

4-port 2-position direct-acting solenoid valve 

VA01PSC24/PLC24

Poppet seal/Sub-base piping type



Specifications

Model No.	Unit	VA01PSC24	VA01HPSC24	VA01PLC24
Fluid		Non-lubricated air		
Port size		M5		
Sonic conductance (C)	dm ³ /(s·bar)	0.2		
Critical pressure ratio		0.3		
Effective area (Reference)	mm ²	(1)		
Cv value (Reference)		(0.05)		
Ambient temperature	°C	-5~50		
Pressure range		-100kPa~0.8 MPa		
Response time	ON	4.5	3	2
	OFF	1 (4.5)	1.5	2
Manual override		Non-lock type push button		
Min. energizing time	ms	—		50
Mounting position		Free		
Shock resistance/vibration resistance	m/s ²	150/30		
Mass	g	33.5		36.0

(Note) • Sonic speed conductance, critical pressure ratio, effective area and Cv value shown above are value between port 1 and 4.

• When temperature of valve site goes down below 5°C, complete dry air shall be supplied to prevent from freezing.

• Response time in bracket () shows with surge suppressor.

Electrical Specifications

Model No.	Unit	VA01PSC24	VA01HPSC24	VA01PLC24
Rated voltage	V	DC24		
Allowable voltage fluctuation	%	±10		
Power consumption	W	2	4	2
Heat resistance grade		JIS grade B		
Wiring		Lead wire, Connector with lead wire	Connector with lead wire	
Surge suppressor		Diode	Varistor	
Indicator light		LED		

(Note) • Surge suppressor and indicator light are not available for Lead wire type.

4-port 2-position direct-acting solenoid valve

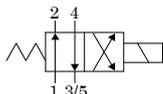
Ordering instruction

VA01PSC24 - 1 P E - M5

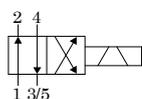
①
②
③
④
⑤

① Function

VA01PSC24 : Standard
VA01HPSC24 : Quick response



VA01PLC24 : Standard



② Voltage

1	DC24V
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③ Wiring specifications

● Case of VA01PSC24, VA01HPSC24

L	Lead wire
P	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
U	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

● Case of VA01PLC24

NPN type

P	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
U	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

PNP type

PM	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
UM	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

④ Wiring accessories

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

⑤ Port size

No mark	Without sub-base
M3	Without sub-base, M3×0.5 body ported for manifold MFU type only
M5	M5×0.8 (Sub-base with mounting screw hole, M2)
L5	M5×0.8 (Sub-base with mounting screw hole, M3)

Sub-Base

V24-SB-L5 (M3; Mounting hole)
V24-SB-M5 (M2; Mounting hole)

Screw&Gasket

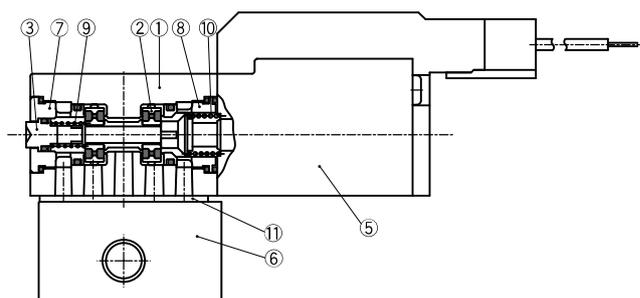
V24-SG (10pcs per lot)

Connector with lead wire

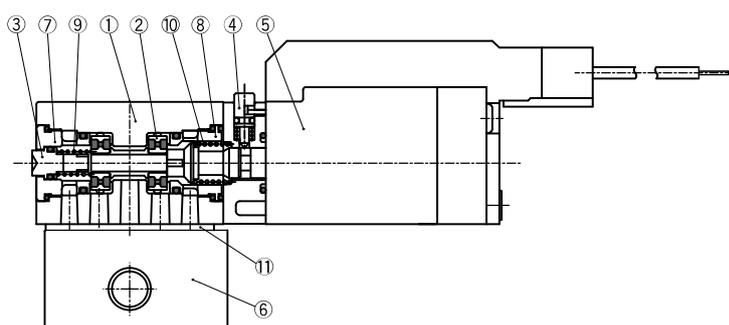
Lead wire length	Model No.	
	PSC	PLC
500mm	PC2-D24-CL5 (Standard)	PLC2-D24-CL5 (Standard)
1000mm	PC2-D24-CL10	PLC2-D24-CL10
3000mm	PC2-D24-CL30	PLC2-D24-CL30

