ADEX

VALVE

5 Port Pilot Operated Solenoid Valve



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Individual wiring type manifold	



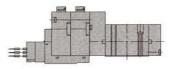
ADEX VALVE

A00, A05, A12, A20 Series

Streamline, compact design

GF types use double-solenoid pilot valve arranged on one-side, thus allowing both the single and double solenoid to have the same width. The size is 20% smaller than conventional double solenoids.

Pilot valve arranged on one side



Compact body with large flow

With the same size, flow is 1.5 to 3 times more than conventional valves, allowing enhanced flexibility and lower costs with your applications.

Most suitable for driving cylinders of ø10 to ø100 in diameters.

A05

W:28mm H:80mm L:74mm



Body width: 10mm Effective area: 5.8mm²

A12

W:41mm H:61mm L:93mm



Body width: 15mm Effective area: 11.1mm²

A20

W:50mm H:71mm L:106mm



Body width: 18mm Effective area: 20.6mm²



Quick response time, faster than 10ms

Uniquely design helps reduce power consumption and lower response time (A05 Series, Single Solenoid)

Expected life time more than 50,000,000 times

(Based upon Fontal's test condition) A well-reputed TS seal is used in the main axis, resulting in lower sliding friction and longer expected life.

Low Power consumption—only 0.6W

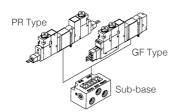
(with indicator light) Current 25mA 24DC

Direct drive from PLC is probable. It will help reduce cost by lowering the DC power supply.



Common interface for both PR type and GF type

Both PR type with double solenoid arranged on both sides and GF type with double solenoid arranged on one side ultilise common interface, allowing both to use the same sub-base and manifold and making repairing more convenient.

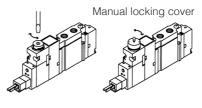


Cylinder ports 2 and 4 selectable (In-line mounting type)

0 :	Standard
Series	Tapped hole
A05	M5
A12	Rc⅓
A20	Rc¼

Locking button (Manual override)

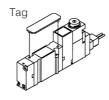
Use screwdriver-operated override as standard. A manually-operated locking button is an alternative.



Multipurpose tag available

(Sub-base mounting type)

For the convenience of installation, testing, and maintenance, tag can be mounted on the upside of solenoid valve body.



Captured exhaust from main valve and pilot valve

(Sub-base mounting & manifold)

Exhaust air from pilot valve is captured together with exhaust air from main valve.

Unlike conventional exhaust systems, exhaust air from pilot valve is not directly discharged.

This can help prevent air pollution.



ADEX Features

A05 Series



A12 Series



A20 Series

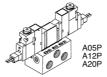


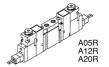
A00 Series



Difference between PR type and GF type

PR type is conventional with pilot solenoid on both sides of the body as shown below.





Sub-base mounting type

In-line mounting type

GF type utilize the latest design with pilot solenoid arranged on one side of the body as shown below.



A05G A12G A20G



Sizing Table

0	0	Cylinder		,		С	ylinde	er bore	size (mm)				
Series	Condition	Speed (mm/s)	φ6	φ 1 0	φ16	φ20	φ25	φ32	φ 4 0	ø50	φ 63	φ 80	ø100	φ125
Sno	eed controller		S	P-H-N	15		SP-	2H-1		SP-	2H-2			
Эре	ed controller							SP-06-1	SP-06-2	S	SP-15	-3	SP-	20-4
		150												
	Pressure 0.5MPa	300												
A 05	Load factor	450												
A	30% Tube ø6x1m	600												
	Tube øbx IIII	750												
		900			7.									
		150												
	Pressure	300												
A12	0.5MPa Load factor	450												
AIG	30%	600												
	Tube ø8x1m	750												
		900												
= :		150												
	Pressure 0.5MPa	300												
A @@	Load factor	450												
A20	30%	600												
	Tube ø10x1m	750												
		900			8									

Variation of Solenoid Valve

						Function		Voltage		Wiring		
			Effective	2-po:	sition	3-position						
A	ADEX	Series	area (mm²)	Single solenoid	Double solenoid		Exhaust center	Pressure center	DC 24V AC 110V	DC 12V 6V 5V 3V	Plug-in connector with lead wire from the side	Plug-in connector with lead wire from the bottom
	Sub-base version	A05P	5.8									
	200	A12P	11.1	0	0	0	0	0	0		0	_
PR		A20P	20.6									
type	In-line version	A05R	4									
		A12R	8.8	0	0	0	0		0	Δ	0	0
		A20R	17.6									
	Sub-base version	A05G	5.8									
		A12G	11.1	0	0	0	0	0 0	0	Δ	0	_
GF	000	A20G	20.6									
type	In-line version	A05F	4							Δ	0	
		A12F	8.8	0	0	0	0	0 0	0			0
		A20F	17.6									



	Manual overide		Bracket			Port size			Application			
Indicator light	Coroudrivor	Hond							External Pilot			
3	Screwdriver- operated locking button Screwdriver- operated locking button Foot bracket Side bracket M5 Rc½ Rc½ Rc½ Foot bracket	Rc%	Vacuum	Low pressure	Pressurizing port 3, 5	Resistance to ozone						
					_	0	_	_				
0	0	•	_	_	_	_	0	_	Δ	0	Δ	Δ
					_	_	0	0				
					0	_	_	_			Δ	
0	0	•	(Single	•	_	0	_	_	Δ	0		Δ
			solenoid only)		_	_	0	_				
					_	0	_	_				
0	0	•	_	_	_	_	0	_	Δ	0	Δ	Δ
					_	_	0	0				
					0	_	_	_				
0	0	•	•	•	_	0	_	_	_	_	-	Δ
					_	_	0	_				





Manifold

ADEX		Manifold	Mountable solenoid valve series	Manifold	Mountable solenoid valve series
			PR Type		GF Type
	MFC Compact Miniature Individual Wiring		A05P		A05G
			A05P		A05G
Sub-base type	MFS Compact Individual Wiring		A12P		A12G
			A20P		A20G
	MFX		A05P		A05G
	Compact Individual Wiring Common external pilot		A12P		A12G
	external phot		A20P		A20G
			A05R		A05F
In-line type	MFU Compact Individual Wiring		A12R		A12F
		30	A20R		A20F



Wiring			Port size)			Special ap	oplicaiton		
Individual	Port	1,3,5	Port 2,4							
Wiring	Rc1/8	Rc¼	M5	Rc1/8	Rc¼	Vacuum	Low pressure	Pressurizing port 3,5	Resistant to ozone	
0	0	_	0	_	_	_	_	_	Δ	
	0	_	_	0	_			_	Δ	
0	_	0	_	_	0	_	_			
	_	0	_	_	0					
	0	_	_	0	_					
0	_	0	_	_	0	Δ	0	Δ	Δ	
	_	0	_	_	0					
	0	_	0	_	_					
0	_	0	_	0	_	_	_	_	Δ	
	_	0	_	_	0					





Be sure to read the following before use.

Please also refer to the articles

"For safety use" and the instructions for each series of solenoid valves.

Flow rate

Flow speed can be calculated by the following formula:

Values in the sonic velocity zone can be observed from the following graph.

1.P_H≤1.89P₁ (Subsonic velocity zone)

 $Q = 240 \text{ X S X } [\sqrt{P_L X (P_H - P_L)}] \text{ X } (\sqrt{293}/T_H)$

2.P_H≥1.89P_L (Sonic velocity zone)

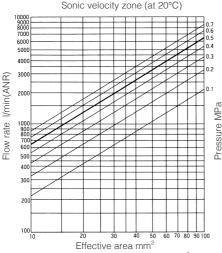
 $Q = 120 X S X P_H X P_H X (\sqrt{273}/T_H)$

Q : Flow rate (Liter/min) (ANR)

S: Effective area (mm²) P_H: Pressure on upper stream (MPa abs)

P_L: Pressure on down stream (MPa abs)
T_H: Absolute temperature on upper stream (K)

Note)Absolute pressure (MPa) = Supply pressure + 0.100 (MPa)



(When the value of effective area equals X 10⁻¹ or X 10⁻¹, multiply the same value by the flow rate)

Effective Area

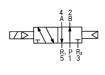
Effective area described in this catalog are measured between ports $1 \rightarrow 2$, 4, in accordance with JIS (Japanese Industrial Standard).

Port mark

⚠ Caution

Piping port such as P=1, A=4 conforms to JIS and ISO in its respective piping port positions.

JIS	ISO	Use
Р	1	Supply port
Α	4	Output port
В	2	Output port
R,	5	Exhaust port
R ₂	3	Exhaust port



X: External pilot port

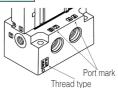
Y: Pilot valve captured exhaust port

Type of port thread

Type of port thread with each abbreviation is labeled on the sub-base

Abbreviation	Type of thread
R	Rc
G	G
N	NPT
F	NPTF





Using 5-port valve as 3-port valve

Caution

A05, A12, and A20 series are all designed with compatibility to be used as 3-port with normal close (NC) or normal open (NO) function under the condition that port R must be open.

The function is useful when 3-port double solenoid valve is required

vaive is	roquiro	ч	
Plug po	osition	Port 4	Port 2
Fund	tion	NO	NC
Number of	Single solenoid	4 2 5 1 3	4 2 × 5 1 3
Number of solenoid	Double solenoid	42	4 2 5 1 3

Be sure to read the following before use. Please also refer to the articles

"For safety use" and the instructions for each series of solenoid valves.

Continuously energizing

Caution

When ADEX valve is continuously energized with power on for a lengthy period of time, the temperature of the solenoid may rise to a degree that packing and gasket would be damaged. ADEX valve can be used under the following conditions: 1. Operating ambient temperature: Below 40

- degree Celsius

 2.Rated operating voltage (DC only): +0 -10%

 3.The following models can be used under good
 - heat-aviating conditions:
 Single item of A00
 - Single item of A05P and A05R and bar type manifolds (MFS, MCS, MCC and MCU), except when MFC, MFU, MFX, or single item is mounted on a plane.
 - Single item of A12P, A12R, A20P and A20R, and bar type manifolds (MFS, MFX, MFU, MCS, MCX and MCU).

When operating ADEX valve with power continuously on in other conditions than above-mentioned, be sure to consult FONTAL beforehand.

Select a proper connector

Caution

Some connector may not be fitted onto solenoid valve port 2 and 4 due to each manufacturer may provide its own type of connector.

Refer to the catelog provided by each

manufacturer to ensure the size of connector matches your need.
Please beware, the difference between ports 2 and

Please beware, the difference between ports 2 and 4 (AB plate) of the in-line mounting type valve is designed as a minimum value.

Tightening torque for mounting screw

Caution

Recommended tightening torque is shown in the table below.

Name	Screw size	Torque (N*m)
A05 solenoid valve mounting screw blank plate mounting screw	M2	0.2-0.22
A12 solenoid valve mounting screw blank plate mounting screw	M3	0.1-0.55
A20 solenoid valve mounting screw blank plate mounting screw	M4	1.5-2.0
A05 AB plate mounting screw	M2	0.18-0.2
A12 AB plate mounting screw	M3	0.8-1.0
A20 AB plate mounting screw	МЗ	0.7-1.0
A00 solenoid valve mounting screw blank plate mounting screw	M1.6	0.08-0.1

Tag

Caution

Do not reuse a tag that was once attached to the same place for it may become too loose.

Air exhaust

Caution

- As this solenoid valve is constructed with exhaust air from pilot valve and main valve are collected at ports 3, 5, be sure that exhaust air is not choked to avoid a malfunction.
- When simultaneously operating 5 or more solenoid valves on a manifold of 10 or more stations, open both sides of ports 3, 5. (For common external pilot type, also open port Y. (The bar type manifold is open on both sides. For a separate type manifold, place PR blocks on both sides.)

Pressure supply (For external pilot type)

Caution

- Supply pressure to external pilot valve from port X (Port Y being the pilot valve exhaust port).
- When supplying air pressure, first supply external pilot pressure and then supply main valve pressure.
- To cease the pressure supply and exhaust air, turn it off for the main valve first. Then do so for the external pilot valve.

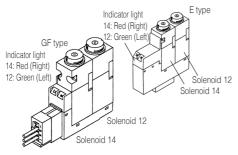
Be sure to read the following before use. Please also refer to the articles

"For safety use" and the instructions for each series of solenoid valves.

Indicator light

✓!\ Caution

For GF type and E type solenoid valve, when solenoid 14 is energized, the red indicator light will be on, and when solenoid 12 is energized, the green indicator light will be on.

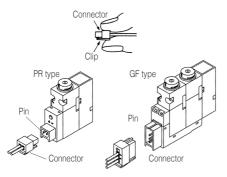


How to use connectors

Caution

When doing wiring work, be sure to turn the power off before proceeding.

How to attach and detach a connector
 When attaching a connector, pinch the clip with
 finger tip and insert the connector into the pin
 straight to the end. When detaching a connector,
 pinch the clip with finger tip with your finger and
 pull out the connector straight.

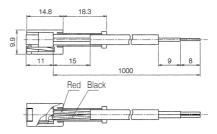


Connectors assembly with protective cover

Caution

- Prevents short-circuiting caused by unintended entry of foreign matters into the connector.
- The cover is made of chloroprene rubber for electrical use. Be sure that it is operated in an excellent weather condition and with proper insulation resistance. Special Note: Keep away from cutting oil.
- Tidy appearance with use of round cord.
 Connector assembly with protective cover is available (optional). Specify the following model No. when ordering.

• A05P-DC-CB10



Be sure to read the following before use.

Please also refer to the articles

"For safety use" and the instructions for each series of solenoid valves.

Internal circuit of solenoid with indicator light and surge suppressor

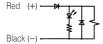
Caution

• DC24:

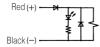
[Plus common(NPN)]

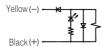
[Minus common(NPN)]

PR type

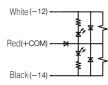


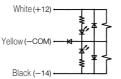
GF type single solenoid





GF type double solenoid





Make connection in accordance with polarity marks (+)(-) and symbols (+) (14) (12) (-). For any voltages other than DC24V, a reverse blocking diode is not provided. Therefore, please be cautious not to connect them reversely.

• AC 110V:

With indicator light



Without indicator light



S type: With surge supressor

ADEX Valves Introduction 5 (Manual override)

Be sure to read the following before use.

Please also refer to the articles

"For safety use" and the instructions for each series of solenoid valves.



Screwdriver-operated locking manual override (Standard)

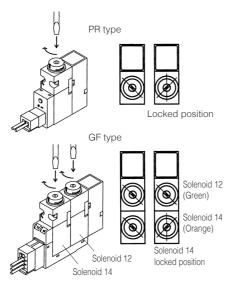
No-locking operation

Push the locking button with a screwdriver to shift the valve to energized position. Release the screwdriver to have the valve reset to nonenergized position.

Locking operation

Push the locking button with a slotted screwdriver and rotate the button clockwise by 90 degree. The valve is locked to maintain in energized position.

When the button is rotated counterclockwise by 90 degree and the screwdriver is released from the button, the valve is reset to non-energized position.



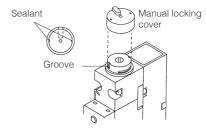
Caution

Hand-operated locking manual override (Optional)

The screwdriver-operated locking button can be used as a hand-operated button by fitting an optional locking cover.

. How to fit a locking cover

Adjust the ribs provided within the locking cover to match the groove on the screwdriver-operated locking button, and insert the cover. Then rotate it clockwise by 30° until it is completely sealed. (Reverse the process to remove the locking cover)



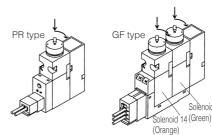
No-locking operation

Switch the valve to energized position by pushing the locking button with your finger. To reset the valve to non-energized position, simply release the button.

Locking operation

Switch the valve to energized position by pushing the locking button with your finger. And to lock in the energized position, simply rotate the button clockwise by 90°.

To reset the valve to non-energized position, simply reverse the whole process (rotate the button counterclockwise, and released the button).





