

Rated voltage		24 V DC	100 V AC (100 V DC)	200 V AC
Allowable voltage range		Rated voltage \pm 10%		
Starting current	50/60Hz	—	165 mA (—)	80 mA
Holding current	50/60Hz	710mA	165 mA (190 mA)	80 mA
Power consumption	50/60Hz	17W	16.5 VA (19 W)	16 VA
Allowable circuit leakage current value		71 mA or less	21 mA or less	10 mA or less
Insulation class		Class B		
Wiring part protective structure		Equivalent to IP65 (in the case of DIN socket method)		
Wiring method		Lead wire method (2000 mm), terminal method, DIN socket method		
Lead wire color		White/black	Blue	Red
Electric circuit		Same electric circuits as those of above general-purpose solenoid valves		

Manifold Specifications

Name		Mono-manifold		
Model number		M0806-**-3AC	M0806-**-2AC	M0806-**-2AC07
Max. number of stations		10 stations		
Number of stations		2・3・4・5・6・7・8・9・10		
Exhaust type		Individual valve exhaust		
Port size	P	G1/4		
	A	G1/8		
Piping specification		Side piping		
Applicable valve	3AP-08M20	2AC-08M20	2AC-08M20-07	
	3AC-08M20	2AC-08M32	2AC-08M32-07	
	2AP-08M20			
Seal plate		M0806-AS		

Valve Weight

Unit: kg

Item			2-port		3-port	
			2-position		2-position	
			Normally closed	Normally open	Normally closed	Normally open
Model number (general-purpose type)	Direct type	Orifice φ2.0	2AC-08E20	2AP-08E20	3AC-08E20	3AP-08E20
		Orifice φ3.2	2AC-08E32	—	—	—
	Valve for manifold	Orifice φ2.0	2AC-08M20	2AP-08M20	3AC-08M20	3AP-08M20
		Orifice φ3.2	2AC-08M32	—	—	—
Model number (high pressure type)	Direct type	Orifice φ2.0	2AC-08E20-07	—	—	—
		Orifice φ3.2	2AC-08E32-07	—	—	—
	Valve for manifold	Orifice φ2.0	2AC-08M20-07	—	—	—
		Orifice φ3.2	2AC-08M32-07	—	—	—
Weight	General-purpose type		0.35	0.35	0.35	0.35
	High pressure type		0.35	—	—	—

Manifold Weight

Unit: kg

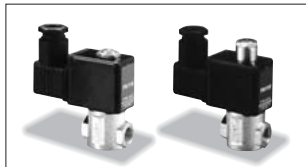
Type	Model number	Number of stations								
		2 stations	3 stations	4 stations	5 stations	6 stations	7 stations	8 stations	9 stations	10 stations
Mono-manifold	M0806-**-2AC	0.17	0.25	0.32	0.40	0.47	0.55	0.62	0.70	0.77
	M0806-**-3AC									
	M0806-**-2AC07	0.23	0.33	0.43	0.53	0.64	0.74	0.84	0.94	1.04

● Add the valve weight to the manifold weight.

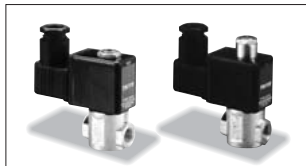
● How to order

Valve Only

2-port valve (port size: G1/4)



3-port valve (port size: G1/4)



2A C - 08 E 20 - 10 S4 - 07

3A C - 08 E 20 - 10 S4

Option

Wiring method

Voltage/driving method

● Switching method

No. of ports	Symbol	Switching method
2-port	C	Normally closed
	P	Normally open
3-port	C	Normally closed
	P	Normally open

● Port size

Symbol	Port A
08	G1/4

● Mounting method

Symbol	Mounting method
E	Direct type

Symbol	Orifice diameter
20	φ2.0 mm
32	φ3.2 mm

Note) The orifice diameter of φ3.2 mm (32) can be specified only for 2-port normally closed valves.

● Wiring method

Symbol	Wiring method
L1	Lead wire method/2000 mm
S4	DIN socket method/wiring port : G1/2
S0	DIN socket method/wiring port : Pg11 (Note 1) With orange lamp (Note 2)
SG	DIN socket method/wiring port : Pg11 (Note 1) With green lamp (Note 2)
T1	Terminal method
	TO Terminal method/with orange lamp (Note 2)
	TG Terminal method/with green lamp (Note 2)

Option

Wiring method

● Voltage

Symbol	Voltage
12	12 V DC
24	24 V DC
10	100 V AC 50/60Hz 100 V DC
20	200 V AC 50/60Hz
11	110 V AC 50/60Hz 110 V DC
22	220 V AC 50/60Hz

Note 1) High pressure type valves (-07) for 12 VDC (12) are not available.

