3D Show room

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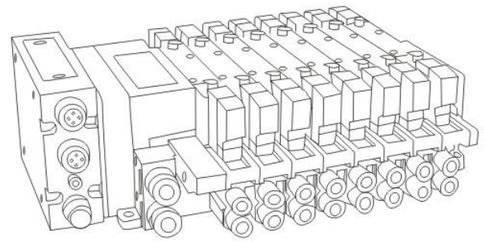
E/P Control Components 2023-2024

XINGYU 星宇

E/P CONTROL
COMPONENTS



2024-2025

PRODUCT
CATALOGUE

PREMIER QUALITY
GLOBAL REPUTATION

XINGYU ELECTRON(NINGBO)CO.LTD
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VT Series Manifold

- The air circuit layout is simple and intuitive, reducing the wiring space
- More reliable air circuit structure design
- Less installation space and convenient installation
- Various types of solenoid valves can be installed optionally

XINGYU
Electro-pneumatic control components

VT340-VT540

FEATURES

1. The air circuit layout is simple and intuitive, reducing thewiring space
2. More reliable air circuit structure design
3. Less installation space and convenient installation
4. Various types of solenoid valves can be installed optionally
5. Centralized air supply and exhaust
6. Modular design, any number of valve combinations

SPECIFICATION

Model No.	VT540	VT340
Working ambient temperature	-5℃~-50℃	
Max pressure	10bar	
Working Pressure	1.5~7bar	
Working medium	Compressed Air (filtered by 40μm filter screen)	
Size	Width 144mm,height 72.5mm,length 252.5mm (12 valves)	Width 99.3mm,height 61.1mm,length 175.4mm(12valves)
Rated voltage	DC24V±10%	
Bus interface	DB-25 pin	
Input Port	G1/4	G1/4 (max ϕ 8 Quick connector)
Exhaust Port	G1/4	G1/4(max ϕ 8 Quick connector)
Working port	ϕ 6/ ϕ 4 Quick connector	
Solenoid valve Type	5/2(NC)(Single Coil ,Double Coil)	5/3(NC)(center close type,center exhaust type,center pressure type)
Reted Power	1W	
Response time	Open:9ms; Close:10ms	
Valve Orifice	3.3mm	2.4mm
Valve life cycles	30 million times	
Number of combinations	2~24	
Manifold material	PA6+50GF	
Valve material	Aluminium	
IP Class	IP40	
Remark		

INSTALL AND OPERATION

1. First put the connector to the P port, then put connector or slincer to the EA and EB port
2. Insert the wire on the manifold and tighten according to the wire guide
3. Connect the air source to the P port, check whether the solenoid valve of each group is controlling the Mirco valve.Without power condition, for 3/2 way solenoid (NC) type, B port is exhaust port. With Power condition,for 3/2 way solenoid valve(NC) type, A port is exhaust port.
4. Then connect the A and B ports of each 3/2 solenoid valve to the pneumatic actuator with an air pipe, and adjust it
5. Final step is put the manifold on the equipment fixed with screw

ORDERING CODE

VT540 – 08 G1 K6 – A 4 B 4 – □

(1) (2) (3) (4) (5) (6) (5) (6) (7)

1. Model Series
VT340
VT540

2. Combination
02-24

3. Inlet Port
G1/4

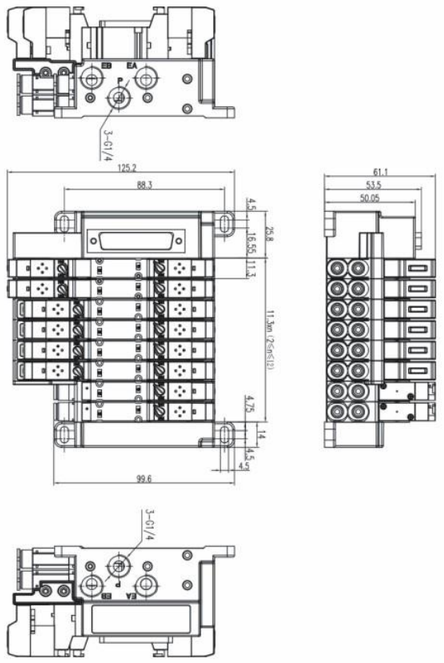
4. Working port
K4: Φ4 Quick connector
K6: Φ6 Quick connector

5. Valve Type
A: 5/2 Single Coil
B: 5/2 Double Coil
C: 5/3 Double coil center close type
D: 5/3 Double coil center exhaust type
E: 5/3 Double coil center pressure type

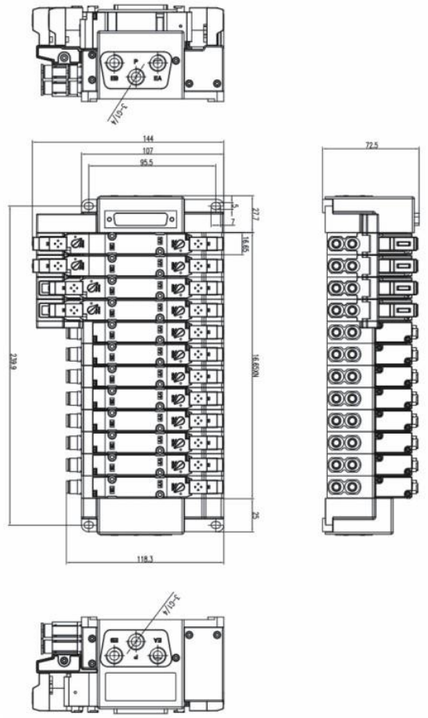
6. Valve Quantity
2-24

7. Indicator light, surge, voltage protection circuit
Blank: With indicator light, no surge and voltage protection
R: With indicator light, surge and voltage protection

VT340 Graphy



VT540 Graphy



VT540/340 Manifold
Bus Interface Module

SPECIFICATION

Project Specification	Profinet
Control Power Supply	24VDC +-10%
Output Power Supply	24VDC +-10%
Internal Friction Current	Less than100 mA
Output Points	24 Points
Output Load	Single Valve 24V 1W Output, 24 Valves Maximum Output Current 1.5A;
Output Polarity	PNP,-COM
Version	Version 2.4, Conformance Class CC-C
Addressing mode	DCP
Voltage Detection	Support Voltage Detection
Reverse Connection Protection and Over-voltage Protection	Support
IRT	YES
MRP	YES
Diagnose	YES
Communication Rate	100M bps
Communication Port	Use M12(Meet Profinet Specification)
Communication Connection Type	Daisy Chain
Set File	GCD File
Authentication	EN 61000-6-4:2007+A1:2011, EN IEC 61000-6-2:2019
EMI	CLASS A
Power Interruptions	More than 10ms
Withstand Voltage	GB/T24344, 500 VAC for one minute
Insulation Resistance	GBT24343, 500VDC Voltage, Insulation at least 10 MΩ
Vibration Measurement	5G, 10~150Hz, Continuous Vibration test for 2 hours
Working Temperature	-10~50℃
Working Humidity	35-85%RH

ORDERING CODE

VT540 – 08 G1 K6 – A 4 B 4 – □ – PNT

(1) (2) (3) (4) (5) (6) (5) (6) (7) (8)

1. Model Series
VT340
VT540

2. Combination
02-24

3. Inlet Port
G1/4"
08:intake on the 8th
10:intake on the 10th
(Note:08,10 can only be selected with protocol types)

4. Working port
K4: Φ4 Quick connector
K6: Φ6 Quick connector

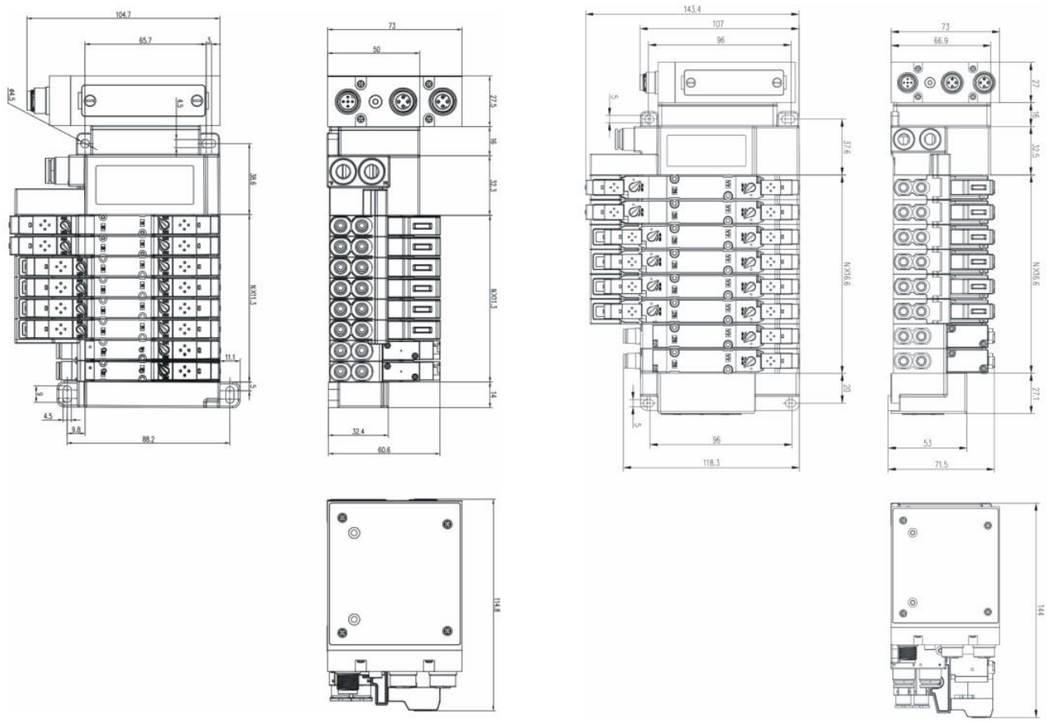
5. Valve Type
A: 5/2 Single Coil
B: 5/2 Double Coil
C: 5/3 Double coil center close type
D: 5/3 Double coil center exhaust type
E: 5/3 Double coil center pressure type

6. Valve Quantity
2-24

7. Indicator light, surge, voltage protection circuit
Blank: With indicator light, no surge and voltage protection
R: With indicator light, surge and voltage protection

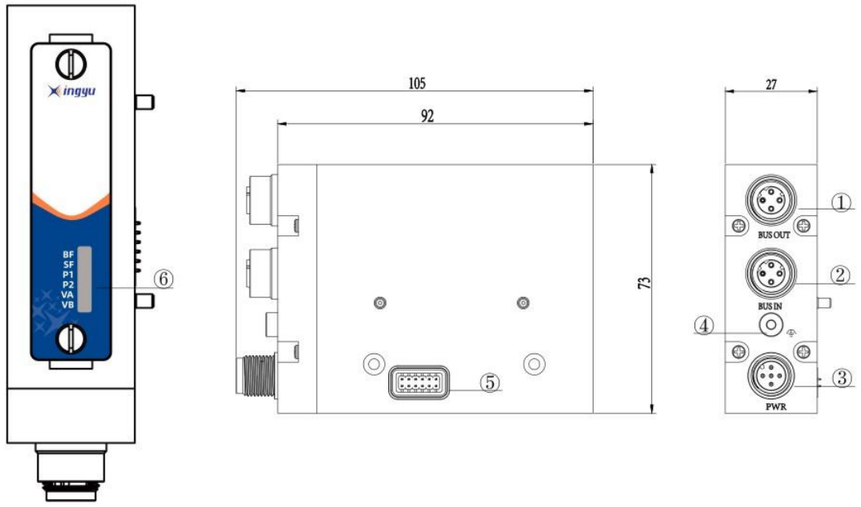
8. Protocol types
PNT: Profinet
ECT: EtherCAT

VT340 Graphy



VT540 Graphy

Appearance and Interface

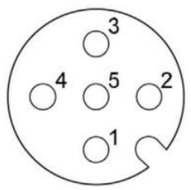


No.	Definition	Description
1	P1	Interface 1 PORT OUT, M12 Female, 4-pin, D-coded
2	P2	Interface 2 PORT IN, M12 Female, 4-pin, D-coded
3	Current	Input Power, M12 Male, 5-pin, A-coded
4	Ground Connection	Ground Terminal
5	Output	12PIN
6	Indicator Light	Status Display

P1\P2: M12 4PIN socket, D-coded

No.	Definition	Description
1	TD+	Transmit Data +
2	RD+	Receive Data +
3	TD-	Transmit Data -
4	RD-	Receive Data -

PWR: M12 5PIN plug, A-coded



No.	Definition	Description
1	V1 24V	+24V for solenoid valve
2	V1 0V	0V for solenoid valve
3	V2 24V	+24V for V2 unit operation
4	V2 0V	0V for V2 unit operation
5	FE	Function Ground Connection

Indicator Light

No.	Definition	Indicator	Description
1	BF	Light Off	PROFINET software is not initialized
		Red Light Normally On	Equipment Offline
		Red Light Single Flash	Hardware Configuration and Parameterization are not reasonable
		Red Light Flash Three Times	IOPS = BAD (PLC Stop)
		Green Light Normally On	Communication is Normal
2	SF	Light Off	The device was not initialized
		Red Light Normally On	Hardware Failure
		Red Light Flash Slowly	Open circuit Fault
		Red Light Flash Swiftly	Short Circuit Fault
		Red Light Double Flash	Error , Internal Communication
		Red Light Flash Three Times	A Fatal Error
		Green Light Normally On	Module is Normal
3	P1	Light Off	Link Lost Connection
		Yellow Light On Green Light Flashes	Link Communication Activation
		Yellow Light On / Green Light ON	Link Communication Establishment
4	P2	Light Off	Link Lost Connection
		Yellow Light On / Green Light Flashes	Link Communication Activation
		Yellow Light On / Green Light ON	Link Communication Establishment
5	VA	Green Light Normally On	Manifold Power Supply , Normal
		Red Light Flashes	Manifold Power Supply , Under voltage
		Red Light Normally On	Manifold Power Supply, Over voltage
6	VB	Green Light Normally On	System Power Supply , Normal
		Red Light Flashes	System Power Supply , Under voltage
		Red Light Normally On	System Power Supply, Over voltage

Input and Output Data List

4.1 Input list

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
BYTE0		OC	SC	COR	UV_V2	OV_V2	UV_V1	OV_V1
BYTE1	SC_7	SC_6	SC_5	SC_4	SC_3	SC_2	SC_1	SC_0
BYTE2	SC_15	SC_14	SC_13	SC_12	SC_11	SC_10	SC_9	SC_8
BYTE3	SC_23	SC_22	SC_21	SC_20	SC_19	SC_18	SC_17	SC_16
BYTE4	OC_7	OC_6	OC_5	OC_4	OC_3	OC_2	OC_1	OC_0
BYTE5	OC_15	OC_14	OC_13	OC_12	OC_11	OC_10	OC_9	OC_8
BYTE6	OC_23	OC_22	OC_21	OC_20	OC_19	OC_18	OC_17	OC_16
BYTE7	COUNT_7	COUNT_6	COUNT_5	COUNT_4	COUNT_3	COUNT_2	COUNT_1	COUNT_0
BYTE8	COUNT_15	COUNT_14	COUNT_13	COUNT_12	COUNT_11	COUNT_10	COUNT_9	COUNT_8
BYTE9	COUNT_23	COUNT_22	COUNT_21	COUNT_20	COUNT_19	COUNT_18	COUNT_17	COUNT_16

BYTE0:

Indicator	Description	
bit7	Reserve	
bit6	1 Open Circuit Detected 0 No Open Circuit Detected	
bit5	1 Short Circuit Detected 0 No Short Circuit Detected	
bit5	1 The switch count has reached the upper threshold 0 The switch count donot reach the upper threshold	
bit3:bit2	0:0	Electronics power supply Normal
	0:1	Electronics power supply Over Voltage
	1:0	Electronics power supply Under Voltage
bit1:bit0	0:0	Valves power supply Normal
	0:1	Valves power supply Over Voltage
	1:0	Valves power supply Under Voltage

BYTE1: BYTE3
Sc-0 corresponds to the short circuit of channel 0, SC-23 corresponds to the short circuit of channel 23, and so on to know the short circuit of each channel.
Bit value: 1 Short circuit, 0 indicates no short circuit.

BYTE4: BYTE6
0C-0 corresponds to the open status of channel 0, OC-23 corresponds to the open status of channel 23, and so on to know the open status of each channel.
The Bit value is 1 Open circuit, and 0 indicates no open circuit.

BYTE7: BYTE9
Count-0 indicates the open status of channel 0, count-23 indicates the open status of channel 23, and so on to know the open status of each channel.
The Bit value is 1 Open circuit, and 0 indicates no open circuit.

4.2 Output List

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
BYTE0	SC_7	SC_6	SC_5	SC_4	SC_3	SC_2	SC_1	SC_0
BYTE1	SC_15	SC_14	SC_13	SC_12	SC_11	SC_10	SC_9	SC_8
BYTE2	SC_23	SC_22	SC_21	SC_20	SC_19	SC_18	SC_17	SC_16

O_0~O_23: O_0 indicates Channel 0, O_23 indicates Channel 23, and so on to know the location of other channels.

4.3 Error Code

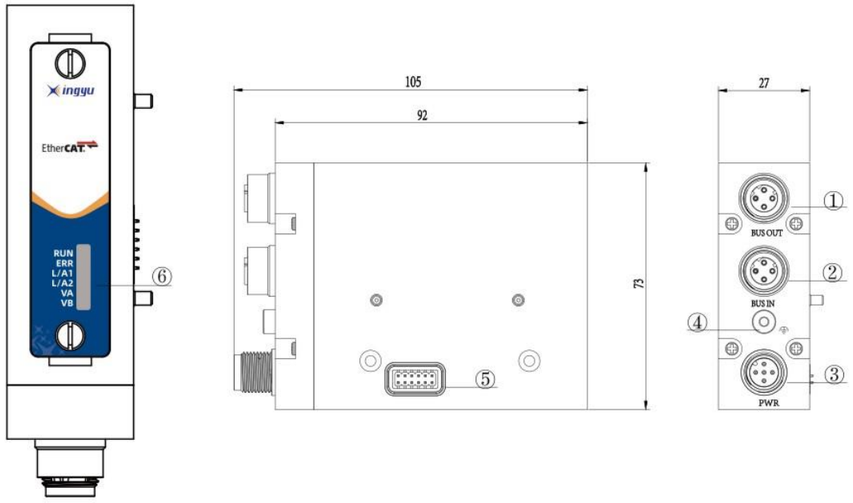
Error Code (Hexadecimal)	Error Description	LED State
0x00	0x00, Normal	"SF" LED, Green Light Normally On
0x01	Manifold , Coil Short circuit	"SF" LED, Red Light Flashes
0x06	Manifold, Coil Open Circuit	"SF" LED, Red Light Flashes
0x07	N/A	
0x100	The power supply to the module is under voltage	"V2" LED, Red Light Flashes
0x101	The power supply to the module is over voltage	"V2" LED, Red Light Normally On
0x102	The power supply to the manifold is under voltage	"V1" LED, Red Light Flashes
0x103	The power supply to the manifold is over voltage	"V1" LED, Red Light Normally On

Ethercat Module
Environment Configuation
Scan for configuration video

SPECIFICATION

Project Specification	Ethercat
Control Power Supply	24VDC +-10%
Output Power Supply	24VDC +-10%
Internal Friction Current	Less than 100 mA
Output Points	24 Points
Output Load	Single Valve 24V 1W Output, 24 Valves Maximum Output Current 1.5A;
Output Polarity	PNP,-COM
Version	Test Record V.1.2.8
EtherCAT mode	Direct Mode
Address Set	Automatic Setting
DC Mode	Support，Distributed clocks
Voltage Detection	Support Voltage Detection
Reverse Connection Protection and Over-voltage Protection	Support
Diagnose	Open Circuit , Short Circuit, Switch Counting Diagnostic Function
Communication Rate	100M bps
Communication Port	Use M12(Meet EthernetCAT Specification)
Communication Connection Type	Daisy Chain
Set File	XML File
Authentication	EN 61000-6-4:2007+A1:2011，EN IEC 61000-6-2:2019
EMI	CLASS A
Power Interruptions	More than 10ms
Withstand Voltage	GB/T24344, 500 VAC for one minute
Insulation Resistance	GBT24343, 500VDCVoltage, Insulation at least 10 MΩ
Vibration Measurement	5G, 10~150Hz, Continuous Vibration test for 2 hours
Working Temperature	-10~50℃
Working Humidity	35-85%RH

Appearance and Interface

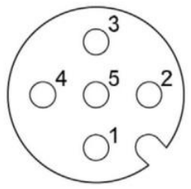


No.	Definition	Description
1	P1	Interface 1 PORT OUT, M12 Female, 4-pin, D-coded
2	P2	Interface 2 PORT IN, M12 Female, 4-pin, D-coded
3	Current	Input Power, M12 Male, 5-pin, A-coded
4	Ground Connection	Ground Terminal
5	Output	12PIN
6	Indicator Light	Status Display

P1\P2: M12 4PIN socket, D-coded

No.	Definition	Description
1	TD+	Transmit Data +
2	RD+	Receive Data +
3	TD-	Transmit Data -
4	RD-	Receive Data -

PWR: M12 5PIN plug, A-coded



No.	Definition	Description
1	V1 24V	+24V for solenoid valve
2	V1 0V	0V for solenoid valve
3	V2 24V	+24V for V2 unit operation
4	V2 0V	0V for V2 unit operation
5	FE	Function Ground Connection

Indicator Light

No.	Definition	Indicator	Description
1	RUN	Green Light Out	The device is in INIT state
		Green Light Flashes	The device is in SAFEOP state
		Green Light Single Flash	The device is in PREOP state
		Green Light Normally On	The device is in OP state
2	ERR	Red Light Out	Configuration Error
		Red Light Flashes	No Error
		Red Light Single Flash	Local Equipment Error
		Red Light Double Flash	The watchdog is out of time
3	L/A1	Light Out	Connection not established
		Green Light On	Connection Established , No Communication
		Green Light Flashes	Connection Established , Has Communication
4	L/A2	Light Out	Connection Established , No Communication
		Green Light On	Connection not established
		Green Light Flashes	Connection Established , Has Communication
5	VA	Green Light On	Manifold Power Supply , Normal
		Red Light Flashes	Manifold Power Supply , Under voltage
		Red Light On	Manifold Power Supply, Over voltage
6	VB	Green Light On	System Power Supply , Normal
		Red Light Flashes	System Power Supply , Under voltage
		Red Light On	System Power Supply, Over voltage

Input and Output Data List

4.1 Input list

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
BYTE0		OC	SC	COR	UV_V2	OV_V2	UV_V1	OV_V1
BYTE1	SC_7	SC_6	SC_5	SC_4	SC_3	SC_2	SC_1	SC_0
BYTE2	SC_15	SC_14	SC_13	SC_12	SC_11	SC_10	SC_9	SC_8
BYTE3	SC_23	SC_22	SC_21	SC_20	SC_19	SC_18	SC_17	SC_16
BYTE4	OC_7	OC_6	OC_5	OC_4	OC_3	OC_2	OC_1	OC_0
BYTE5	OC_15	OC_14	OC_13	OC_12	OC_11	OC_10	OC_9	OC_8
BYTE6	OC_23	OC_22	OC_21	OC_20	OC_19	OC_18	OC_17	OC_16
BYTE7	COUNT_7	COUNT_6	COUNT_5	COUNT_4	COUNT_3	COUNT_2	COUNT_1	COUNT_0
BYTE8	COUNT_15	COUNT_14	COUNT_13	COUNT_12	COUNT_11	COUNT_10	COUNT_9	COUNT_8
BYTE9	COUNT_23	COUNT_22	COUNT_21	COUNT_20	COUNT_19	COUNT_18	COUNT_17	COUNT_16

BYTE0:

Indicator	Description	
bit7	Reserve	
bit6	1 Open Circuit Detected 0 No Open Circuit Detected	
bit5	1 Short Circuit Detected 0 No Short Circuit Detected	
bit4	1 The switch count has reached the upper threshold 0 The switch count donot reach the upper threshold	
bit3:bit2	0:0	Electronics power supply Normal
	0:1	Electronics power supply Over Voltage
	1:0	Electronics power supply Under Voltage
bit1:bit0	0:0	Valves power supply Normal
	0:1	Valves power supply Over Voltage
	1:0	Valves power supply Under Voltage

BYTE1: BYTE3
Sc-0 corresponds to the short circuit of channel 0, SC-23 corresponds to the short circuit of channel 23, and so on to know the short circuit of each channel.
Bit value: 1 Short circuit, 0 indicates no short circuit.

