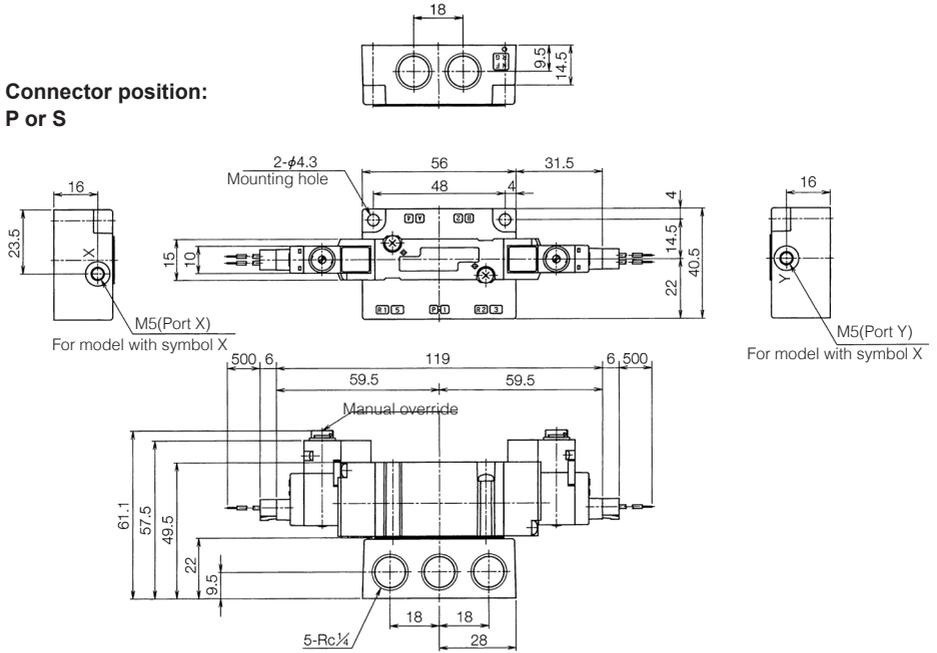
**Connector position:
P or S**



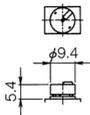
Manual locking cover



**Connector position:
P or S**



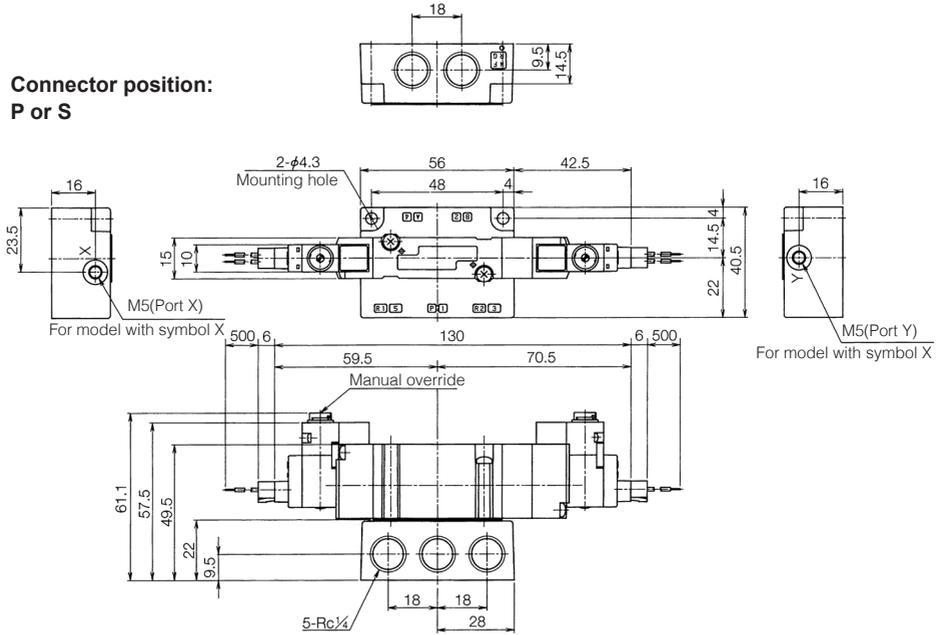
Manual locking cover



A12PD35, A12PE35, A12PO35

(Unit: mm)

Connector position:
P or S



Manual locking cover