Note 1) Wiring port: Pg11 is a screw size according to DIN40430.

Note 2) 12-VDC valves do not have lamps.

● Option

Symbol	Option
None	None
07	High pressure type

Note) High pressure type valves (07) come only in the 2-port normally closed type.

● How to order

Manifold

- Model number of mono-manifold

M0806 - 06 2AC

- Number of stations

Symbol	Number of stations
02	2 stations
03	3 stations
04	4 stations
05	5 stations
06	6 stations
07	7 stations
08	8 stations
09	9 stations
10	10 stations

- Applicable model

Symbol	Applicable model
2AC	2AC-08M20
	2AC-08M32
3AC	3AC-08M20
	3AP-08M20
	2AP-08M20
2AC07	2AC-08M20-07
	2AC-08M32-07

Note) ● When only a manifold is ordered, a mounting bolt will be supplied.

- Model number of valve for manifold

2-port valve
2A□ - 08M□□ - □□ □□

3-port valve
3A□ - 08M□□ - □□ □□

Notes) ● For details, see "How to Order Valve Only."
● When only a valve is ordered, a gasket will be supplied.

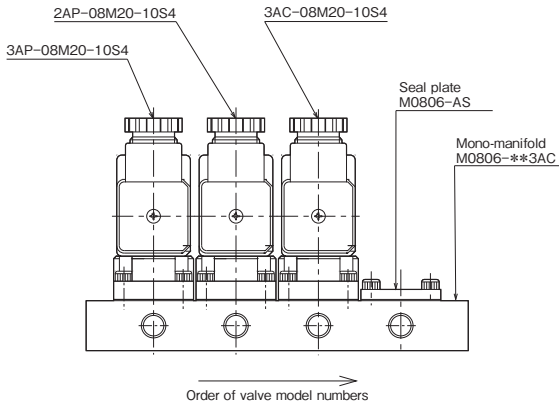
- Seal plate(SZZ)

M0806-AS

Notes) ● When only a seal plate is ordered, a gasket and a mounting bolt will be supplied.

How to Order

- Mono-manifold

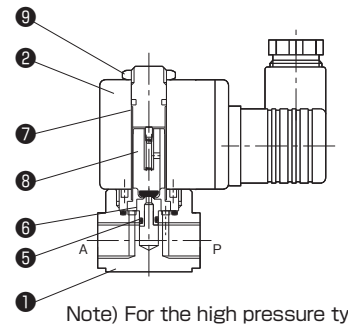


Model number of manifold Qty.
M0806-043AC 1

Model number of valve Qty.
3AP-08M20-10S4 1
2AP-08M20-10S4 1
3AC-08M20-10S4 1
M0806-AS 1

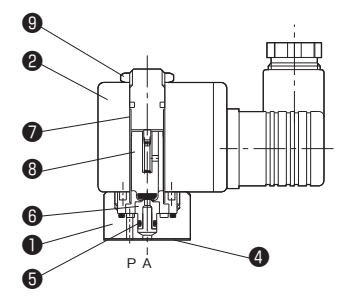
Sectional Drawings

2-port valve/Direct type
2AC-08E20(-07)
(normally closed)

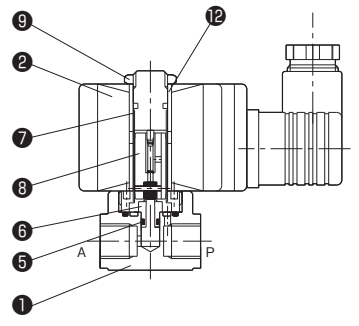


(Note) For the high pressure type (-07), the coils are replaced with HR07.