Solenoid 12

ADEX VALVE

PR Type



ADEX A05P Series

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

A05PS25

2-position, single solenoid

A05PD25

2-position, double solenoid

A05PD35

3-position, closed center

A05PE35

3-position, ABR connect

A05P035

3-position, PAB connect



Specificiations

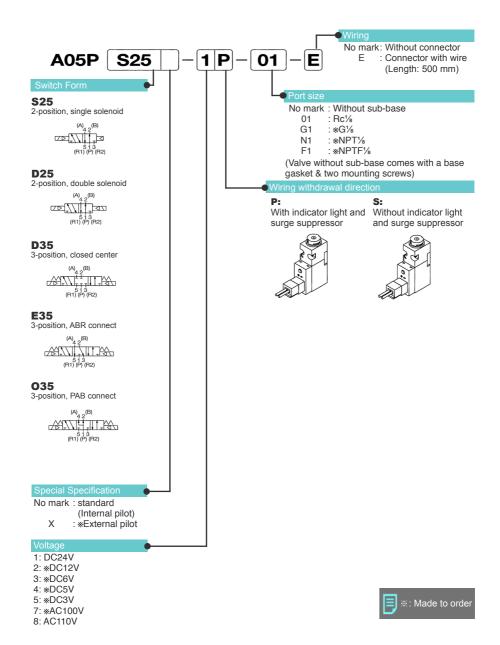
e poemeratione									
Model No.			Unit	A05PS25	A05PD25	A05PD35	A05PE35	A05PO35	
Fluid			Non-lubricated/lubricated air						
Port size				Rc⅓					
Effective area			mm ²	5.8		4.5		6.7	
Cv value				0.32		0.25		0.37	
Operating an	nbient tempe	rature	°C		-5~50				
Dragging ran	~~		MPa	0.15~0.7	0.1~0.7	0.2~0.7			
Pressure range			IVIPa	-0.1~0.7 For external pilot operation					
Maximum Fre	equency		cycle/min	600		500			
	DC	ON	s	0.010	0.010	0.010			
Response Time		OFF	S	0.010 (0.016)	1	0.015(0.021))	
	AC	ON	S	0.013	0.013	0.013			
	AC	OFF	S	0.016		0.021			
Pilot air exha	ıut			Captured exhaust					
Manual override				Screw driver-operated locking button					
Mounting position				Free					
Shock resistance, vibration resistance			m/s²		150/30				
Weiaht	Without sub-	base	g	52	67	69			
	With sub-bas	se	g	108	126	128			



- Service kit not available
- ullet 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

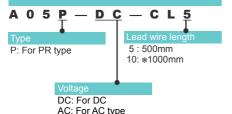
Electrical Specifications

Rated voltage DC AC		DC	V	24, 12, 6, 5, 3		
		AC	V	100, 110 (50/60Hz)		
Permissible voltage fluctuation		%	+10, -10			
Power	DC		W	0.6 (with indicator light and surge suppressor),0.55 (without indicator light and surge suppressor)		
consumption	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		





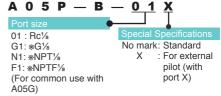
Connector with lead wire





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

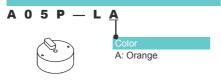
Sub-base





(For common use with A05G)

Locking cover



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

Base gasket

Special Specifications

A 0 5 P

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

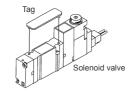
Content of kit

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

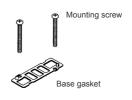
S : Only mounting screw (Pack of 20)

Tag for solenoid valve

A 0 5 P — N (Pack of 10)



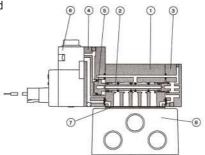
(For common use with sub-base mounting type of A05, A12, and A20)



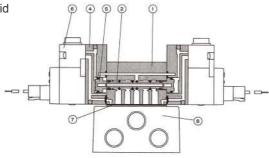
(For common use with A05P)



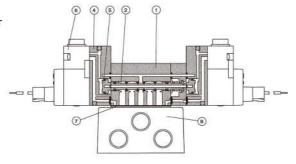
© 2-position Single solenoid



© 2-position Double solenoid



3-position Closed center3-position ABR connect3-position PAB connect



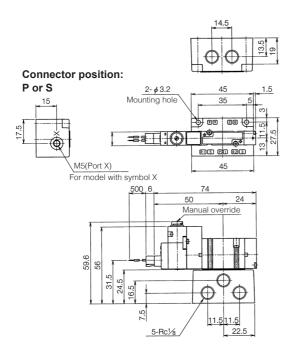
Main Component

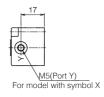
No.	Description	Material		
1	Body	Zinc die-casting		
2	Spool assembly	Aluminium alloy/NBR		
3	End cover	Resin		
4	Piston head	Resin		
5	Piston	Resin		
6	Pilot valve	Refer to A00 Series		
7	Base gasket	NBR		
8	Sub-base	Alluminium die-casting		



A05PS25

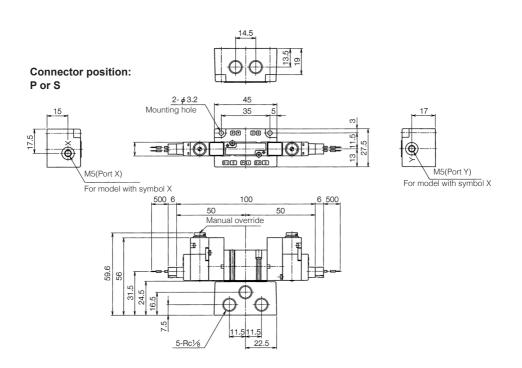
(Unit: mm)



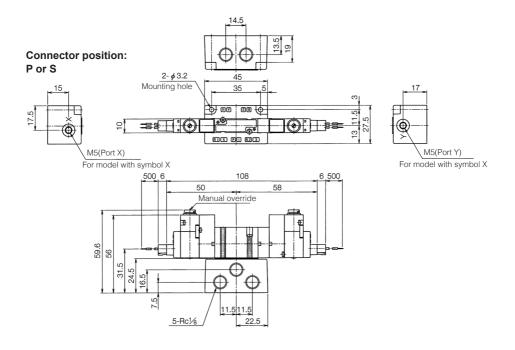




A05PD25 (Unit: mm)









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

A05RE35

3-position, ABR connect

A05R035



Specificiations

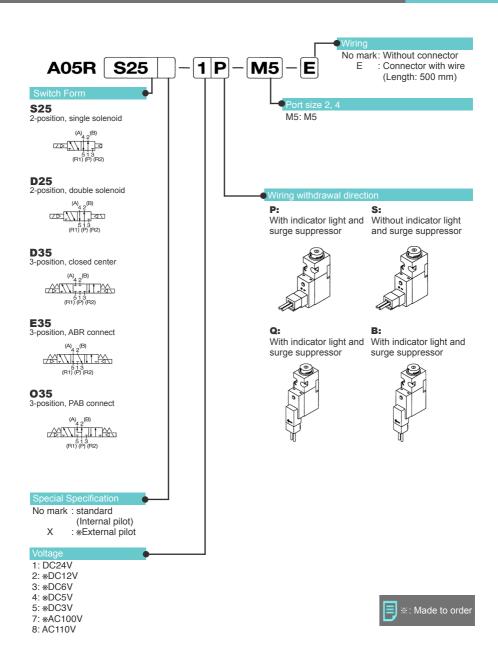
Орсонной									
Model No.			Unit	A05RS25	A05RD25	A05RD35	A05RE35	A05RO35	
Fluid				Non-lubricated/lubricated air					
Port size				M5					
Effective are	а		mm²	4	4 3.7		4.5		
Cv value				0.22 0.20		0.25			
Operating an	nbient tempe	rature	°C	-5~50					
Pressure range			MPa	0.15~0.7	0.1~0.7	0.2~0.7			
				-0.1~0.7 For external pilot operation					
Maximum Frequency			cycle/min	600 500					
	DC	ON	S	0.010	0.010	0.010			
Response Time		OFF	S	0.010 (0.016)	_	0.015(0.021))	
Tille	AC	ON	S	0.013	0.013		0.013		
	AC	OFF	s	0.016	_		0.021		
Pilot air exha	aut			Individual exhaust					
Manual override				Screw driver-operated locking button					
Mounting pos	sition			Free					
Shock resistance, vibration resistance			m/s²	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

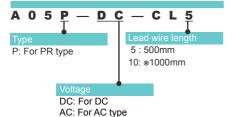
Electrical Specifications

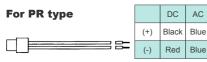
Rated voltage DC AC		DC	V	24, 12, 6, 5, 3			
		AC	V	100, 110 (50/60Hz)			
Permissible voltage fluctuation			%	+10, -10			
Power consumption	DC		W	0.6 (with indicator light and surge suppressor),0.55 (without indicator light and surge suppressor)			
	AC	110V	VA	1.4 (with indicator light and surge suppressor), 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





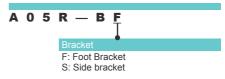
(For common use with PR type of A05, A12, and A20)

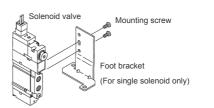
Locking cover

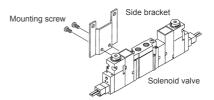


(For common use with all A05, A12, and A20)

Bracket



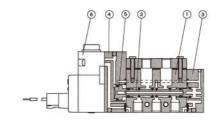




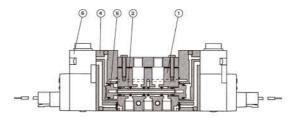
Note: Gasket(s) and mounting screws are provided (For common use with A05F)



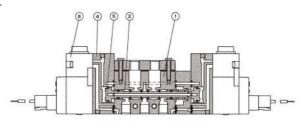
O 2-position Single solenoid



© 2-position Double solenoid



3-position Closed center3-position ABR connect3-position PAB connect

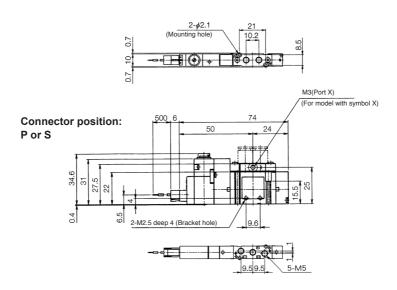


Main Component

No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy¹/NBR
3	End cover	Resin
4	Piston head ²	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series

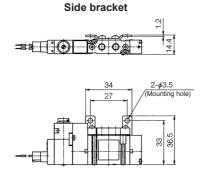


A05RS25 (Unit: mm)

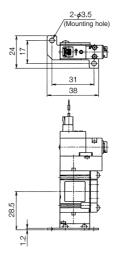


Manual locking cover



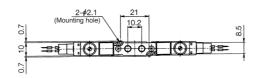


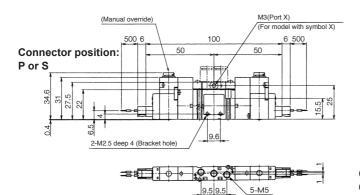
Foot bracket

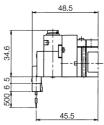




A05RD25 (Unit: mm)





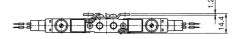


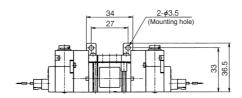
Connector position: Q or B

Manual locking cover



Side bracket

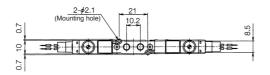


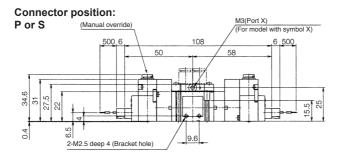


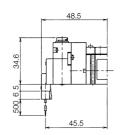


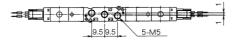
A05RD35, A05RE35, A05RO35

(Unit: mm)



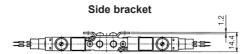


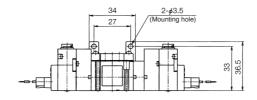




Connector position: Q or B







ADEX MFO-A05P, A05R

Individual Connector Type Manifold Bar Type

MFC□-A05P

Compact | Common SUP,common exhaust, ports 2 & 4 on the side **MFS**-**A05P**

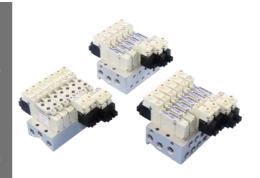
Common SUP, common exhaust, ports 2 & 4 on the side

MFX□-A05P

Common SUP, common exhaust, common external pilot, ports 2 & 4 on the side

MFU□-A05R

2 & 4 on the body



Manifold Specifications

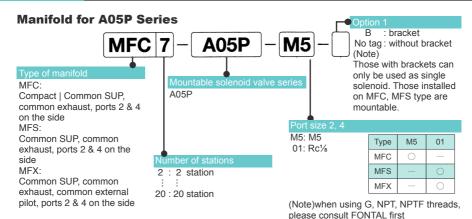
Type of manifold			For A05R Series					
		MFC□-A05P	MFS□-A05P	MFX□-A05P	MFU□-A05R			
		Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve cap- tured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common external pilot, pilot valve captured exhaust, ports 2 & 4 on the side				
	Ports 1, 3, 5	Rc⅓	Rc⅓	Rc⅓	Rc⅓			
Port size	Ports 2, 4	M5	Rc⅓	Rc⅓	M5			
Port size	Port Y	_	_	M5	_			
	Port X	_	_	M5	_			
Number of stations		2~20						
Installation		Direct mount						
Mountable solenoid valve		A05PS25 A05PS25 A05PD25 A05PD25 A05PD35 A05PD35 A05PE35 A05PE35 A05PO35 A05PO35		A05PS25X A05PD25X A05PD35X A05PE35X A05PO35X	A05RS25 A05RD25 A05RD35 A05RE35 A05RO35			
Blank plate			A05R-BP					



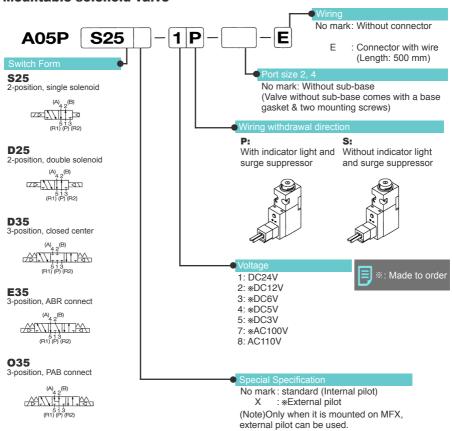
Tagging method

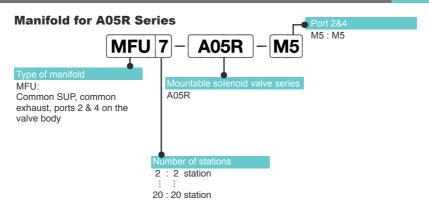
Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

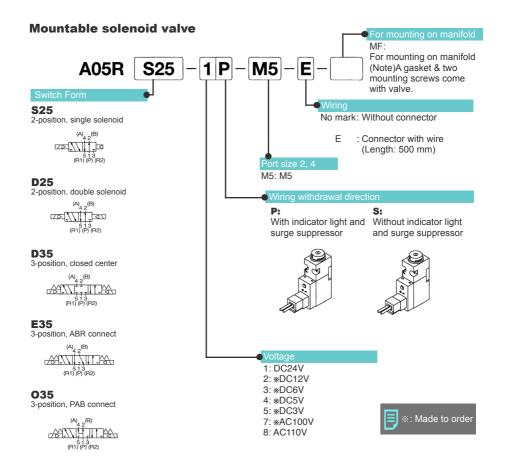




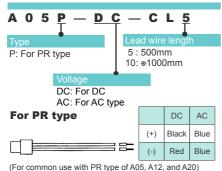
Mountable solenoid valve





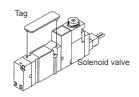


Connector with lead wire



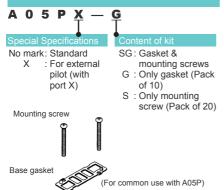
Tag for solenoid valve

A 0 5 P — N (Pack of 10)

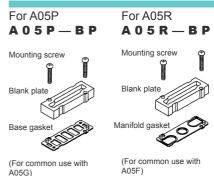


(For common use with sub-base mounting type of A05, A12, and A20) $\,$

Base gasket

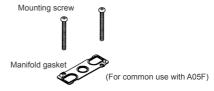


Blank plate

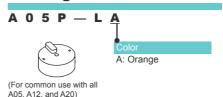


Base gasket





Locking cover



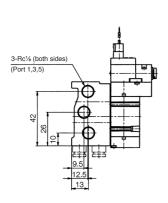


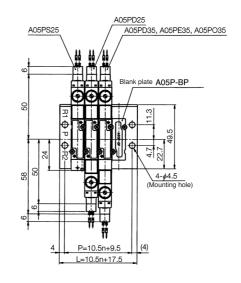


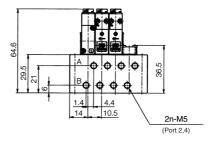
(Unit: mm)

MFC□-A05P-M5





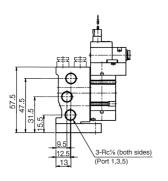


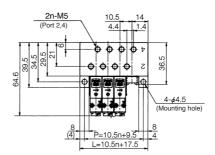


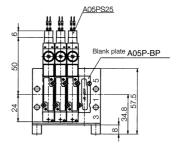
MFC□-A05P-M5-B

(Unit: mm)





