



7S Series Integrated solenoid valve (5/2 way, 5/3 way)

Compendium of 7S Series

Various port type options

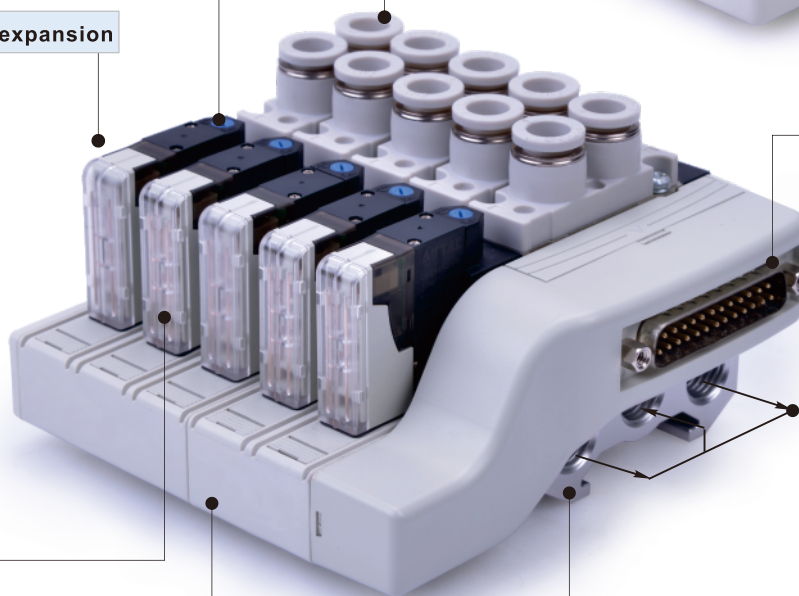
Port threads and push-in fittings options.

With Manual Override

With manual override for easy installation and adjustment.



Flexible installation and expansion



Single Power Inlet

Two kinds of electricity are optional, easy to use in all kinds of environment.

Centralized inlet and exhaust design

Transfer block design

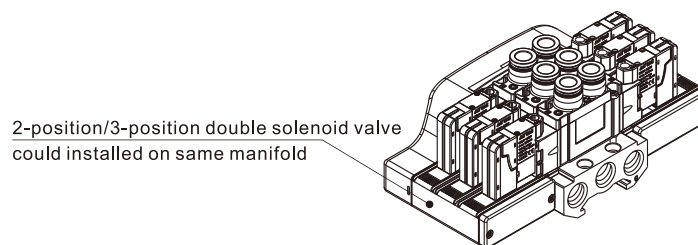
Steady signal transmission by transfer block design.

Easily install on manifold

Easily install on manifold and could single assembly or install with a DIN rail.

The Manifold is interchangeable

2-position/3-position solenoid valve can install on double controlled solenoid manifold at the same time.



2-position/3-position double solenoid valve could installed on same manifold



Integrated solenoid valve (5/2 way, 5/3 way)

7S Series

Specification(Integrated valves)

Model			7S0500	7S100	7S200
Fluid			Air(to be filtered by 40 μ m filter element)		
Stations	Single solenoid		2 stations ~20 stations		
	Double solenoid		3 stations ~20 stations[Note1]		
Electrical direction			V: Vertical H: Horizontal		
Electrical entry			Terminal, 25pin D-Sub(Single control)		
			Terminal, 37pin D-Sub(Double control)		
Port size [Note2]	A/B	Thread	M5	1/8"	1/4"
	Port	Push-in fitting	Φ4Push-in fitting	Φ4/Φ6/Φ8Push-in fitting	Φ8/Φ10Push-in fitting
	P/R/S Port		1/8"	1/4"	1/4"
The type of inlet and exhaust			Centralized inlet and exhaust		
Operating pressure			0.15~0.8MPa(21~114psi)		
Proof pressure			1.2MPa(175psi)		
Shock Resistance			50G		
Temperature			-20~70℃		

[Note 1] Allow Max. 6 stations double solenoid valve and single solenoid at the rest stations.

[Note1] PT thread and G thread and NPT thread are available.