Constructions

VA01PSC24



VA01PLC24



Main components

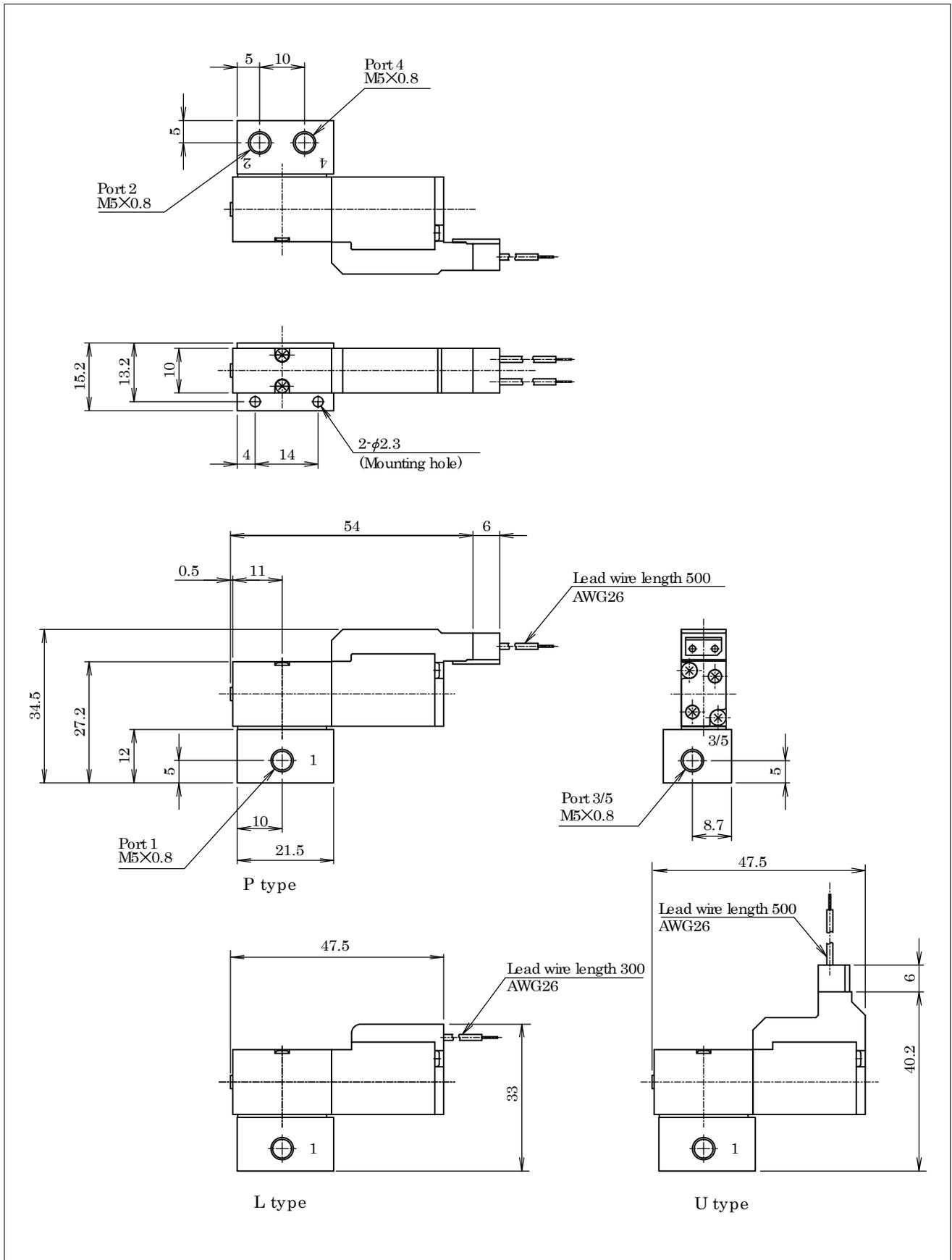
No.	Description	Material
①	Body	Synthetic resins
②	Poppet ass'y	—
③	Manual override 14	Copper alloy
④	Manual override 12	Synthetic resins
⑤	Solenoid ass'y	—
⑥	Sub-base	Aluminium alloy
⑦	Valve seat E	Copper alloy
⑧	Valve seat S	Copper alloy
⑨	Spring V	Stainless steel
⑩	Spring	Stainless steel
⑪	Base gasket	NBR+Stainless steel