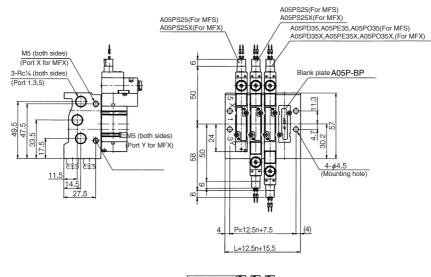


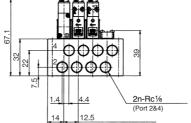


(Unit: mm)

MFS□-A05P-01, MFX□-A05P-01



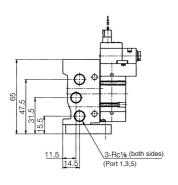


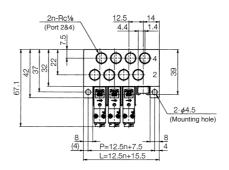


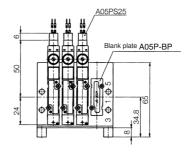
MFS□-A05P-01-B

(Unit: mm)





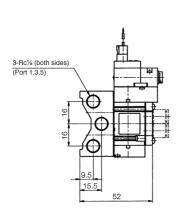


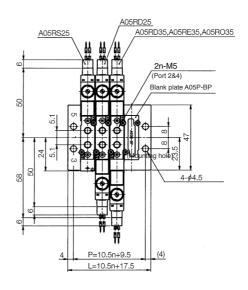


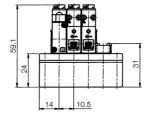
(Unit: mm)

MFU□-A05R-M5









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

A12P035

3-position, PAB connect



Specificiations

opecinici	ations								
Model No.	Model No.			A12PS25	A12PD25	A12PD35	A12PE35	A12PO35	
Fluid				Non-lubricated/lubricated air					
Port size					RC 1/4				
Effective are	a		mm²	11.1		7.	.6	14.1	
Cv value				0.61		0.4	42	0.78	
Operating ar	nbient tempe	rature	°C			-5~50			
Pressure range			MPa	0.15~0.7	0.1~0.7		0.2~0.7		
			IVIFA	-0.1~0.7 For external pilot operation					
Maximum Fr	equency		cycle/min	600 500					
	DC	ON	S	0.015	0.010	0.012			
Response Time	DC	OFF	S	0.018 (0.024)	_	0.036(0.042)		2)	
Tillie	AC	ON	S	0.018	0.013	0.015			
	AC	OFF	S	0.024	_	0.041			
Pilot air exha	aut			Captured exhaust					
Manual over	ride			Screwdriver-operated locking button					
Mounting position				Free					
Shock resistance, vibration resistance			m/s ²	150/30					
Weight	Without sub-	-base	g	60	75		79		
vveigni	With sub-ba	se	g	143	161	166			

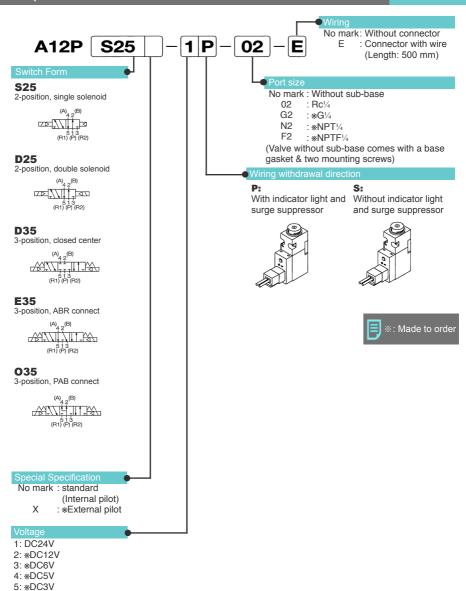


- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
- Pressure range of external pilot supply: 0.25~0.7MPa
- Response time in bracket () is displayed with surge suppressor
- Response time shown above is in accordance with JIB B 8375
- Effective area shown above is a value between ports 1 and 2, 4

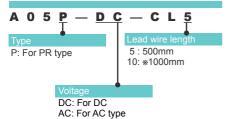
Electrical Specifications

Rated voltage	DC		V	24, 12, 6, 5, 3	
AC		AC	V	100, 110 (50/60Hz)	
Permissible voltage fluctuation		%	+10, -10		
Power DC		DC		0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	
consumption	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	

7: *AC100V 8: AC110V



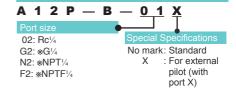
Connector with lead wire





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

Sub-base





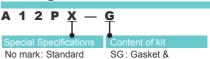
(For common use with A12G)

Locking cover



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

Base gasket



X : For external pilot (with port X)

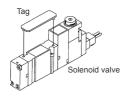
G : Only gasket (Pack of 10)
S : Only mounting

screw (Pack of 20)

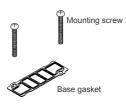
mounting screws

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)

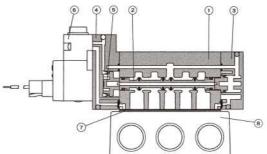


(For common use with A12G)

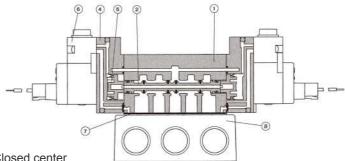


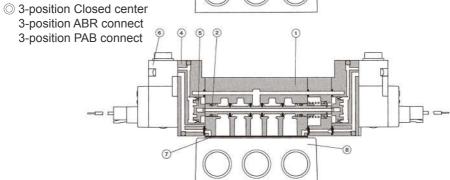


© 2-position Single solenoid



© 2-position Double solenoid



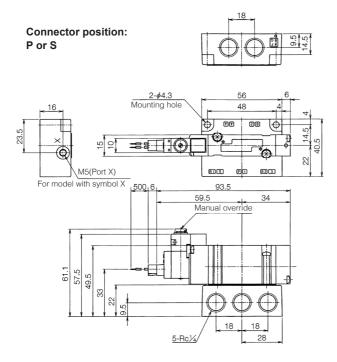


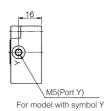
Main Component

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



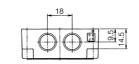
A12PS25 (Unit: mm)





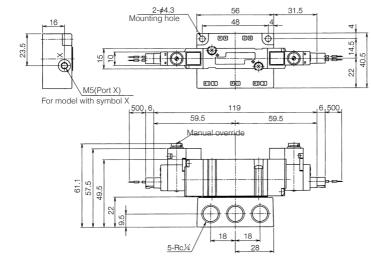


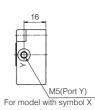
A12PD25 (Unit: mm)



Connector position:

P or S



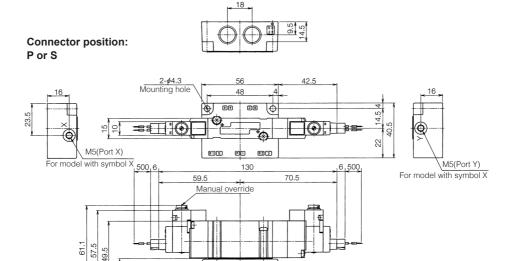






A12PD35, A12PE35, A12PO35

(Unit: mm)



28

Manual locking cover

5-Rc1/4



ADEX A12R Series

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

A12RS25

A12RD25

A12RD35

A12RE35

A12R035



Specificiations

оросинон									
Model No.			Unit	A12RS25	A12RD25	A12RD35	A12RE35	A12RO35	
Fluid				Non-lubricated/lubricated air					
Port size					oort 2,4: RC	1/8 port 1,	3,5: RC 1/8		
Effective area	ı		mm ²	8.8		8	.5	12	
Cv value				0.48	3	0.4	46	0.66	
Operating am	bient tempe	erature	°C			-5~50			
			MDa	0.15~0.7	0.1~0.7		0.2~0.7		
Pressure rang	ge		MPa	-0.1~0.7 For external pilot operation					
Maximum Fre	equency		cycle/min	600		500			
	D0	ON	s	0.015	0.010	0.012			
Response	DC	OFF	s	0.018 (0.024)	_	0.036(0.042)			
Time	AC	ON	s	0.018	0.013	0.015			
	AC	OFF	s	0.024	_		0.041		
Pilot air exhau	ut			Individual exhaust					
Manual overri	ide			Screw driver-operated locking button					
Mounting position				Free					
Shock resistance, vibration resistance			m/s²	150/30					
Weight			g	83	101	106			

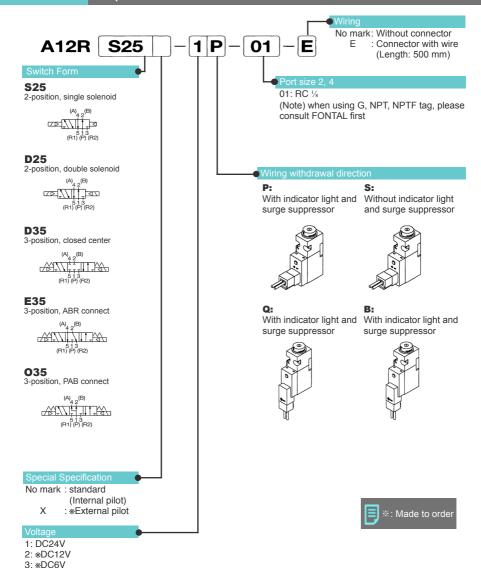


- Service kit not available
- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
 Pressure range of external pilot supply: 0.25~0.7MPa
 Response time in bracket () is displayed with surge suppressor

- Effective area shown above is a value between ports 1 and 2, 4

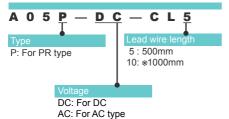
Electrical Specifications

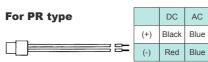
Rated voltage		DC	V	24, 12, 6, 5, 3		
		AC	V	100, 110 (50/60Hz)		
Permissible voltage fluctuation		%	+10, -10			
Power	DC		W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)		
consumption	AC	110V	VA	1.4 (with indicator light and surge suppressor), 1.3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



4: *DC5V 5: *DC3V 7: *AC100V 8: AC110V

Connector with lead wire





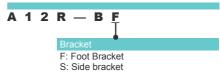
(For common use with PR type of A05, A12, and A20)

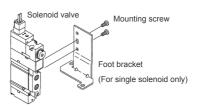
Locking cover

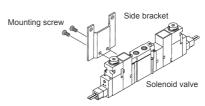


(For common use with all A05, A12, and A20)

Bracket



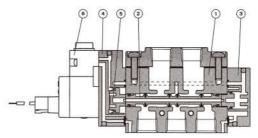




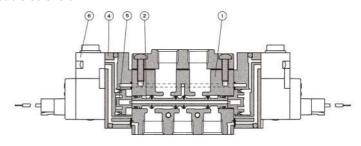
(Note) Gasket(s) and mounting screws are provided (For common use with A12F)

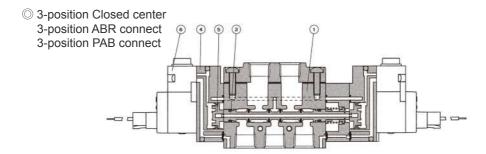


© 2-position Single solenoid



© 2-position Double solenoid



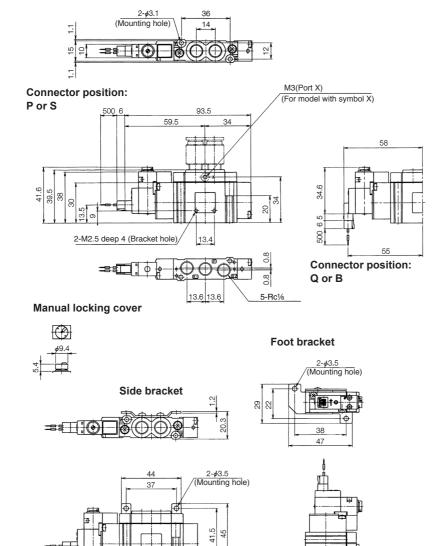


Main Component

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			



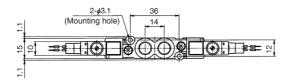
A12RS25 (Unit: mm)

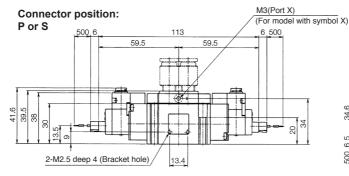


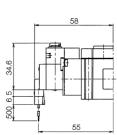


38.2

A12RD25 (Unit: mm)

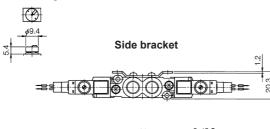


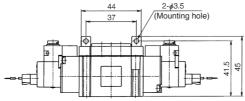




13.6 13.6 5-Rc1/s

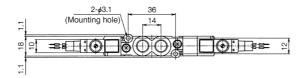
Connector position: Q or B

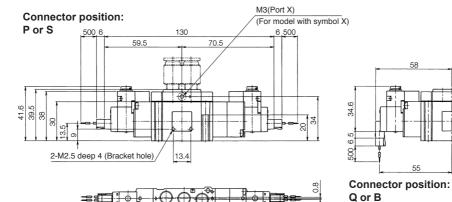




A12RD35, A12RE35, A12RO35

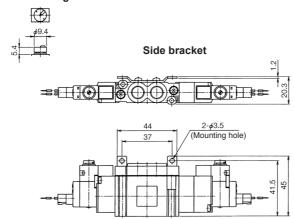
(Unit: mm)





5-Rc1/8

Manual locking cover



13.6 13.6

ADEX MFO-A12P, A12R

Individual Connector Type Manifold Bar Type

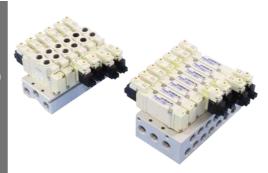
MFS□-A12P

ports 2 & 4 on the side

MFX□-A12P

common external pilot, ports 2 & 4 on the side

MFU□-A12R



Manifold Specifications

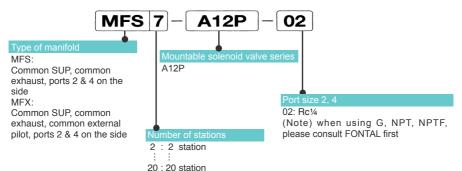
Type of manifold		For A12P Series	For A12R Series			
		MFS□-A12P MFX□-A12P		MFU□-A12R		
		Common SUP, common exhaust, pilot valve cap- tured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common external pilot, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the valve body		
Ports 1, 3, 5		Rc¼	Rc¼	Rc¼		
Dark sine	Ports 2, 4	Rc¼	Rc¼	Rc⅓		
Port size	Port Y	_	M5	_		
	Port X	_ M5		_		
Number of station	าร	2~20				
Installation		Direct mount				
Mountable solend	oid valve	A12PS25 A12PS25X A12PD25 A12PD25X A12PD35 A12PD35X A12PE35 A12PE35X A12PO35 A12PO35X		A12RS25 A12RD25 A12RD35 A12RE35 A12RO35		
Blank plate		A12	A12R-BP			



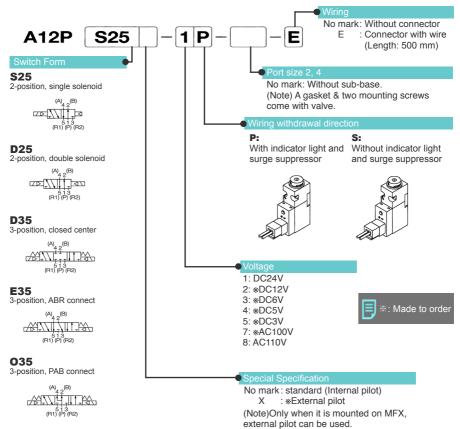
Tagging method
Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

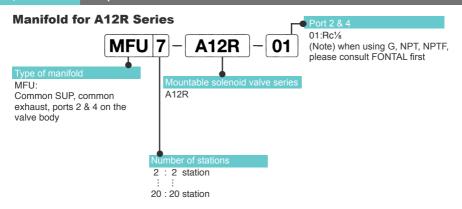


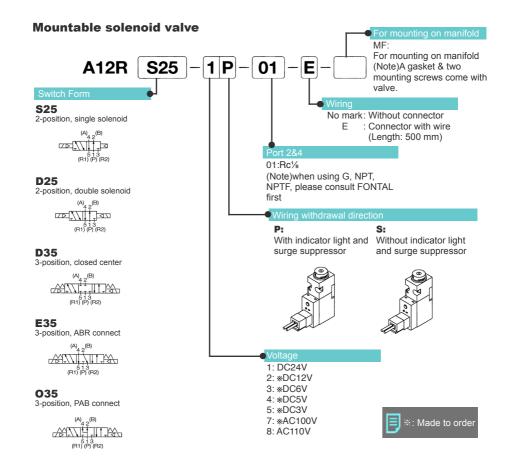
Manifold for A12P Series



Mountable solenoid valve

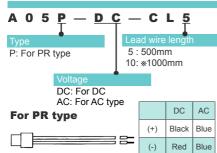






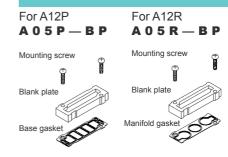


Connector with lead wire



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

Blank plate

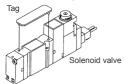


(For common use with A12G)