Specification(Coil)

Item	Specification
Standard voltage	DC24V; DC12V
Scope of voltage	DC: ±10%
Power consumption	DC: 0.9W
Protection	Dustproof
Temperature classification	F Class

Ordering code of blank plate kit

P-7V100M -R2

① ②

①Model	7V0500M: 7V0500 Series manifold 7V100M: 7V100 Series manifold 7V200M: 7V200 Series manifold
②Code	R2: Blank plate for manifold

[Note] 1. Blank plate kits contains blank plate and screws.

Product feature

1. Integrated installation of air inlet/exhaust and power socket(25/37 pin D-SUB) to simplify wiring process and reduce the risk of mis-installation.
2. 7V valves are connected to the sub-base of 7V via a robust adapter with 50G shock resistance.
3. The manifold can be either installed on a working platform or with a DIN rail.
4. 2-position and 3-position solenoid valves can be installed on the same manifold without extra accessories.
5. Equipped with manual override for adjustment and troubleshooting.
6. Low starting voltage and long service life.

7S Integrated Single Solenoid Valves Ordering code

7S 05 H 20F □ - J04 B S20

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



Thread type



Tube type



Vertical type



Horizontal type

① Model		7S: Integrated solenoid valve(5/2, 5/3 way)		
② Code		05: 0500 Series	1: 100 Series	2: 200 Series
③ Electrical direction		V: Vertical H: Horizontal		
④ Number of stations		2F: 2 Stations 3F: 3 Stations 4F: 4 Stations 20F: 20 Stations		
⑤ Thread type		-	Blank: PT / G: G Thread / T: NPT Thread	
⑥ Port size	Thread	M5: M5	06: 1/8"	08: 1/4"
	Tube	J04: Φ4mm	J04: Φ4mm/J06: Φ6mm/J08: Φ8mm	J08: Φ8mm/J10: Φ10mm
⑦ Voltage		B: DC24V F: DC12V		
⑧ Number of valves(Single solenoid)		S1: 1 Piece S2: 2 Pieces S3: 3 Pieces S20: 20 Pieces		

[Note]: Blank plate and dust-proof cover will be installed when solenoid valve is not installed.

Integrated solenoid valve (5/2 way, 5/3 way)

7S Series

7S Integrated Double Solenoid Valves Ordering code

7S 05 H 20F □ - J04 B C1 E1 P1 D1 S16

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



① Model		7S: Integrated solenoid valve(5/2, 5/3 way)		
② Code		05: 0500 Series	1: 100 Series	2: 200 Series
③ Electrical direction		V: Vertical H: Horizontal		
④ Number of stations		3F: 3 Stations	4F: 4 Stations	20F: 20 Stations
⑤ Thread type		Blank: PT / G: G Thread / T: NPT Thread		
⑥ Port size	Thread	M5: M5		
	Tube	J04: Φ4mm J06: Φ6mm/J08: Φ8mm J08: Φ8mm/J10: Φ10mm		
⑦ Voltage		B: DC24V F: DC12V		
⑧ Number of valves [Note]	30C	Blank: No	C1: 1 Piece	C2: 2 Pieces C6: 6 Pieces
	30E	Blank: No	E1: 1 Piece	E2: 2 Pieces E6: 6 Pieces
	30P	Blank: No	P1: 1 Piece	P2: 2 Pieces P6: 6 Pieces
	Double solenoid	Blank: No	D1: 1 Piece	D2: 2 Pieces D6: 6 Pieces
	Single solenoid	Blank: No	S1: 1 Piece	S2: 2 Pieces S20: 20 Pieces

[Note]: 1. Order of solenoid valve arrangement:

- A) Double solenoid 5/3 Way: C→E→P; B) Double solenoid 5/2 Way; C) Single solenoid 5/2 Way.
2. Blank plate and dust-proof cover will be installed when solenoid valve is not installed.
3. Flexible choice of the number of single or double solenoid valves, and up to 6 stations of double solenoid.