4-port 2-position direct-acting solenoid valve

Dimensions

VA01PSC24-1※E-M5, VA01HPSC24-1※E-M5 (Sub-base with mounting screw hole, M2)

(Unit : mm)

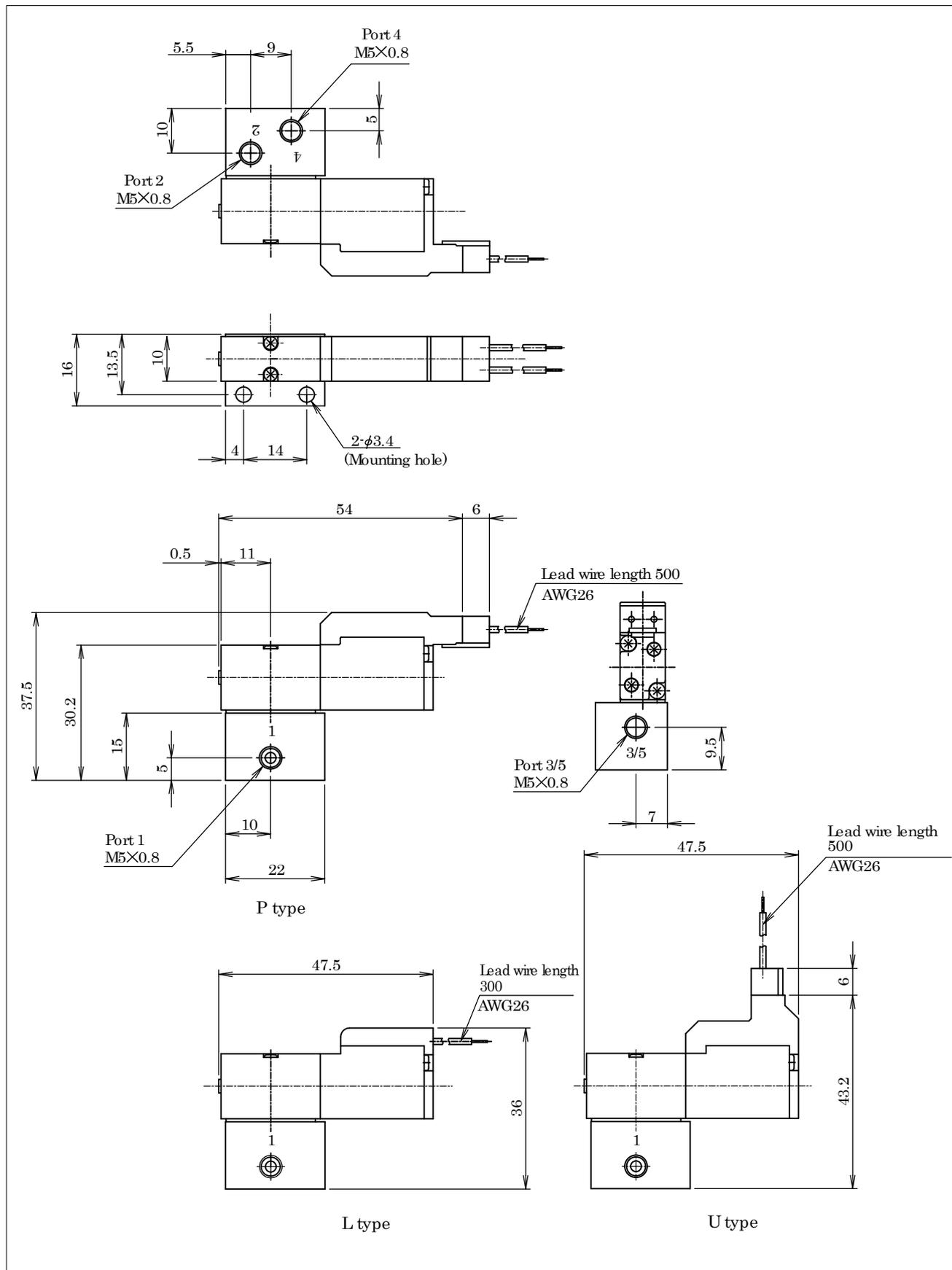


4-port 2-position direct-acting solenoid valve

Dimensions

VA01PSC24-1*E-L5, VA01HPSC24-1*E-L5 (Sub-base with mounting screw hole, M3)