(For common use with A12F)

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)

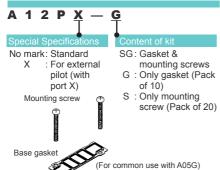
Base gasket



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



Base gasket



Locking cover

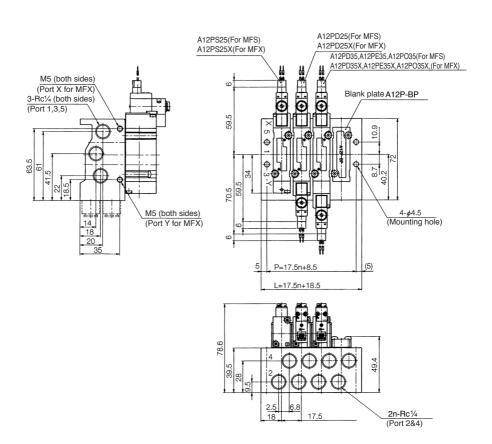




MFS□-A12P-02, MFX□-A12P-02

(Unit: mm)

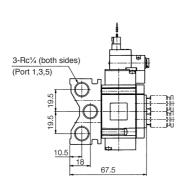


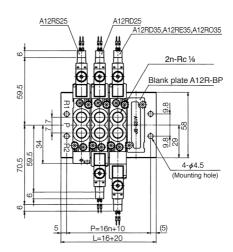


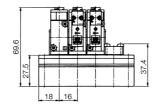
(Unit: mm)

MFU□-A12R-01









ADEX A20P Series

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

A20PS25

2-position, single solenoid

A20PD25

A20PD35

A20PE35

3-position, ABR connect

A20P035

3-position, PAB connect



Specificiations

•										
Model No.	Model No.			A20PS25	A20PD25	A20PD35	A20PE35	A20PO35		
Fluid				Non-lubricated/lubricated air						
Port size					RC 1/4, 3/8					
Effective area			mm ²	20.6		15	.9	20.5		
Cv value				1.13		0.8	87	1.13		
Operating am	bient tempera	iture	°C			-5~50				
Dragoura rana			MPa	0.15~0.7	0.1~0.7		0.2~0.7			
Pressure rang	je		IVIPa	-0.1~0.7 For external pilot operation						
Maximum Frequency			cycle/min	300		200				
	DC	ON	s	0.018	0.010	0.015				
Response Time	ЪС	OFF	s	0.028 (0.034) —		0.060(0.066)				
Time	AC	ON	s	0.021	0.013	0.018				
	AC	OFF	S	0.034	_	0.065				
Pilot air exhau	ut			Captured exhaust						
Manual overri	de			Screw driver-operated locking button						
Mounting pos	ition					Free				
Shock resistance, vibration resistance			m/s²	150/30						
Maight	Without sub-l	oase	g	90	105	113				
Weight With sub-base		g	330	349	357					



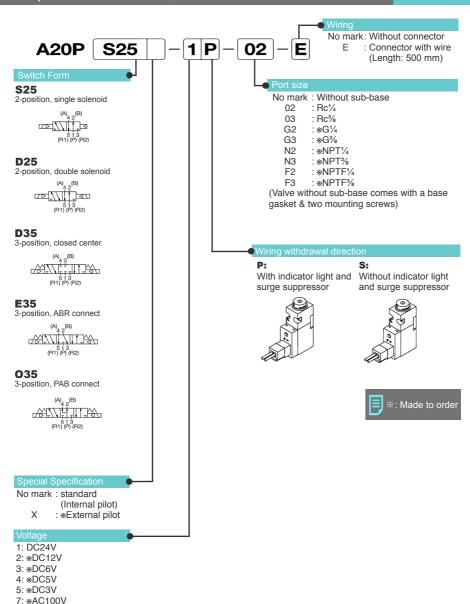
- •Service kit not available
- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
 Pressure range of external pilot supply: 0.25-0.7MPa
 Response time in bracket () is displayed with surge suppressor
 Response time shown above is in accordance with JIB B 8375
 Effective 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	wer DC		w	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	
consumption	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	

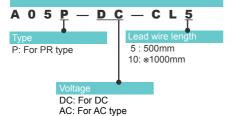


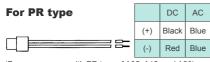
8: AC110V





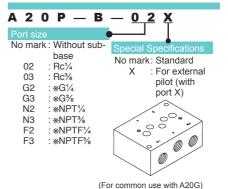
Connector with lead wire





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

Sub-base

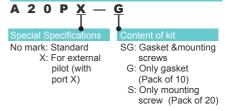


Locking cover



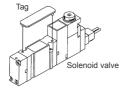
(For common use with all A05, A12, and A20)

Base gasket

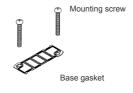




A 0 5 P — N (Pack of 10)



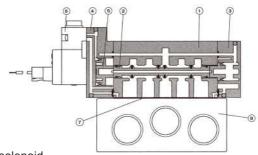
(For common use with sub-base mounting type of A05, A12, and A20) $\,$



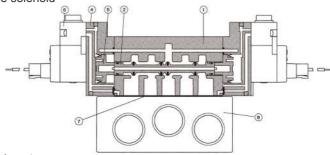
(For common use with A20P)



O 2-position Single solenoid



© 2-position Double solenoid



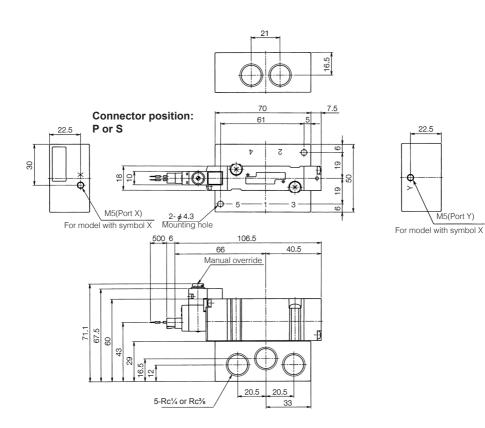
3-position Closed center
3-position ABR connect
3-position PAB connect

Main Component

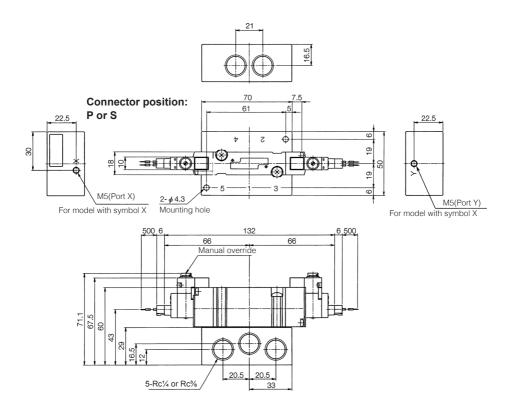
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series
7	Base gasket	NBR
8	Sub-base	Alluminium die-casting



A20PS25 (Unit: mm)



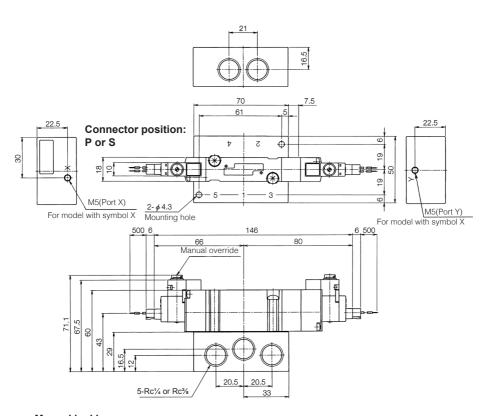






A20PD35, A20PE35, A20PO35

(Unit: mm)





ADEX A20R Series

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

A20RS25

A20RD25

A20RD35

3-position, closed center

A20RE35

A20R035



Specificiations

opeciliei	4610113									
Model No.			Unit	A20RS25	A20RD25	A20RD35	A20RE35	A20RO35		
Fluid					Non-lubricated/lubricated air					
Port size				ŗ	port 1,2,4: RC ¹ / ₄ port 3,5: RC ¹ / ₈					
Effective area			mm ²	17.6	6	15	5.7	18.1		
Cv value				0.97	7	0.	86	1.00		
Operating am	bient tempe	erature	°C			-5~50				
			MDa	0.15~0.7	0.1~0.7		0.2~0.7			
Pressure range		MPa	-0.1~0.7 For external pilot operation							
Maximum Fre	quency		cycle/min	300		200				
	DC	ON	S	0.018	0.010	0.015				
Response Time	DC	OFF	S	0.028 (0.034)	_	0.060 (0.066)		i)		
Time	AC	ON	S	0.021	0.013		0.018			
	AC	OFF	S	0.034	_		0.065			
Pilot air exhau	ut			Individual exhaust						
Manual overri	Manual override			Sc	crew driver-c	perated loc	king button			
Mounting position				Free						
Shock resistance, vibration resistance			m/s ²	150/30						
Weight			g	114	133	141				

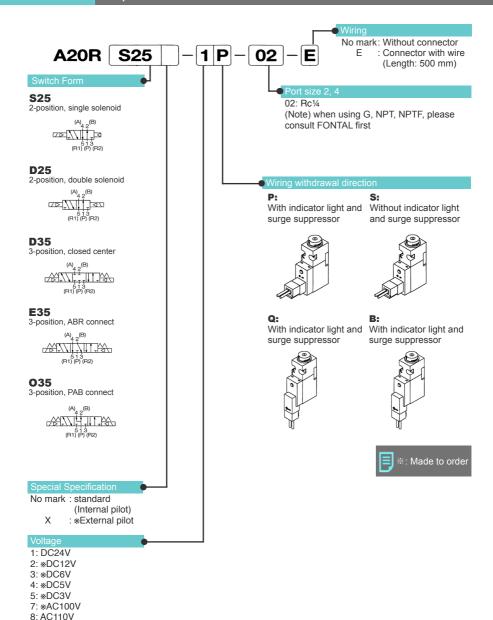


- •Service kit not available
 •Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
 •Pressure range of external pilot supply: 0.25~0.7MPa
 •Response time in bracket () is displayed with surge suppressor
 •Response time shown above is in accordance with JIB B 8375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

Electrical Specifications

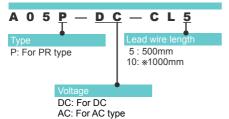
Rated voltage	Rated voltage DC AC		V	24, 12, 6, 5, 3	
			V	100, 110 (50/60Hz)	
Permissible voltage fluctuation		%	+10, -10		
Power	Power		W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	
consumption	AC	110V	VA	1.4 (with indicator light and surge 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	

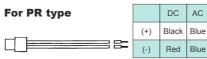






Connector with lead wire





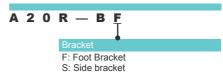
(For common use with PR type of A05, A12, and A20)

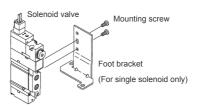
Locking cover

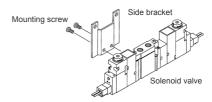


(For common use with all A05, A12, and A20)

Bracket

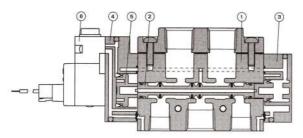




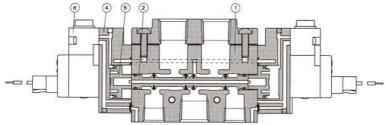


Note: Gasket(s) and mounting screws are provided (For common use with A20F)

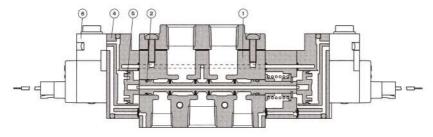
© 2-position Single solenoid



© 2-position Double solenoid



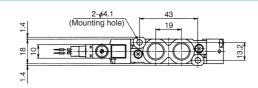
- © 3-position Closed center
 - 3-position ABR connect
 - 3-position PAB connect

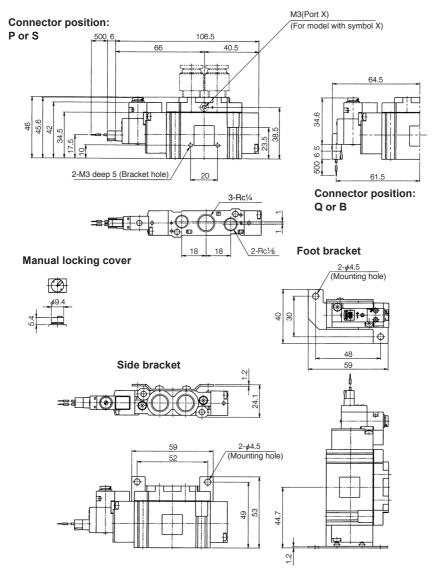


Main Component

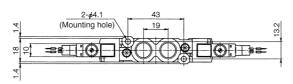
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series

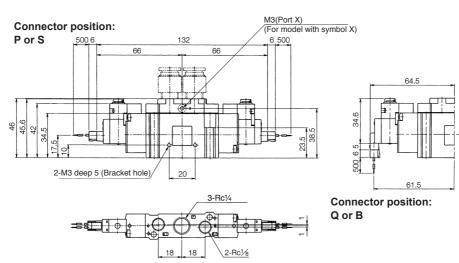
A20RS25 (Unit: mm)

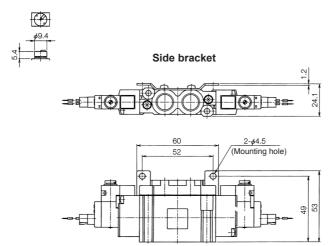




A20RD25 (Unit: mm)

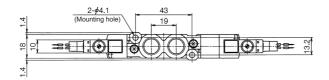


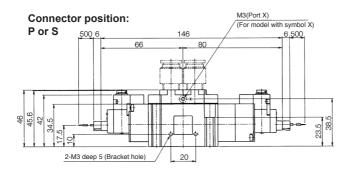




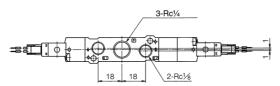
A20RD35, A20RE35, A20RO35

(Unit: mm)

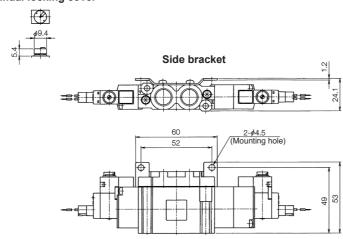








Connector position: Q or B



ADEX MFO-A20P, A20R

Individual Connector Type Manifold Bar Type

MFS□-A20P

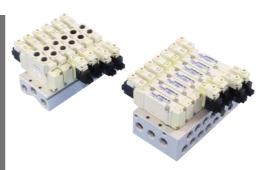
Common SUP, common exhaust, ports 2 & 4 on the side

MFX□-A20P

Common SUP, common exhaust, common external pilot, ports 2 & 4 on the side

MFU□-A20R

Common SUP, common exhaust ports 2 & 4 on the valve body



Manifold Specifications

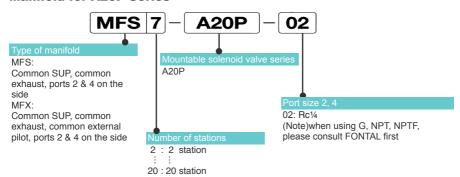
		1				
		For A20	P Series	For A20R Series		
Type of manifold		MFS□-A20P	MFX□-A20P	MFU□-A20R		
		Common SUP, common exhaust, pilot valve cap- tured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common external pilot, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the valve body		
	Ports 1, 3, 5	Rc¼	Rc¼	Rc¼		
David ains	Ports 2, 4	Rc¼	Rc¼	Rc¼		
Port size	Port Y	_	M5	_		
	Port X	_	M5	_		
Number of station	ns	2~20				
Installation		Direct mount				
Mountable solenoid valve		A20PS25 A20PD25 A20PD35 A20PE35 A20PO35	A20PS25X A20PD25X A20PD35X A20PE35X A20PO35X	A20RS25 A20RD25 A20RD35 A20RE35 A20RO35		
Blank plate		A20	A20R-BP			