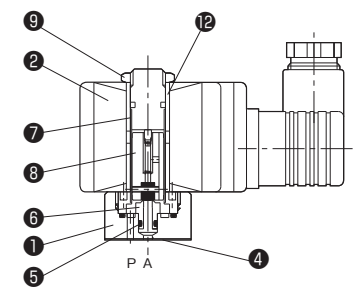
2-port valve/Valve for manifold
2AC-08M20(-07)
(normally closed)



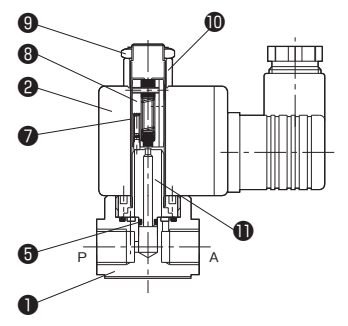
2AC-08E32-07
(normally closed)



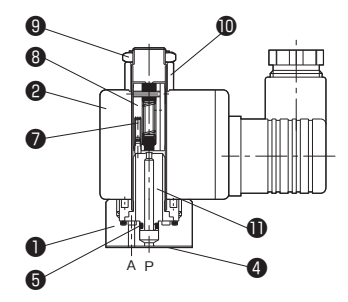
2AC-08M32-07
(normally closed)



2AP-08E20
(normally open)



2AP-08M20
(normally open)

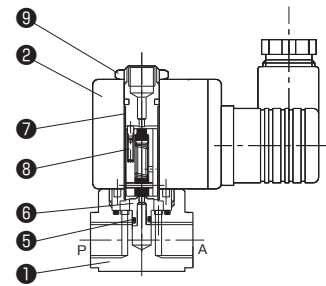


Parts List

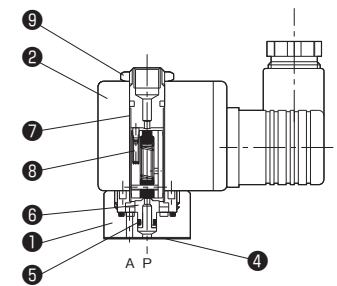
No.	Name	Material
1	Body	Copper alloy
2	Coil	HR02 Coil
3	Coil	HR07 Coil
4	Seal	Nitrile rubber
5	O-ring	Nitrile rubber
6	Valve seat	Stainless steel
7	Magnet pipe	Stainless steel
8	Plunger	Magnetic material
9	Nut	Copper alloy
10	Bush	Copper alloy
11	Fixed iron core	Magnetic material
12	Pipe	SPC

Sectional Drawings

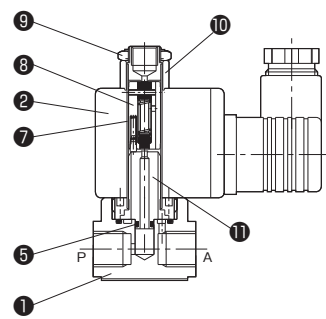
3-port valve/Direct type
3AC-08E20
(normally closed)



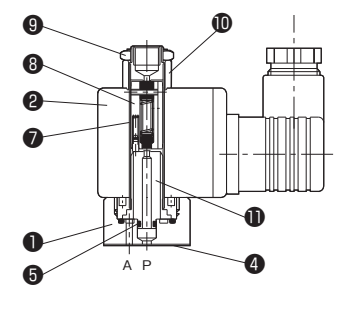
3-port valve/Valve for manifold
3AC-08M20
(normally closed)



3AP-08E20
(normally open)



3AP-08M20
(normally open)



Parts List

No.	Name	Material
1	Body	Copper alloy
2	Coil	HR02 Coil
4	Seal	Nitrile rubber
5	O-ring	Nitrile rubber
6	Valve seat	Stainless steel
7	Magnet pipe	Stainless steel
8	Plunger	Magnetic material
9	Nut	Copper alloy
10	Bush	Copper alloy
11	Fixed iron core	Magnetic material

● How to order

Coil Only (Maintenance Parts)

Note) ●The mounting cap and manual operation button are not included.

HR 02 - 10 S4

● Type of coil

Symbol	Type of coil
02	General-purpose type
07	Only for high pressure type

● Voltage

Symbol	Voltage
12	12 V DC
24	24 V DC
10	100 V AC 50/60Hz 100 V DC
20	200 V AC 50/60Hz
11	110 V AC 50/60Hz 110 V DC
22	220 V AC 50/60Hz

Note 1) High pressure type valves (–07) for 12 V DC (12) are not available.

