

# ADEX A12R Series

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

## A12RS25

2-position, single solenoid

## A12RD25

2-position, double solenoid

## A12RD35

3-position, closed center

## A12RE35

3-position, ABR connect

## A12RO35

3-position, PAB connect



## Specifications

Model No.			Unit	A12RS25	A12RD25	A12RD35	A12RE35	A12RO35
Fluid				Non-lubricated/lubricated air				
Port size				port 2,4: RC ⅝    port 1,3,5: RC ⅝				
Effective area			mm²	8.8		8.5		12
Cv value				0.48		0.46		0.66
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				Individual exhaust				
Manual override				Screw driver-operated locking button				
Mounting position				Free				
Shock resistance, vibration resistance			m/s²	150/30				
Weight			g	83	101	106		



- 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

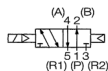
Rated voltage	DC	V	24, 12, 6, 5, 3	
	AC	V	100, 110 (50/60Hz)	
Permissible voltage fluctuation		%	+10, -10	
Power consumption	DC	W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	
	AC	110V VA	1.4 (with indicator light and surge suppressor), 1.3 (without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

**A12R****S25****1 P****01****E****Wiring**

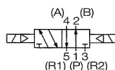
No mark: Without connector  
 E : Connector with wire  
 (Length: 500 mm)

**Switch Form****S25**

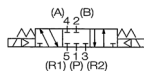
2-position, single solenoid

**D25**

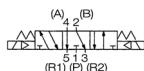
2-position, double solenoid

**D35**

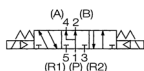
3-position, closed center

**E35**

3-position, ABR connect

**O35**

3-position, PAB connect

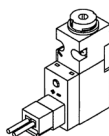
**Port size 2, 4**

01: RC 1/4

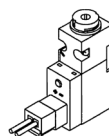
(Note) when using G, NPT, NPTF tag, please consult FONTAL first

**Wiring withdrawal direction****P:**

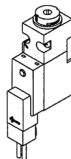
With indicator light and  
surge suppressor

**S:**

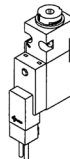
Without indicator light  
and surge suppressor

**Q:**

With indicator light and  
surge suppressor

**B:**

With indicator light and  
surge suppressor

**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



\*: Made to order

## Connector with lead wire

**A 0 5 P — D C — C L 5**

### Type

P: For PR type

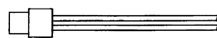
### Lead wire length

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

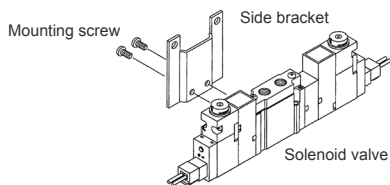
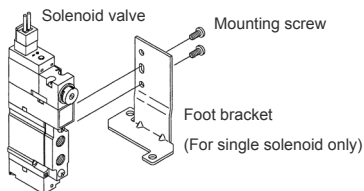
(For common use with all  
A05, A12, and A20)

## Bracket

**A 1 2 R — B F**

### Bracket

F: Foot Bracket  
S: Side bracket

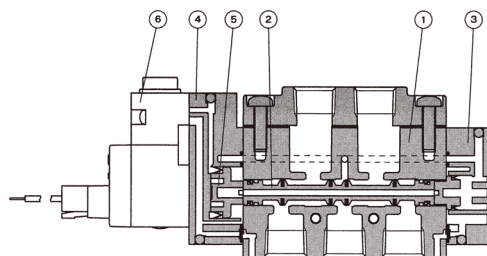


(Note) Gasket(s) and mounting screws are provided  
(For common use with A12F)