BYTE4: BYTE6
0C-0 corresponds to the open status of channel 0, OC-23 corresponds to the open status of channel 23, and so on to know the open status of each channel.
The Bit value is 1 Open circuit, and 0 indicates no open circuit.

BYTE7: BYTE9
Count-0 indicates the open status of channel 0, count-23 indicates the open status of channel 23, and so on to know the open status of each channel.
The Bit value is 1 Open circuit, and 0 indicates no open circuit.

4.2 Output List

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
BYTE0	SC_7	SC_6	SC_5	SC_4	SC_3	SC_2	SC_1	SC_0
BYTE1	SC_15	SC_14	SC_13	SC_12	SC_11	SC_10	SC_9	SC_8
BYTE2	SC_23	SC_22	SC_21	SC_20	SC_19	SC_18	SC_17	SC_16

O_0~O_23: O_0 indicates Channel 0, O_23 indicates Channel 23, and so on to know the location of other channels.

Ethercat Module Environment Configuation

Scan for configuration video

Manifold Adapters

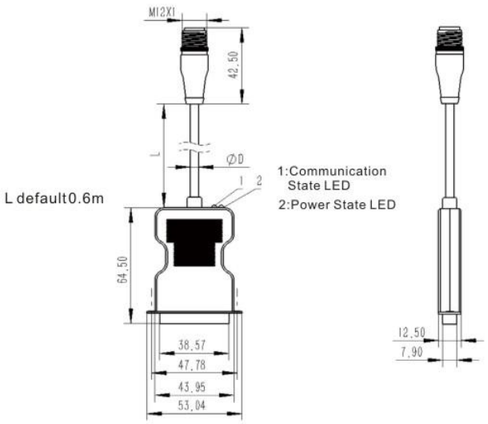
FEATURES

The Valve Manifold Adapter VTA-H24-COM13 is an IO-Link device for installed on DB25-connected valve manifold. It is a signal conversion module that converts the DB25 connection into an IO-Link connection. It adopts a 3-wire connection with an IO-Link Type- A port, and supports the drive of 24 solenoid valves, with a total drive current of no more than 1.6A, and a maximum of 500mA for a single circuit. The adapter is powered from the IO-Link master. Applicable to valve terminals with 13-pin DB25 connector as the common end.

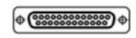
SPECIFICATION

Model No.	VTA-H24-COM13
IO-Link version	V1.1.3
Rate	COM2(38.4k)
Min. cycle time	3.5ms
Process data	4 bytes
Display/Running	Green LED
Configurable Inputs & Outputs	NO
Working Voltage	18~30VDC
Total current (actuator)	1.6A
Quiescent current	30mA
Typical Working Voltage	24VDC
Actuator connection port	DB25
Sensor connection port	M12x1
Wire	0.6m*0.34mm2
Shell material	PA
Sheath material	PUR
Protection class	IP40
Operating temperature	10~55℃
Storage temperature	25~70℃
Mechanical dimensions	62mm*52mm*12mm

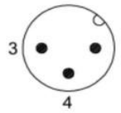
Dimension Graphy



Connection method



PIN1~12,14~25:output
PIN13:0V



IO-Link Connector
PIN1:+24V,Controller+valve
PIN3:0V
PIN4:IO-Link

VT15 Manifold

FEATURES

1. The air circuit layout is simple and intuitive, reducing the wiring space
2. More reliable air circuit structure design
3. Less installation space and convenient installation
4. Centralized air supply and exhaust
5. Modular design, any number of valve combinations

INSTALL AND OPERATION

1. First connect air source to P port (Φ8 quick connector),and adjust the pressure to 7 bar.
2. Checking the V port (working port) of each solenoid working or not (NC type solenoid no out of air with no power condition)
3. Press the manual device to check the solenoid working position (when press the manual device, NC type solenoid has air on working port)
4. Then connect the V port of each solenoid valve to the pneumatic actuator with an air pipe, and adjust it
5. Insert wire then through PLC to control the solenoids on manifold
6. Final step is put the manifold on the equipment fixed with screw

SPECIFICATION

Model No.	VT15
Working Ambient Temperature	-5℃~-50℃
Max Pressure	12bar
Working Pressure	1.5~7bar
Working Medium	Compressed Air (filtered by 40μm filter screen)
Size	Width 74mm,height 67mm,length 183mm(18valves)
Rated Voltage	DC24V±10%
Bus Interface	DB-37 pin
Input Port	ϕ 8 Quick connector
Exhaust Port	G1/8 Silencer
Working Port	φ6/φ4 Quick connector
Solenoid Valve Type	3/2 (NC)
Reted Power	2.5W
Response Time	Open:9ms; close :10ms
Valve Orifice	1.4mm
Valve Life Cycles	30 million times
Number Of Combinations	2~18
Manifold Material	PA6+50GF
Ip Class	IP40
Remark	

ORDERING CODE

VT15 – 08 K8 K6 – A 4 B 4

(1) (2) (3) (4) (5) (6) (5) (6)

1. Model Series
VT15

2. Combination
02-18

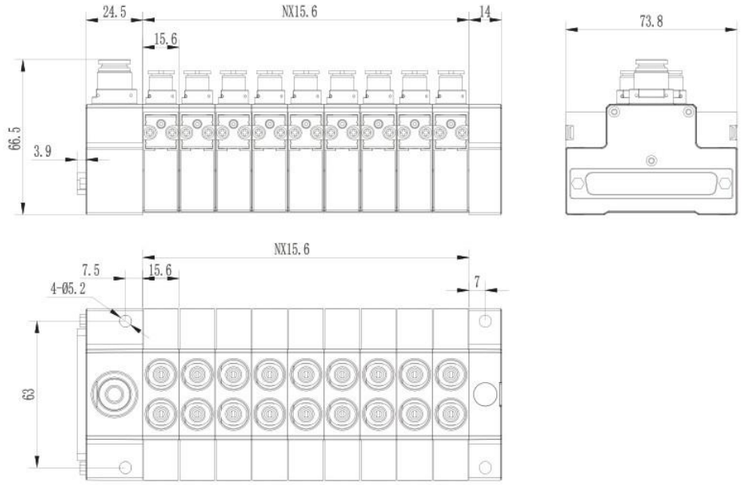
3. Input Port
K8: Φ8 Quick Connector

4. Working Port
K4: Φ4 Quick connector
K6: Φ6 Quick connector

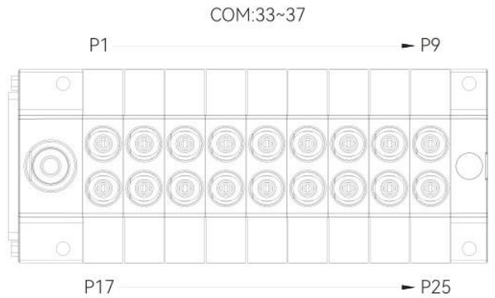
5. Valve Type
A: NC
B: NO

6. Valve Quantity
2.-18

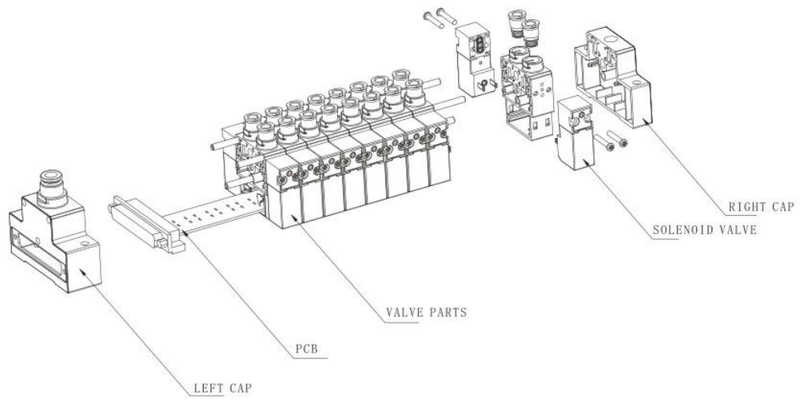
DIMENSION DRAWING

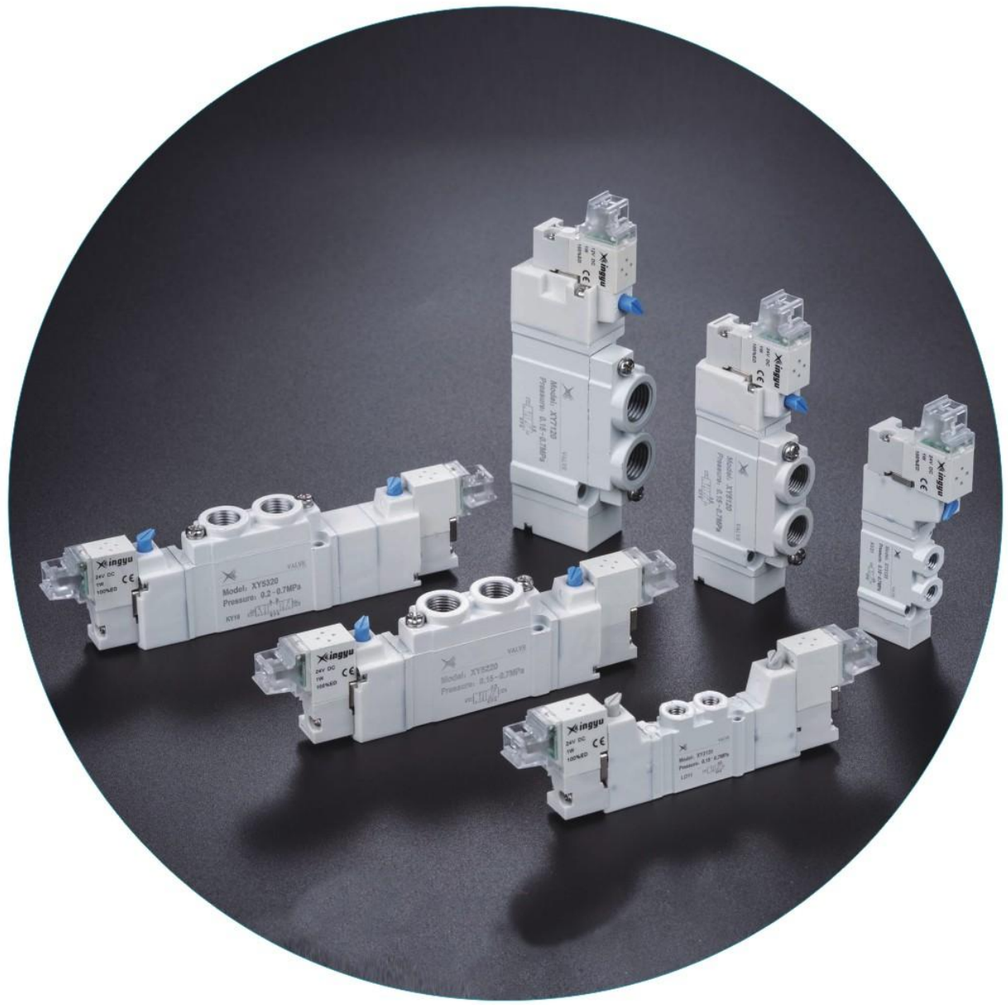


WIRING DIAGRAM



EXPLODED-VIEWS





XY Directional Valve Series

- Pilot structure, reliable quality
- High frequency and saving energy, 1W Rated power
- Space-saving, integrated installation possible
- High-speed and stable responsiveness

XY Directional Valve Series

XINGYU ELECTRON

XY3000 Series

XY5000 Series

XY7000 Series

SPECIFICATION

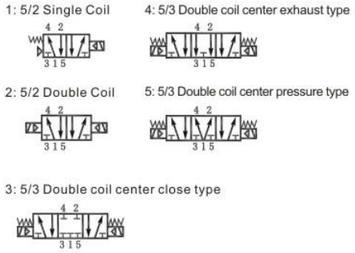
Product series		XY series 5-way solenoid valve		
Model No.		XY3000 / XY5000 / XY7000		
Product specifications		3000 Series	5000 Series	7000 Series
Operating pressure range (MPa)	5/2	0.15-0.7		
	5/3	0.2-0.7		
Working Medium		Compressed Air (filtered by 40μm filter screen)		
Operating Temperature		-5~50℃ (not frozen)		
Port Size		Inlet=Outlet=Exhaust= M5	Inlet=Outlet=Exhaust= 1/8	Inlet=Outlett= 1/4 Exhaust= 1/8
Control Method		Internal pilot		
Pilot Exhaust Method		External centralized exhaust		
Max. Operating Frequency	2 positions single electronic control	10	5	5
	2 positions double electronic control	10	5	5
	3 positions	3	3	3
Manual Operation Mode		Manual press-down slew-lock type		
Connection Method		Vertical / Parallel / Vertical Parallel		
Coil Rated Voltage		DC 12/24V		
Voltage Range		Rated Voltage ± 10%		
Power Consumption	Standard	1W		
	With Power-saving Circuit	Starting power 0.8W / maintenance power 0.5W		
Overcharge protection circuit		Optional		
Indicator Light		Yes, with LED		
Insulation Class		F		

ORDERING CODE

XY-3 ① 1 ② 20 ③ A ④ – □ ⑤ – B ⑥ L ⑦ □ ⑧ – 300 ⑨ – 2T ⑩ □ ⑪

1. Model Series
3: XY3000
5: XY5000
7: XY7000

2. Switching Mode
1: 5/2 Single Coil
2: 5/2 Double Coil
3: 5/3 Double coil center close type
4: 5/3 Double coil center exhaust type
5: 5/3 Double coil center pressure type



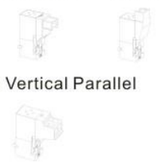
3. Connection Method
20:Thread Type
40:Namur Type

4. Manual Operation
A: Press the lock button then turn

5. Thread type
Blank: G
R: RC
N: NPT

6. Voltage Type
B: DC24V
D: DC12V

7. Wire Lead Type
L: Vertical M: Parallel
N: Vertical Parallel



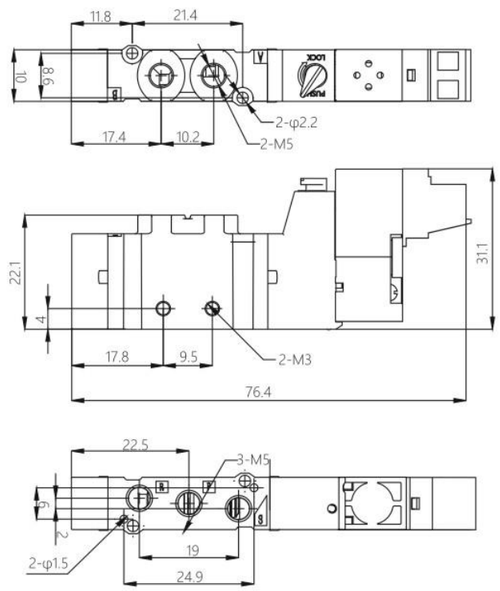
8. Indicator light, surge, voltage protection circuit
Blank: With indicator light, no surge and voltage protection
R: With indicator light, surge and voltage protection
Z: No indicator light, surge and voltage protection
U: No indicator light, with surge and voltage protection
* No indicator light for pin type

9. Wire Length
300mm 600mm Customized

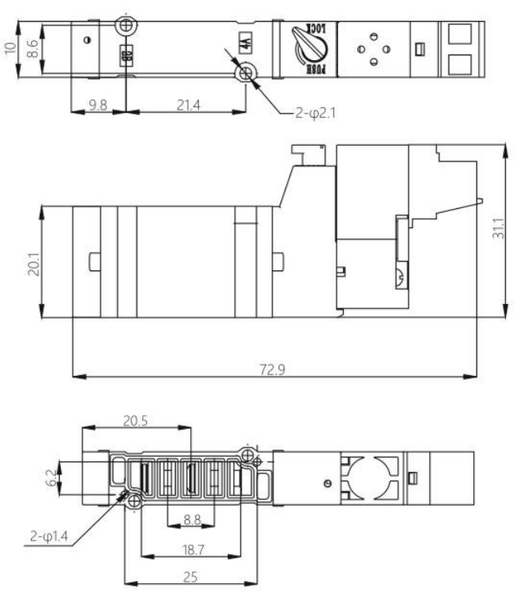
10. Valve quantity
1T: one valve manifold
2T: two valves manifold
20T: twenty valves manifold

11. Manifold thread type
Blank: G
R: RC
N: NPT

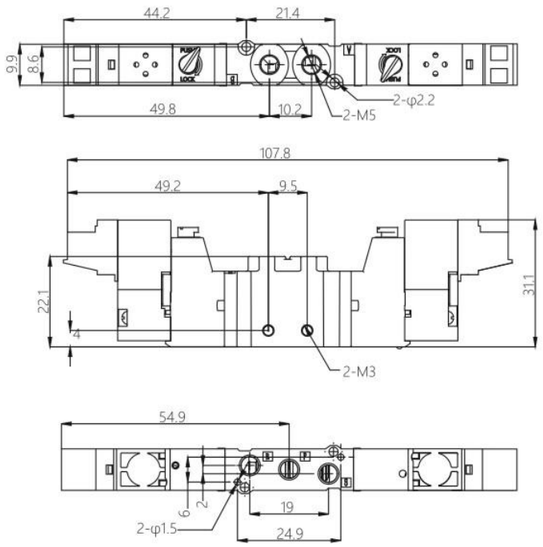
XY3120 2 positions single coil thread type



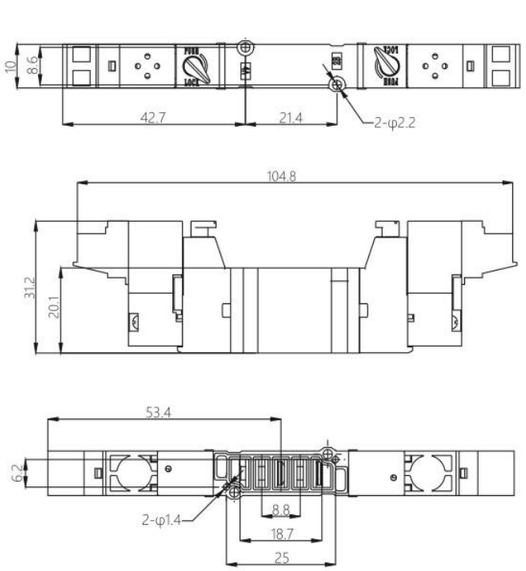
XY3140 2 positions single coil namur type



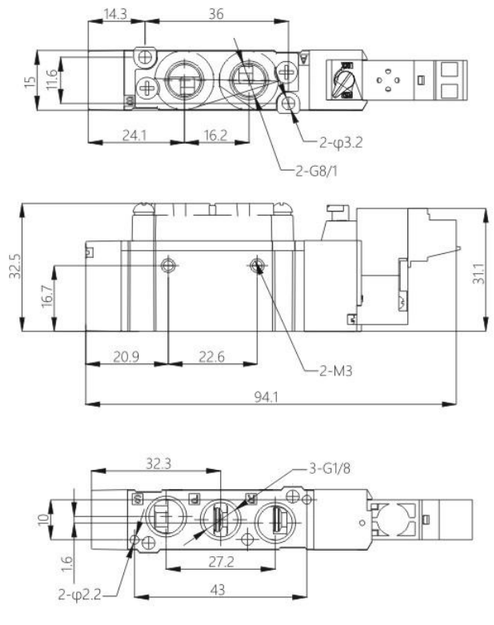
XY3220 2 positions double coil thread type



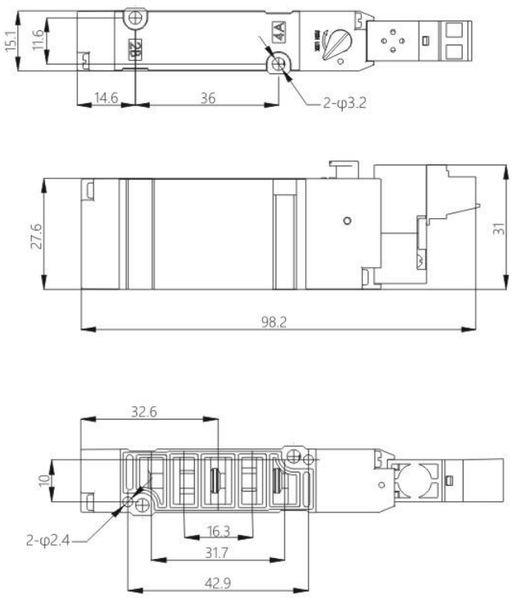
XY3240 2 positions double coil namur type



XY5120 2 positions single coil thread type

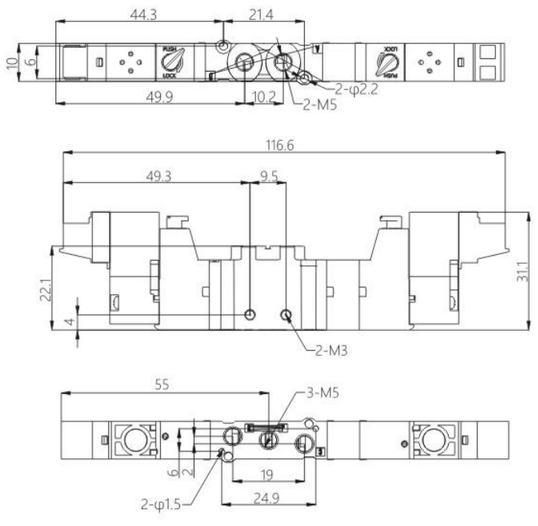


XY5140 2 positions single coil namur type



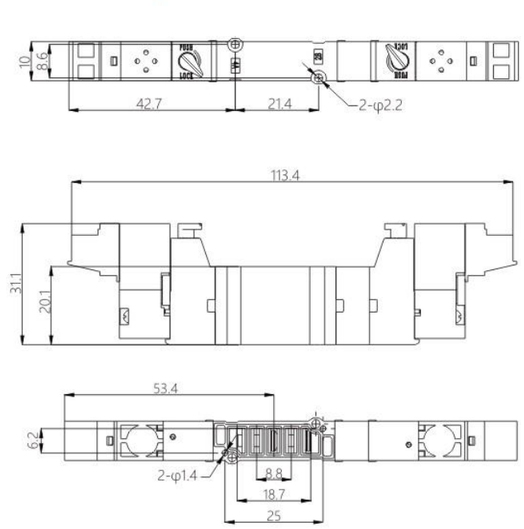
3 positions center close type, center exhaust type,center pressure type

