

# ADEX A05R Series

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

## A05RS25

2-position, single solenoid

## A05RD25

2-position, double solenoid

## A05RD35

3-position, closed center

## A05RE35

3-position, ABR connect

## A05RO35

3-position, PAB connect



## Specifications

Model No.		Unit	A05RS25	A05RD25	A05RD35	A05RE35	A05RO35
Fluid			Non-lubricated/lubricated air				
Port size			M5				
Effective area		mm <sup>2</sup>	4		3.7		4.5
Cv value			0.22		0.20		0.25
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	0.010	0.010	0.010	
		OFF	s	0.010 (0.016)	—	0.015 (0.021)	
	AC	ON	s	0.013	0.013	0.013	
		OFF	s	0.016	—	0.021	
Pilot air exhaust			Individual exhaust				
Manual override			Screw driver-operated locking button				
Mounting position			Free				
Shock resistance, vibration resistance		m/s <sup>2</sup>	150/30				
Weight		g	59	76	78		



- 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	

**A05R**

**S25**

**1 P**

**M5**

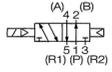
**E**

Wiring

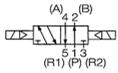
No mark: Without connector  
 E : Connector with wire  
 (Length: 500 mm)

Switch Form

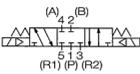
**S25**  
 2-position, single solenoid



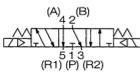
**D25**  
 2-position, double solenoid



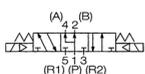
**D35**  
 3-position, closed center



**E35**  
 3-position, ABR connect



**O35**  
 3-position, PAB connect



Special Specification

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

Voltage

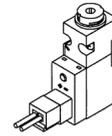
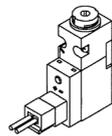
- 1: DC24V
- 2: \*DC12V
- 3: \*DC6V
- 4: \*DC5V
- 5: \*DC3V
- 7: \*AC100V
- 8: AC110V

Port size 2, 4  
 M5: M5

Wiring withdrawal direction

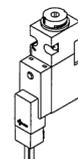
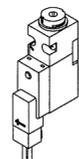
**P:**  
 With indicator light and surge suppressor

**S:**  
 Without indicator light and surge suppressor



**Q:**  
 With indicator light and surge suppressor

**B:**  
 With indicator light and surge suppressor



 \*: Made to order

### Connector with lead wire

**A 0 5 P — D C — C L 5**

**Type**

P: For PR type

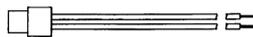
**Lead wire length**

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

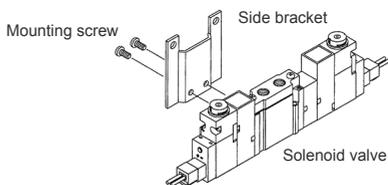
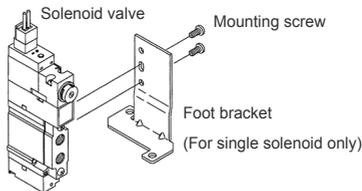
(For common use with all A05, A12, and A20)

### Bracket

**A 0 5 R — B F**

**Bracket**

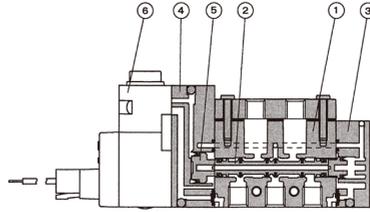
F: Foot Bracket  
S: Side bracket



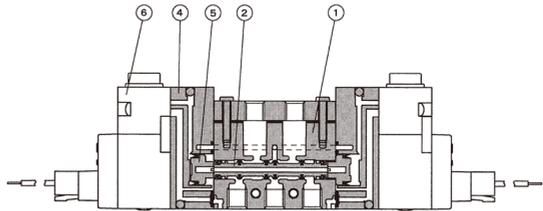
Note: Gasket(s) and mounting screws are provided  
(For common use with A05F)