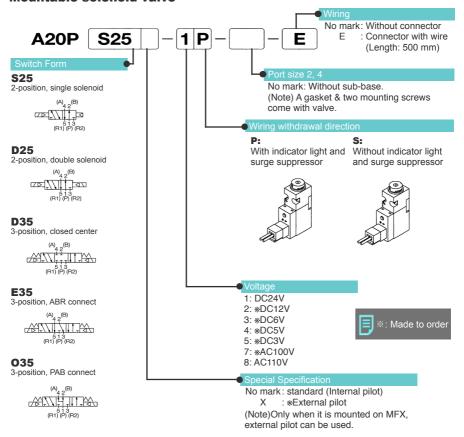
Tagging method

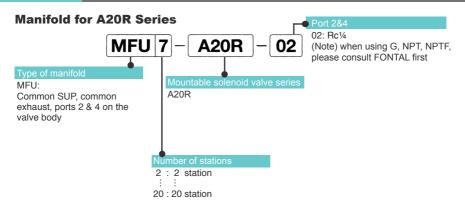
Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

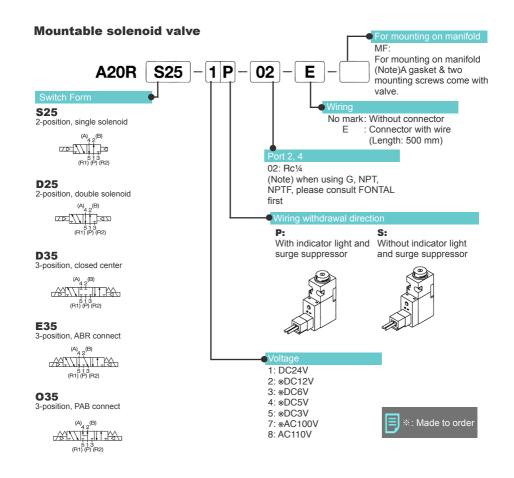
Manifold for A20P Series



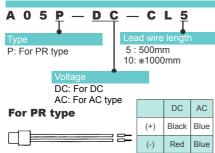
Mountable solenoid valve





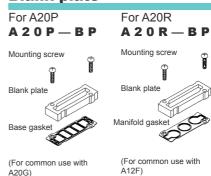






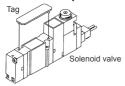
(For common use with PR type of A05, A12, and A20)

Blank plate



Tag for solenoid valve

A 0 5 P — N (Pack of 10)

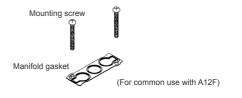


(For common use with sub-base mounting type of A05, A12, and A20)

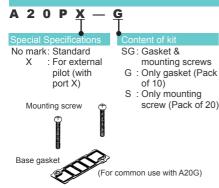
Base gasket



G: Only gasket (Pack of 10) S: Only mounting screw (Pack of



Base gasket



Locking cover



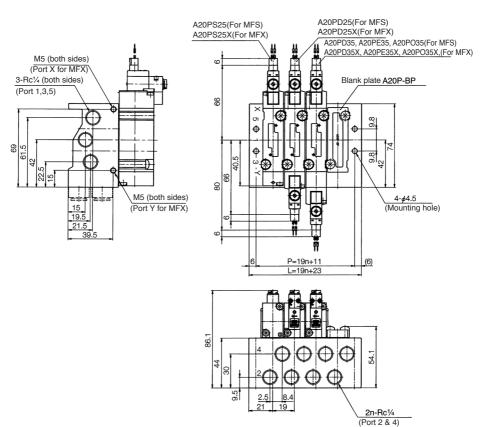




MFS□-A20P-02, MFX□-A20P-02

(Unit: mm)

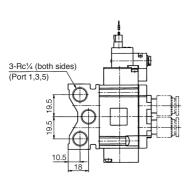


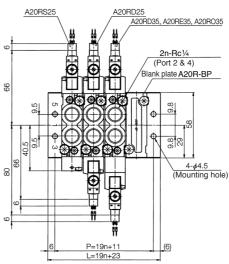


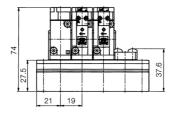
MFU□-A20R-02

(Unit: mm)









ADEX VALVE

GF Type

ADEX A05G Series

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

A05GS25

2-position, single solenoid

A05GD25

2-position, double solenoid

A05GD35

3-position, closed center

A05GE35

3-position, ABR connect

A05G035

3-position, PAB connect



Specificiations

Model No.			Unit	A05GS25	A05GD25	A05GD35	A05GE35	A05GO35		
Fluid				Non-lubricated/lubricated air						
Port size					RC 1/8					
Effective area			mm²	5.8	5.8 4.5			6.7		
Cv value				0.32	2	0.1	25	0.37		
Operating ambie	nt temperatu	re	°C			-5~50				
			MPa	0.15~0.7						
Pressure range	Pressure range			-0.1~0.7 For external pilot operation						
Maximum Freque	ency		cycle/min	600 500						
Response Time	D0	ON	s	0.011	0.010	0.012				
	DC DC		s	0.011 (0.017)	_	0.032 (0.038)		3)		
Pilot air exhaut				Captured exhaust						
Manual override				Screw driver-operated locking button						
Mounting position				Free						
Shock resistance, vibration resistance			m/s²	150/30						
Moight	Without sub	-base	g	58	58 66 68					
Weight With sub-base		g	114	124	126					

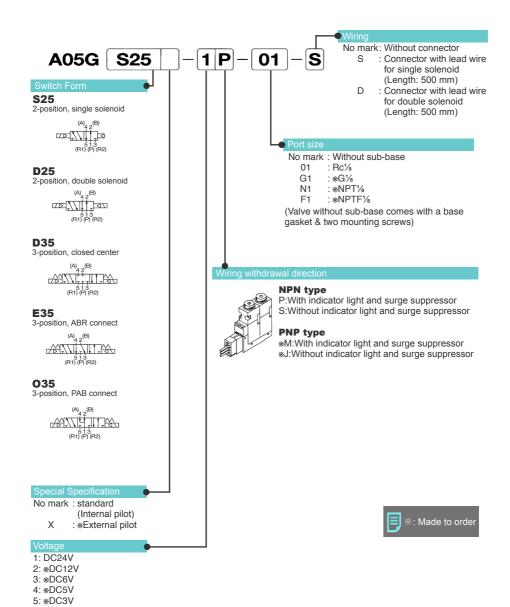


- Service kit not available
- \bullet Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
- Pressure range of external pilot supply: 0.25~0.7MPa
- Response time in bracket () is displayed with surge suppressor
- Response time shown above is in accordance with JIB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

Electrical Specifications

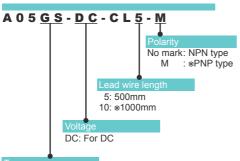
Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation	%	+10, -10
Power consumption	W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)
Grade of Insulation		JIS grade E
Wiring		Plug-in connector
Surge suppressor		Diode
Indicator light		LED







Connector with lead wire



Type

GS : For GF type single solenoid GD : For GF type double solenoid

For GF type single solenoid

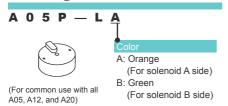


For GF type double solenoid



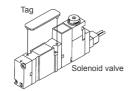
(For common use with GF type of A05, A12, and A20)

Locking cover



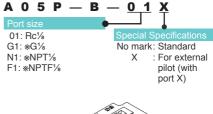
Tag for solenoid valve

A 0 5 P — N (Pack of 10)



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

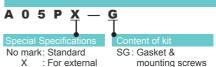
Sub-base





(For common use with A05P)

Base gasket

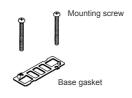


: For external pilot (with port X)

S : Only gasket (Pack of 10)

S : Only mounting

screw (Pack of 20)

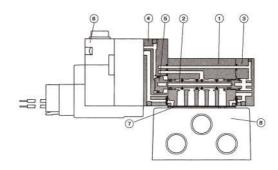


(For common use with A05P)

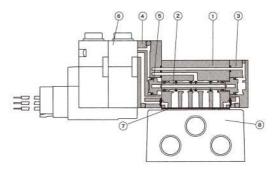




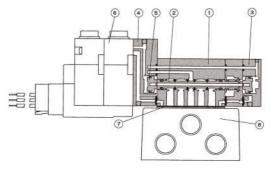
© 2-position Single solenoid



© 2-position Double solenoid



3-position Closed center3-position ABR connect3-position PAB connect



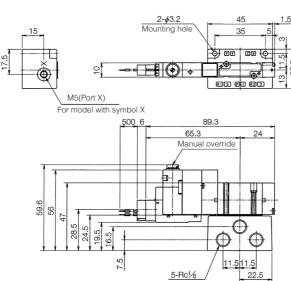
Main Component

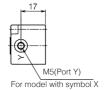
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series
7	Base gasket	NBR
8	Sub-base	Alluminium die-casting



A05GS25 (Unit: mm)

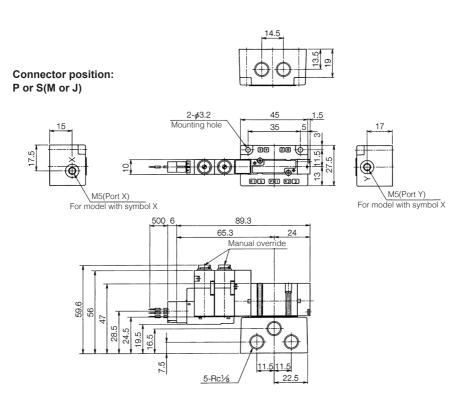








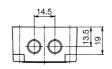
A05GD25 (Unit: mm)

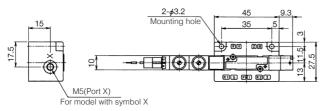


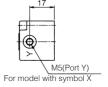


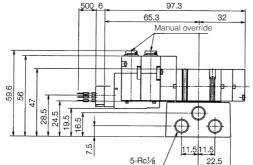


Connector position: P or S(M or J)











ADEX A05F Series

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

A05FS25

A05FD25

2-position, double solenoid

A05FD35

3-position, closed center

A05FE35

A05F035



Specificiations

•	_								
Model No.			Unit	A05FS25	A05FD25	A05FD35	A05FE35	A05FO35	
Fluid				Non-lubricated/lubricated air					
Port size					port 2,4: M	5 port 1,3	3,5: M5		
Effective area			mm²	4		3.	.7	4.5	
Cv value				0.22	!	0.2	20	0.25	
Operating ambie	Operating ambient temperature				-5~50				
Pressure range			MPa	0.15~0.7	0.1~0.7	0.2~0.7			
Maximum Freque	ency		cycle/min	600 500					
Response Time	DC	ON	s	0.011	0.010	0.012			
	DC	OFF	s	0.011 (0.017)	_	0.032 (0.038)			
Pilot air exhaut				Individual exhaust					
Manual override				Screw driver-operated locking button					
Mounting position				Free					
Shock resistance, vibration resistance			m/s²	150/30					
Weight			g	64 74 76					

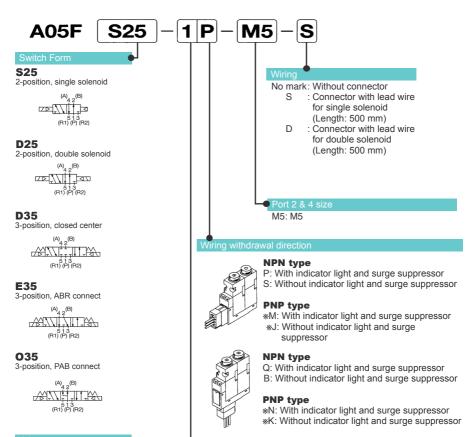


- Service kit not available
- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
 Pressure range of external pilot supply: 0.25-0.7MPa
 Response time in bracket () is displayed with surge suppressor
 Response time shown above is in accordance with JIB B 8375
 Effective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

Electrical Specifications

Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption	W	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





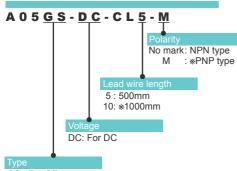


- 1: DC24V
- 2: *DC12V
- 3: *DC6V
- 4: *DC5V
- 5: *DC3V





Connector with lead wire



GS : For GF type single solenoid GD : For GF type

GD : For GF type double solenoid

For GF type single solenoid

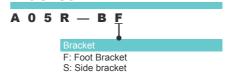


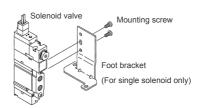
For GF type double solenoid

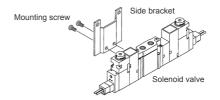


(For common use with GF type of A05, A12, and A20)

Bracket

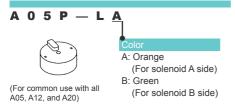






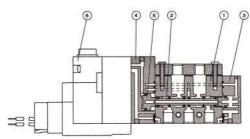
Note: Gasket(s) and mounting screws are provided (For common use with A05R)

Locking cover

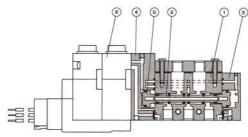




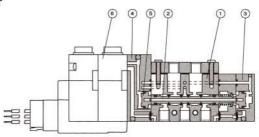
© 2-position Single solenoid



© 2-position Double solenoid



3-position Closed center3-position ABR connect3-position PAB connect

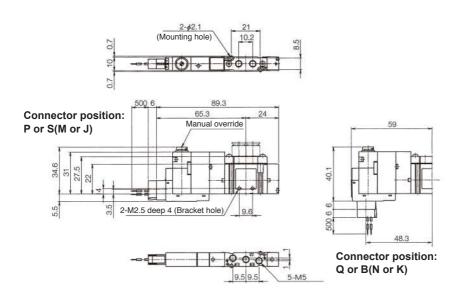


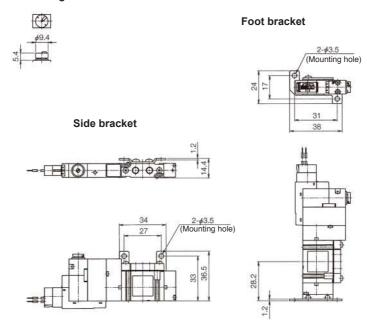
Main Component

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

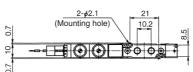


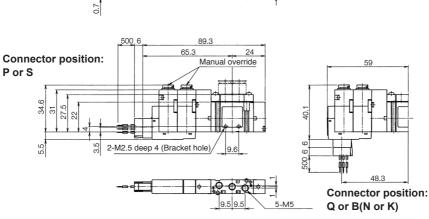
A05FS25 (Unit: mm)

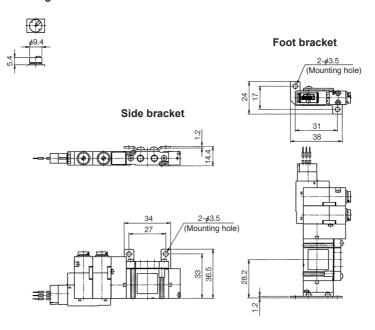




A05FD25



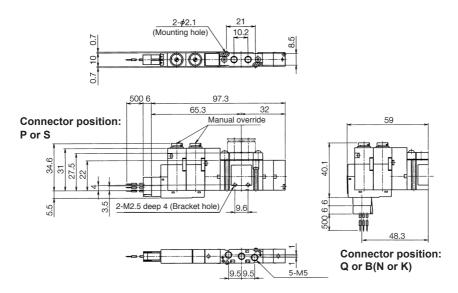


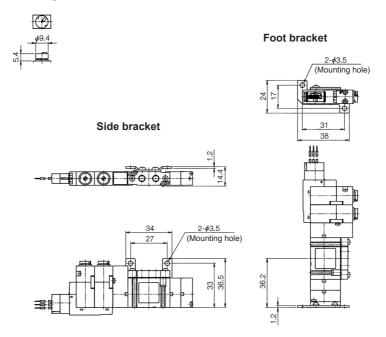




A05FD35, A05FE35, A05FO35

(Unit: mm)





ADEX MFO-A05G,A05F

Individual Wiring Type Manifold Bar Type

MFC□-A05G

Common SUP, common exhaust, ports 2 & 4 on the side, Compact type

MFS□-A05G

Common SUP, common exhaust, ports 2 & 4 on the side

MFX□-A05G

Common SUP, common exhaust, common external pilot, ports 2 & 4 on the side

MFU□-A05F

Common SUP, common exhaust ports 2 & 4 on the valve body



Manifold Specifications

			For A05G Series		For A05F Series		
		MFC□-A05G	MFS□-A05G	MFX□-A05G	MFU□-A05F		
Type of manifold		Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common exter- nal pilot, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the valve body		
	Ports 1, 3, 5	Rc⅓	Rc⅓	Rc⅓	Rc⅓		
Port size	Ports 2, 4	M5	Rc⅓	Rc⅓	M5		
FUIT SIZE	Port Y	_	_	M5	_		
	Port X	_	_	M5	_		
Number of sta	tions	2~20					
Installation		Direct mount					
Mountable solenoid valve		A05GS25 A05GS25 A05GD25 A05GD25 A05GD35 A05GD35 A05GE35 A05GE35 A05GO35 A05GO35		A05GS25X A05GD25X A05GD35X A05GE35X A05GO35X	A05FS25 A05FD25 A05FD35 A05FE35 A05FO35		
Blank plate			A05R-BP				