Thread Type XY3 $^{3}_{4}_{5}$ 20

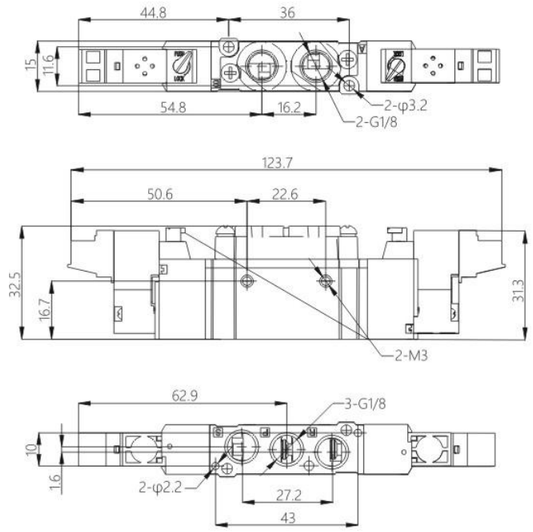


3 positions center close type, center exhaust type,center pressure type

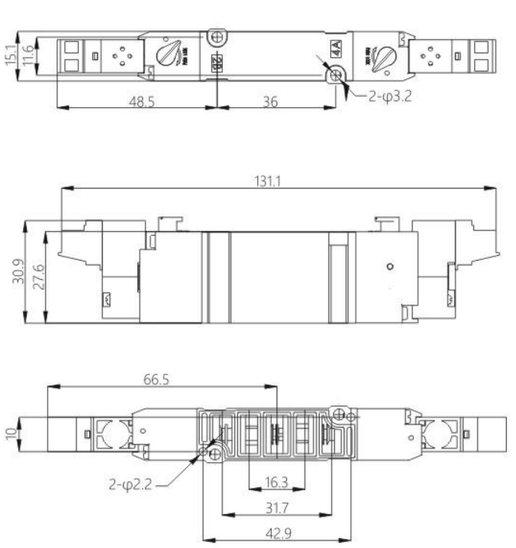
Namur Type XY3 $^{3}_{4}_{5}$ 40



XY5220 2 positions double coil thread type

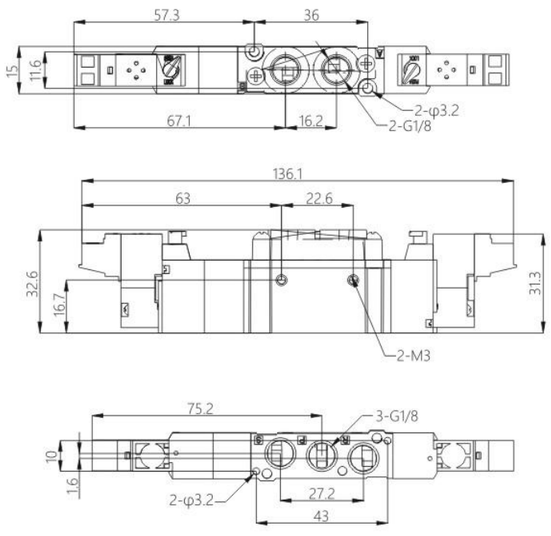


XY5240 2 positions double coil namur type



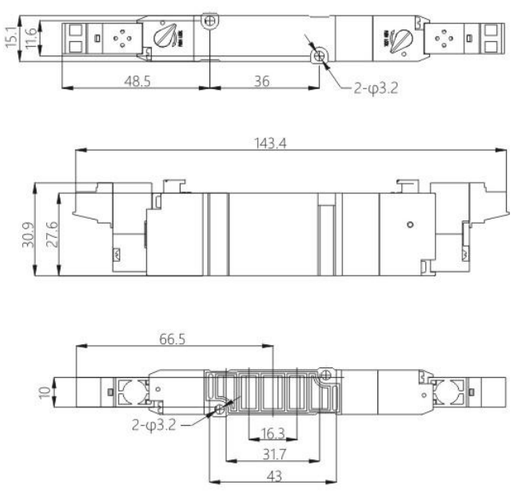
3 positions center close type, center exhaust type,center pressure type

Thread Type XY5 3 4 2 0

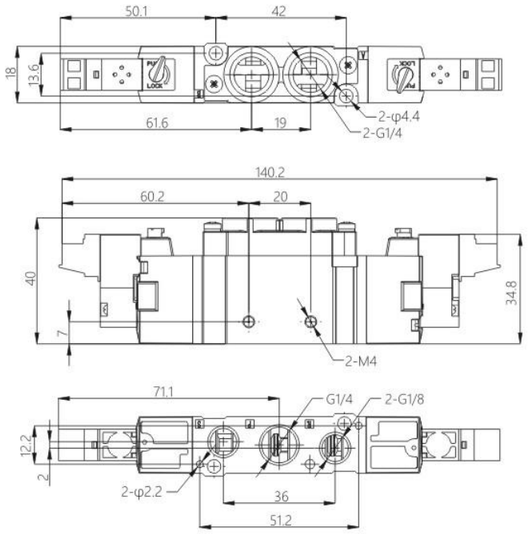


3 positions center close type, center exhaust type,center pressure type

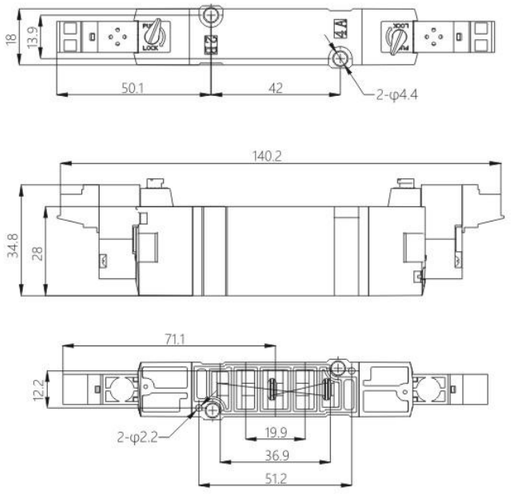
Namur Type XY5 3 4 4 0



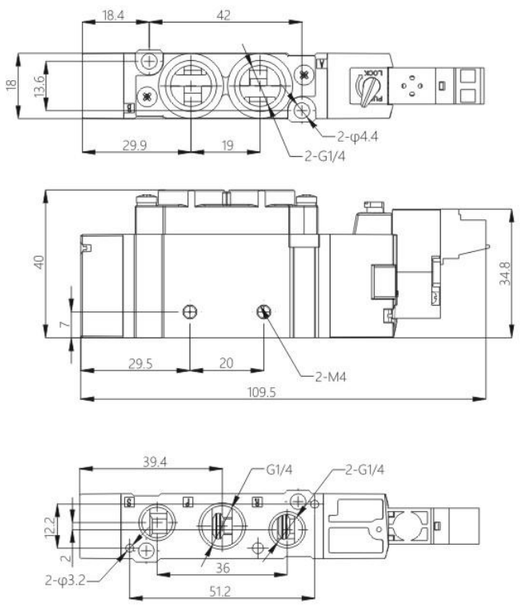
XY7220 2 positions double coil thread type



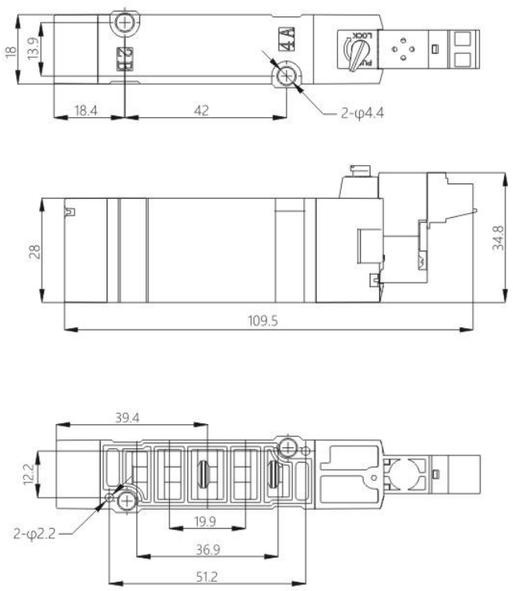
XY7240 2 positions double coil namur type



XY7120 2 positions single coil thread type

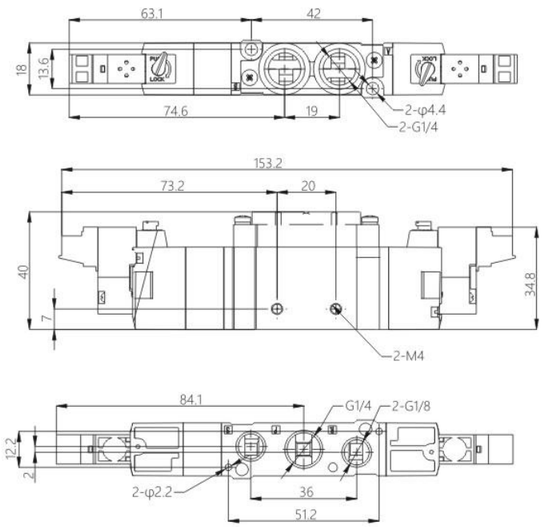


XY7140 2 positions single coil namur type



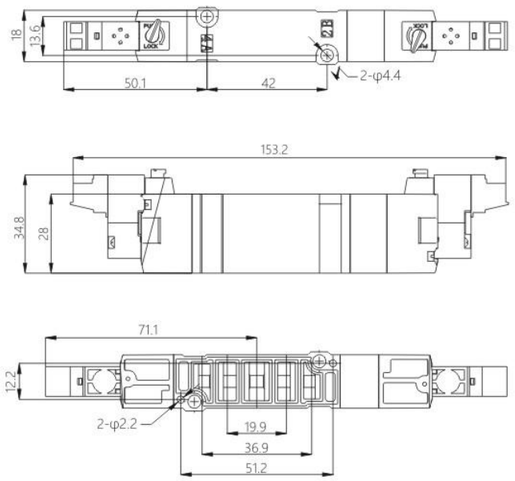
3 positions center close type, center exhaust type,center pressure type

Thread Type XY7 3 4 2 0

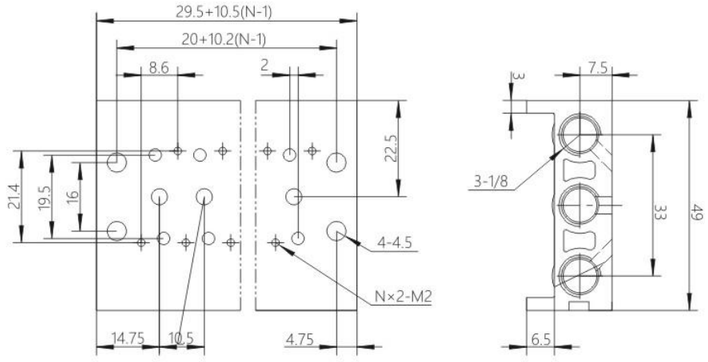


3 positions center close type, center exhaust type,center pressure type

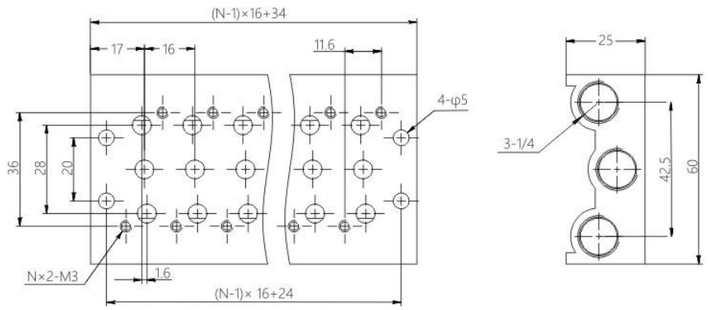
Namur Type XY7 3 4 4 0



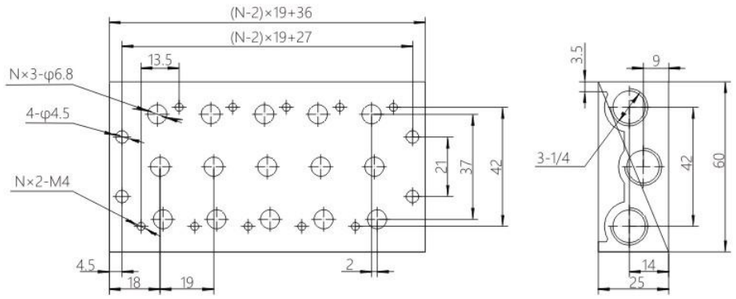
XY3000 with Manifold



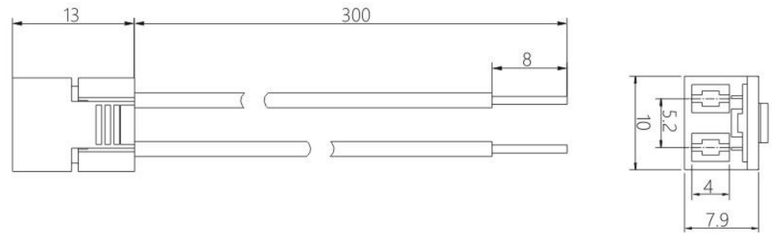
XY5000 with Manifold



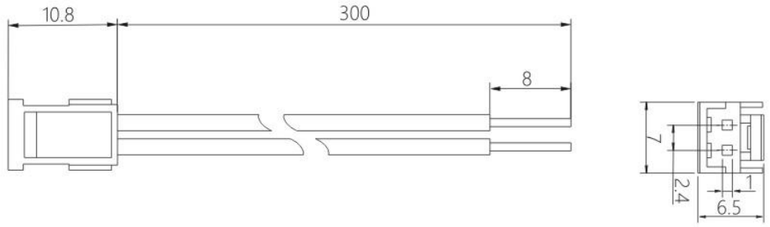
XY7000 with Manifold



Vertical Parallel Connectors



Vertical/parallel Connectors



5V Valve Series

- High frequency and saving energy, 2.5W Rated power
- Concealed manual device to avoid misoperation
- Two way connection method. Saving space
- The valve group can be integrated with the base, which save installation space

5V210

FEATURES

1. Low Comsuption, Energy-saving, Continuous work ED100%
2. High-frequency,High Working Pressure, Wide use, No Oil lubrication is required
3. Overall dimension smaller than 4V210 , Simple power connection and convenient installation
4. The vertical parallel terminal is adopted for power connection
5. The hidden manual device is designed to avoid misoperation
6. Sliding column structure, good sealing and sensitive response
7. The inner hole is processed by special process, with small Friction resistance, low starting pressure and long service life
8. The valve group can be integrated with the base to save installation space

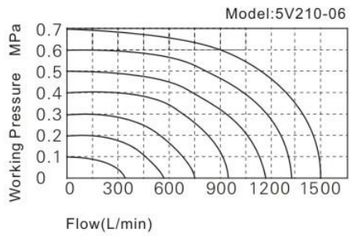
INSTALL AND OPERATION

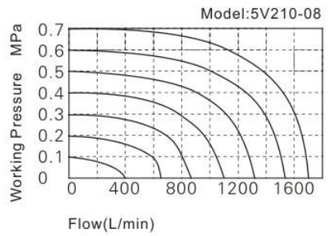
1. Check all parts in fine conditions before operation carefully
2. Pay much attention to the medium flow direction, which must be filtered by 40μm element, and exact matched piping threads
3. Pay attention the installation specifications comply with technical requirements(such as,for voltage/frequency/pressure/ambient temp. range...)and keep a balanced mounting
4. Do not use in heavy vibration conditions and take frost-proof measures in low temperature as well.
5. Before piping connection,keep coiling sealant tape not exceed to the threads top and prevent chips/dust/other debris from into valve body as well.
6. To cover the Inlet & Outlet for dust-proof while reserved

SPECIFICATION

Code No.	5V210-06	5V210-08
Working medium	Compressed Air (filtered by 40μm filter screen)	
Action mode	Pilot Type	
Pipe Size	Input = Output = Exhaust = G1/8	Input = Output =G1/4 Exhaust = G1/8
Type	5/2	
Leading Wire mode	Vertical parallel universal	
Voltage	DC12V、DC24V、AC110V、AC220V	
Pressure Range	0.15～1.0MPa	
Max.Pressure	1.2MPa	
Flow characteristics	0.89C[m³/(s·MPa)]	
Temp	-5～50℃	
Body Material	Aluminium alloy	
Lubrication	No Need	
Maximum frequency	15Hz	
Life Cycles	⩾ 15 million times	

FLOW CHARACTERISTICS





ORDERING CODE

5V2 1 – 10 2 – 06 3 – A 4 N 5

1. Specification series
   5V1
   5V2
   5V3

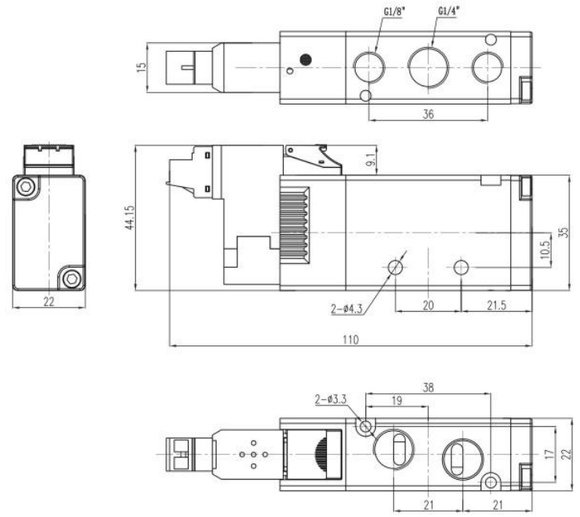
2. Coil and Position
   10:Single Coil Double Position

3. Port Size
   06：1/8
   08：1/4
   10：3/8

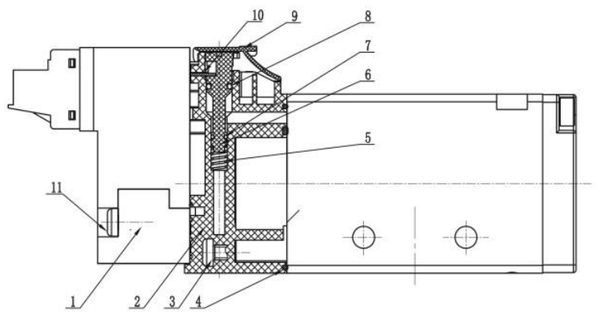
4. Voltage
   A：AC220V
   B：DC24V
   C：AC110V
   D：DC12V

5. Leading Wiring mode
   N：Vertical parallel universal

5V210 Drawing



5V210 Profile



No.	Description	Mat.	No.	Description	Mat.
1	15mm Valve		7	O-RING	NBR
2	Front cover	Resin	8	O-RING	NBR
3	Screw	SS	9	Cover	Resin
4	O-ring	NBR	10	Plate	SS
5	Manual lever spring	SS	11	Screw	SS
6	Manual Lever	POM	12		

Micro Valve

- No need lubrication, long working life
- Small size, easy to install
- Multiple combination to choose
- Suitable for PLC control

XY-10A

FEATURES

1. It is equipped with surge elimination device to protect against overvoltage.
2. The DC circuit is designed with non-polar input, and the terminal line can be adjusted freely according to the installation and whole line requirements. The general mode of vertical / parallel / vertical parallel is adopted.
3. Bridge rectifier full wave rectification to reduce the problem of AC power supply buzzer.
4. Various voltage specifications are available: AC220V, AC110V, DC24V, DC12V.
5. Low starting voltage and long service life.

INSTALL AND OPERATION

1. It is recommended that the user unit specially-assigned person to be responsible for the use and maintenance.
2. When the valve is not used for a long time, it shall be stored in a dry place. After the solenoid valve is installed, the medium must be input for several times, and it can be put into formal use only after it is confirmed to be normal.
3. Before use, pay attention to check whether the components are damaged during transportation. During operation, the working pressure shall not exceed the rated pressure, and the working differential pressure must be within the range of the rated differential pressure. When the working pressure exceeds the rated pressure or the working differential pressure exceeds the rated differential pressure, the micro solenoid valve shall be stopped.
4. Please pay attention to the media flow direction during installation.
5. Please pay attention to dust prevention. When it is removed and not in use, install dust plugs at the inlet and outlet.

SPECIFICATION

Model No.		XY-10A
Working pressure		0.05-0.7MPa
Working medium		compressed air(filtered by 40μm filter screen)
Ambient temp and medium temp		·5~50℃(unfrozen)
Response time		6ms
Action mode		direct action
Max.operating frequency		40Hz
Manual operation mode		Non-Locking Push-Press type
Wire lead type		Vertical/Parallel/Vertical-Parallel /Pin Type
Coil rated power		DC 12/24V
Allowable voltage fluctuation		rated power±10%
Power consumption	Standard	1W
	With power saving circuit	Starting power 1.8W / Maintenance power 0.5W
Overcurrent protection circuit		optional
Indicator light		Yes, with LED display
Insulation class		F

ORDERING CODE

XY-10A ① 1 ② – B ③ L ④ □ ⑤ □ ⑥ □ ⑦ – 300 ⑧ 2T ⑨ □ ⑩

1. Model Series
XY-10A

2. Working Type
1:3/2 NC
2:2/2 NC

3. Voltage
B:DC24V
D:DC12V

4. Connection Type
P:Pin type

L:Vertical type

M:Parallel type

N:Vertical parallel universal


5. Indicator light, surge voltage protection circuit
Blank: With indicator light and no surge voltage protection circuit
R: With indicator light and surge voltage protection circuit
Z: No indicator light, no surge voltage protection circuit
U: No indicator light, with surge voltage protection circuit
*Pin type without indicator

6. Exhaust Type
Blank : Exhaust Directly
N: Indirect Exhaust

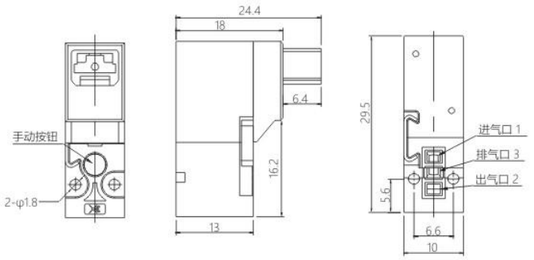
7. Manual Lever Mode
Blank: With Manual Lever
1: Without Manual Lever

8. Wire Length
300mm 600mm Customized

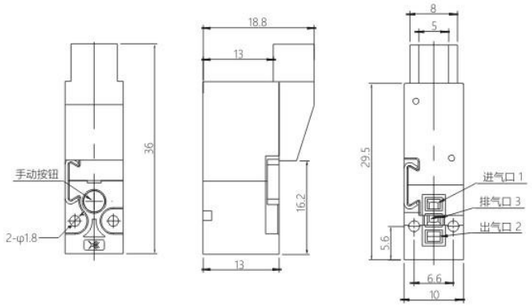
9. Valve quantity
1T: one valve manifold
2T: two valves manifold
20T: twenty valves manifold