Manifold(without 7S valve)Ordering code

7S 05 H D 20F D9 G

① ② ③ ④ ⑤ ⑥ ⑦



Single solenoid(25pin)



Double solenoid(37pin)

① Model		7S: Integrated solenoid valve(5/2, 5/3 way)		
② Code		05: 0500 Series	1: 100 Series	2: 200 Series
③ Electrical direction		V: Vertical H: Horizontal		
④ Control type		S: Single solenoid D: Double solenoid		
⑤ Number of total stations		2F: 2 Stations	3F: 3 Stations	4F: 4 Stations.....20F: 20 Stations
⑥ Number of double solenoid stations		Blank: Single solenoid D3: 3 Stations D6: 6 Stations		
⑦ Port size		Blank: PT / G: G Thread / T: NPT Thread		

[Note]:

1. Number of double solenoid stations ≤ 6 stations. The ordering type is : 3 stations, 6 stations.
2. Manifold has only S side when control type is single solenoid.
3. Manifold contains manifold and seals.

Ordering code for 7S valve

7S 1 10 06 B □

① ② ③ ④ ⑤ ⑥



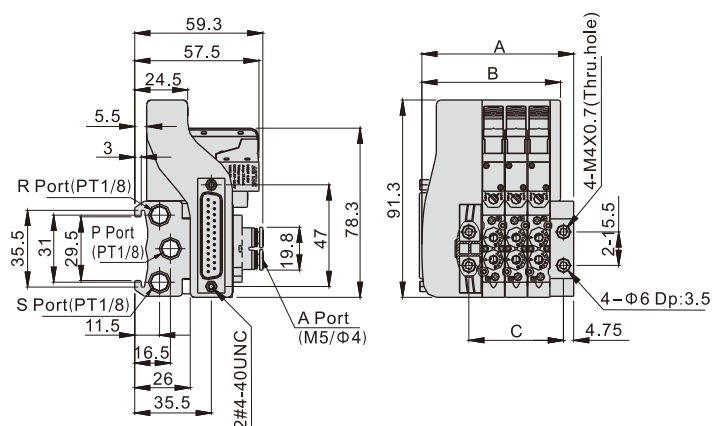
① Model		7S: Solenoid valve (5/2, 5/3 way)		
② Code		05: 0500 Series	1: 100 Series	2: 200 Series
③ Valve type		10: Single solenoid 5/2 way 20: Double solenoid 5/2 way		
		30C: Double solenoid 5/3 way closed center 30E: Double solenoid 5/3 way exhaust center		
		30P: Double solenoid 5/3 way pressure center		
④ Port size	Thread	M5: M5		
	Tube	J04: Φ4mm J06: Φ6mm/J08: Φ8mm J08: Φ8mm/J10: Φ10mm		
⑤ Voltage		B: DC24V F: DC12V		
⑥ Thread type		Blank: PT / G: G Thread / T: NPT Thread		

Integrated solenoid valve (5/2 way, 5/3 way)

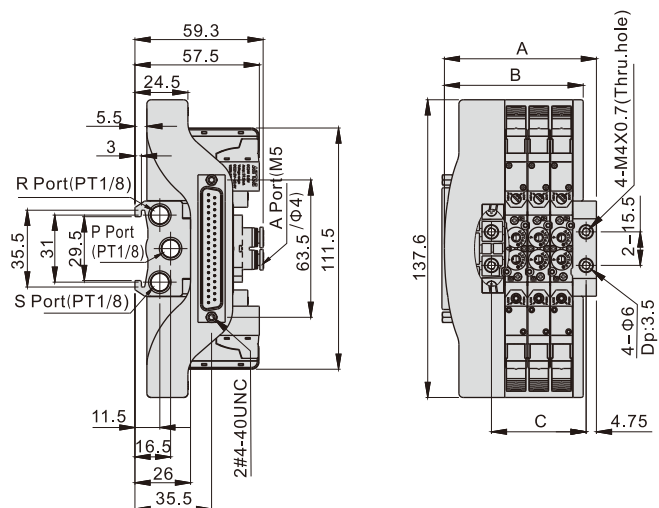
7S Series

Dimensions

7S0500(Single solenoid/H type)