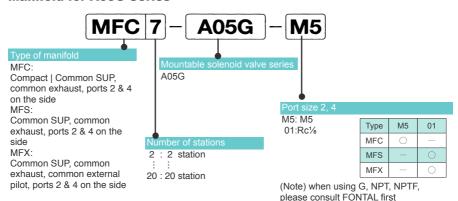


Tagging method

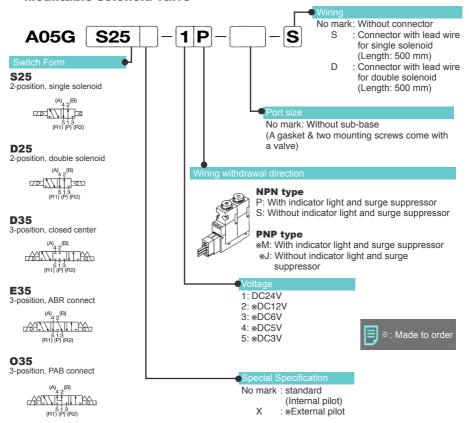
Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

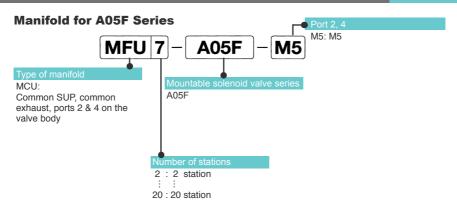


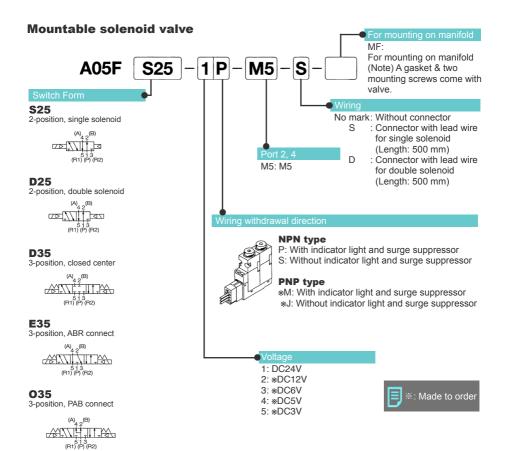
Manifold for A05G Series



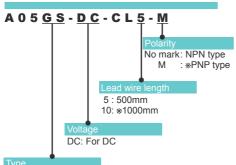
Mountable solenoid valve







Connector with lead wire



GS : For GF type single solenoid GD : For GF type double solenoid

For GF type single solenoid

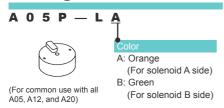


For GF type double solenoid



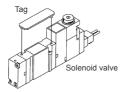
(For common use with GF type of A05, A12, and A20)

Locking cover



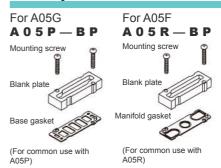
Tag for solenoid valve

A 0 5 P — N (Pack of 10)



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

Blank plate

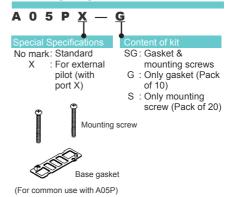


Manifold gasget



Base gasget

(For common use with A05R)



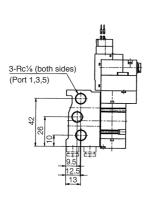


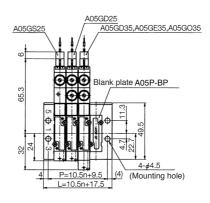


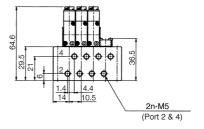
(Unit: mm)

MFC□-A05G-M5





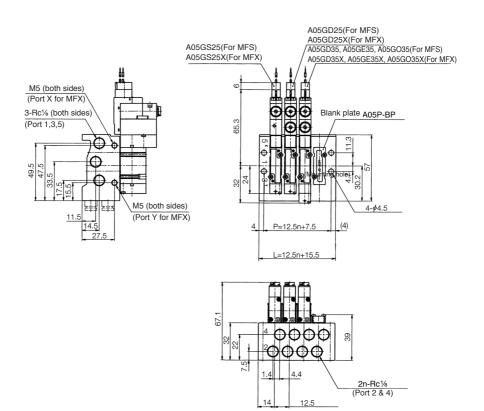




MFS□-A05G-01, MFX□-A05G-01

(Unit: mm)

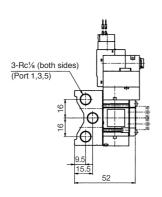


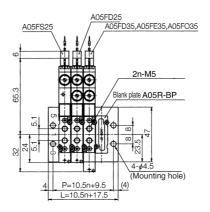


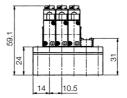
MFU□-A05F-M5

(Unit: mm)









ADEX A12G Series

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

A12GS25

2-position, single solenoid

A12GD25

A12GD35

A12GE35

A12G035

3-position, PAB connect



Specificiations

Model No.			Unit	A12GS25	A12GD25	A12GD35	A12GE35	A12GO35	
Fluid				Non-lubricated/lubricated air					
Port size	Port size					RC 1/4			
Effective area			mm ²	11.1	11.1 7.6			14.1	
Cv value				0.61		0.4	42	0.78	
Operating ambier	nt temperatu	ire	°C			-5~50			
_			MPa	0.15~0.7					
Pressure range	Pressure range			-0.1~0.7 For external pilot operation					
Maximum Freque	ncy		cycle/min	600 500					
Response Time	D0	ON	s	0.015	0.012	0.017			
	DC	OFF	s	0.020 (0.026)	_	0.065 (0.071)			
Pilot air exhaut				Captured exhaust					
Manual override				Screw driver-operated locking button					
Mounting position				Free					
Shock resistance, vibration resistance			m/s²	150/30					
Maight	Without sul	b-base	g	65	74		78		
Weight	With sub-base		g	149	159	163			

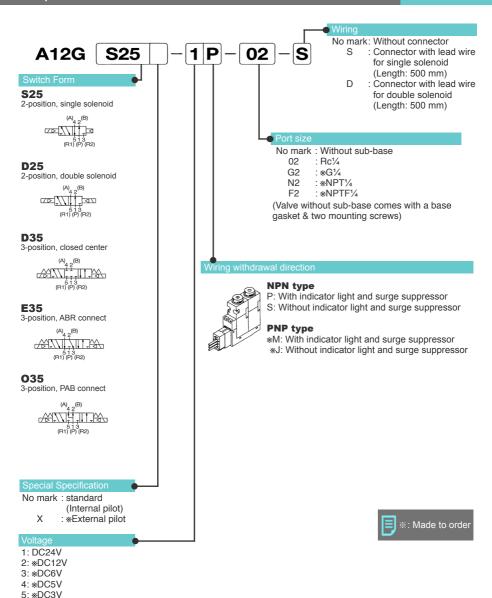


- •Service kit not available
- \bullet Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
- Pressure range of external pilot supply: 0.25~0.7MPa
 Response time in bracket () is displayed with surge suppressor
 Response time shown above is in accordance with JIB B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

Electrical Specifications

Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption	W	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





Connector with lead wire



Туре

GS : For GF type single solenoid GD : For GF type double solenoid

For GF type single solenoid

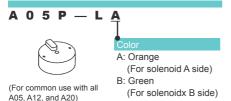


For GF type double solenoid



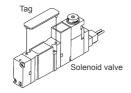
(For common use with GF type of A05, A12, and A20)

Locking cover



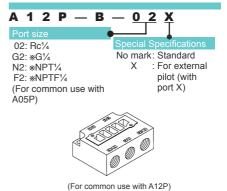
Tag for solenoid valve

A 0 5 P — N (Pack of 10)

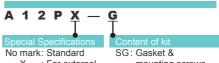


(For common use with sub-base mounting type of A05, A12, and A20) $\,$

Sub-base

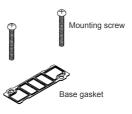


Base gasket



o mark: Standard X : For external pilot (with port X)

- mounting screws
 G: Only gasket (Pack of 10)
- S : Only mounting screw (Pack of 20)

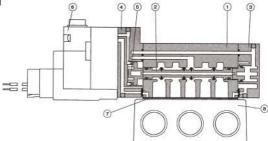


(For common use with A12P)

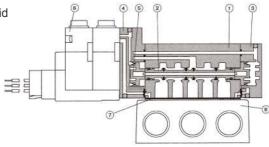




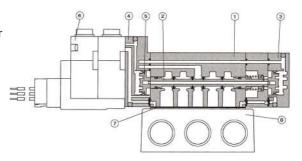
© 2-position Single solenoid



© 2-position Double solenoid



3-position Closed center3-position ABR connect3-position PAB connect

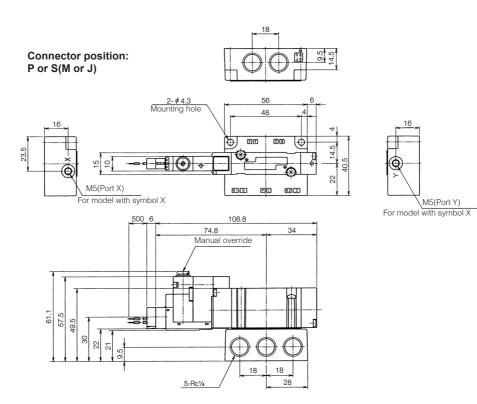


Main Component

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

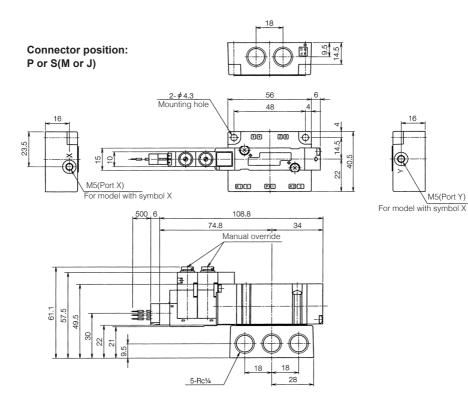


A12GS25 (Unit: mm)





A12GD25 (Unit: mm)

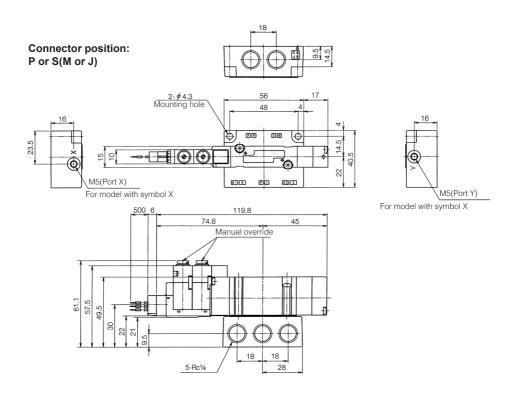






A12GD35, A12GE35, A12GO35

(Unit: mm)





ADEX A12F Series

5 Port Pilot Operated Solenoid Valve Rubber Seal/ Mounting type

A12FS25

2-position, single solenoid

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: Rc1/8 port 1,3,5: Rc1/8				
Effective area			mm²	8.8			.5	12	
Cv value				0.48 0.47			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 Frequen	су		cycle/min	600 500					
Response Time	DC	ON	s	0.015	0.012	0.017			
nesponse nine	ВС	OFF	S	0.020 (0.026)	_	0.065 (0.07)	
Pilot air exhaut				Indivudual exhaust					
Manual override				Screw driver-operated locking button					
Mounting position				Free					
Shock resistance,	vibration re	sistance	m/s²	150/30					
Weight			g	89 99 103					

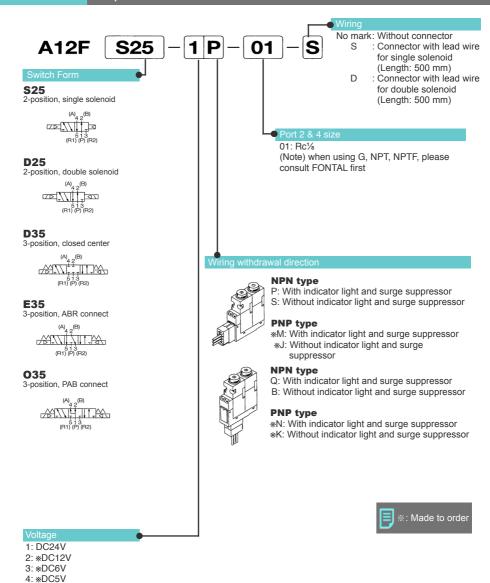


- Service kit not available
- Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
- Pressure range of external pilot supply: 0.25~0.7MPa
 Response time in bracket () is displayed with surge suppressor
- Response time shown above is in accordance with JIB B 8375
-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

Electrical Specifications

Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption	W	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







5: *DC3V

Connector with lead wire



Type

GS : For GF type single solenoid GD : For GF type double solenoid

For GF type single solenoid

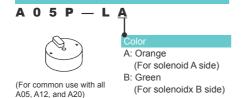


For GF type double solenoid

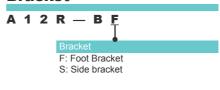


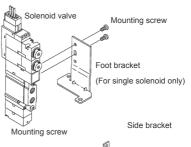
(For common use with GF type of A05, A12, and A20)

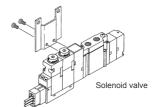
Locking cover



Bracket



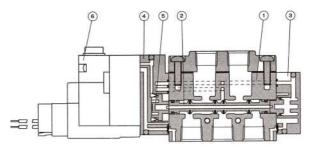




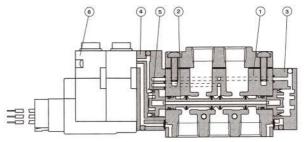
Note: Gasket(s) and mounting screws are provided (For common use with A12R)

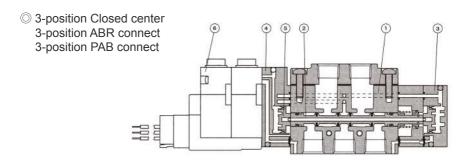


© 2-position Single solenoid



© 2-position Double solenoid



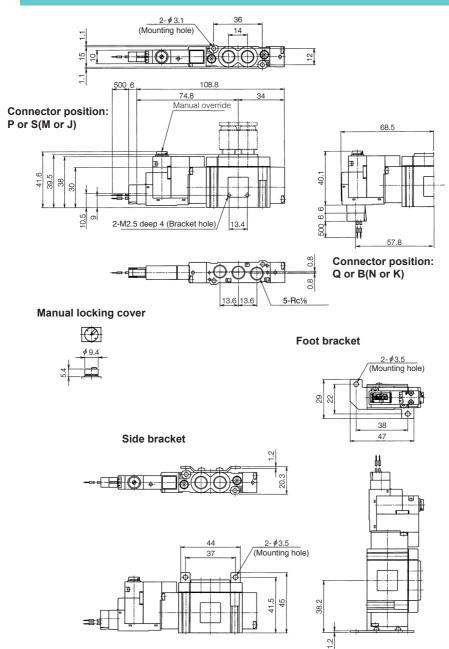


Main Component

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			

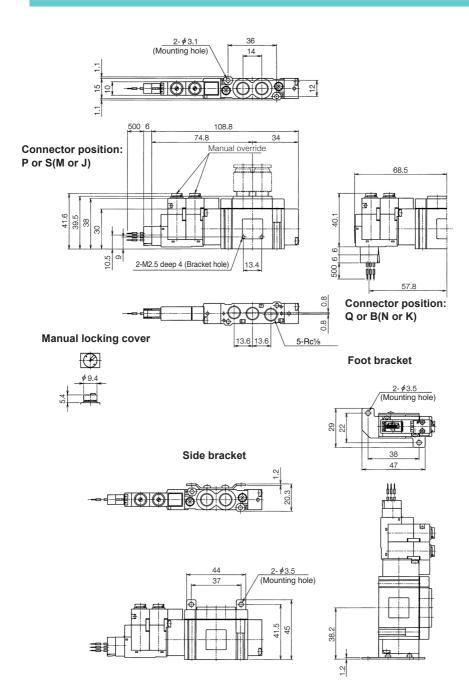


A12FS25 (Unit: mm)