10. Manifold thread type
Blank: G
R: RC
N: NPT

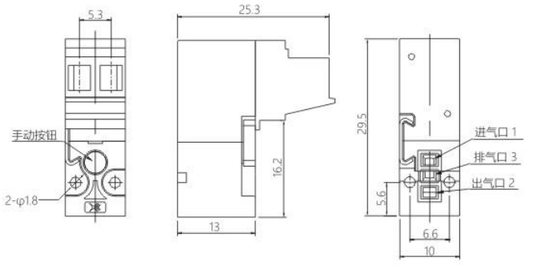
XY-10A Vertical



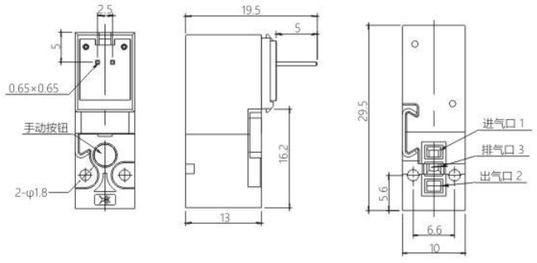
XY-10A Parallel



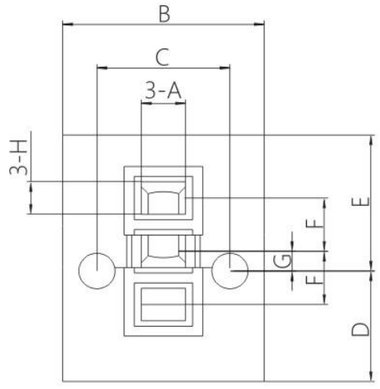
XY-10A Vertical Parallel



XY-10A Pin Type

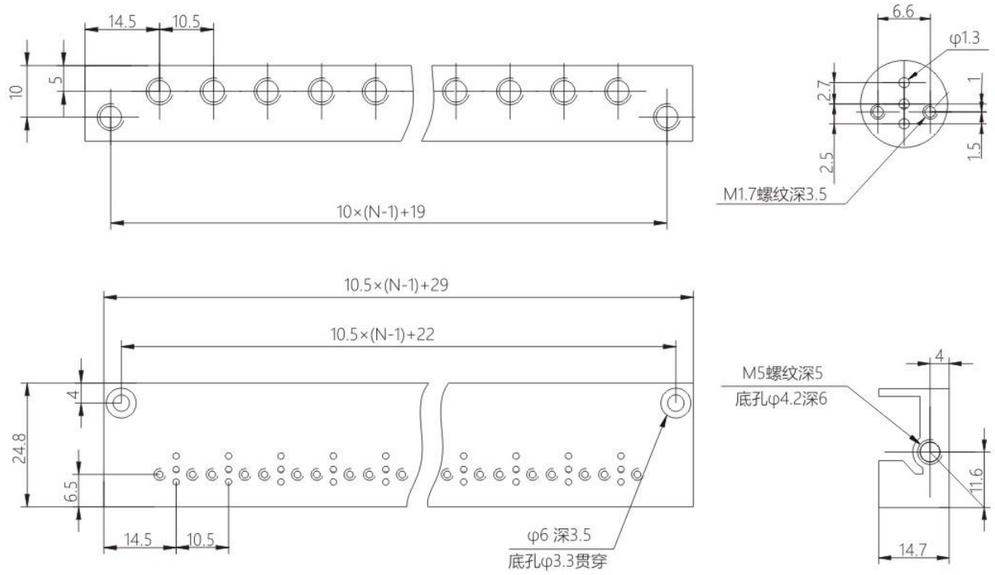


Seal Area Mounting Dimensions

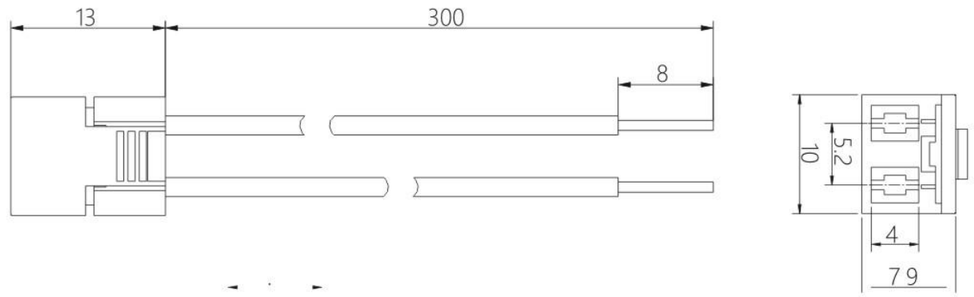


A	B	C	D	E	F	G
2.2	10	6.6	5.6	6.9	2.7	1.6

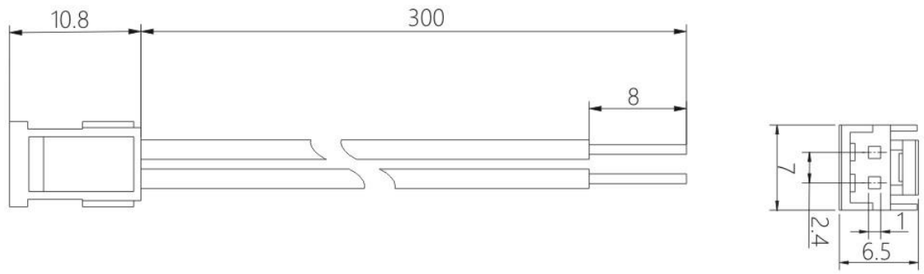
XY-10A Manifold



Vertical Parallel Connectors



Vertical/parallel Connectors



XY-015

FEATURES

1. Small size and convenient installation.
2. Energy saving, high frequency, sustainable work,ED100%.
3. Large flow and wide application industry.
4. Fast response time and multiple uses.
5. Various power connection modes.
6. Low starting voltage, suitable for use under harshConditions.
7. Long life, more lasting.

INSTALL AND OPERATION

1. Before install, PIs be noted the service conditions of the valve, such as working pressure range and power supply conditions (AC and DC voltage).
2. Before install, conduct ventilation and power on test on the test bench to check whether the reversing performance is normal.
3. Before install, the rust, dust and other dirt in the pipeline shall be completely removed.
4. When installing the solenoid valve, pay attention to the installation position and the indicated air flow direction, and do not connect it wrongly. A water separation air filter, a pressure reducing valve and an oil mist lubricator must be installed upstream of the valve air source port to ensure that the supply valve has a certain pressure of dry, clean and lubricated air.

SPECIFICATION

Model NO.		XY-015	
Working pressure		Orifice ϕ1.4	0.05-0.7 MPa
		Orifice ϕ1.2	0.05-1.0MPa
Working medium		Compressed air(filtered by 40μm filter screen)	
Ambient temp and medium temp		-5~50℃(unfrozen)	
Response time		10ms	
Action mode		Direct action	
Max.operating frequency		30Hz	
Manual operation mode		Non-Locking Push-Press type	
Connection type		Quick connection(Vertical / Parallel / Vertical-Parallel) / wire Leaded / Pin Type	
Coil rated power	DC	DC12/24V	
	AC(50/60Hz)	AC110/220	
Allowable voltage fluctuation		Rated voltage±10%	
Power consumption	Standard	2.5W	
	With power saving circuit	Starting power 3.6W / Maintenance power 0.7W	
Overcurrent protection circuit		Optional	
Indicator light		Yes, with LED display	
Insulation class		F	

ORDERING CODE

XY-015 1 – A L □ □ □ – □ – 300 2T □

1 2 3 4 5 6 7 8 9 10 11

1. Model Series
XY-015

2. Working Type
1:3/2 N.C

2:3/2 N.O

3. Voltage
A:AC220V
B:DC24V
C:AC110V
D:DC12V

4. Connection Type
E:Lead type L:Vertical type M:Parallel type

N:Vertical parallel universal Q:Pin type

5. Indicator light, surge voltage protection circuit
Blank: With indicator light and no surge voltage protection circuit
R: With indicator light and surge voltage protection circuit
Z: No indicator light, no surge voltage protection circuit
U: No indicator light, with surge voltage protection circuit
*Pin type without indicator

6. Airhole direction
T: Air holes in same direction as pins
F: Air holes reversed with pins

7. Manual Lever Mode
Blank: With Manual Lever
1: Without Manual Lever

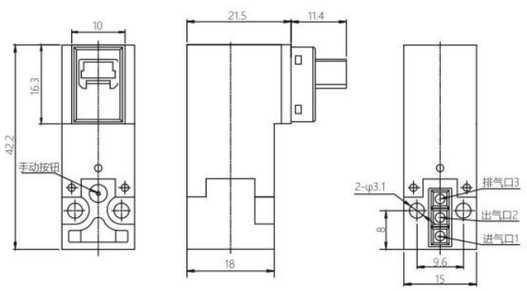
8. Insert mode (pin type optional)
A: Without insert
B: With insert

9. Wire Length
300mm 600mm Customized

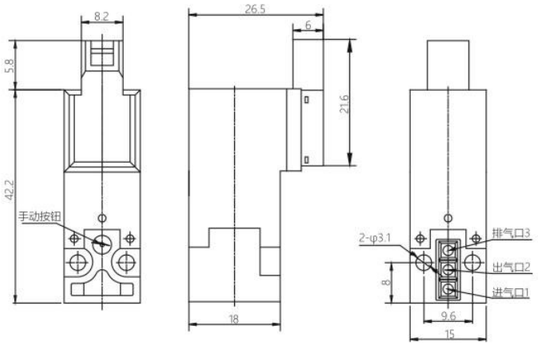
10. Valve quantity
1T: one valve manifold
2T: two valves manifold
20T: twenty valves manifold

11. Manifold thread type
Blank: G
R: RC
N: NPT

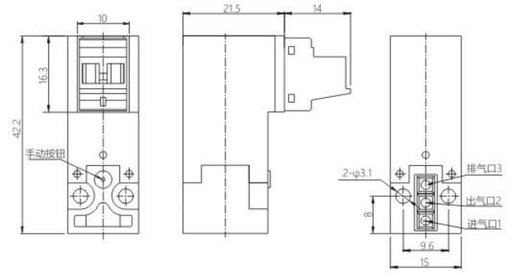
XY-015 Vertical



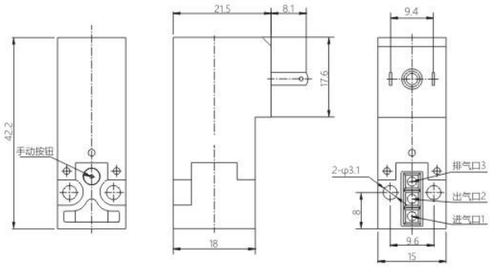
XY-015 Parallel



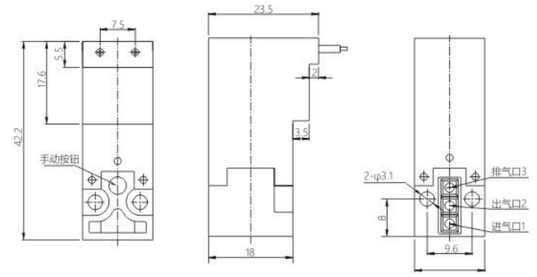
XY-015 Vertical Parallel



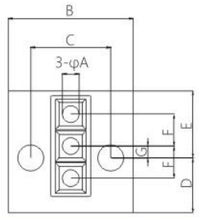
XY-015 Pin Type



XY-015 Lead Type

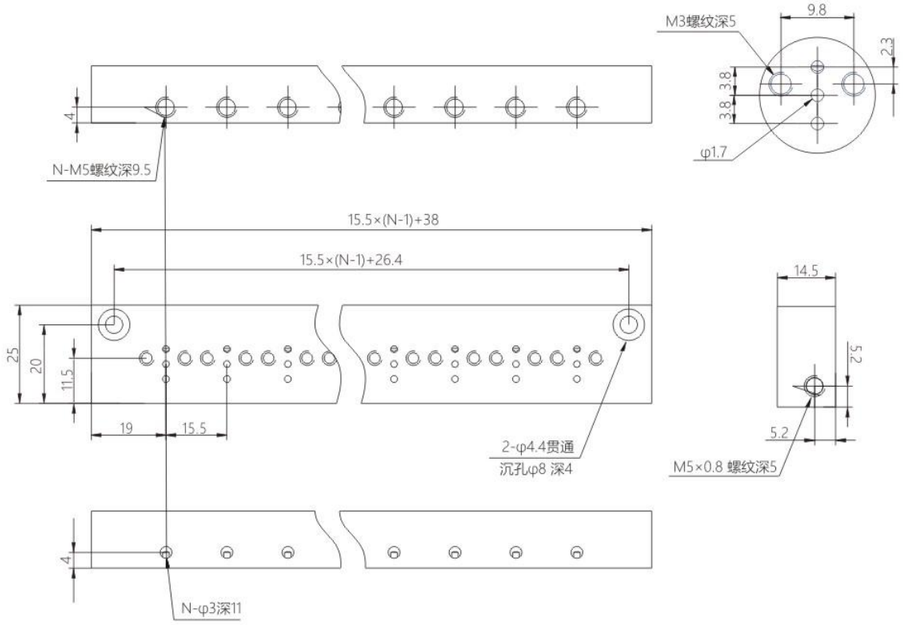


Seal Area Mounting Dimensions

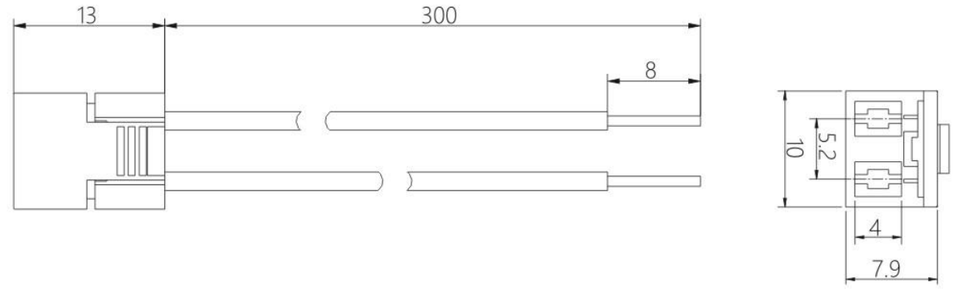


A	B	C	D	E	F	G
4	15	9.6	6.5	8	3.8	1.4

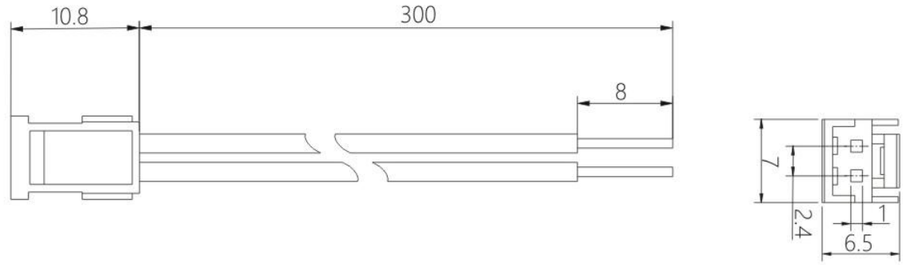
XY-10A Manifold



Vertical Parallel Connectors



Vertical/parallel Connectors



XY-10AH Manifold

SPECIFICATION

Item No.	XY-10AH
Working Medium	Compressed Air (filtered by 40μm filter screen)
Working Temp.	-20~70℃
Suitable	XY-10A Micro Valve

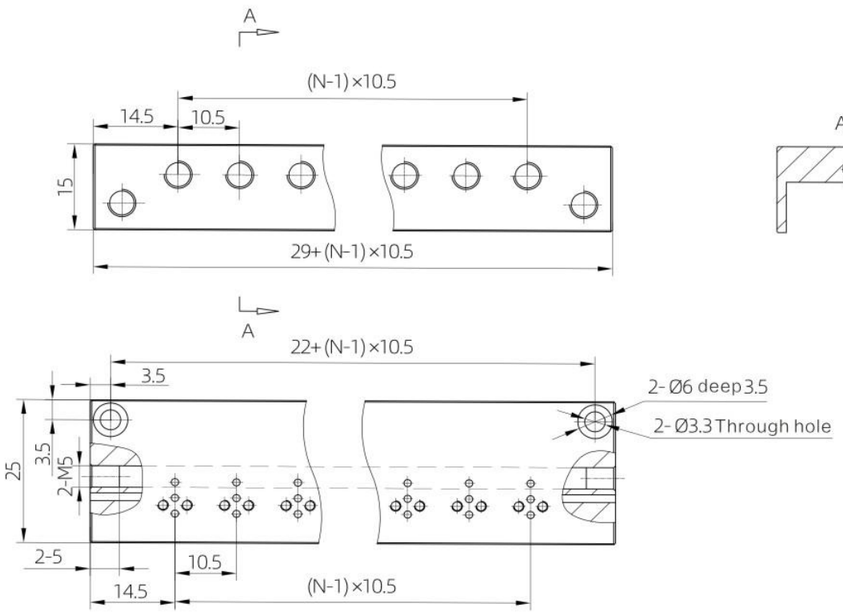
FEATURES

1. The same series of directional control valves can be integrated into the valve group to save space and cost.
2. Unified air inlet and exhaust, unified wiring, easy to find in case of failure.
3. Flexible combination and strong expansibility. The number of connected directional control valves can be combined or expanded arbitrarily.

INSTALL AND OPERATION

1. It shall be used in combination with the supporting solenoid valve.
2. During installation, foreign matters shall be prevented from entering the pipeline.
3. If there is a spare gas path, a blind plate shall be used to block the gas path.
4. Please pay attention to dust prevention. When it is removed and not used, install dust plugs at the air inlet and outlet.

XY-10AH Drawing



XY-10A Manifold

SPECIFICATION

Working Medium	Compressed Air (filtered by 40μm filter screen)
Working Temp.	-5~+50℃
Working Pressure	0~0.7MPa
Voltage	DC12V、DC24V、AC110V、AC220V
Connection Size	Φ4/Φ6

FEATURES

1. The number of connections is optional to meet various application scenarios.
2. The product adopts special seals with good sealing performance.
3. Centralized gas supply, simplified gas circuit, space saving and cost saving.
4. Unified air inlet and exhaust and unified wiring are convenient for installation and commissioning.

ORDERING CODE

XY-10AF 1 – A L □ □ □ – □

1. Series
XY-10AF

2. Working Type
1 : 3/2 NC
2 : 3/2 NO
3 : 2/2 NC

3. Voltage
A : AC220V
B : DC24V
C: AC110V
D : DC12V

4. Connection Type
L : Vertical type
M : Parallel type
N : Vertical parallel universal

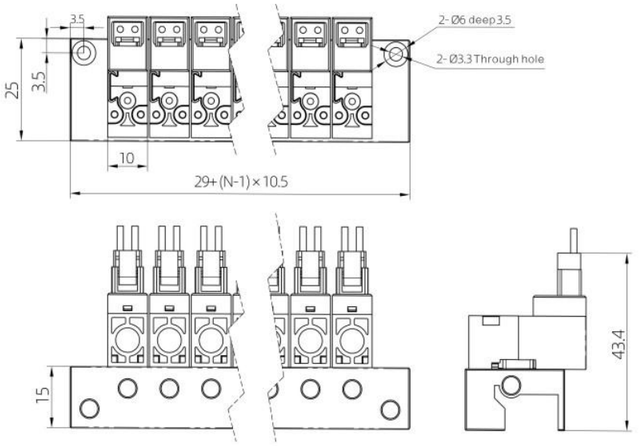
5. Indicator light, surge voltage protection circuit
Blank: With indicator light and no surge voltage protection circuit
R: With indicator light and surge voltage protection circuit
Z: No indicator light, no surge voltage protection circuit
U: No indicator light, with surge voltage protection circuit

6. Exhaust Type
Blank : Exhaust Directly
N: Indirect Exhaust

7. Manual Lever Mode
Blank: With Manual Lever
1 : Without Manual Lever

8. No. of Valve
2T 5T
3T 6T
4T

XY-10A Drawlng



XY-15AH Manifold

SPECIFICATION

Item No.	XY-15AH
Working Medium	Compressed Air (filtered by 40μm filter screen)
Working Temp.	-20~70℃
Suitable	XY-015 Micro Valve

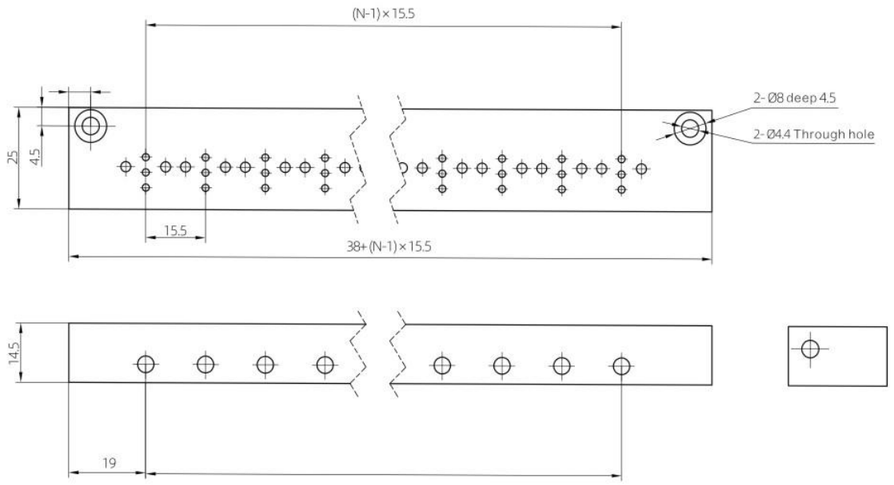
FEATURES

1. The same series of directional control valves can be integrated into the valve group to save space and cost.
2. Unified air inlet and exhaust, unified wiring, easy to find in case of failure.
3. Flexible combination and strong expansibility. The number of connected directional control valves can be combined or expanded arbitrarily.

INSTALL AND OPERATION

1. It shall be used in combination with the supporting solenoid valve.
2. During installation, foreign matters shall be prevented from entering the pipeline.
3. If there is a spare gas path, a blind plate shall be used to block the gas path.
4. Please pay attention to dust prevention. When it is removed and not used, install dust plugs at the air inlet and outlet.

XY-15AH Drawing



XY-015 Manifold

SPECIFICATION

Working Medium	Compressed Air (filtered by 40μm filter screen)
Working Temp.	-5~+50℃
Working Pressure	0~0.7MPa
Voltage	DC12V、DC24V、AC110V、AC220V
Connection Size	Φ4/Φ6

FEATURES

1. The number of connections is optional to meet various application scenarios.
2. The product adopts special seals with good sealing performance.
3. Centralized gas supply, simplified gas circuit, space saving and cost saving.
4. Unified air inlet and exhaust and unified wiring are convenient for installation and commissioning.

ORDERING CODE

XY-015F 1 – A L □ □ □ – □ – □ – 2T

1. Series
XY-015F

2. Working Type
1 : 3/2 NC
2 : 3/2 NO

3. Voltage
A : AC220V
B : DC24V
C: AC110V
D : DC12V

4. Connection Type
L : Vertical type
M : Parallel type
N : Vertical parallel universal
Q : Pin type

5. Indicator light, surge voltage protection circuit
Blank: With indicator light and no surge voltage protection circuit
R: With indicator light and surge voltage protection circuit
Z: No indicator light, no surge voltage protection circuit
U: No indicator light, with surge voltage protection circuit
*Pin type without indicator

6. Exhaust Type
Blank : Exhaust Directly
N: Indirect Exhaust

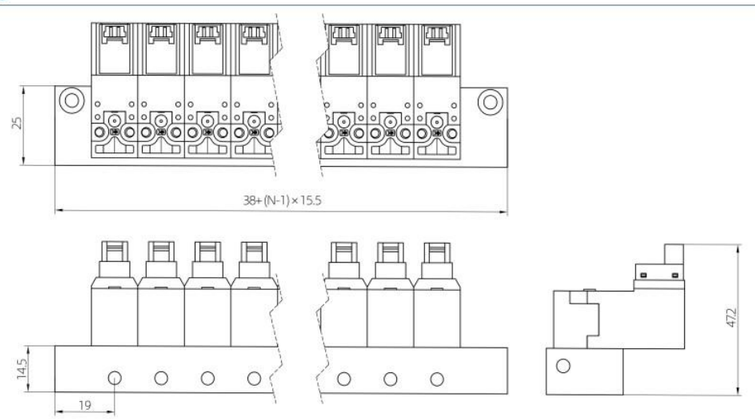
7. Manual Lever Mode
Blank: With Manual Lever
1 : Without Manual Lever

8. Insert mode(Pin type option)
A: Without Insert
B: With insert

9. Connector(Pin type option)
C: With connector
D: Without connector

10. No. of Valve
2T
3T
4T
5T
6T

XY-15 Drawlng



Two-way Three Position High Frequency Solenoid Valve

- Large flow and high working frequency,High working pressure, wide use, no need for oil lubrication
- Low power consumption, energy conservation and environmental protection,Sustainable work ED100%
- It is designed with manual button device, which can be debugged and used
- Lead type power connection is adopted, which is convenient for power connection and saves installation space
- Sliding column structure, good sealing and sensitive response
- The inner hole is processed by special process, with small friction resistance, low starting pressure and long service life

3PA219

INSTALL AND OPERATION

1. Check all parts in fine conditions before operation carefully
2. Pay much attention to the medium flow direction, which must be filtered by 40μm element, and exact matched piping threads
3. Pay attention the installation specifications comply with technical requirements(such as,for voltage/frequency/ pressure/ ambient temp. range...)and keep a balanced mounting
4. Do not use in heavy vibration conditions and take frost-proof measures in low temperature as well.
5. Before piping connection,keep coiling sealant tape not exceed to the threads top and prevent chips/dust/other debris from into valve body as well.
6. To cover the Inlet & Outlet for dust-proof while reserved

SPECIFICATION

Appearance	Compact structure
Product type	High flow 3/2 high frequency valve
Valve Body	Aluminium
Connection	Thread（G1/8）(NPT1/8)
Port Size	Input=Output=Exhaust =G1/8
Working Medium	Compressed Air (filtered by 40μm filter screen)
Working Type	Direct Action
Medium Temp.	5~50℃
Power connection	Leading Wire Type
Power	1.8W
Voltage	DC24V±10%
Working Pressure	-1~7bar
Max.Pressure	1.0MPa
Lubrication	No need
Ambient Temp	-5~50℃ (Not frozen)
Use environment	Do not use in corrosive gas environment
Protection Class	IP65
Working Temp.	-5~50℃
Response Time	≤20ms
Applicable cylinder	Φ16-Φ40

Note: the response time is the value tested under the condition of providing pressure of 5bar and no oil supply.