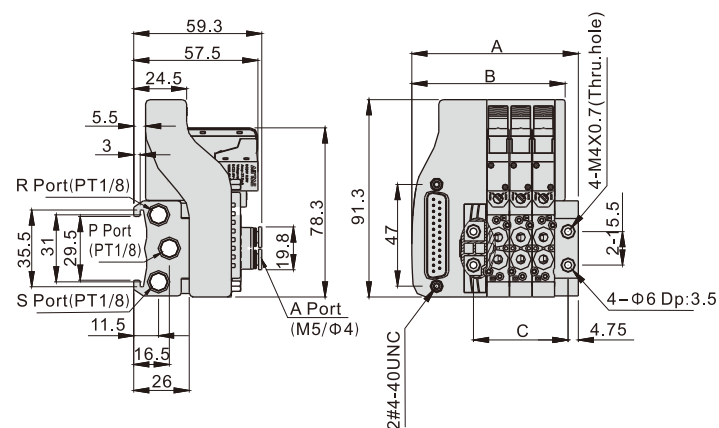
7S0500(Double solenoid/H type)



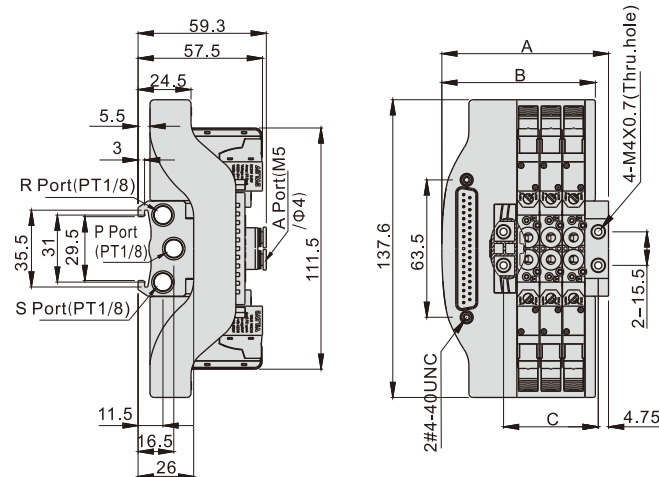
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A	59.8	70.3	80.8	91.3	101.8	112.3	122.8	133.3	143.8	154.3	164.8	175.3	185.8	196.3	206.8	217.3	227.8	238.3	248.8
B	53.7	64.2	74.7	85.2	95.7	106.2	116.7	127.2	137.7	148.2	158.7	169.2	179.7	190.2	200.7	211.2	221.7	232.2	242.7
C	33.3	43.8	54.3	64.8	75.3	85.8	96.3	106.8	117.3	127.8	138.3	148.8	159.3	169.8	180.3	190.8	201.3	211.8	222.3

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

7S0500(Single solenoid/V type)



7S0500(Double solenoid/V type)



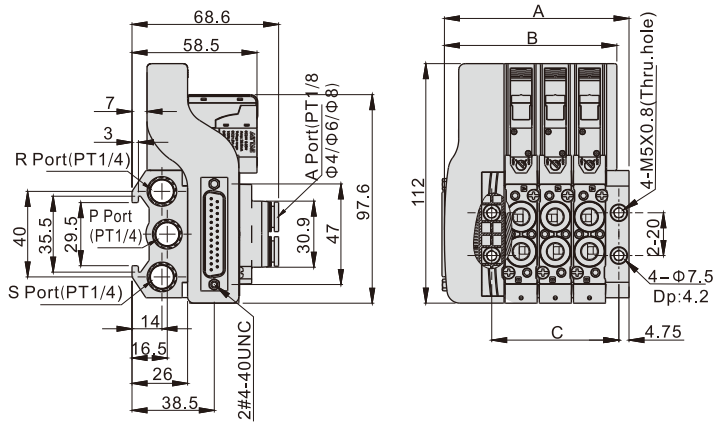
Item\Stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	66.6	77.1	87.6	98.1	108.6	119.1	129.6	140.1	150.6	161.1	171.6	182.1	192.6	203.1	213.6	224.1	234.6	245.1	255.6
B	60.5	71	81.5	92	102.5	113	123.5	134	144.5	155	165.5	176	186.5	197	207.5	218	228.5	239	249.5
C	33.3	43.8	54.3	64.8	75.3	85.8	96.3	106.8	117.3	127.8	138.3	148.8	159.3	169.8	180.3	190.8	201.3	211.8	222.3