● Wiring method

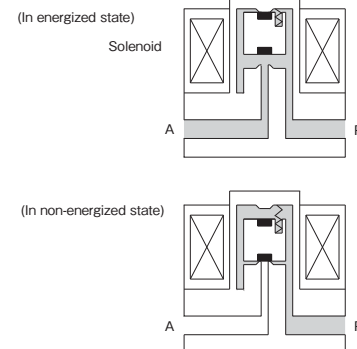
Symbol	Wiring method
L1	Lead wire method(2000 mm)
S4	DIN socket method (wiring port: G1/2)
SO	DIN socket method/wiring port: Pg11/with orange lamp Note) 12-VDC valves do not have lamps.
SG	DIN socket method/wiring port: Pg11/with green lamp Note) 12-VDC valves do not have lamps.
T1	Terminal method
TO	Terminal method/with orange lamp Note) 12-VDC valves do not have lamps.
TG	Terminal method/with green lamp Note) 12-VDC valves do not have lamps.

Note) Wiring port: Pg11 is a screw size according to DIN40430.

Principle of Operation

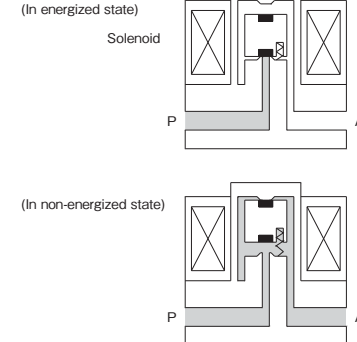
2-port valve

2AC-08E20(32) 2AC-08E20(32)-07
2AC-08M20(32) 2AC-08M20(32)-07
(normally closed)



When the solenoid is energized, the plunger opens the supply valve seat (port P), and air flows from P to A. When it is deenergized, the plunger closes the supply valve seat (port P), and the port A is closed. When power failure occurs or the electric circuit is broken, the spool returns to the position at which it is set in the non-energized state.

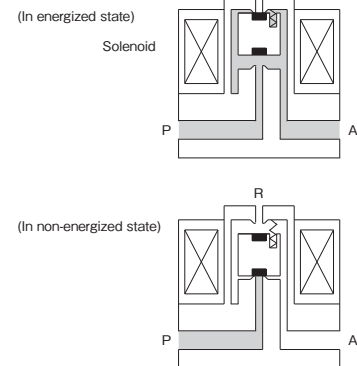
2AP-08E20
2AP-08M20
(normally open)



When the solenoid is energized, the plunger closes the supply valve seat (port P), and the port A is closed. When it is deenergized, the supply valve seat (port P) is opened, and air flows from P to A. When power failure occurs or the electric circuit is broken, the spool returns to the position at which it is set in the non-energized state.

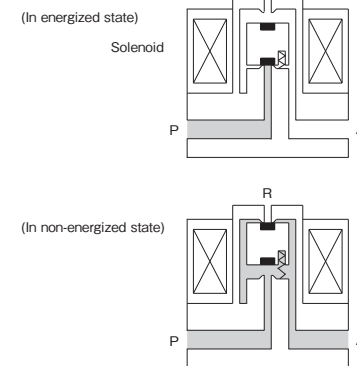
3-port valve

3AC-08E20
3AC-08M20
(normally closed)



When the solenoid is energized, the plunger closes the exhaust valve seat (port R), and air flows from P to A. When it is deenergized, the plunger closes the supply valve seat (port P) to discharge air from A to R. When power failure occurs or the electric circuit is broken, the spool returns to the position at which it is set in the non-energized state.

3AP-08E20
3AP-08M20
(normally open)



When the solenoid is energized, the plunger closes the supply valve seat (port P) to discharge air from A to R. When it is deenergized, the plunger closes the exhaust valve seat (port R), and air flows from P to A. When power failure occurs or the electric circuit is broken, the spool returns to the position at which it is set in the non-energized state.

General-purpose Solenoid Valves

Direct type

2AC-08E20 (2-port normally closed)

2AC-08E32 (2-port normally closed)