ORDERING CODE

3PA219 – 06 1 – B YL □ 1

1 2 3 4 5 6 7

1. Series
3PA219

2. Connection Port
06:1/8
08:1/4

3. Manual Lever Mode
1:With Manual Lever
2:Without Manual Lever

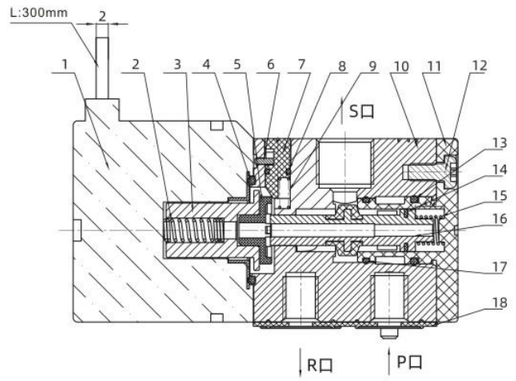
4. Voltage
B:DC24V
D:DC12V

5. Connection Type
L:Vertical type
M:Parallel type
YL:Leading Wire type

6. Thread Type
Blank:G
N:NPT

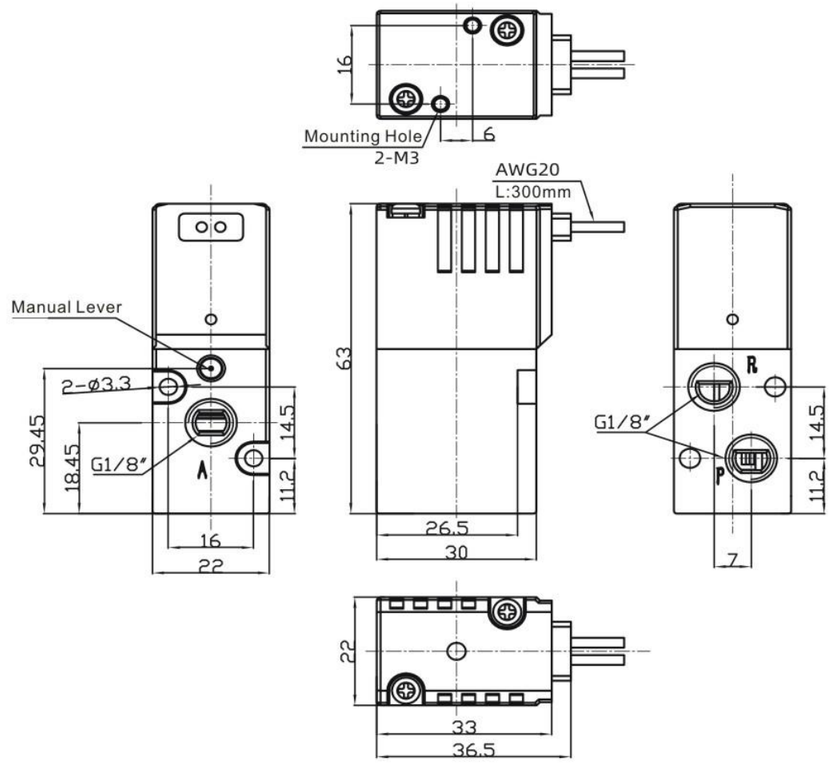
7. Accessories
1: With rubber mounting plate
2: Without rubber mounting plate

3PA219 Profile



No.	Description	Material	No.	Description	Material
1	Solenoid Coil	Resin	10	Valve Body	Aluminum
2	Spring	S.S	11	Back cover	Resin
3	Plunger	Electromagnetic stainless steel	12	Screw	S.S
4	O -ring	NBR	13	O -ring	NBR
5	Base	POM	14	O -ring	NBR
6	Fixing pin	S.S	15	Spring	S.S
7	Manual Lever	POM	16	Piston rod	Aluminum
8	O -ring	NBR	17	O -ring	NBR
9	Spring	S.S	18	SEAL	NBR

3PA219 Drawing



4V Series Valve

- Sliding column structure,
- Good sealing and sensitive response
- With Manual Lever ,easy to install and test
- Variety of standard voltages are available valve group can be integrated with the base to save installation space

4V100

4V200

4V400

4V300

ORDERING CODE

4V ① 2 ② 10 ③ – 08 ④ A ⑤ – □ ⑥ □ ⑦ 500 ⑧ – 2T ⑨ □ ⑩

1. Specification
4V : 5/2(5/3) Solenoid Valve
4M : 5/2(5/3) Air control valve
3V : 3/2 Solenoid Valve

2. Series
1 : 100 Series
2 : 200 Series
3 : 300 Series
4 : 400 Series

3. Coil & Position
10 : Single Coil Double Position
20 : Double Coil Double Position
30C : Double Coil Three Position Center Close type
30E : Double Coil Three Position Center Exhaust type
30P : Double Coil Three Position Center Pressure type

4. Pipe Size
M5 : M5 100 Series
06 : 100/200 Series
08 : 200/300 Series
10 : 300/400 Series
15 : 400 Series

5. Voltage
A : AC220V
B : DC24V
C : AC110V
D : DC12V
E : AC24V

6. Wire connection
No symbol : Standard terminal type
W : Lead Type

7. Thread type
Blank: G
R: RC
N: NPT

8. Wire Length
500mm Customized

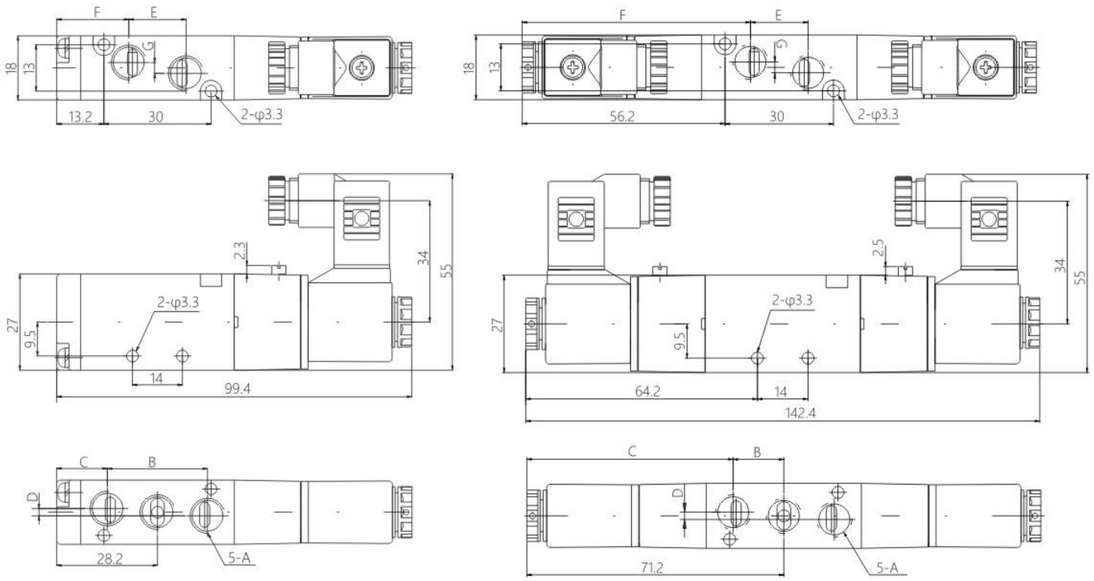
9. Valve quantity
1T: one valve manifold
2T: two valves manifold
20T: twenty valves manifold

10. Manifold thread type
Blank: G
R: RC
N: NPT

SPECIFICATION

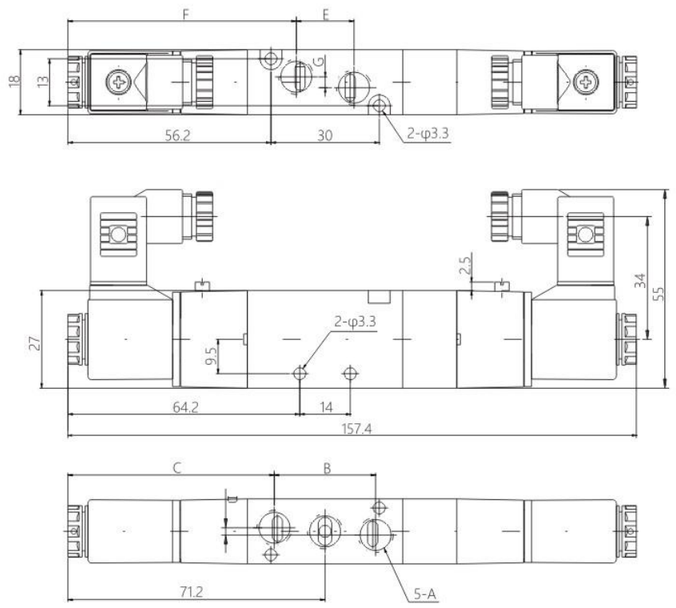
4V 5 Port Valve Specification						
Item No.		4V100-M5/06	4V200-06/08		4V300-08/10	4V400-10/15
Working Pressure		0.15 -0.8 MPa				
Working Medium		Compressed Air (filtered by 40μm filter screen)				
Ambient Temp. ℃		-10~60 (Non-Freezing)				
Connection Port		M5:Input=Output=Exhaust=M5	06:Input=Output=Exhaust=1/8		08:Input=Output=Exhaust=1/4	10:Input=Output=Exhaust=3/8
			08:Input=Output=1/4		10:Input=Output=3/8	15:Input=Output=1/2
		06:Input=Output=Exhaust=1/8	Exhaust=1/8		Exhaust=1/4	Exhaust=3/8
Working Type		Pilot type				
Max. Pressure MPa		1.2				
Max. Frequency Hz	Two Position Five Way	5	5		4	3
	Two Position Five Way	3				
Effective Cross-Sectional Area mm²	Three Position Five Way	M5:5.5 / 06:12	06:14 / 08:16		08:25 / 10:30	10:42 / 15:50
	Three Position Five Way	M5:5 / 06:9	12		18	42
Terminal		Leading Wire Or DIN type				
Coil Rated Voltage V	DC	12 / 24				
	AC	24 / 110 / 220				
Voltage Tolerance		DC ± 10% AC± 15%				
Power Consumption W/VA	Coil/ Voltage	DC12	DC24	AC24	AC110	AC220
	100 Coil	2.8	2.8	3.0 / 5.0		
	200 Coil	4.8	4.8	3.5 / 5.5		
Protection Class		IP65				

3V 3 Port Valve Specification					
Item No.		3V100-M5/06	3V200-06/08	3V300 -08/10	3V400-10/15
Working Pressure		0.15 -0.8 MPa			
Working Medium		Compressed Air (filtered by 40μm filter screen)			
Ambient Temp. ℃		-10~60 (Non-Freezing)			
Connection Port		M5:Input=Output=Exhaust=M5	06:Input=Output=Exhaust=1/8	08:Input=Output=Exhaust=1/4	10:Input=Output=Exhaust=3/8
		06:Input=Output=Exhaust=1/8	08:Input=Output=Exhaust=1/4	10:Input=Output=Exhaust=3/8	15:Input=Output=Exhaust=1/2
Working Type		Pilot type			
Max. Pressure MPa		1.2			
Max. Frequency Hz		5	5	5	3
Effective Cross-Sectional Area mm²		M5:5 / 06:12	06:14 / 08:16	08:25 / 10:30	10:42 / 15:50
Terminal		Leading Wire Or DIN type			
Coil Rated Voltage V	DC	12 / 24			
	AC	24 / 110 / 220			
Voltage Tolerance		DC ± 10% AC± 15%			
Power Consumption W/VA	Coil/ Voltage	AC12	DC24	AC24	AC110	AC220
	100 Coil	2.8	2.8	3.0/ 5.0		
	200 Coil	4.8	4.8	3.5 / 5.5		
Protection Class		IP65				

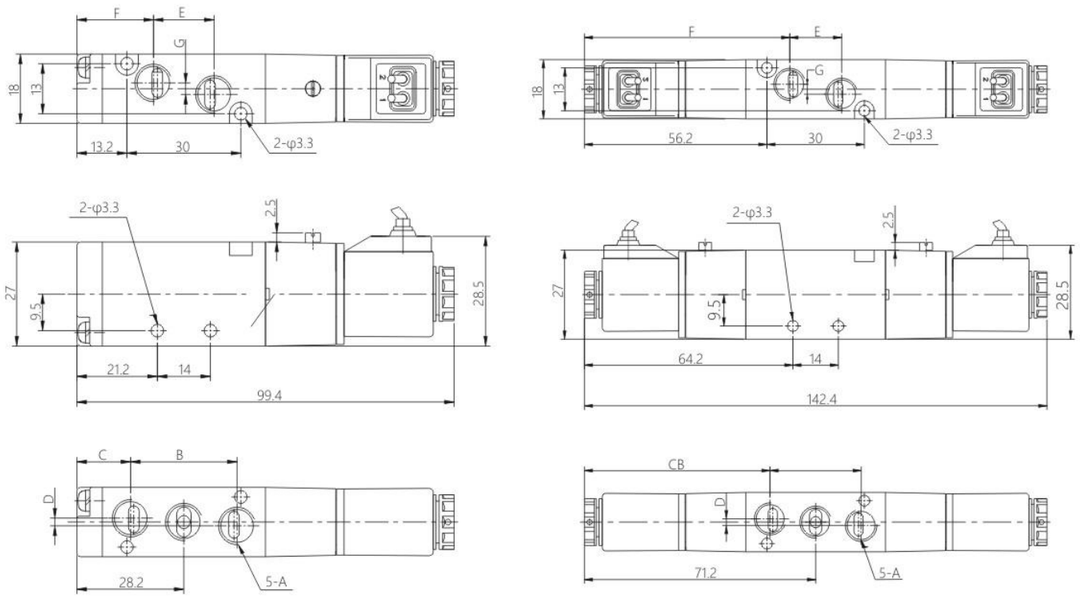


Model	A	B	C	D	E	F	G
4V110-M5	M5×0.8	27	14.7	0	14	21.2	0
4V110-06	G1/8	28	14.2	1	16	20.2	3

Model	A	B	C	D	E	F	G
4V120-M5	M5×0.8	27	57.7	0	14	64.3	0
4V120-06	G1/8	28	57.2	1	16	63.2	3

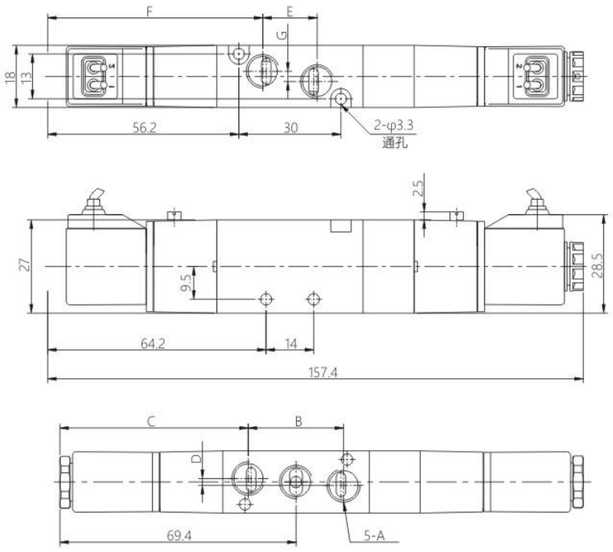


Model	A	B	C	D	E	F	G
4V130-M5	M5×0.8	27	57.7	0	14	64.3	0
4V130-06	G1/8	28	57.2	1	16	63.2	3

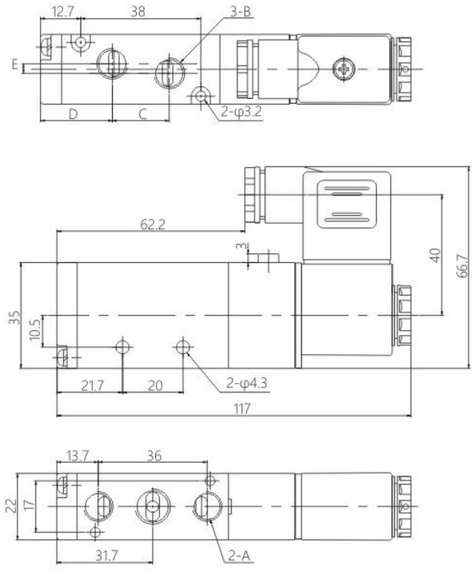


Model	A	B	C	D	E	F	G
4V110-M5	M5×0.8	27	14.7	0	14	21.2	0
4V110-06	G1/8	28	14.2	1	16	20.2	3

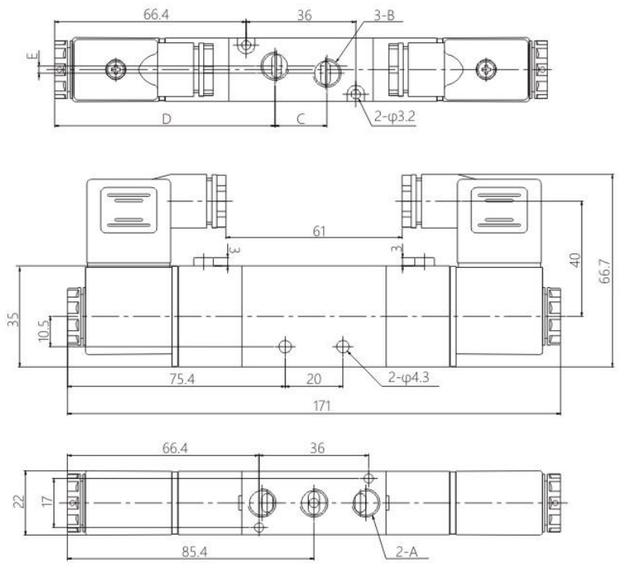
Model	A	B	C	D	E	F	G
4V120-M5	M5×0.8	27	57.7	0	14	64.3	0
4V120-06	G1/8	28	57.2	1	16	63.2	3



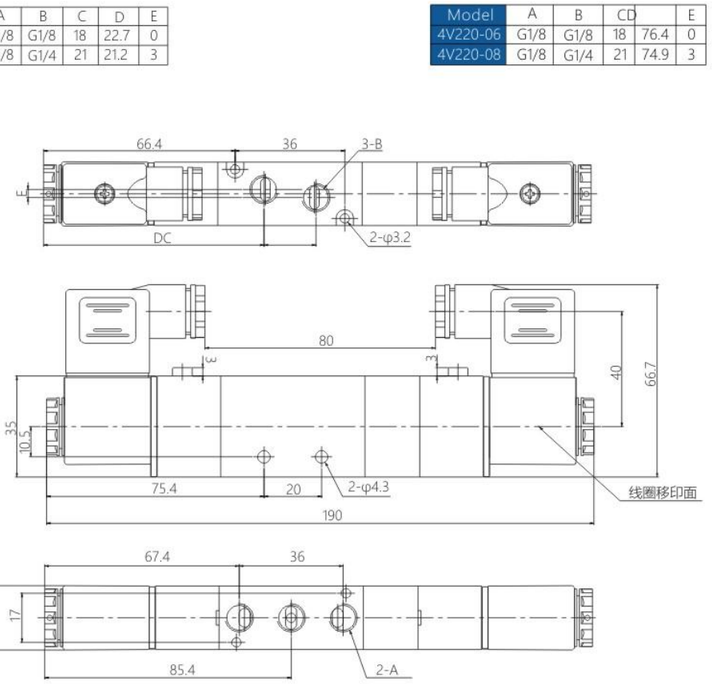
Model	A	B	C	D	E	F	G
4V130-M5	M5×0.8	27	57.7	0	14	64.3	0
4V130-06	G1/8	28	57.2	1	16	63.2	3



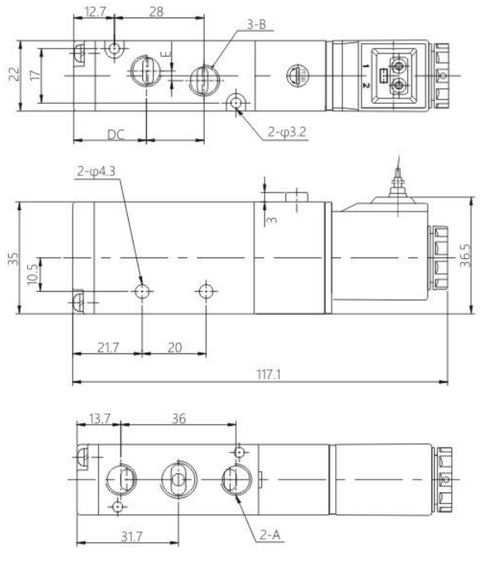
Model	A	B	C	D	E
4V210-06	G1/8	G1/8	18	22.7	0
4V210-08	G1/8	G1/4	21	21.2	3



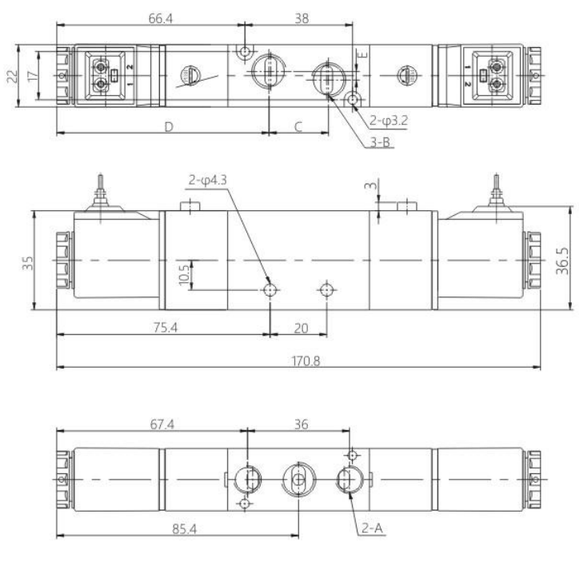
Model	A	B	CD		E
4V220-06	G1/8	G1/8	18	76.4	0
4V220-08	G1/8	G1/4	21	74.9	3