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

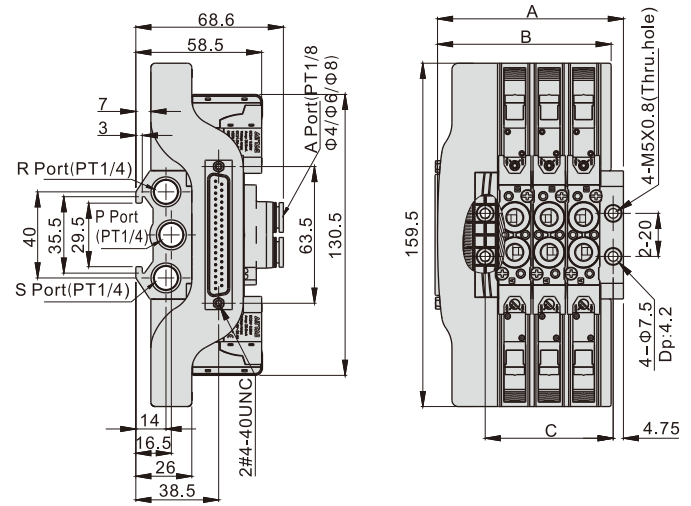
Integrated solenoid valve (5/2 way, 5/3 way)

7S Series

7S100(Single solenoid/H type)



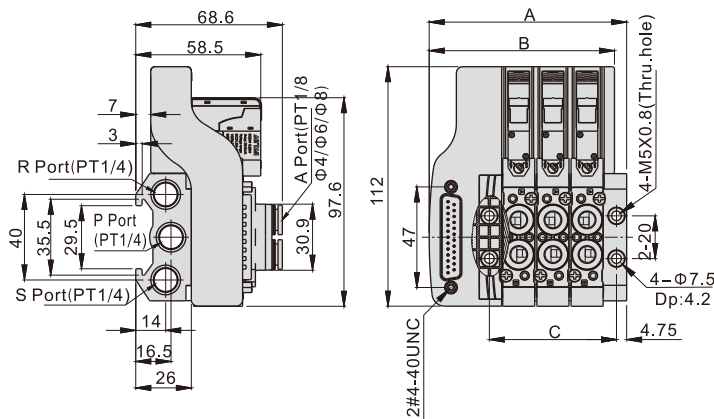
7S100(Double solenoid/H type)



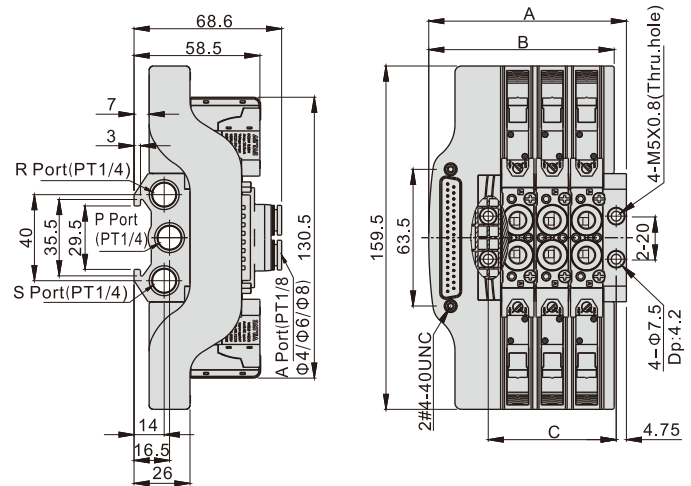
Item\Stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	70.4	86.4	102.4	118.4	134.4	150.4	166.4	182.4	198.4	214.4	230.4	246.4	262.4	278.4	294.4	310.4	326.4	342.4	358.4
B	64.7	80.7	96.7	112.7	128.7	144.7	160.7	176.7	192.7	208.7	224.7	240.7	256.7	272.7	288.7	304.7	320.7	336.7	352.7
C	43.5	59.5	75.5	91.5	107.5	123.5	139.5	155.5	171.5	187.5	203.5	219.5	235.5	251.5	267.5	283.5	299.5	315.5	331.5

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

7S100(Single solenoid/V type)



7S100(Double solenoid/V type)