☰ ※: Made to order

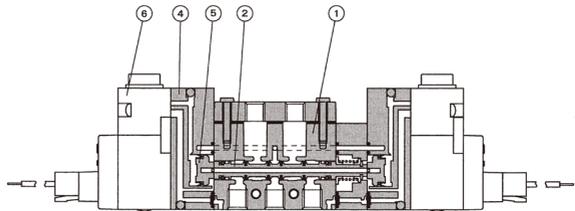
⊙ 2-position Single solenoid



⊙ 2-position Double solenoid

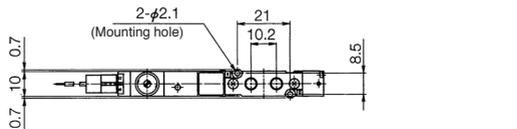


⊙ 3-position Closed center  
3-position ABR connect  
3-position PAB connect

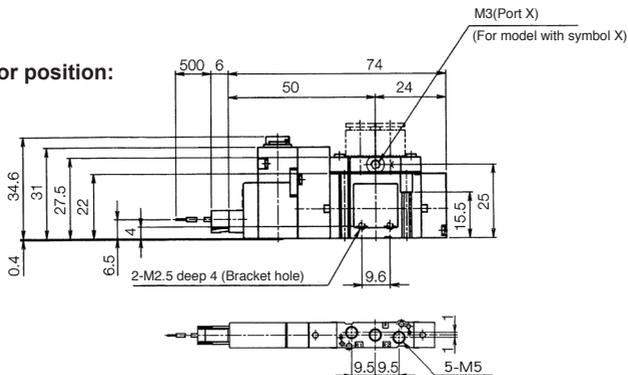


Main Component

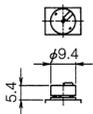
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy <sup>1</sup> /NBR
3	End cover	Resin
4	Piston head <sup>2</sup>	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series



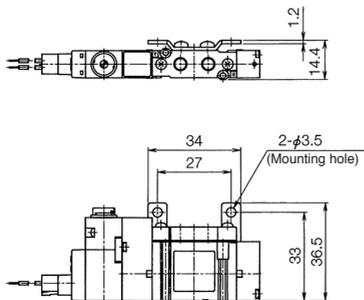
**Connector position:  
P or S**



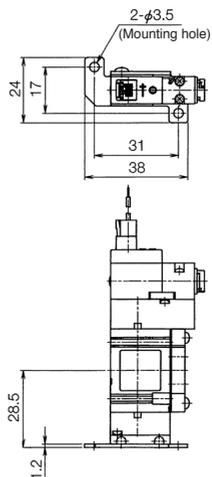
**Manual locking cover**

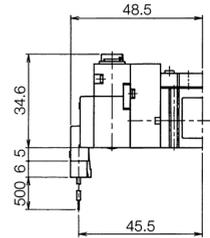
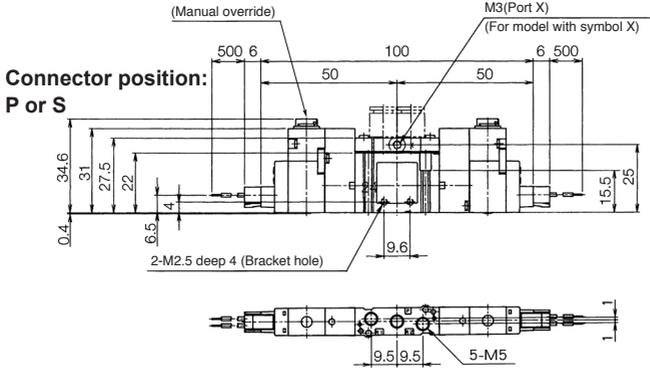
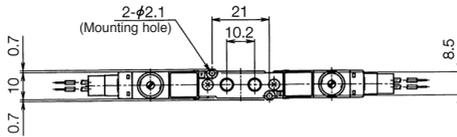


**Side bracket**



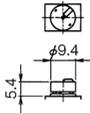
**Foot bracket**



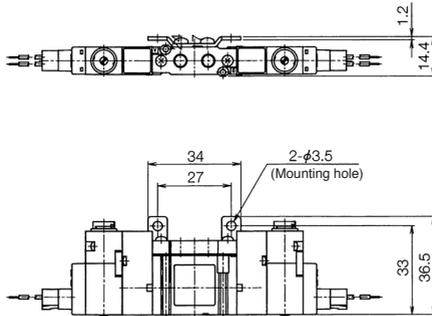


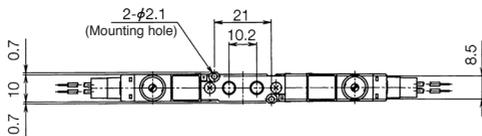
Connector position:  
Q or B

Manual locking cover

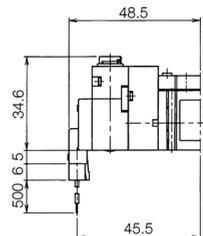
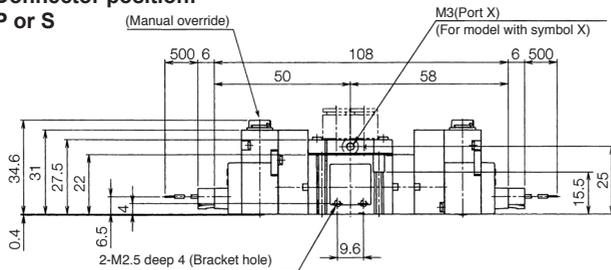


Side bracket

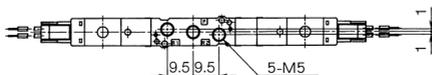




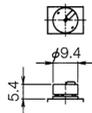
**Connector position:  
P or S**



**Connector position:  
Q or B**



**Manual locking cover**



**Side bracket**