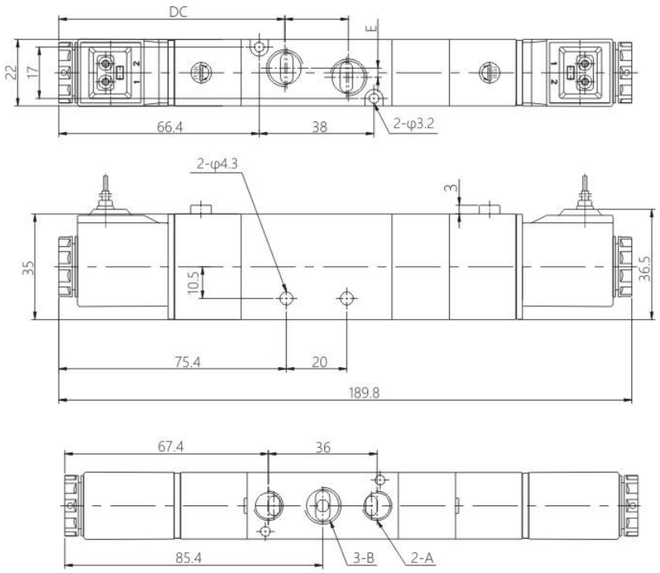
Model	A	B	CD		E
4V230-06	G1/8	G1/8	18	76.4	0
4V230-08	G1/8	G1/4	21	74.9	3



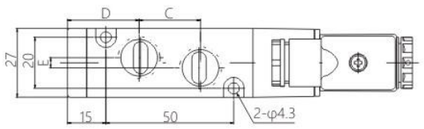
Model	A	B	C	D	E
4V210-06	G1/8	G1/8	18	22.7	0
4V210-08	G1/8	G1/4	21	21.2	3

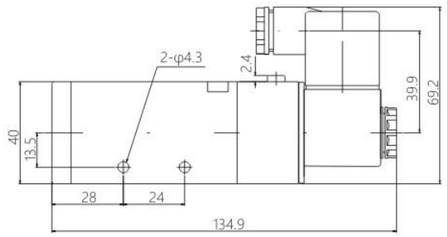


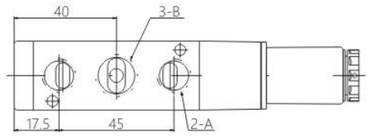
Model	A	B	CD		E
4V220-06	G1/8	G1/8	18	76.4	0
4V220-08	G1/8	G1/4	21	74.9	3



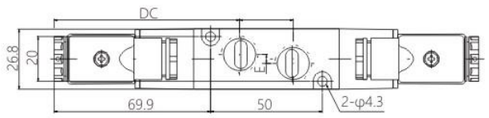
Model	A	B	CD		E
4V230-06	G1/8	G1/8	18	76.4	0
4V230-08	G1/8	G1/4	21	74.9	3

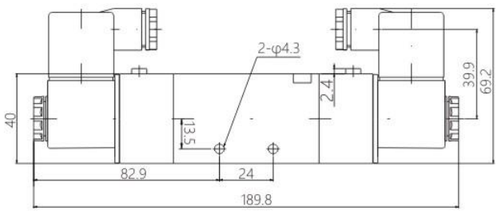


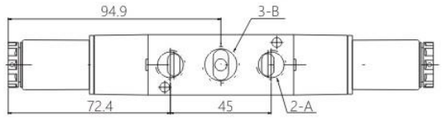




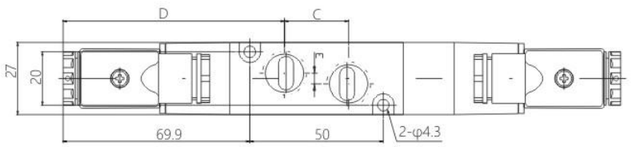
Model	A	B	CD		E
4V310-08	G1/4	G1/4	22	29	0
4V310-10	G1/4	G3/8	24	28	4

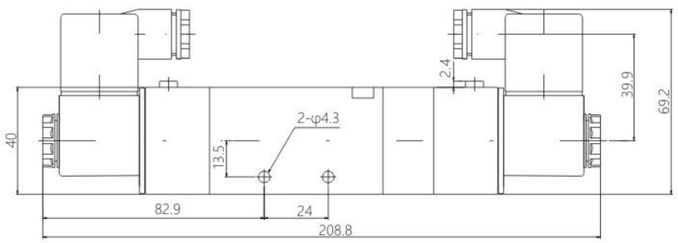


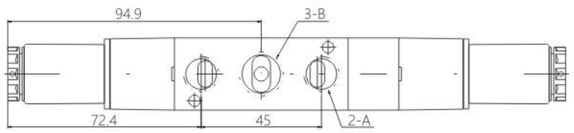




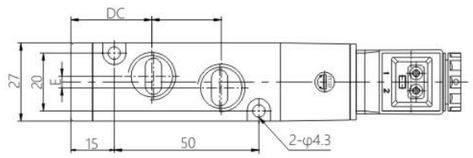
Model	A	B	CD		E
4V320-08	G1/4	G1/4	22	83.9	0
4V320-10	G1/4	G3/8	24	82.9	4

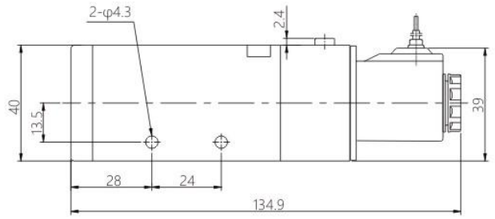


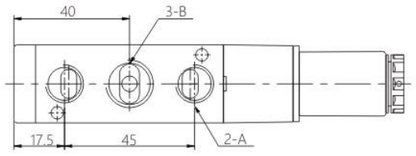




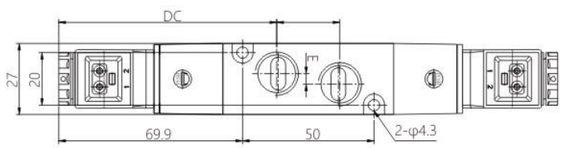
Model	A	B	CD		E
4V330-08	G1/4	G1/4	22	83.9	0
4V330-10	G1/4	G3/8	24	82.9	4

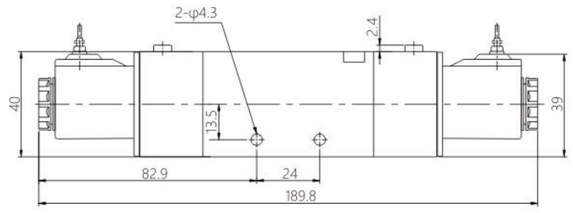


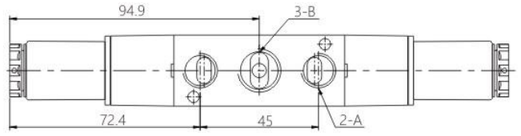




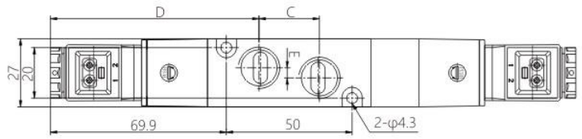
Model	A	B	CD		E
4V310-08	G1/4	G1/4	22	29	0
4V310-10	G1/4	G3/8	24	28	4

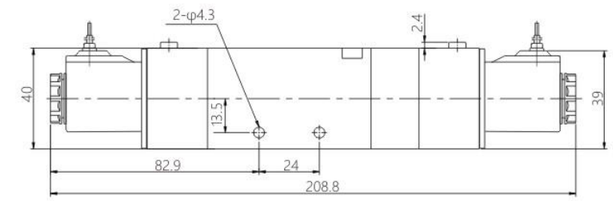


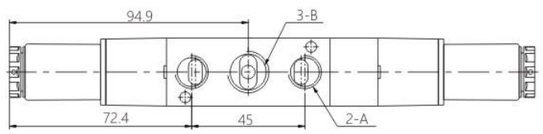




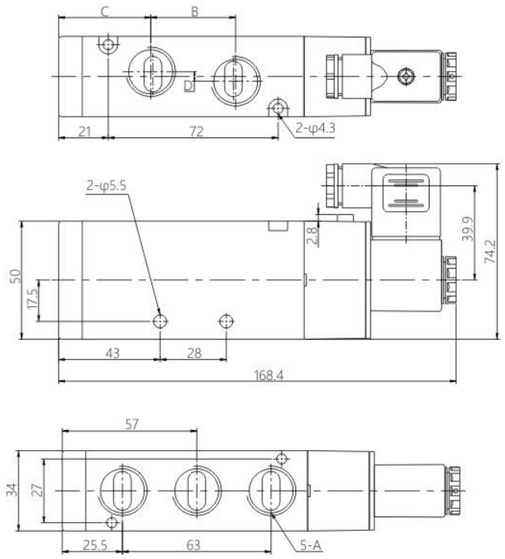
Model	A	B	CD		E
4V320-08	G1/4	G1/4	22	83.9	0
4V320-10	G1/4	G3/8	24	82.9	4



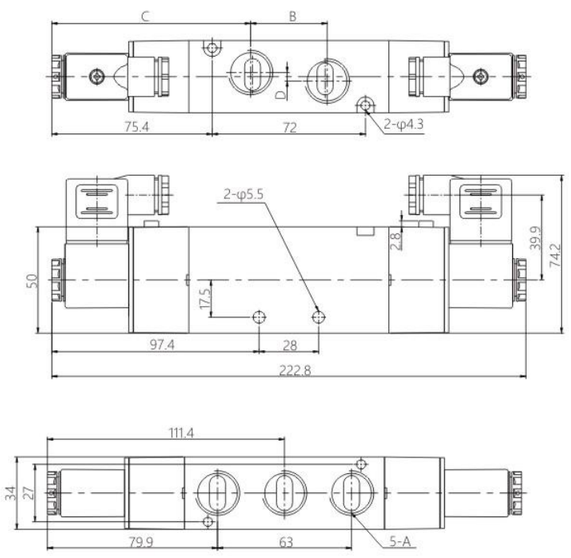




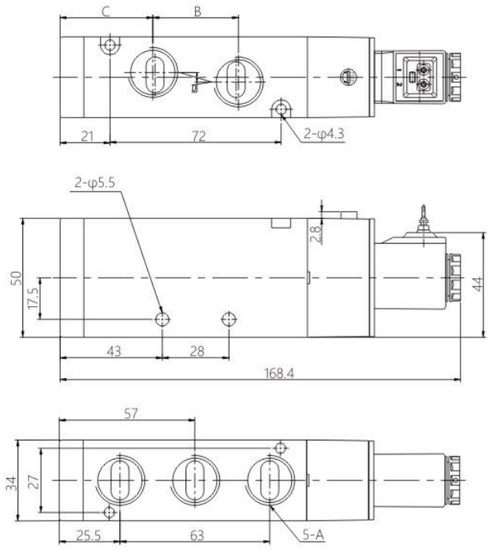
Model	A	B	CD		E
4V330-08	G1/4	G1/4	22	83.9	0
4V330-10	G1/4	G3/8	24	82.9	4



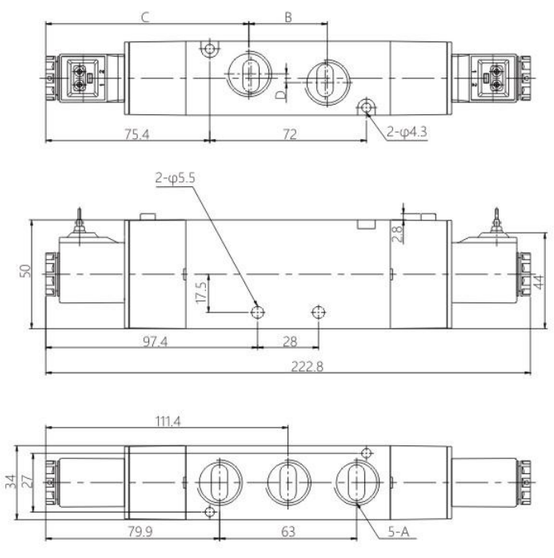
Model	A	B	CD	
4V410-15	G1/2	36	39	4



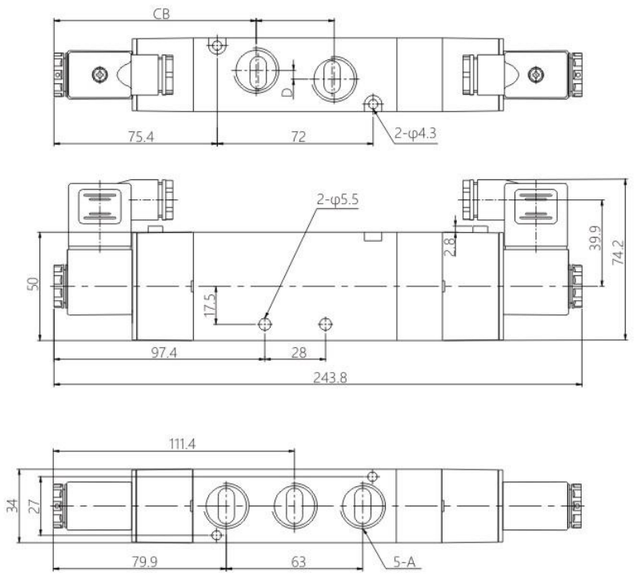
Model	A	B	CD	
4V410-15	G1/2	36	93.4	4



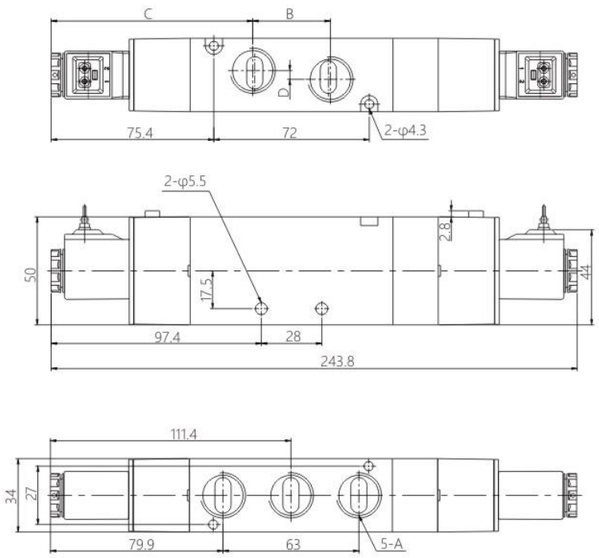
Model	A	B	CD	
4V410-15	G1/2	36	39	4



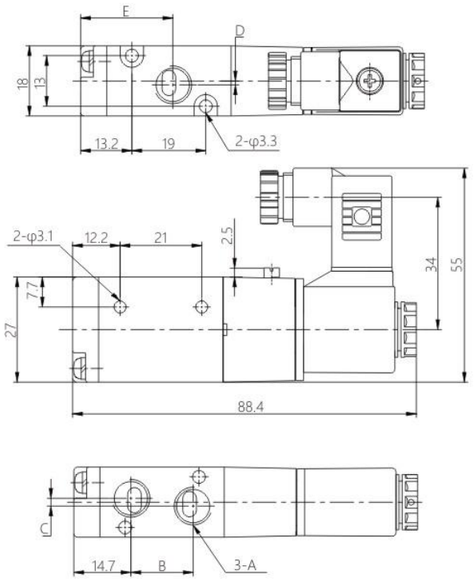
Model	A	B	CD	
4V410-15	G1/2	36	93.4	4



Model	A	B	CD	
4V410-15	G1/2	36	93.4	4

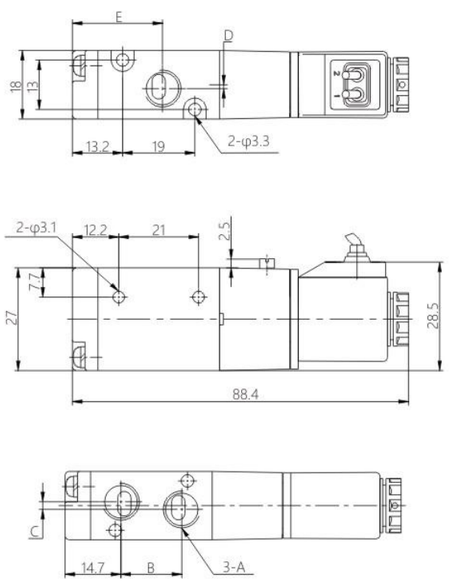


Model	A	B	C	D
4V410-15	G1/2	36	93.4	4

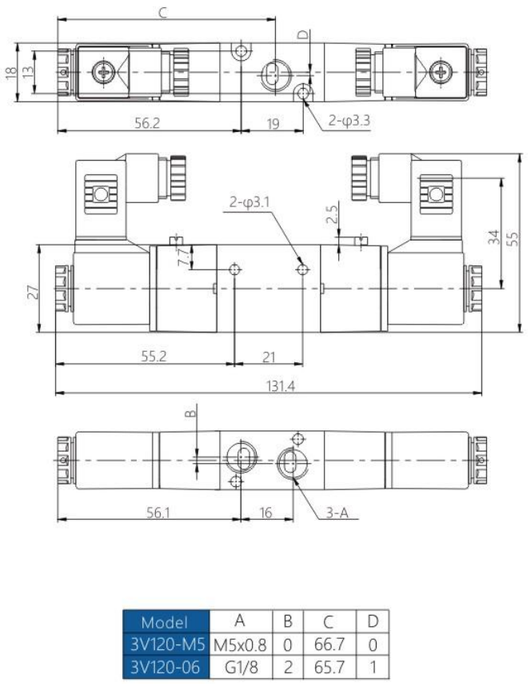


Model

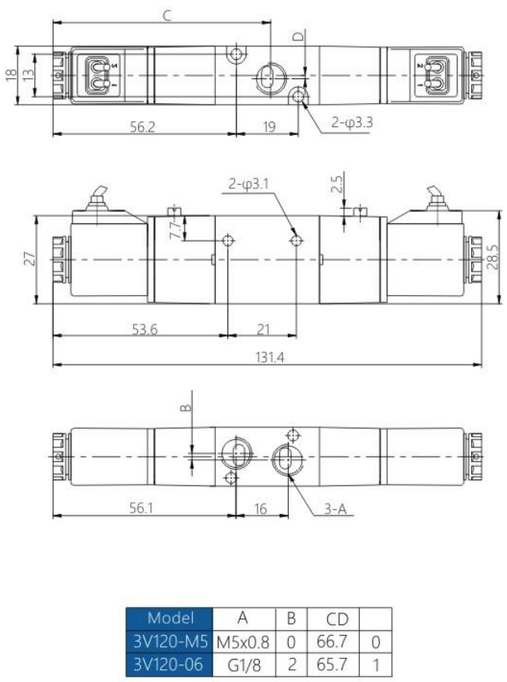
Model	A	B	C	DE	
3V110-M5	M5x0.8	14.2	0	0	22.7
3V110-06	G1/8	16	2	1	23.7



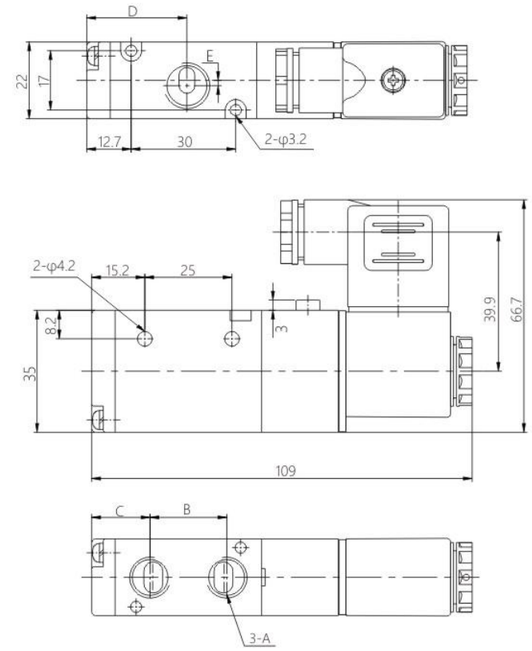
Model	A	B	C	DE	
3V110-M5	M5x0.8	14.2	0	0	22.7
3V110-06	G1/8	16	2	1	23.7



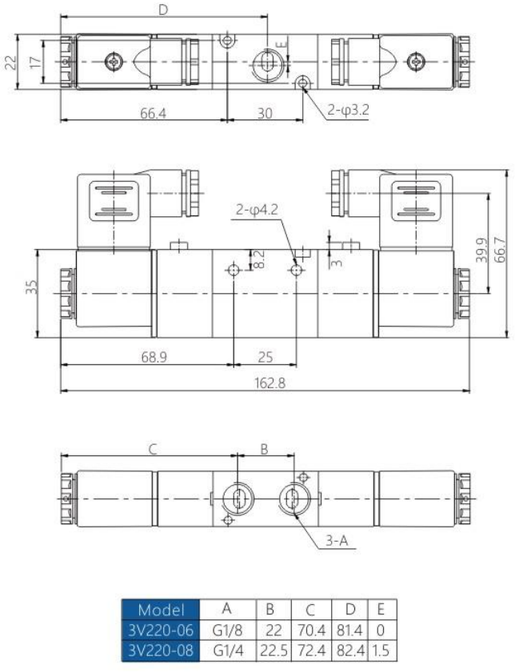
Model	A	B	C	D
3V120-M5	M5x0.8	0	66.7	0
3V120-06	G1/8	2	65.7	1



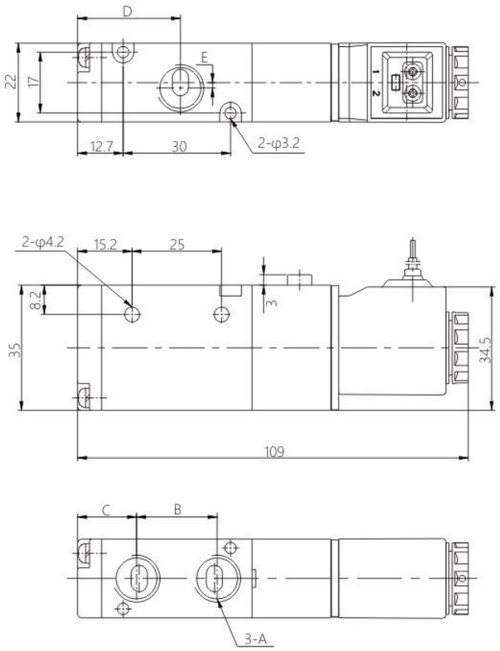
Model	A	B	CD	
3V120-M5	M5x0.8	0	66.7	0
3V120-06	G1/8	2	65.7	1



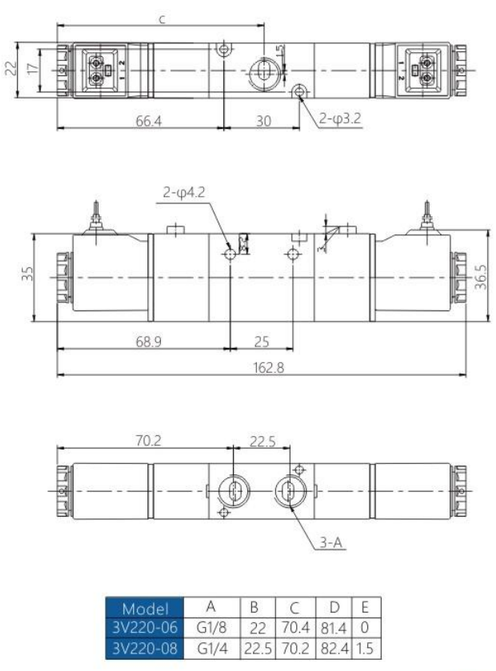
Model	A	B	C	D	E
3V210-06	G1/8	22	16.7	27.7	0
3V210-08	G1/4	22.5	16.5	28.7	1.5



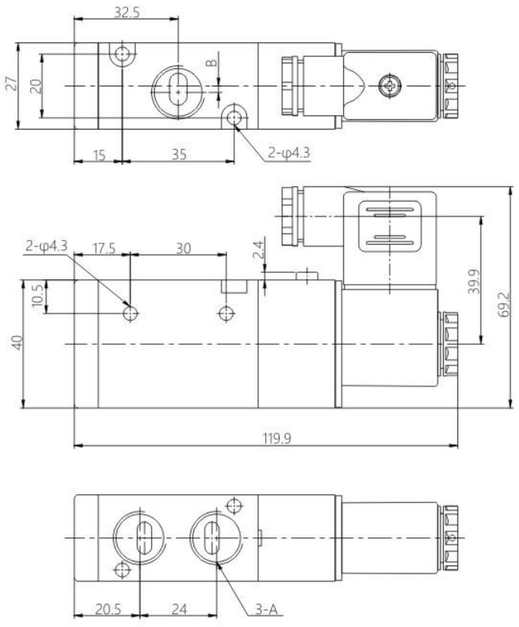
Model	A	B	C	D	E
3V220-06	G1/8	22	70.4	81.4	0
3V220-08	G1/4	22.5	72.4	82.4	1.5