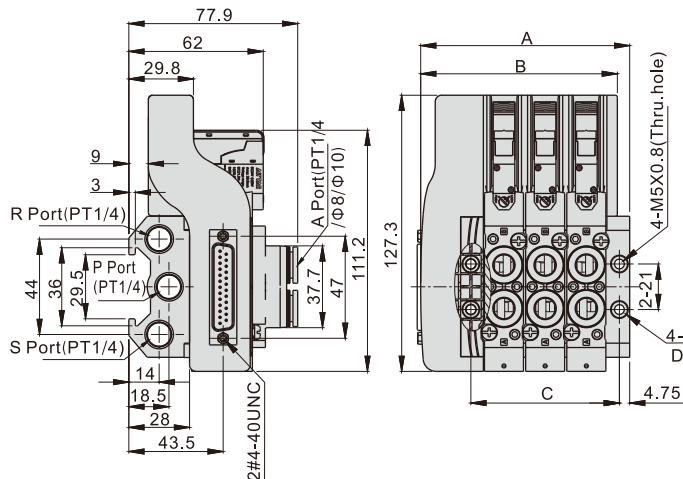
Item\Stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	75.9	91.9	107.9	123.9	139.9	155.9	171.9	187.9	203.9	219.9	235.9	251.9	267.9	283.9	299.9	315.9	331.9	347.9	363.9
B	70.2	86.2	102.2	118.2	134.2	150.2	166.2	182.2	198.2	214.2	230.2	246.2	262.2	278.2	294.2	310.2	326.2	342.2	358.2
C	43.5	59.5	75.5	91.5	107.5	123.5	139.5	155.5	171.5	187.5	203.5	219.5	235.5	251.5	267.5	283.5	299.5	315.5	331.5

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

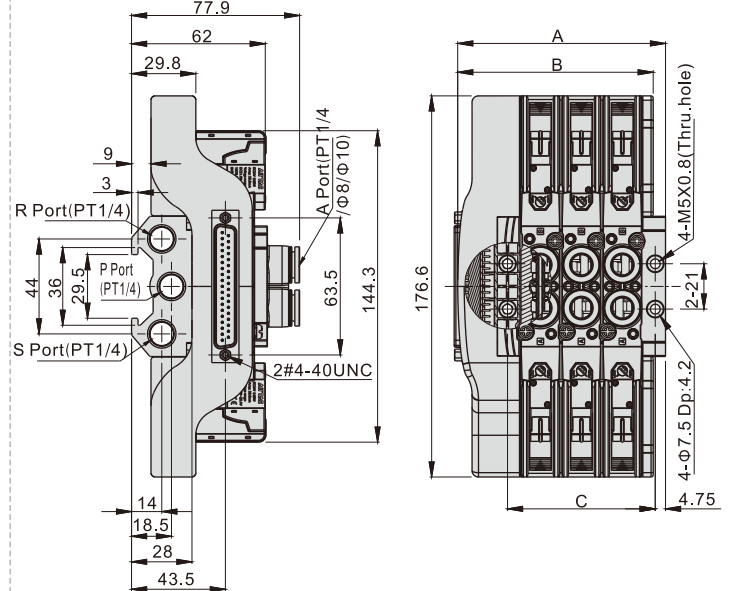
Integrated solenoid valve (5/2 way, 5/3 way)

7S Series

7S200(Single solenoid/H type)



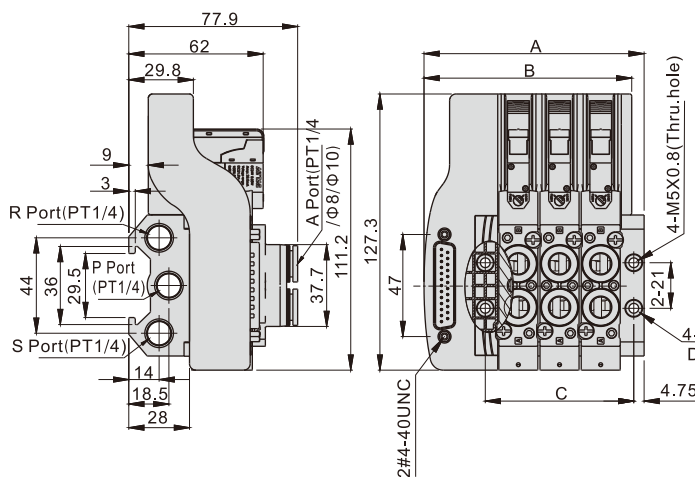
7S200(Double solenoid/H type)



