ADEX A12F Series

5 Port Pilot Operated Solenoid Valve Rubber Seal/ Mounting type

A12FS25

A12FD25 2-position, double solenoid A12FD35 A12FE35 3-position, ABR connect A12F035 3-position, PAB connect



Specificiations

Model No.		Unit	A12FS25	A12FD25	A12FD35	A12FE35	A12FO35	
Fluid				Non-lubricated/lubricated air				
Port size				port 2,4: Rc1/s port 1,3,5: Rc1/s				
Effective area			mm ²	8.8		8.5		12
Cv value				0.48 0.47		0.66		
Operating ambient temperature			°C	-5~50				
Pressure range			MPa	0.15~0.7	0.1~0.7	0.2~0.7		
Maximum Frequency			cycle/min	600)	500		
Response Time	DC	ON	S	0.015	0.012	0.017		
		OFF	S	0.020 (0.026)	—	0.065 (0.071)		
Pilot air exhaut				Indivudual exhaust				
Manual override				Screw driver-operated locking button				
Mounting position				Free				
Shock resistance, vibration resistance			m/s ²	150/30				
Weight			g	89 99 103				



- 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

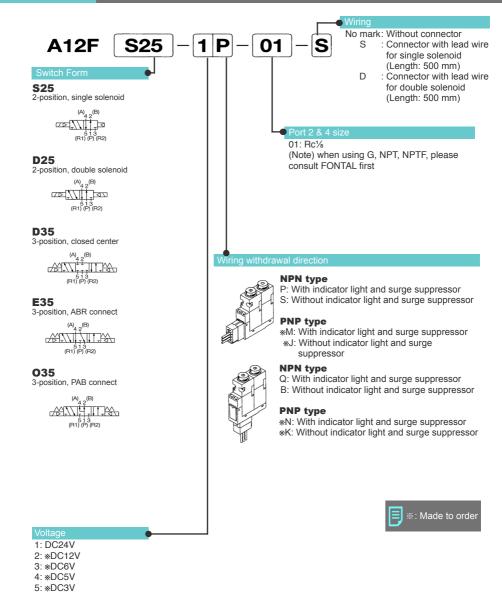
Electrical Specifications

Rated voltage		DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption		0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)
Grade of Insulation		JIS grade E
Wiring		Plug-in connector
Surge suppressor		Diode
Indicator light		LED

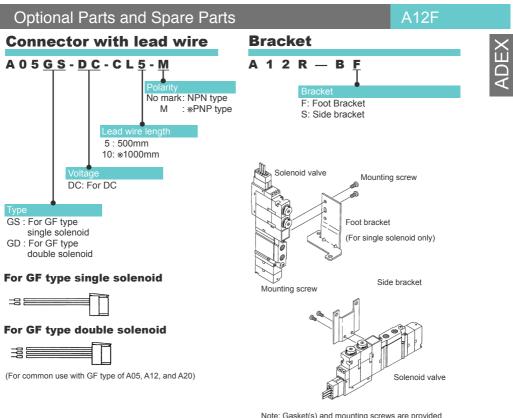


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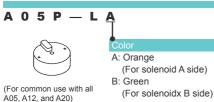
Representation







Locking cover



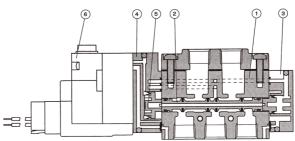
Note: Gasket(s) and mounting screws are provided (For common use with A12R)



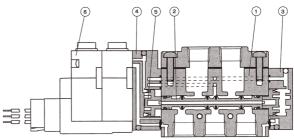


Construction

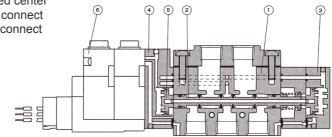




 \bigcirc 2-position Double solenoid



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



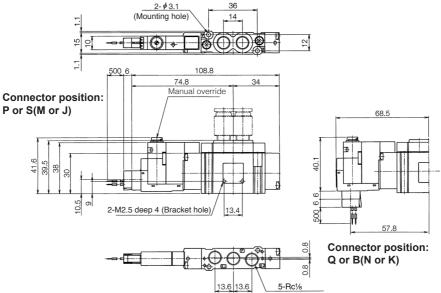
Dimensions

A12F

A12FS25

(Unit: mm)

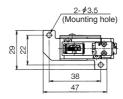
ADEX



Manual locking cover

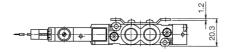


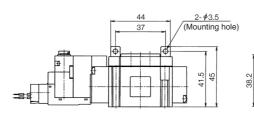
Foot bracket





Side bracket





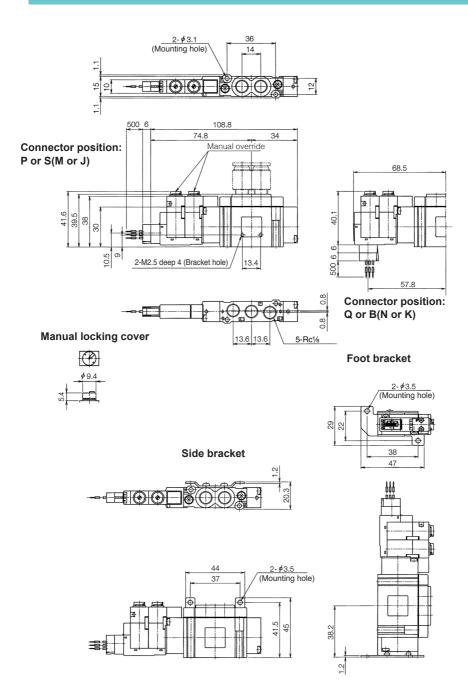


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Dimensions

A12FD25



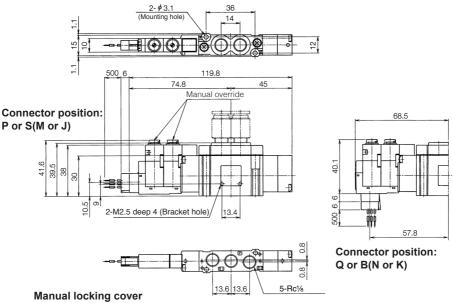


Dimensions

A12FD25, A12FE25, A12FO25

(Unit: mm)

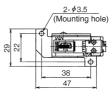
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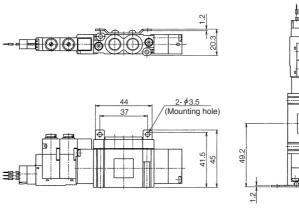




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Foot bracket









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