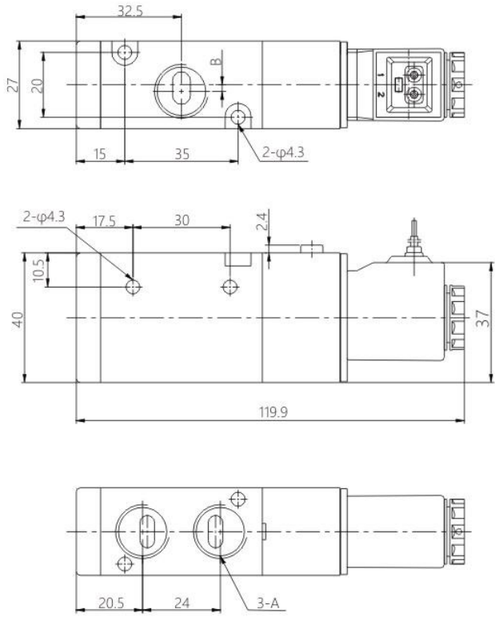
Model	A	B	C	D	E
3V210-06	G1/8	22	16.7	27.7	0
3V210-08	G1/4	22.5	16.5	28.7	1.5



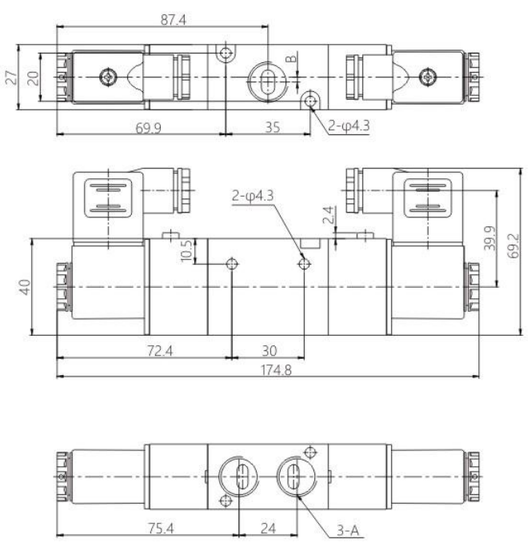
Model	A	B	C	D	E
3V220-06	G1/8	22	70.4	81.4	0
3V220-08	G1/4	22.5	70.2	82.4	1.5



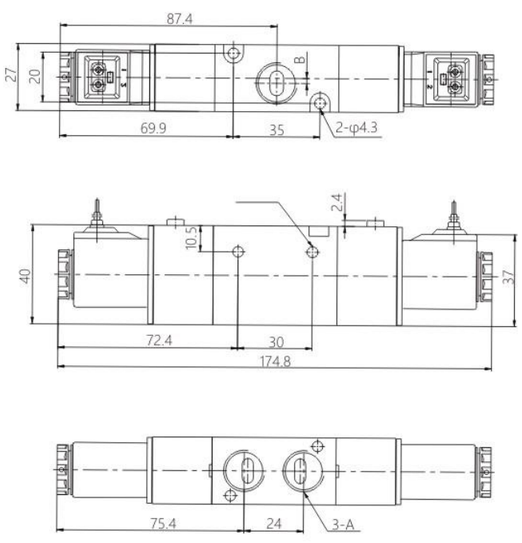
Model	A	B
3V310-08	G1/4	0
3V310-10	G3/8	2



Model	A	B
3V310-08	G1/4	0
3V310-10	G3/8	2

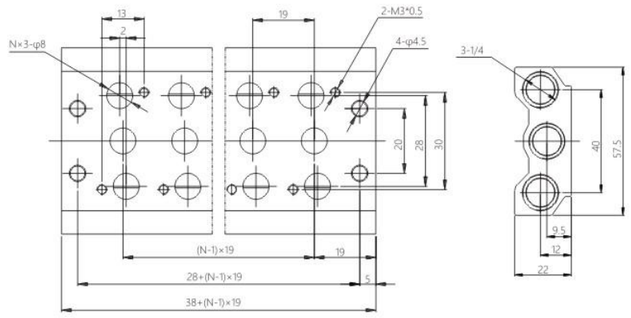


Model	A	B
3V310-08	G1/4	0
3V310-10	G3/8	2

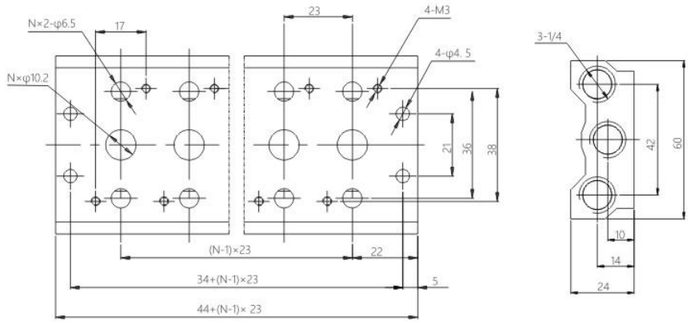


Model	A	B
3V310-08	G1/4	0
3V310-10	G3/8	2

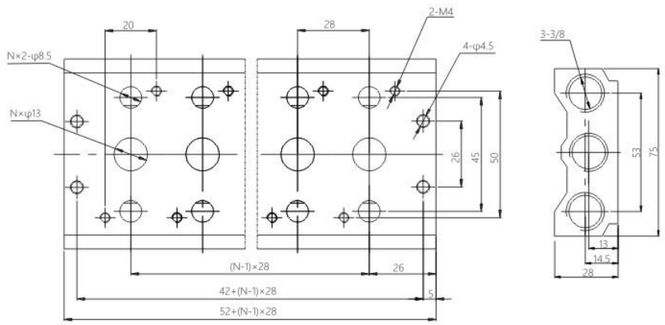
4V100 系汇流板



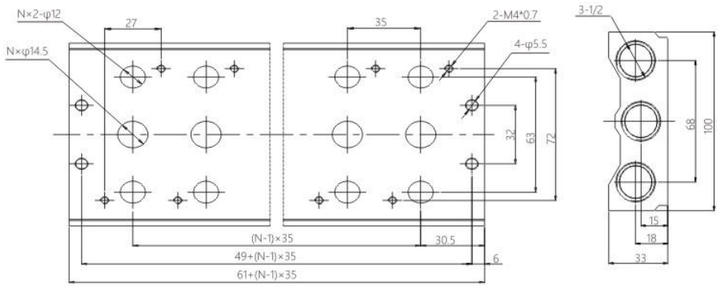
4V200 系汇流板



4V300 系汇流板



4V400 系汇流板



ERV High precision Pressure Regulator

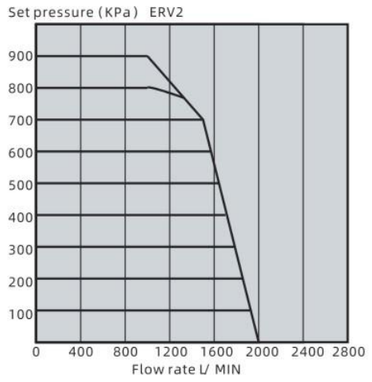
- Digital Pressure Display
- Multi channel air pressure,It has 6 different air pressure selective outputs
- Multiple options,There are 4 pressure units to choose
- Industry innovation,The product performance is superior to similar products in the industry

ERV2

FEATURES

1. Small size, lightweight design.
2. Low consumption.
3. High efficiency and fast response.
4. IP65。

FLOW CHARACTERISTICS



SPECIFICATION

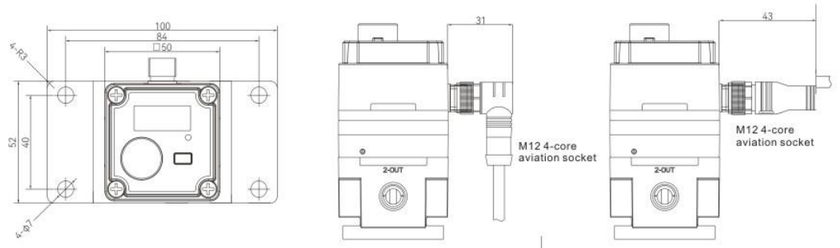
Item No.		ERV2-5
Min. input pressure		Set Pressure + 0.1MPa
Max. input pressure		1MPa
Setting Range		0~1MPa
Power Supply	Voltage	DC24V ±10%
	Current	0.12A or less
Nonlinear		1%F.S.
Hysteresis		0.5%F.S.
Repeatability		0.5%F.S.
Working Temp.		0~50℃
Protection Class		IP65

ORDERING CODE

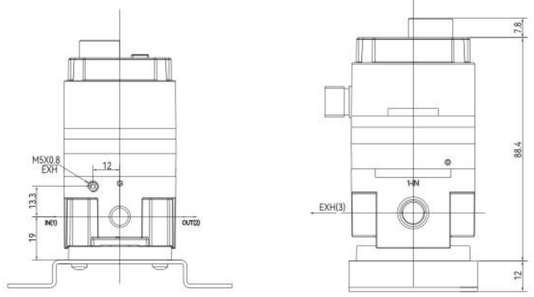
ERV2 – 1 0 0 – □ 2 S – □

1. Series
   ERV2
2. Setting Range
   1: 0.1 Mpa
   1: 0.9 Mpa
3. Voltage
   0 : DC24V
4. Output Signal
   0 : Without Feedback
5. Thread Type
   Blank : Rc
   N: NPT
   T: NPTF
   F: G
6. Port Size
   2: 1/4”
   3: 3/8”
7. Cable Type
   S : Straight 3m Cable
   L : Right Angle 3m Cable
   N : No Cable
8. Bracket
   Blank : No Bracket
   B : Flat Bracket
   C : L type Bracket

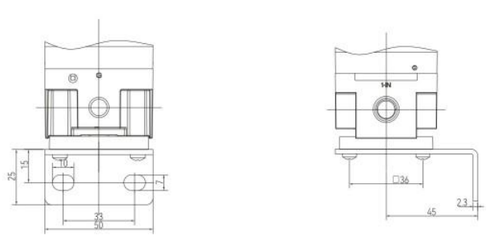
ERV2 DIMENSIONS (UNIT:mm)



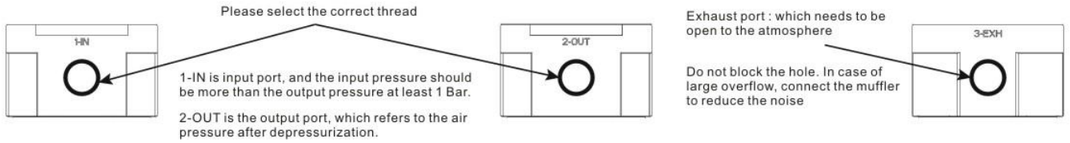
Flat bracket



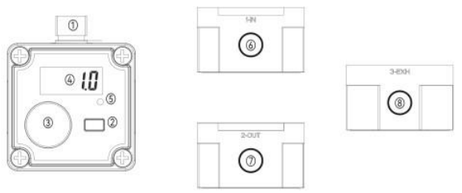
L type bracket



AIR CONNECTION

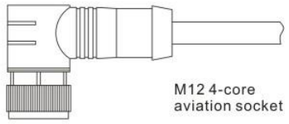


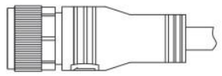
DISPLAY

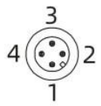


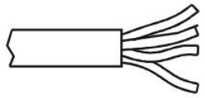
No.	Name	No.	Name
①	M12 Cable	⑤	Mode display LED
②	Set Key	⑥	Input Port
③	Knob	⑦	Output Port
④	Display	⑧	Exhaust Port

POWER CONNECTION



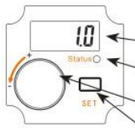






	1：Brown	Power supply(+)
	2：White	
	3：Blue	Power supply(-)
	4：Black	Output

PANEL INTRODUCTION



Part	Remark
Display	Pressure value display, setting display
Status indicator	Constant light- adjustable mode 0, flashing- normal pressure mode 1-6
Knob	Counter clockwise to decrease, clockwise to increase
Set Key	In the normal mode, setting bottom is for circuit switch

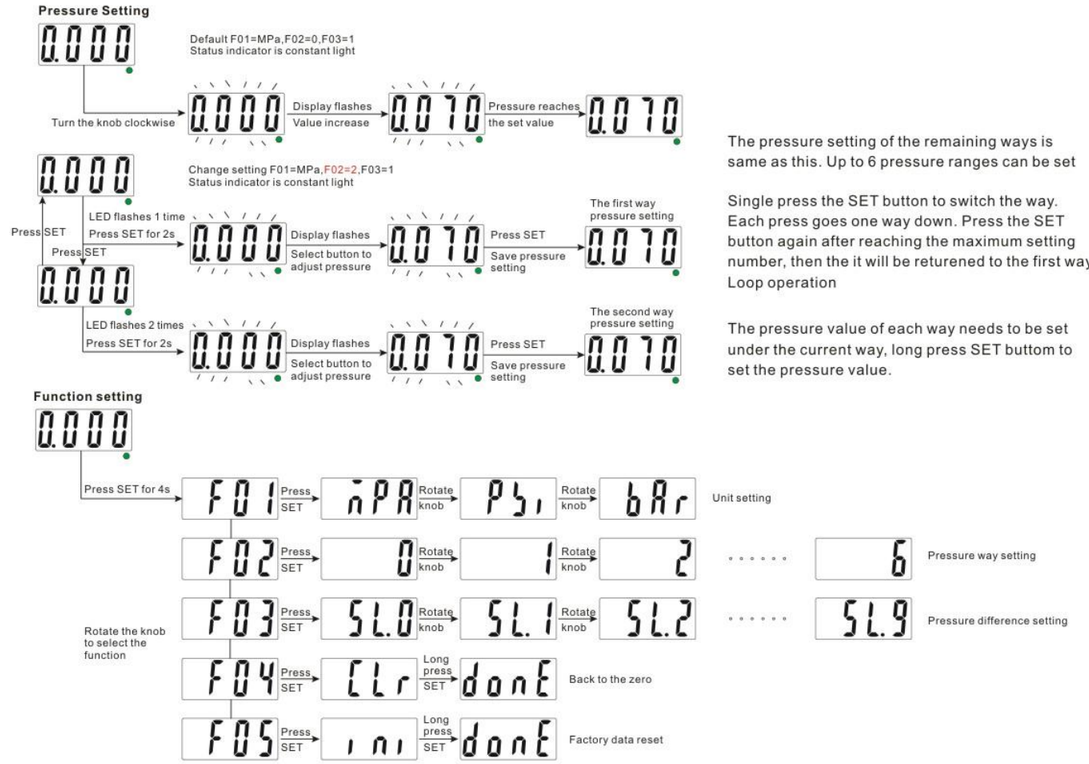
Status indicator introduction

Constant light	Adjustable mode 0	The pressure value can be adjusted directly through the knob
Intermittent flashing (1 time)	Normal pressure mode 1	1 way pressure output, switch pressure cyclically through SET key
Intermittent flashing (2 time)	Normal pressure mode 2	2 way pressure output, switch pressure cyclically through SET key
Intermittent flashing (3 time)	Normal pressure mode 3	3 way pressure output, switch pressure cyclically through SET key
Intermittent flashing (4 time)	Normal pressure mode 4	4 way pressure output, switch pressure cyclically through SET key
Intermittent flashing (5 time)	Normal pressure mode 5	5 way pressure output, switch pressure cyclically through SET key
Intermittent flashing (6 time)	Normal pressure mode6	6 way pressure output, switch pressure cyclically through SET key

Knob setting introduction

Label	Description
Turn left slowly	Decrease by 1 unit
Turn right slowly	Increase by 1 unit
Turn left quickly	Quickly reduce
Turn right quickly	Quickly increase

SOFTWARE INTRODUCTION



The pressure setting of the remaining ways is same as this. Up to 6 pressure ranges can be set

Single press the SET button to switch the way. Each press goes one way down. Press the SET button again after reaching the maximum setting number, then the it will be returened to the first way. Loop operation

The pressure value of each way needs to be set under the current way, long press SET buttom to set the pressure value.

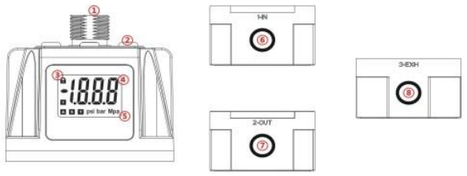
EPV SERIES Proportional Pressure Regulator

- 0.2% control accuracy
- Max 5000L/min large flow output
- Real-time display of actual output pressure
- 0~1 bar/5bar/9bar multi-range selection
- IP65 level,suitable for various working conditions

XINGYU
Electro-pneumatic control components

EPV

TECHNICAL INFORMATION



No	Name	No	Name
①	M12 aviation plug	⑤	Unit display
②	Water-proof key	⑥	Air supply port
③	Locking key	⑦	Air out port
④	Main display sectiohn	⑧	Air EXH port

SPECIFICATION

Model		EPV1-1	EPV1-3	EPV1-5
		EPV2-1	EPV2-3	EPV2-5
		EPV3-1	EPV3-3	EPV3-5
Min.supply Pressure		set pressure + 0.1MPa		
Max.supply Pressure		0.2MPa	1.0MPa	
Set Pressure Range		0.005~0.1MPa	0.005~0.5MPa	0.005~0.9MPa
Power Supply	Voltage	DC：24V±10%		
	Current	DC：24V 0.12A or less		
Input Signal	Current Type	DC4~20mA, DC0~20mA		
	Voltage Type	DC0~5V, DC0~10V		
	Digital Signal	RS485-MODBUS		
Input Impedance	Current Type	250Ω or less		
	Voltage Type	Approx 6.5KΩ		
Output Signal	Analog Output	DC1-5V (load impedance : over 1KΩ) DC4-20mA (Load impedance : below 250Ω) Output precision within range of 1% F.S.		
	Switch Output	NPN-OC output type:30mA PNP-OC output type:30mA		
Nonlinear		0.5%F.S		
Hysteresis		0.5%F.S		
Repeatability		0.5%F.S		
Temperature Characteristic		2%F.S		
Display	Precision	2%F.S		
	Division	1000 division		
Ambient Temperature		0~50℃		
Protection Class		IP65		

ORDERING CODE

EPV2 – 5 0 3 1 – □ 2 L – □

1 2 3 4 5 6 7 8 9

1. Model
EPV1
EPV2
EPV3

2. Range
1: 0.1MPa
3: 0.5MPa
5: 0.9MPa

3. Voltage
0: DC 24V

4. Input
0: Current DC 4-20mA
1: Current DC 0-20mA
2: Voltage DC 0-5V
3: Voltage DC 0-10V

5. Output
1: Analog DC 1-5V
2: Switch NPN output
3: Switch PNP output
4: Analog: DC4-20mA

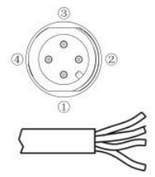
6. Connection thread
BLANK : RC
N : NPT
T : NPTF
F : G

7. Size
2: 1/4" (1,2 type)
3: 3/8" (2,3 type)
4: 1/2" (3 type)

8. Cable connector
S: Straight 3m
L: Right angle 3m
N: no cable

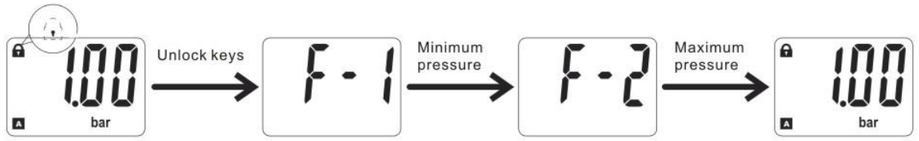
9. Bracket
Blank: no bracket
B: flat bracket
C: L type bracket

WIRING METHOD

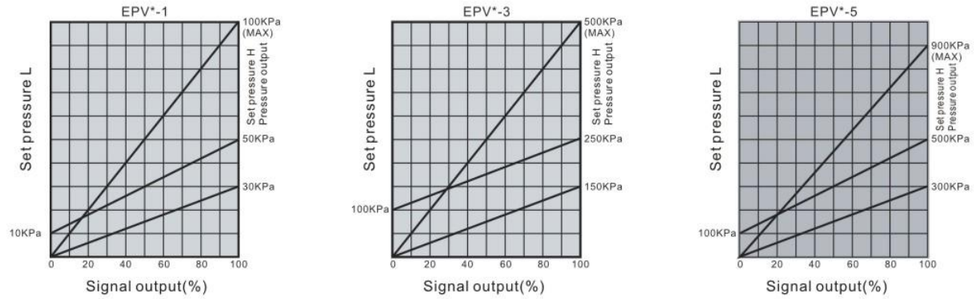


① Brown: VCC +(power supply)
② White：input signal
③ Blue： 0V
④ Black：Output signal