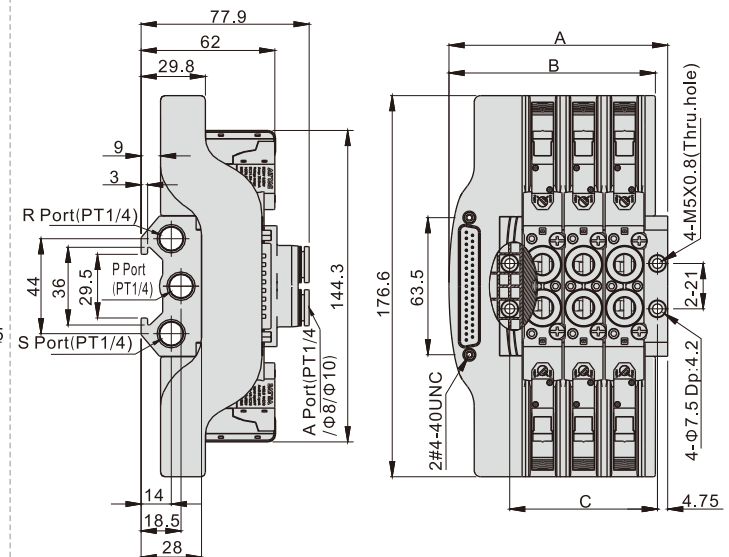
Item\Stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	77.4	96.4	115.4	134.4	153.4	172.4	191.4	210.4	229.4	248.4	267.4	286.4	305.4	324.4	343.4	362.4	381.4	400.4	419.4
B	71.7	90.7	109.7	128.7	147.7	166.7	185.7	204.7	223.7	242.7	261.7	280.7	299.7	318.7	337.7	356.7	375.7	394.7	413.7
C	49.5	68.5	87.5	106.5	125.5	144.5	163.5	182.5	201.5	220.5	239.5	258.5	277.5	296.5	315.5	334.5	353.5	372.5	391.5

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

7S200(Single solenoid/V type)



7S200(Double solenoid/V type)



Item\Stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	82.5	101.5	120.5	139.5	158.5	177.5	196.5	215.5	234.5	253.5	272.5	291.5	310.5	329.5	348.5	367.5	386.5	405.5	424.5
B	76.8	95.8	114.8	133.8	152.8	171.8	190.8	209.8	228.8	247.8	266.8	285.8	304.8	323.8	342.8	361.8	380.8	399.8	418.8
C	49.5	68.5	87.5	106.5	125.5	144.5	163.5	182.5	201.5	220.5	239.5	258.5	277.5	296.5	315.5	334.5	353.5	372.5	391.5

Note : Single solenoid stations is 2~20 stations; Double solenoid stations is 3~20 stations.

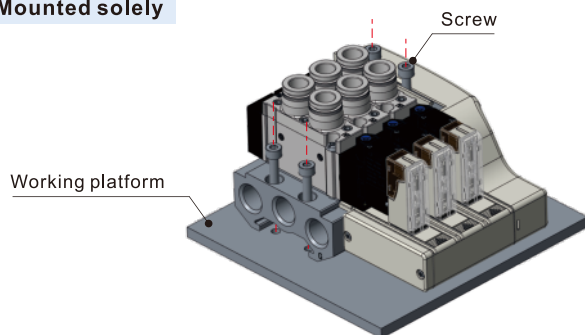
Integrated solenoid valve (5/2 way, 5/3 way)

7S Series

Installation and Application

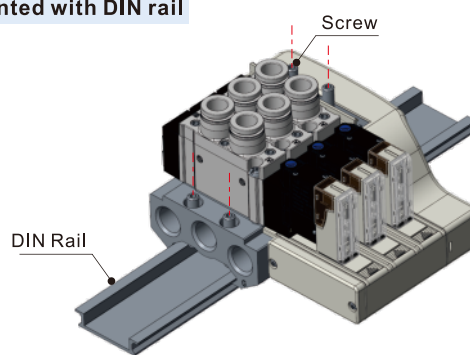
1. How to mount manifold: Can be mounted solely or be mounted with DIN rail.