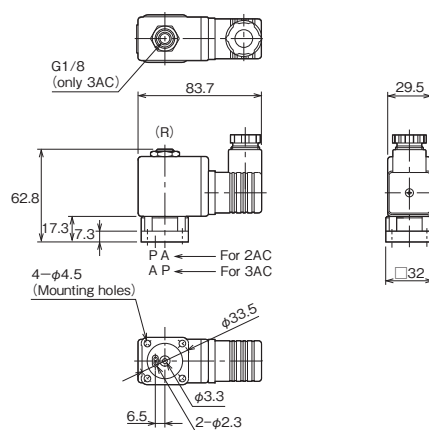
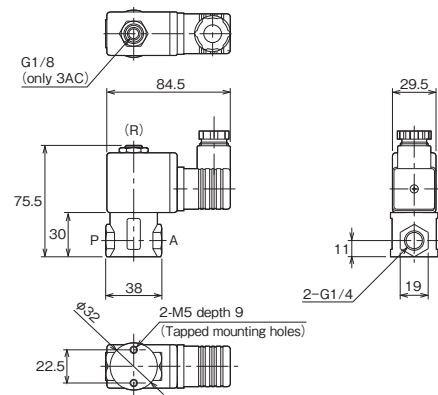
3AC-08E20 (3-port normally closed)

Valve for manifold

2AC-08M20 (2-port normally closed)

2AC-08M32 (2-port normally closed)

3AC-08M20 (3-port normally closed)



Direct type

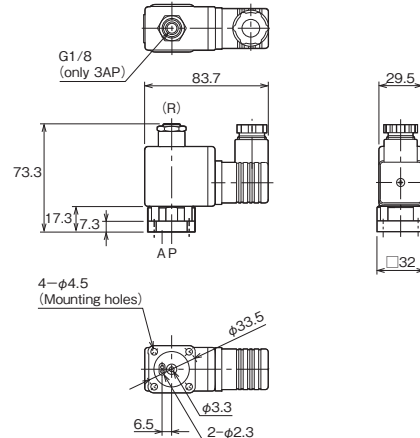
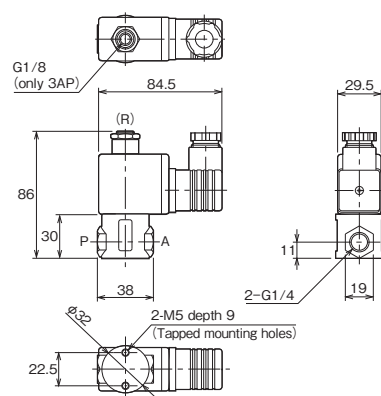
2AP-08E20 (2-port normally open)

3AP-08E20 (3-port normally open)

Valve for manifold

2AP-08M20 (2-port normally open)

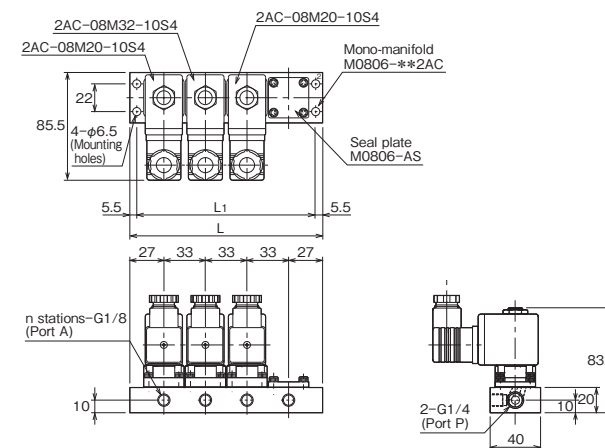
3AP-08M20 (3-port normally open)