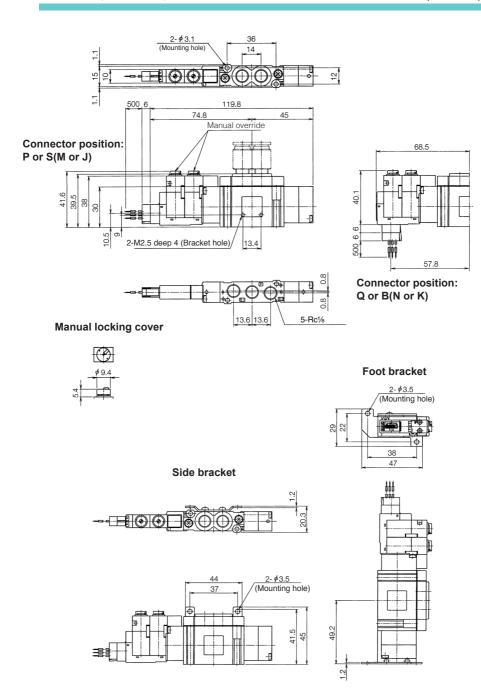


A12FD25 (Unit: mm)



A12FD25, A12FE25, A12FO25

(Unit: mm)



ADEX MFO-A12G, A12F

Individual Wiring Type Manifold Bar Type

MFS□-A12G

Common SUP, common exhaust, ports 2 & 4 on the side

MFX□-A12G

Common SUP, common exhaust, common external pilot, ports 2 & 4 on the side

MFU□-A12F

Common SUP, common exhaust, ports 2 & 4 on the valve body



Manifold Specifications

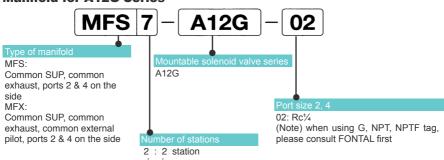
		For A12G	For A12F Series			
		MFS□-A12G	MFX□-A12G	MFU□-A12F		
Type of manifold		Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common external pilot, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the valve body		
	Ports 1, 3, 5	Rc¼	Rc¼	Rc¼		
Dark sins	Ports 2, 4	Rc¼	Rc¼	Rc⅓		
Port size	Port Y	_	M5	_		
	Port X	_	M5	_		
Number of station	ons	2~20				
Installation		Direct mount				
Mountable solenoid valve		A12GS25 A12GD25 A12GD35 A12GE35 A12GO35	A12GS25X A12GD25X A12GD35X A12GE35X A12GO35X	A12FS25 A12FD25 A12FD35 A12FE35 A12FO35		
Blank plate		A12P-I	3P	A12R-BP		



Tagging method

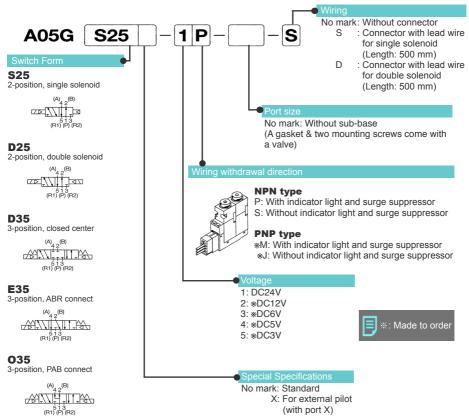
 Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

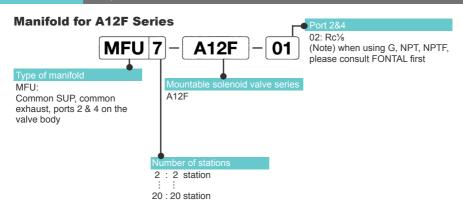
Manifold for A12G Series

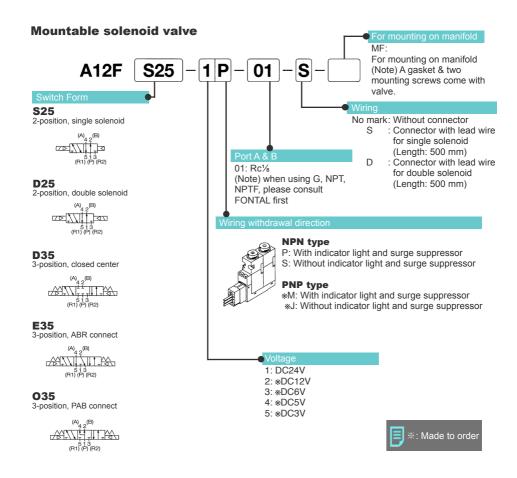


20: 20 station

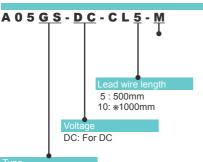
Mountable solenoid valve







Connector with lead wire



GS: For GF type

single solenoid GD: For GF type double solenoid

For GF type single solenoid



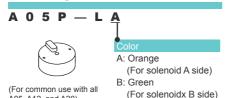
For GF type double solenoid



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

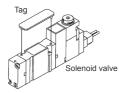
Locking cover

A05, A12, and A20)



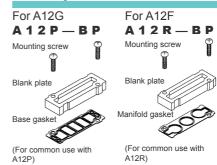
Tag for solenoid valve

A 0 5 P — N (Pack of 10)

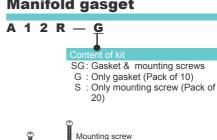


(For common use with sub-base mounting type of A05, A12, and A20)

Blank plate

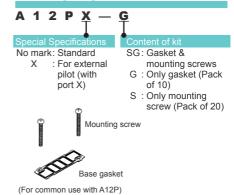


Manifold gasget





Base gasget

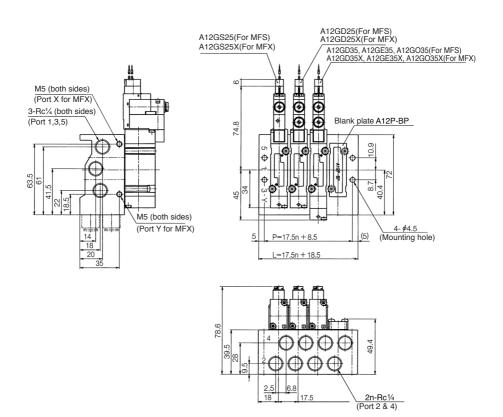




MFS□-A12G-02, MFX□-A12G-02

(Unit: mm)

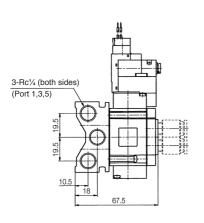


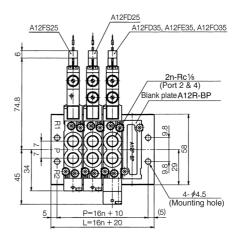


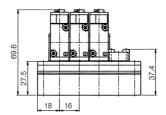
MFU□-A12F-01

(Unit: mm)









ADEX A20G Series

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

A20GS25

2-position, single solenoid

A20GD25

A20GD35

A20GE35

A20G035

3-position, PAB connect



Specificiations

-р	Poemerations								
Model No.			Unit	A20GS25	A20GD25	A20GD35	A20GE35	A20GO35	
Fluid				Non-lubricated/lubricated air					
Port size					RC ½,3/8				
Effective area			mm²	20.6	3	15	5.9	20.5	
Cv value				1.13 0.87			1.13		
Operating ambie	nt temperatu	ire	°C			-5~50			
-			MPa	0.15~0.7	0.1~0.7	0.2~0.7			
Pressure range	Pressure range			-0.1~0.7 For external pilot operation					
Maximum Freque	ency		cycle/min	300 200					
Response Time	DC	ON	s	0.018	0.015		0.018		
	DC	OFF	S	0.032 (0.038)	_	0.091 (0.097)		')	
Pilot air exhaut				Captured exhaust					
Manual override				Screw driver-operated locking button					
Mounting position	า			Free					
Shock resistance, vibration resistance			m/s²	150/30					
Moight	Without sub	o-base	g	95	104		112		
Weight	With sub-ba	ase	g	336	346	354			



- •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

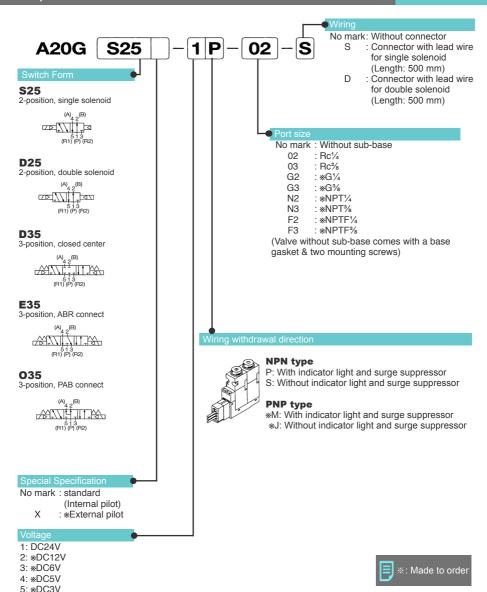
 Response time shown above is in accordance with JIB B 8375

- •Effective area shown above is a value between ports 1 and 2, 4

Electrical Specifications

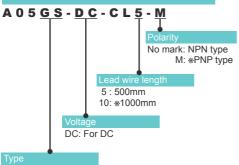
Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption		0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)
Grade of Insulation		JIS grade E
Wiring		Plug-in connector
Surge suppressor		Diode
Indicator light		LED







Connector with lead wire



GS: For GF type single solenoid

GD: For GF type double solenoid

For GF type single solenoid

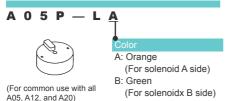


For GF type double solenoid



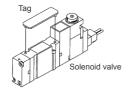
(For common use with GF type of A05, A12, and A20)

Locking cover



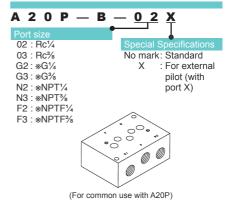
Tag for solenoid valve

A 0 5 P — N (Pack of 10)

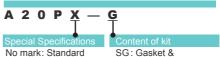


(For common use with sub-base mounting type of A05, A12, and A20)

Sub-base



Base gasket

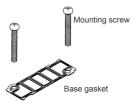


: For external

pilot (with port X)

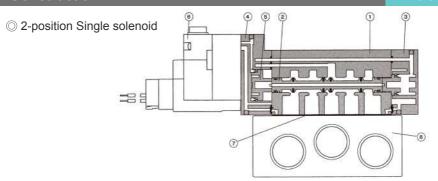
mounting screws G: Only gasket (Pack of 10)

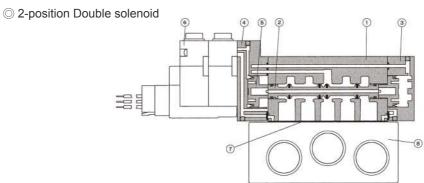
S: Only mounting screw (Pack of 20)

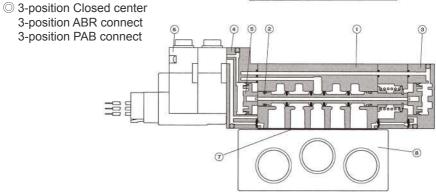


(For common use with A20P)







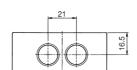


Main Component

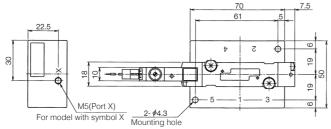
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series
7	Base gasket	NBR
8	Sub-base	Alluminium die-casting

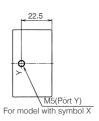


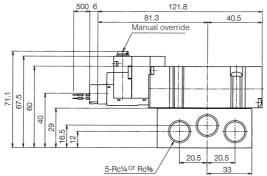
A20GS25 (Unit: mm)



Connector position: P or S(M or J)

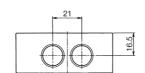




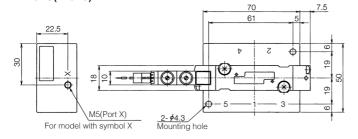


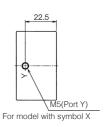


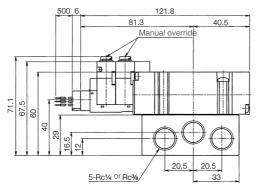
A20GD25 (Unit: mm)



Connector position: P or S(M or J)



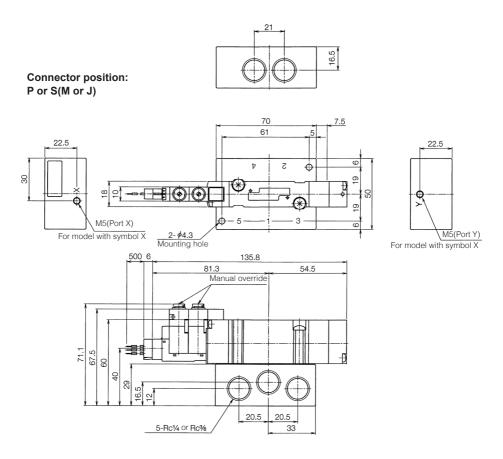






A20GD35, A20GE35, A20GO35

(Unit: mm)





ADEX A20F Series

5 Port Pilot Operated Solenoid Valve Rubber Seal/In-line Mounting type

A20FS25

A20FD25

2-position, double solenoid

A20FD35

A20FE35

A20F035

3-position, PAB connect



Specificiations

opcomorati	peciniciations								
Model No.			Unit	A20FS25	A20FD25	A20FD35	A20FE35	A20FO35	
Fluid					Non-lubricated/lubricated air				
Port size				port 2	2,4: Rc¼ p	ort 1: Rc¼	port 3,5: R	C½	
Effective area			mm²	17.	6	15	15.7		
Cv value				0.9	0.97 0.86			1.00	
Operating ambient temperature			°C		-5~50				
Pressure range	Pressure range			0.15~0.7	0.1~0.7	0.2~0.7			
Maximum Freque	ency		cycle/min	300 200					
Response Time	DC	ON	S	0.018	0.015	0.018			
		OFF	s	0.032 (0.038)	_	(0.091 (0.097)		
Pilot air exhaut				Individual exhaust					
Manual override				Screw driver-operated locking button					
Mounting position				Free					
Shock resistance tance	e, vibration	resis-	m/s²	150/30					
Weight			g	120 130 138					

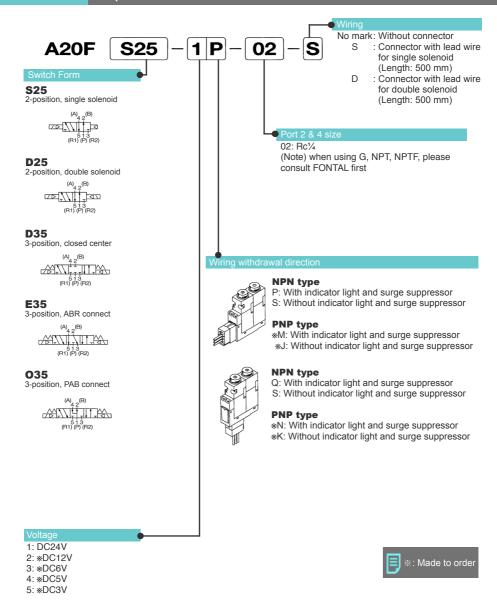


- Service kit not available
- Service kit not available
 Supply complete-dry air to avoid freezing when temperature of valve site falls below 5°C
 Pressure range of external pilot supply: 0.25-0.7MPa
 Response time in bracket () is displayed with surge suppressor
 Response time shown above is in accordance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

Electrical Specifications

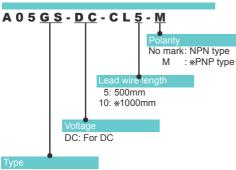
Rated voltage	V	DC24, 12, 6, 5, 3
Permissible voltage fluctuation		+10, -10
Power consumption		0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)
Grade of Insulation		JIS grade E
Wiring		Plug-in connector
Surge suppressor		Diode
Indicator light		LED







Connector with lead wire



- GS: For GF type single solenoid
- GD: For GF type double solenoid

For GF type single solenoid

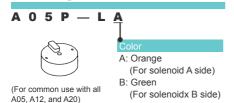


For GF type double solenoid

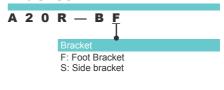


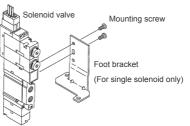
(For common use with GF type of A05, A12, and A20)