Mounted solely



Fastened to the platform by 4-M4X0.7(7S100,7S200) or M3X0.5(7S0500) screws

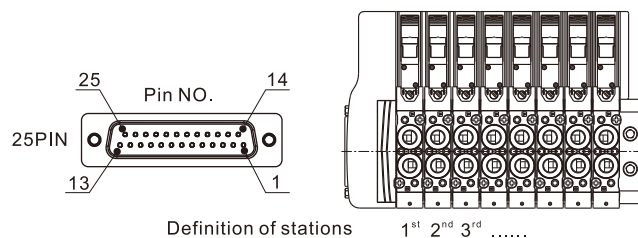
Mounted with DIN rail



Fastened to the DIN rail by 4-M5X0.8(7S100,7S200) or M4X0.7(7S0500) screws

2. Pin Assignment:

Single solenoid

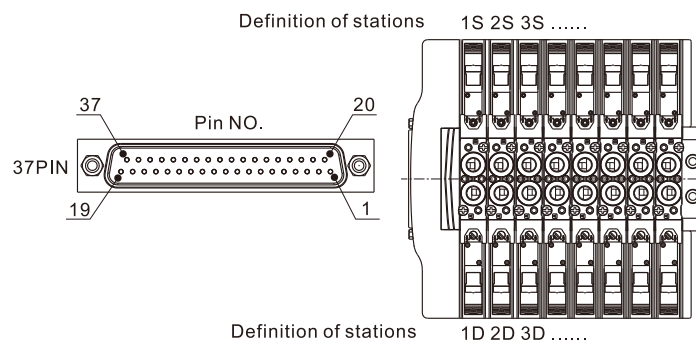


Definition of stations 1st 2nd 3rd

Pin No.	Polarity		Control target	Pin No.	Polarity		Control target
	-COM	+COM			-COM	+COM	
1	(+)	(-)	1 Station	14	(+)	(-)	2 Station
2	(+)	(-)	3 Station	15	(+)	(-)	4 Station
3	(+)	(-)	5 Station	16	(+)	(-)	6 Station
4	(+)	(-)	7 Station	17	(+)	(-)	8 Station
5	(+)	(-)	9 Station	18	(+)	(-)	10 Station
6	(+)	(-)	11 Station	19	(+)	(-)	12 Station
7	(+)	(-)	13 Station	20	(+)	(-)	14 Station
8	(+)	(-)	15 Station	21	(+)	(-)	16 Station
9	(+)	(-)	17 Station	22	(+)	(-)	18 Station
10	(+)	(-)	19 Station	23	(+)	(-)	20 Station
11	Void			24	Void		
12	Void			25	Void		
13	(-)	(+)	COM				

[Note] Gauge number of cable connection to D-SUB pin No.13(COM) must be ≤22AWG.

Double solenoid



Definition of stations 1D 2D 3D

Pin No.	Polarity		Control target	Pin No.	Polarity		Control target
	-COM	+COM			-COM	+COM	
1	(+)	(-)	1S	20	(+)	(-)	1D
2	(+)	(-)	2S	21	(+)	(-)	2D
3	(+)	(-)	3S	22	(+)	(-)	3D
4	(+)	(-)	4S	23	(+)	(-)	4D
5	(+)	(-)	5S	24	(+)	(-)	5D
6	(+)	(-)	6S	25	(+)	(-)	6D
7	(+)	(-)	7S	26	(+)	(-)	7D
8	(+)	(-)	8S	27	(+)	(-)	8D
9	(+)	(-)	9S	28	(+)	(-)	9D
10	(+)	(-)	10S	29	Void		
11	(+)	(-)	11S	30	Void		
12	(+)	(-)	12S	31	Void		
13	(+)	(-)	13S	32	(+)	(-)	14S
14	(+)	(-)	15S	33	(+)	(-)	16S
15	(+)	(-)	17S	34	(+)	(-)	18S
16	(+)	(-)	19S	35	(+)	(-)	20S
17	Void			36	Void		
18	Void			37	Void		
19	(-)	(+)	COM				

[Note] Gauge number of cable connection to D-SUB pin No.19(COM) must be ≤22AWG.