(Unit : mm)

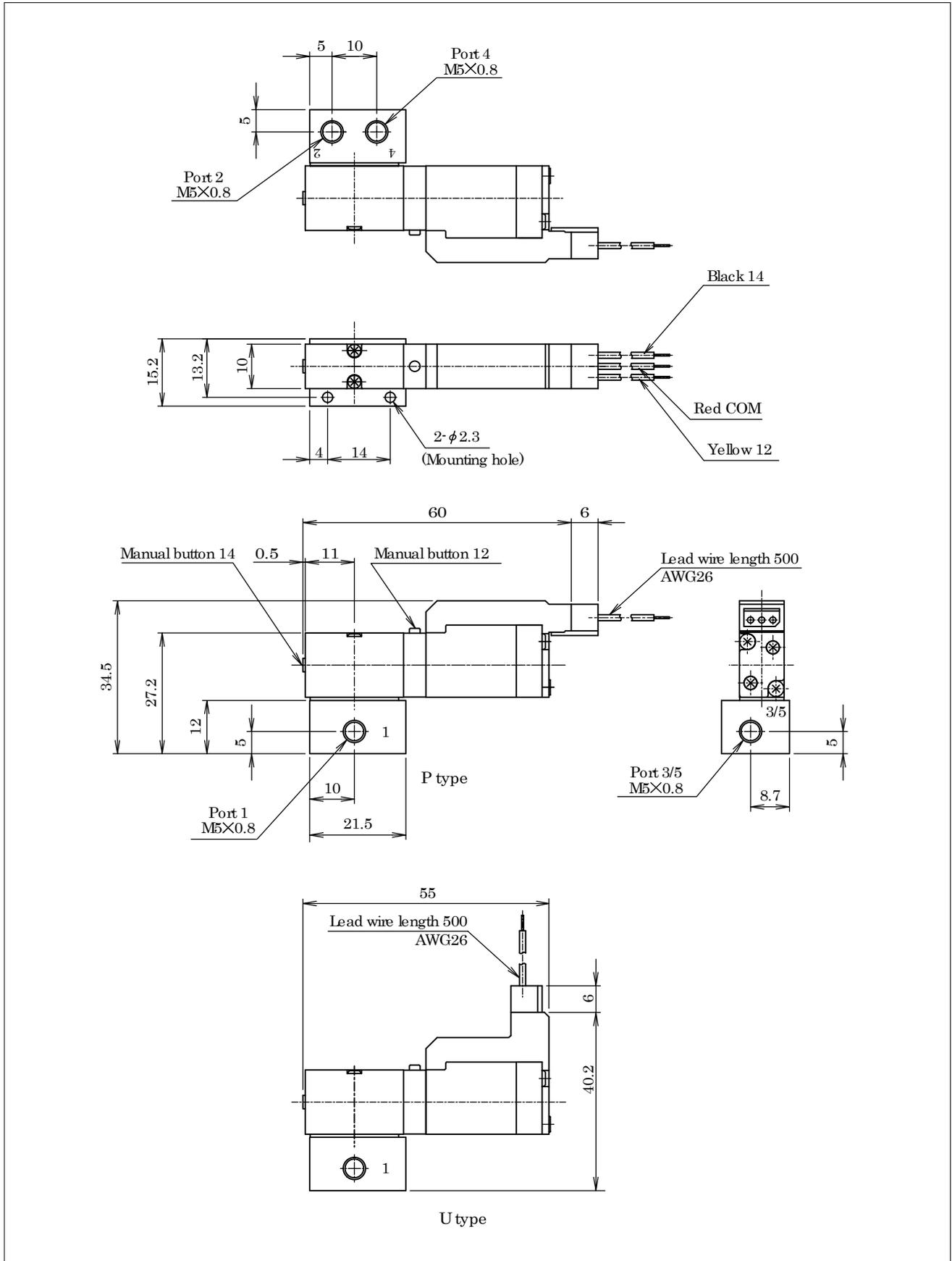


4-port 2-position direct-acting solenoid valve

Dimensions

VA01PLC24-1※E-M5 (Sub-base with mounting screw hole, M2)

(Unit : mm)



4-port 2-position direct-acting solenoid valve

Dimensions

VA01PSC24-1※E-L5 (Sub-base with mounting screw hole, M3)

(Unit : mm)