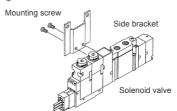
Locking cover



Bracket



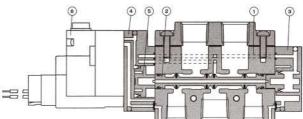




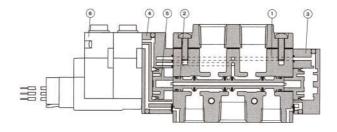
Note: Gasket(s) and mounting screws are provided (For common use with A20R)

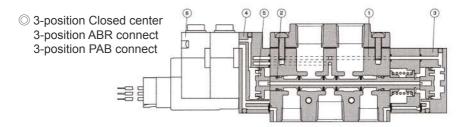


© 2-position Single solenoid



© 2-position Double solenoid





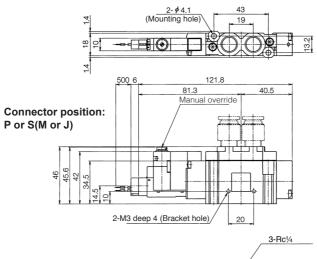
Main Component

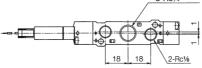
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series



A20FS25

(Unit: mm)





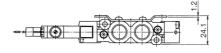
75 40.1 500,6 64.3

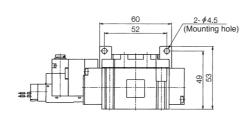
Connector position: Q or B(N or K)

Manual locking cover

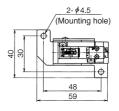






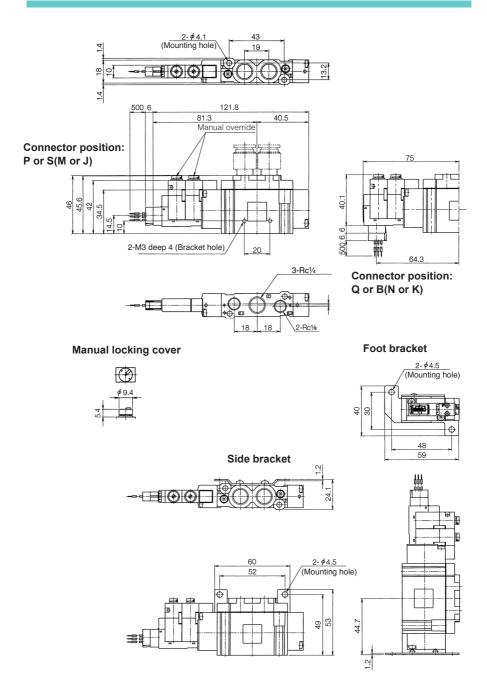


Foot bracket



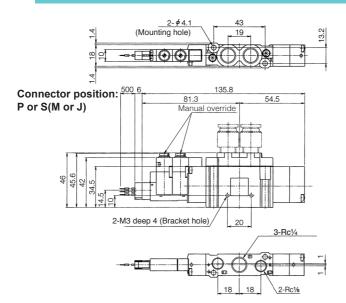


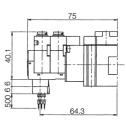
A20FD25 (Unit: mm)



A20FD35, A20FE35, A20FO35

(Unit: mm)



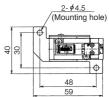


Connector position: Q or B(N or K)

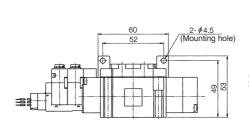
Manual locking cover



Foot bracket









ADEX MFO-A20G, A20F

Individual Wiring Type Manifold Bar Type

MFS□-A20G

Common SUP, common exhaust, ports 2 & 4 on the side

MFX□-A20G

Common SUP, common exhaust, common external pilot, ports 2 & 4 on the side

MFU□-A20F

Common SUP, common exhaust, ports 2 & 4 on the valve body



Manifold Specifications

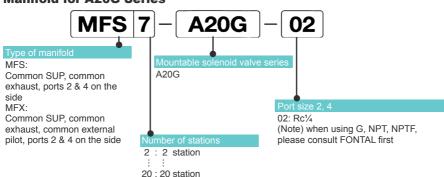
		For A20G	Series	For A20F Series		
		MFS□-A20G	MFX□-A20G	MFU□-A20F		
Type of manifol	d	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, common external pilot, pilot valve captured exhaust, ports 2 & 4 on the side	Common SUP, common exhaust, pilot valve captured exhaust, ports 2 & 4 on the valve body		
	Ports 1, 3, 5	Rc¼	Rc¼	Rc1/4		
Port size	Ports 2, 4	Rc¼	Rc¼	Rc¼		
Port size	Port Y	_	M5	_		
	Port X	_	M5	_		
Number of stati	ons	2~20				
Installation		Direct mount				
Mountable solenoid valve		A20GS25 A20GD25 A20GD35 A20GE35 A20GO35	A20GS25X A20GD25X A20GD35X A20GE35X A20GO35X	A20FS25 A20FD25 A20FD35 A20FE35 A20FO35		
Blank plate		A20P-E	 BP	A20R-BP		



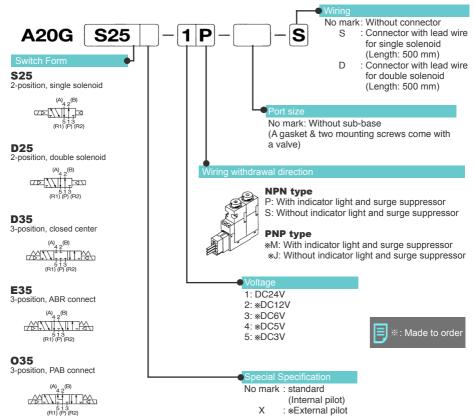
Tagging method

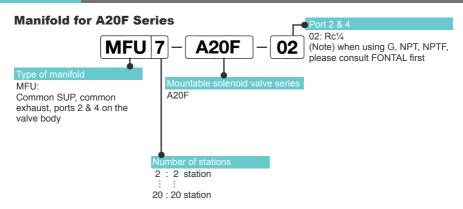
 Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.

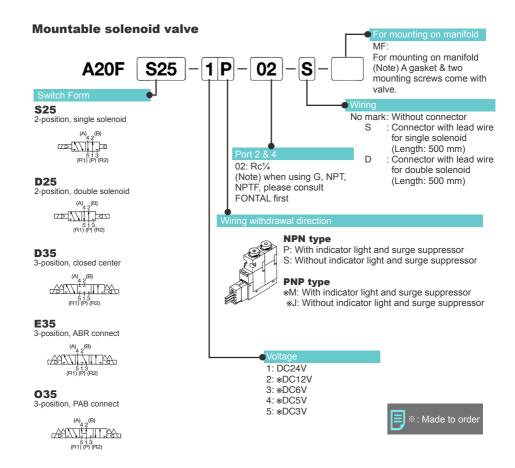
Manifold for A20G Series



Mountable solenoid valve







Connector with lead wire



GS: For GF type single solenoid GD: For GF type double solenoid

For GF type single solenoid



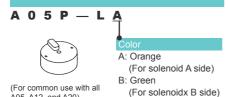
For GF type double solenoid



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

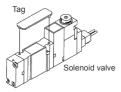
Locking cover

A05, A12, and A20)



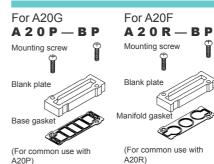
Tag for solenoid valve

A 0 5 P — N (Pack of 10)

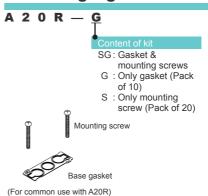


(For common use with sub-base mounting type of A05, A12, and A20)

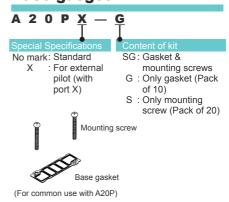
Blank plate



Manifold gasget



Base gasget



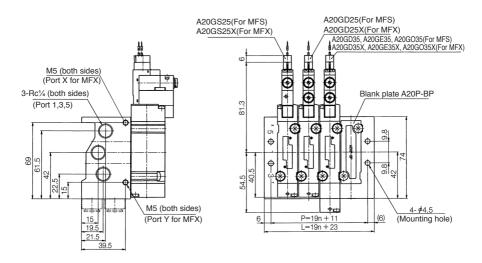


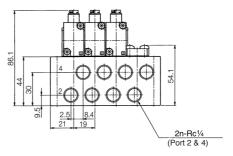


MFS□-A20G-02, MFX□-A20G-02

(Unit: mm)



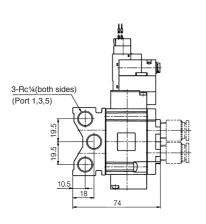


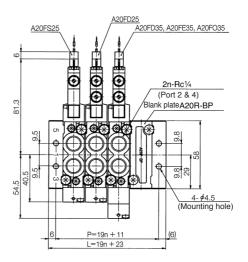


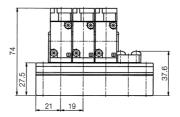
MFU□-A20F-02

(Unit: mm)









ADEX VALVE

A00S Series



ADEX A00S Series

3 Port Direct Operated Solenoid Valve Poppet Seal/Sub-base Mounting type

A00S023

2-position, single solenoid, normal open

A00SC23

2-position, double solenoid normal closed





Specificiations

Specificiat	ions								
Model No.			Unit	A00SO23	A00SC23	A00SO23J	A00SC23J		
Fluid	Fluid			Non-lubricated/lubricated air					
Port size					M3				
Effective area			mm ²	0.	14	0.22			
Cv value				0.0	800	0.0)12		
Operating ambi	ient tempe	erature	°C		-5~	-50			
Pressure range			MPa	0~0.5	0~0.7	0~0.5	0~0.7		
Vacuum application		MPa	-0.1~0.4 Port 3 → Vacuum Port 1 → Pressured air	-0.1~0.6 Port 1 → Vacuum Port 3 → Pressured air	-0.1~0.5 Port 3 → Vacuum Port 1 → Pressured air	-0.1~0.6 Port 1 → Vacuum Port 3 → Pressured air			
Maximum Freq	uency		cycle/min	600					
	D.C.	ON	S		0.0	05			
Response	DC	OFF	S		0.005	(0.01)	1)		
Time	4.0	ON	S	0.0	009	_	_		
	AC	OFF	S	0.01		_			
Manual override	е			Si	crewdriver-opera	ited locking butto	on		
Mounting position			Free						
Shock resistance.vibration resistance		m/s ²	150/30						
\^/-:	Without s	sub-base	g		12	2.6			
Weight	With sub-	-base	g		20.6				

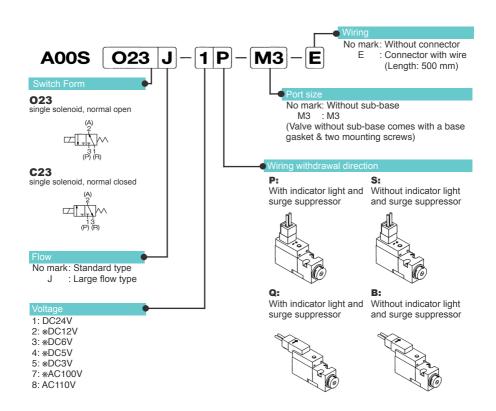




- When temperature of valve site goes down blow 5°C, complete dry air shall be supplied to prevent from freezing.
- Response time in bracket () is displayed with surge suppressor
- Response time shown above is in accordance with JIB B 8375
- Effective area shown above is a value between ports 1 and 2, 4

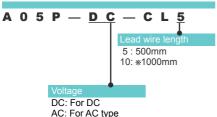
Electrical Specifications

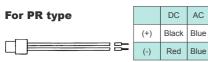
Rated voltage DC AC		DC	V	24, 12, 6, 5, 3		
		AC	V	110 (50/60Hz)	_	
Permissible voltage fluctuation			%	+10, -10		
Power consumption	DC		W	0.6 (with indicator light and surge suppressor), 0.55 (without indicator light and surge suppressor)	0.91 (with indicator light and surge suppressor), 0.86 (without 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





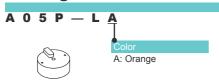
(For common use with PR type of A05, A12, A20, and A00S)

Sub-base





Locking cover

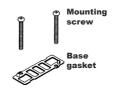


(For common use with all A05, A12, and A20, and A00S)

Base gasket

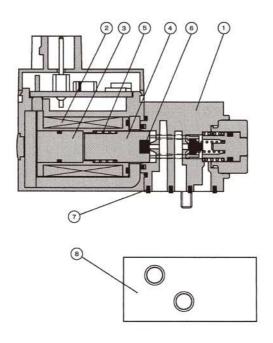


G : Only gasket (Pack of 10)
S : Only mounting screw (Pack of 20)





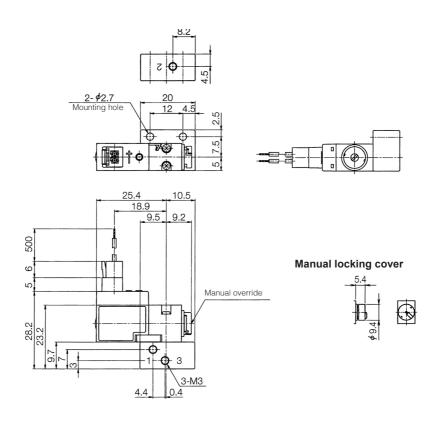




Main Component

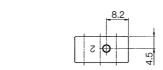
No.	Description	Material
1	Body	Zinc die-casting
2	Spool assembly	Aluminium alloy/NBR
3	End cover	Resin
4	Piston head	Resin
5	Piston	Resin
6	Pilot valve	Refer to A00 Series
7	Base gasket	NBR
8	Sub-base	Alluminium die-casting

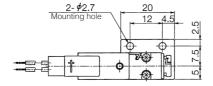


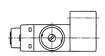


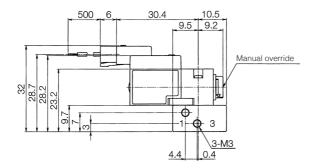
A00SO23-□Q(B), A00SC23-□Q(B)

(Unit: mm)











ADEX MFS - A00S

Individual Wiring Type Manifold Bar type

MFS□-A00S Common SUP, Common EXH Port 2 on side



Manifold Specificiations

mamora opcomorations					
Type Manifold		MFS□-A00S			
		Common SUP, Common EXH Port 2 on side			
Port size	Port 1,3	M5			
	Port 2	M3, M5			
Number of stations		2~20			
Mounting		Direct Mount			
Mountable solenoid valve		A00SO23,A00SO23J A00SC23,A00SC23J			
Blank plate		A00S-BP			

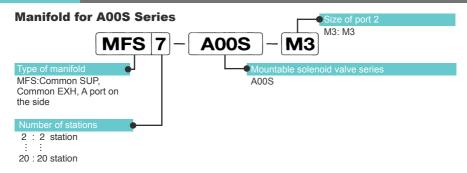


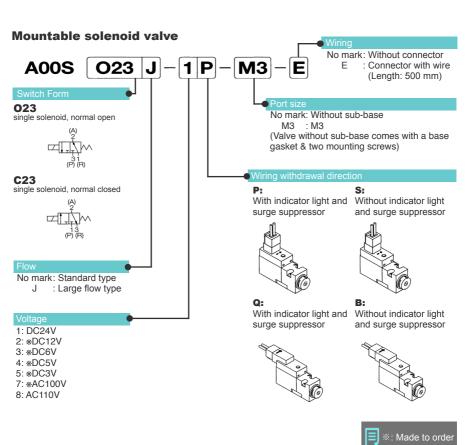
• A00SO23(J) cannot be mounted on the same mainfold together with A00SC23(J).

When Ordering

Specify the type and number of manifolds and solenoid valves, as well as number of blank plate if needed.



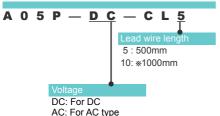


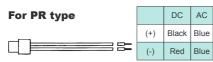






Connector with lead wire





(For common use with PR type of A05, A12, A20, and A00S)

Base gasket



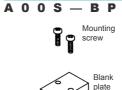


Locking cover



(For common use with all A05, A12, and A20, and A00S)

Blank plate

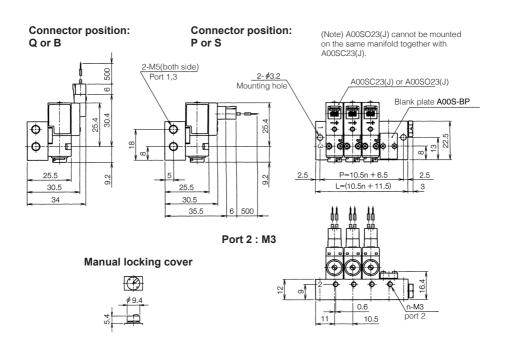








MFS□-A00S-M3 (Unit: mm)



Port 2 : M5

port 2