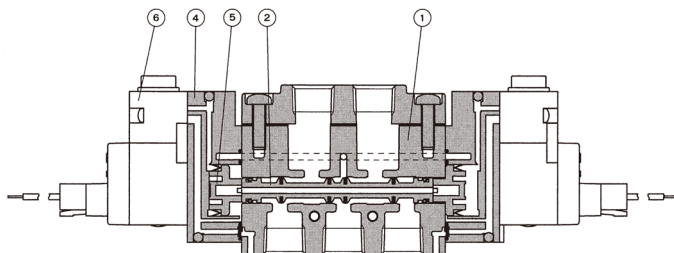


※: Made to order

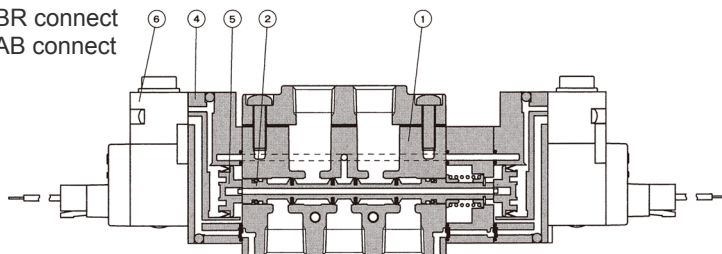
◎ 2-position Single solenoid



◎ 2-position Double solenoid

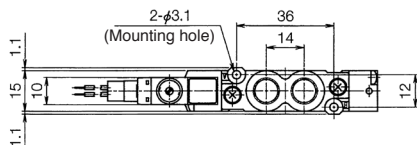


◎ 3-position Closed center  
3-position ABR connect  
3-position PAB connect

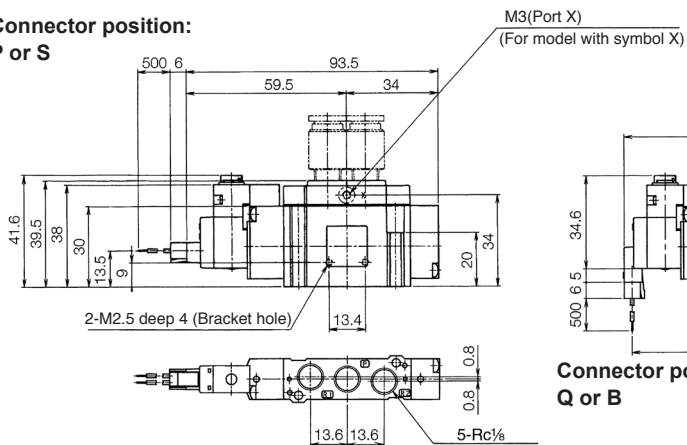


### Main Component

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

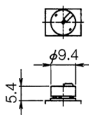


**Connector position:  
P or S**

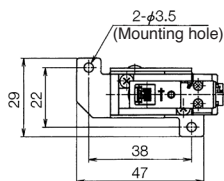


**Connector position:  
Q or B**

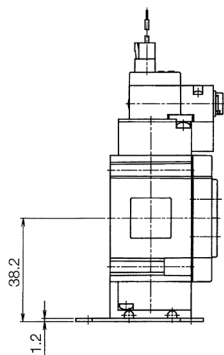
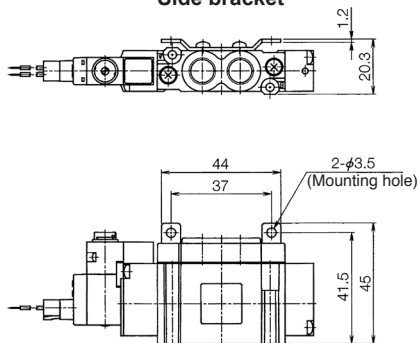
**Manual locking cover**



**Foot bracket**

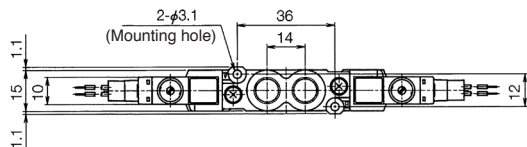


**Side bracket**

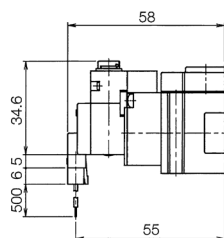
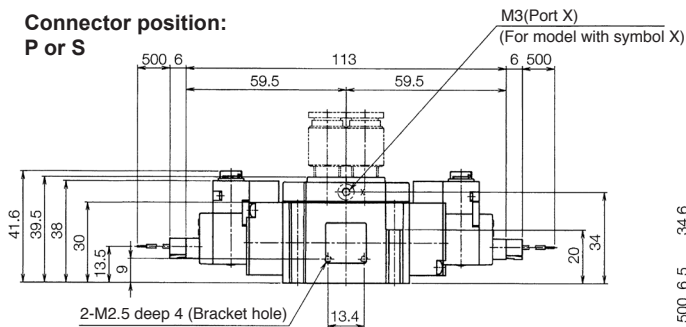


A12RD25

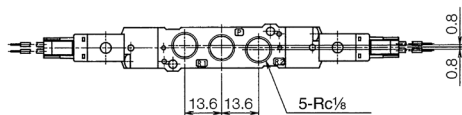
(Unit: mm)



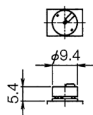
**Connector position:  
P or S**



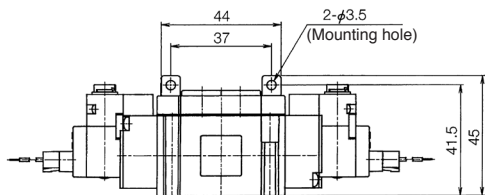
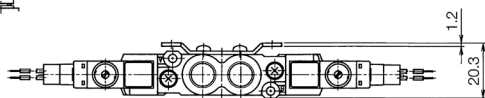
**Connector position:  
Q or B**

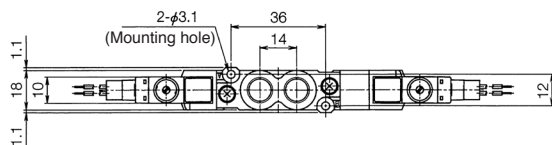


**Manual locking cover**



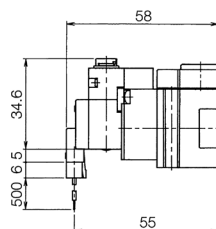
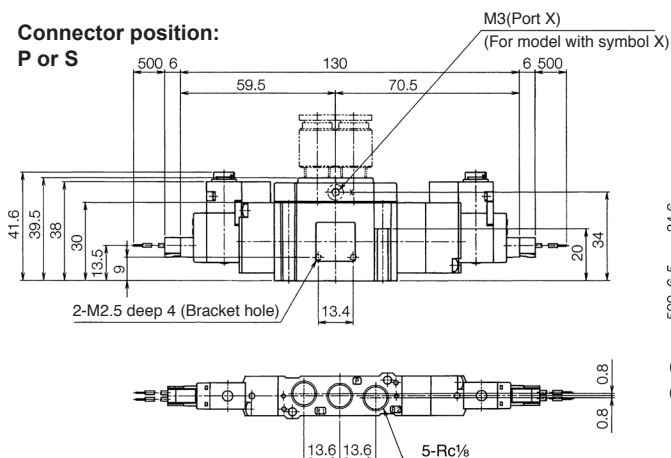
**Side bracket**





**Connector position:**

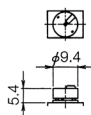
**P or S**



**Connector position:**

**Q or B**

**Manual locking cover**



**Side bracket**