General-purpose Solenoid Valves

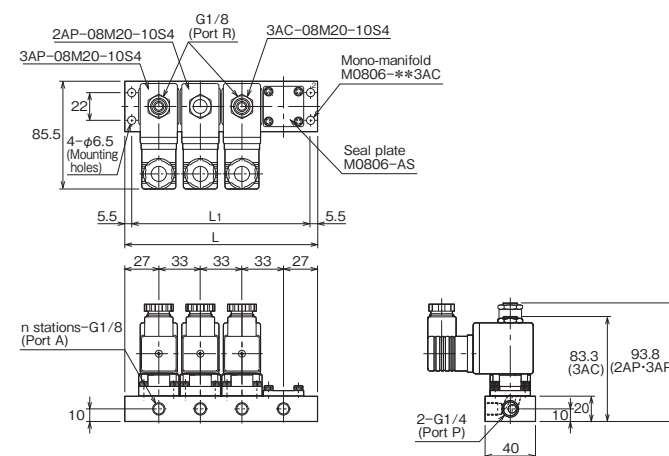
Mono-manifold/M0806-**2AC

For 2AC



Mono-manifold/M0806-**3AC

For 3AC, 2AP, and 3AP



Dimensional Table

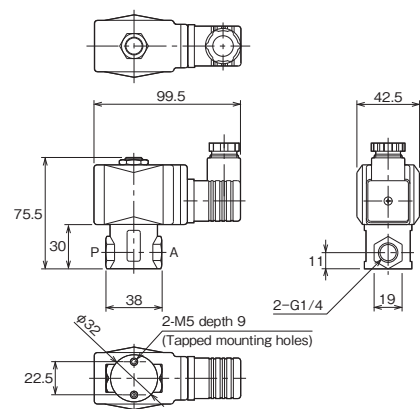
Model number of mono manifold	Number of stations n	2	3	4	5	6	7	8	9	10
	Symbol of number of stations	02	03	04	05	06	07	08	09	10
M0806-**2AC	L	87	120	153	186	219	252	285	318	351
M0806-**3AC	L1	76	109	142	175	208	241	274	307	340

High Pressure Type Solenoid Valves

Direct type

2AC-08E20-07 (2-port normally closed)

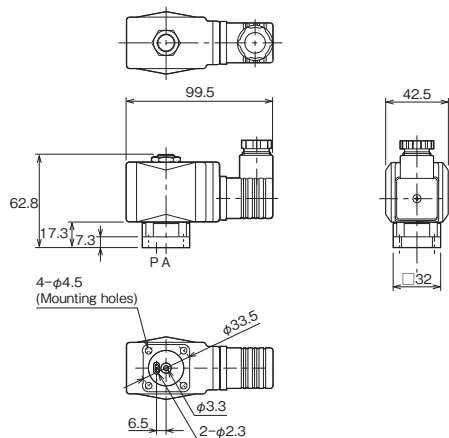
2AC-08E32-07 (2-port normally closed)



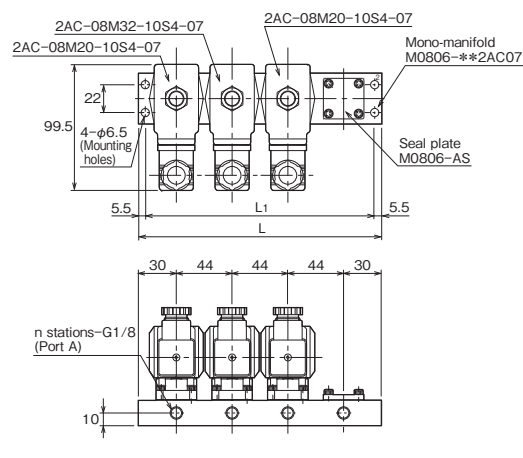
Valve for manifold

2AC-08M20-07 (2-port normally closed)

2AC-08M32-07 (2-port normally closed)



Mono-manifold/M0806-**2AC07



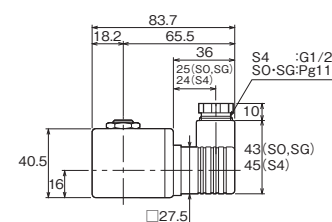
Dimensional Table

Model number of mono manifold	Number of stations n	2	3	4	5	6	7	8	9	10
	Symbol of number of stations	02	03	04	05	06	07	08	09	10
M0806-**2AC07	L	104	148	192	236	280	324	368	412	456
	L1	93	137	181	225	269	313	357	401	445

Wiring Block (HR02 coil)

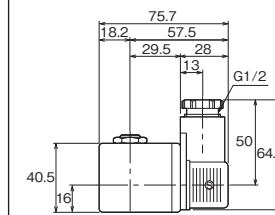
DIN socket method

(S4, SO, SG)

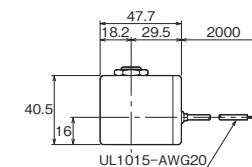


Terminal method

(T1, TO, TG)



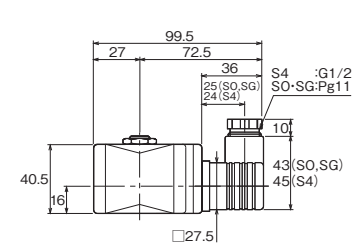
Lead wire method(L1)



Wiring block (HR07 coil)

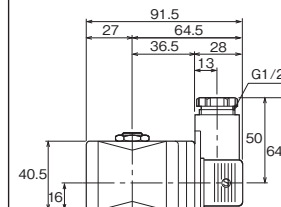
DIN socket method

(S4, SO, SG)



Terminal method

(T1, TO, TG)



Lead wire method(L1)