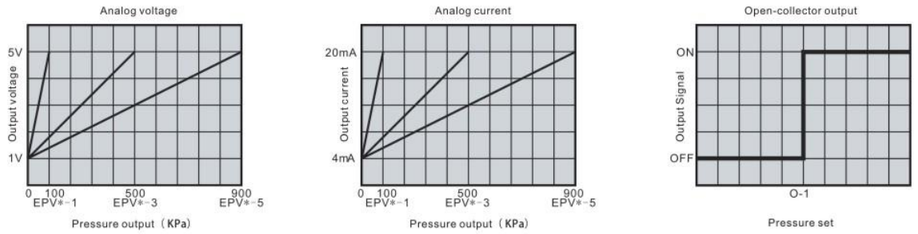
SETTING METHOD



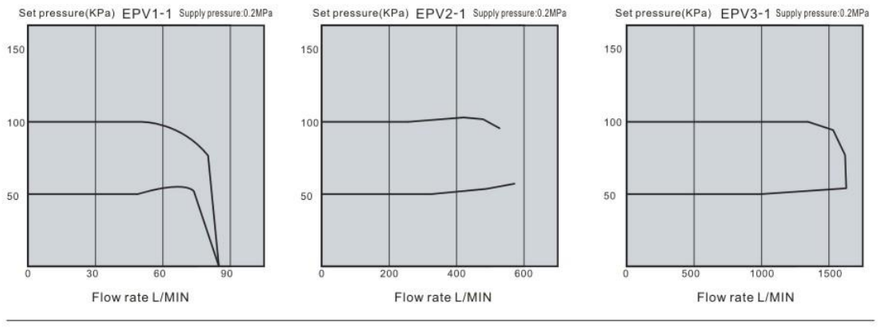
PRESSURE OUTPUT SIGNAL INPUT

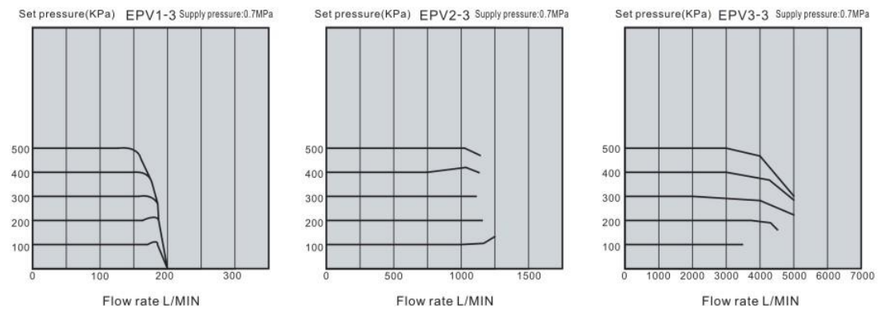


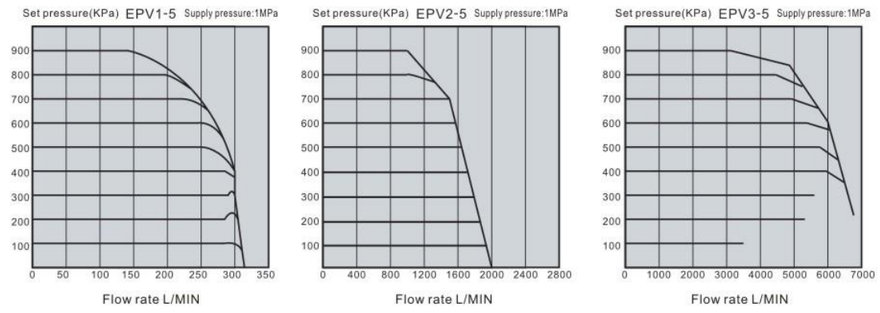
PRESSURE OUTPUT SIGNAL OUTPUT



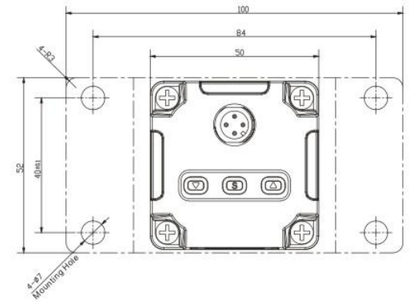
FLOW CHARACTERISTICS

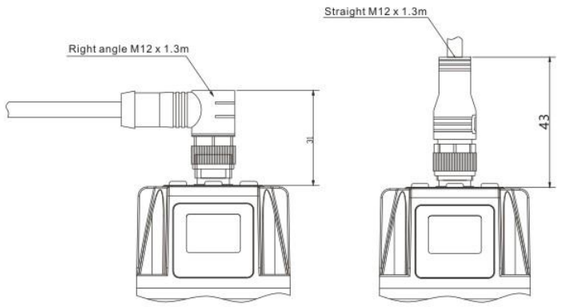




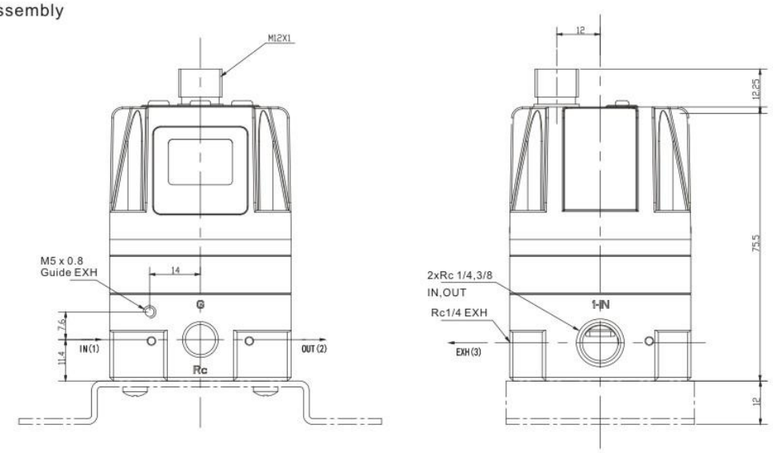


EPV1 DIMENSION (mm)

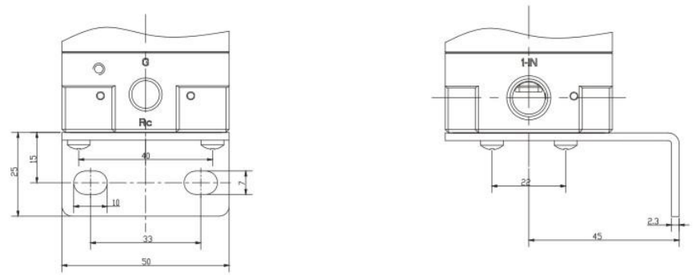




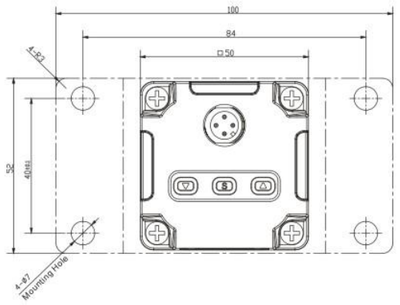
Flat Bracket assembly

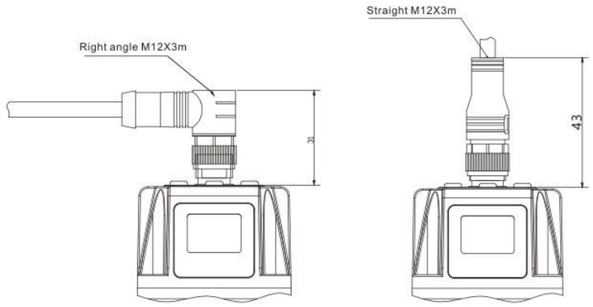


L Bracket assembly

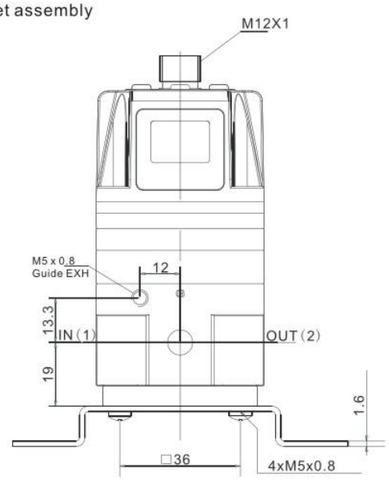


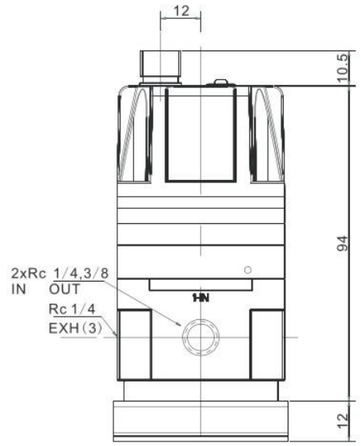
EPV2 DIMENSION (mm)



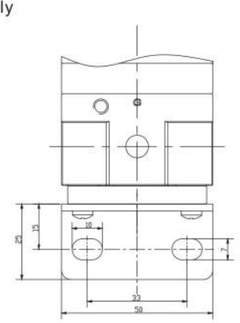


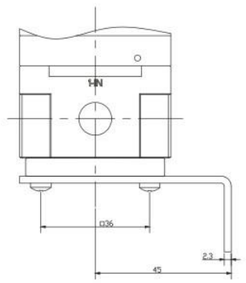
Flat Bracket assembly



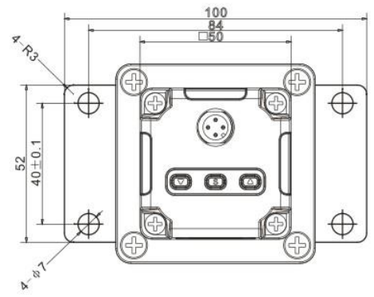


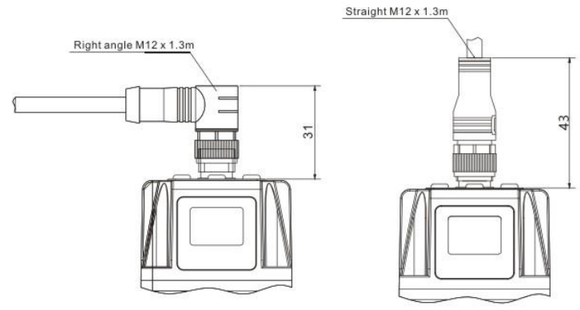
L Bracket assembly



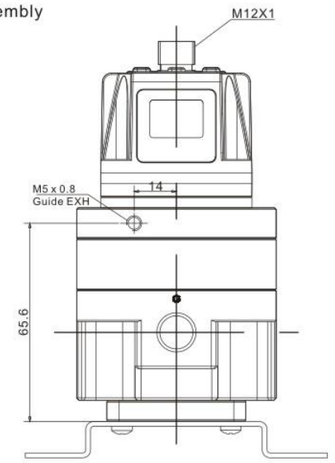


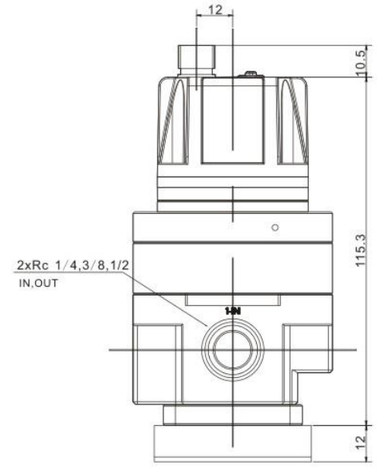
EPV3 DIMENSION (mm)



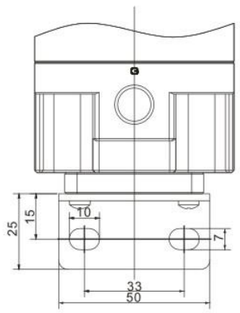


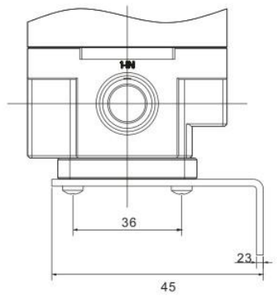
Flat Bracket assembly





L Bracket assembly





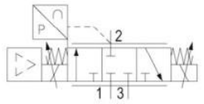
HEPV SERIES HIGH-PRESSURE E/P REGULATOR

- Compressed air, oxygen and inert gas can be switched at will.
- High precision, quick response, stepless pressure control.
- IP65 level, applied to various working conditions
- 3000L/min large flow output.
- Poppet valve structure, good sealing, maximum support for 30bar air pressure input and 28bar air pressure output.

HEPV

TECHNICAL INFORMATION

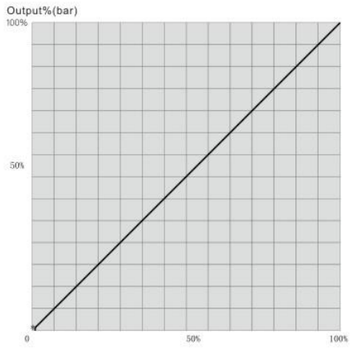
1. The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
2. The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
3. The oil content of compressed air must remain constant during the life cycle.
4. With oil-free, dry air, other installation positions are possible on request.
5. The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

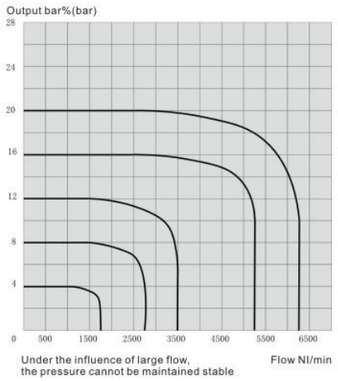


SPECIFICATION

Version	Poppet valve
Mounting orientation	a = 0 ... 90° ±β= 0 ... 90°
Working pressure max	30 bar
Working pressure min	0.5 bar + required secondary pressure
Ambient temperature min./max.	5 ... 50℃
Medium	Compressed air
Max. particle size	50 um
Oil content of compressed air	0 ... 1 mg/m³
Precision	0.1 % F.S.
Division	1 kPa
Nominal flow Qn	1300 l/min *Input 7bar,output 6bar
Control	Analog
DC operating voltage	24 V
Voltage tolerance DC	-20% / +30%
Permissible ripple	5%
Max. power consumption	1400 mA
Protection class	IP65

CHARACTERISTIC CURVE





ORDERING CODE

HEPV **7** – **2** **8** **3** **1** **3**

1 2 3 4 5 6

1.High-pressure
E/P Regulator

2. 7: 7# Poppet valve
8: 11# Poppet valve

3. Setting Pressure

4. Input Signal
0: 4...20mA
3: 0...10V

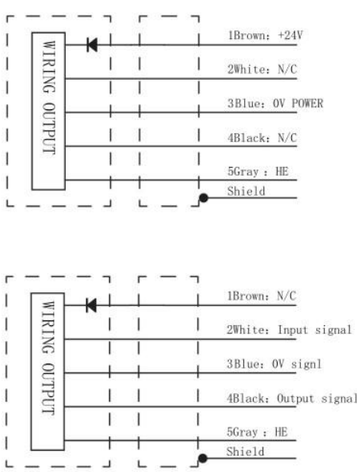
5. Output Signal
1: 1...5V
4: 4...20mA

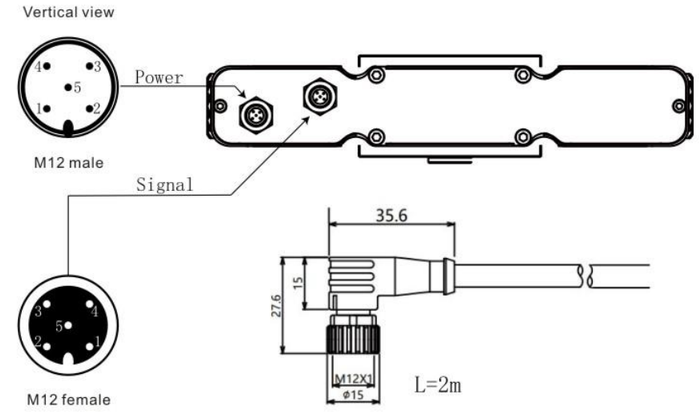
6. Ancillary
3: R3/8
4: R1/2
F3: G3/8*
F4: G1/2
N3: NPT3/8
N4: NPT1/2
X: Non

Example

Ording code	Ancillary	Setting pressure	Input signl	Output signl
HEPV7-2831-3	R3/8	0...28 bar	0...10 V	1...5 V
HEPV7-2804-F4	G1/2	0...28 bar	4...20 mA	4...20 mA
HEPV11-2804-X	non	0...28 bar	4...20 mA	4...20 mA

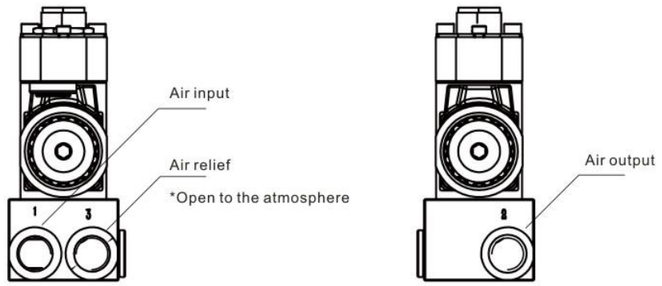
Circuit diagram



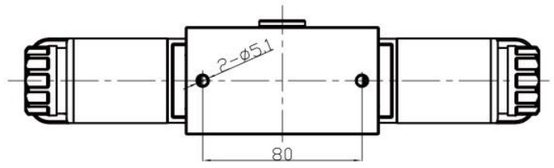


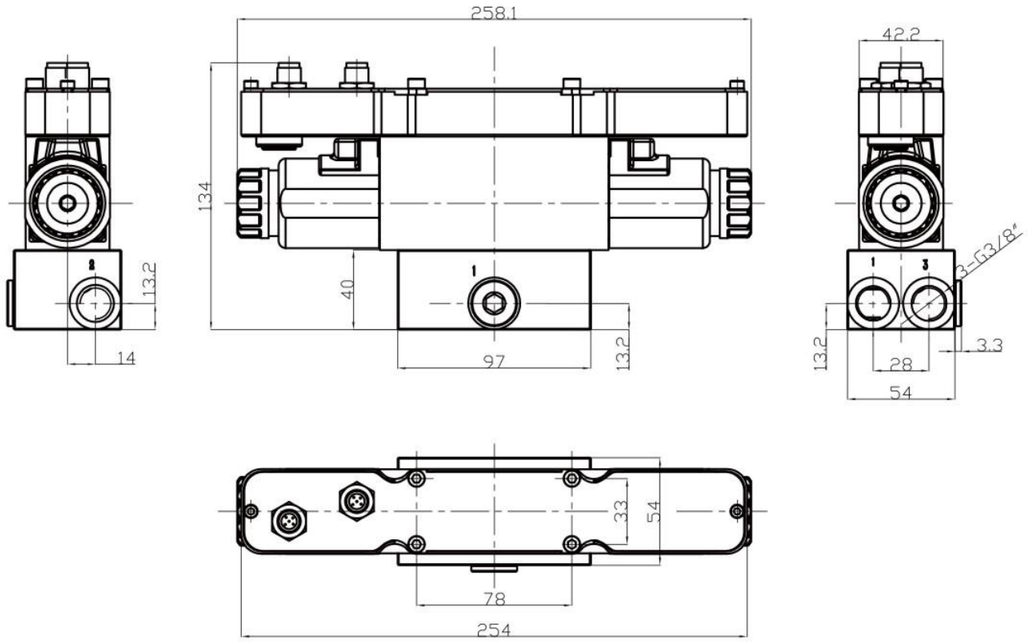
Jacket material	jiacket color	Wire cable	Cable jacket
PVC	Black	22AWG	6.25+0.15mm

AIR CONNECTION DIAGRAM



MOUNTING DIMENSIONS (mm)

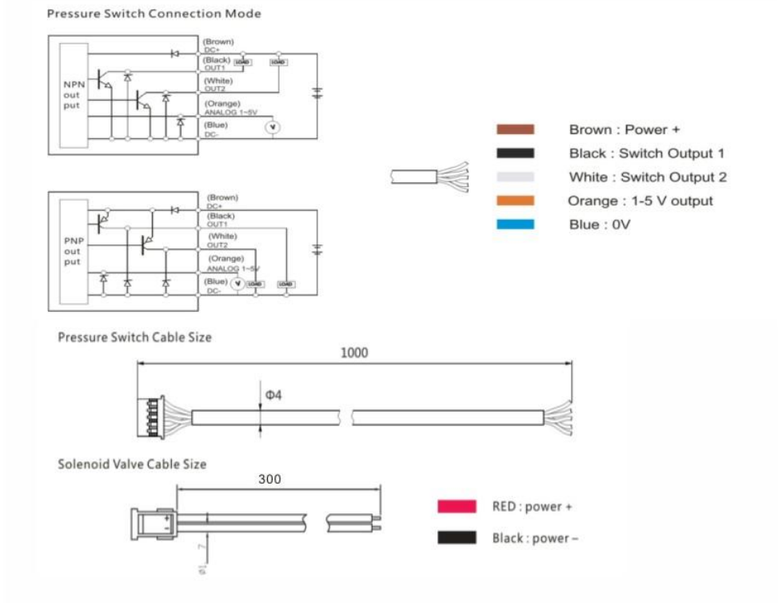




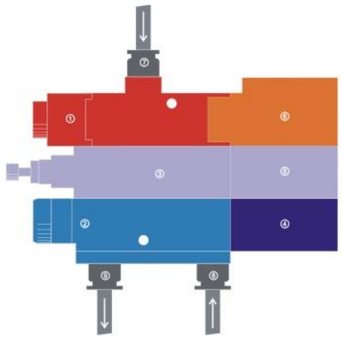
Vacuum Generator

- Up to 12 optional types
- Manifold type products can be assembled up to 10 groups of single-piece products
- Widely working pressure range: 0.25~0.7Mpa
- Strong vacuum Preservation Ability
- Equipped with vacuum pressure switch to realize automatically control
- Various nozzle orifice, can be used in all kinds of occasions
- Two kinds of vacuum destroying function, short destroying time
- Vacuum destroying flow rate: 0~40L/min

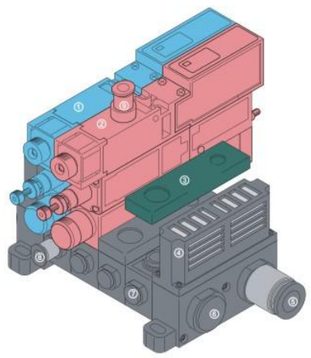
CONNECTION MODE



PRODUCT CHARACTERISTICS



① Vacuum filter assembly
② Vacuum Generator assembly
③ Destroy valve
④ Vacuum Generation Control Valve
⑤ Vacuum Destroy Control Valve
⑥ Digital Pressure Switch
⑦ Vacuum Port
⑧ Input Port
⑨ Exhaust Port



① B type Monolithic Vacuum Generator
② A type Monolithic Vacuum Generator
③ Blind plate
④ Built-in silencing module
⑤ Input Port
⑥ Exhaust Port(Centralized exhaust)
⑦ One way vacuum port block
⑧ B type One way Vacuum Fitting
⑨ A type One way Vacuum Port

ORDERING CODE

Monolithic type XYZKF – CT (CT series Vacuum Generator)

A	GZ	07	W	—	06	06	08	E	—	NV
①	②	③	④		⑤	⑥	⑦	⑧		⑨

① Product Form	
Code	Code description
A	Monolithic type two side port (Ex&P:same side)
B	Monolithic type one side

②Vacuum Characteristic	
Code	Code description
GZ	High vaccum Medium flow rate (0.5MPa)
ZD	Middle vaccum High flow rate (0.5MPa)
GX	High vaccum low flow rate (0.35MPa)

③ Nozzle diameter(combination type :A、E、G、L、P、R、S、W、X、Y)

Code	code description	GZ type vaccum degree	ZD type vaccum degree	GX type vaccum degree	Consumption
07	0.7mm	-93KPa 13L/min	-67KPa 26L/min	-91KPa 10L/min	23L/min
10	1.0mm	-93KPa 27L/min	-67KPa 40L/min	-91KPa 21L/min	46L/min
12	1.2mm	-93KPa 38L/min	-67KPa 50L/min	-91KPa 27L/min	70L/min

③ Nozzle diameter(combination type :B、F、H、M)

code	code description	GZ type vaccum degree	ZD type vaccum degree	GX type vaccum degree	Consumption
07	0.7mm	-90.5KPa 11L/min	-66.5KPa 19L/min	-86.5KPa 8.4L/min	23L/min
10	1.0mm	-90.5KPa 19L/min	-66.5KPa 24L/min	-86.5KPa 16L/min	46L/min
12	1.2mm	-90.5KPa 24L/min	-66.5KPa 27L/min	-86.5KPa 19L/min	70L/min

④ Combination type

Code	A	B	E	F	G	H	L	M	P	R	Y	S	X	W
Vacuum Generator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Vacuum Generator Solenoid valve	○	○	○	○	●	●	●	●	●	●	●	●	●	●
Check valve	○	●	○	●	○	●	○	●	○	○	○	●	○	●
Digital pressure switch	○	○	●	●	○	○	●	●	○	●	○	○	●	●
Air timing destroy valve	○	○	○	○	○	○	○	○	●	●	○	○	○	○
Solenoid destroy valve	○	○	○	○	○	○	○	○	○	○	●	●	●	●

⑤ Vacuum Port Diameter(monolithic type)

code	Code description
04	Φ 4 Quick connector (mm)
06	Φ 6 Quick connector (mm)
08	Φ 8 Quick connector (mm)

⑥ Input port diameter (monolithic type)

code	Code description
04	Φ 4 Quick connector (mm)
06	Φ 6 Quick connector (mm)
08	Φ 8 Quick connector (mm)

⑦ Exhaust port diameter(monolithic type)

code	Code Description
S	Silencer
08	Φ 8 Quick connector (mm)

⑧ Solenoid valve type(only choose if youselect solenoid)

code	Code description
E	DC24 NC Vacuum generator solenoid valve (solenoid destroy valve default normal close)

⑨ Pressure switch output(only choose if you select pressure switch)

Code	Code description
NV	2 lines NPN+ 1~ 5V output
PV	2 lines PNP+ 1~ 5V output

ORDERING CODE

Manifold XYZKF – CT (CT series Vacuum Generator)

C	GZ	07	W	—	S4	18	18	E	—	08	—	NV
①	②	③	④		⑤	⑥	⑦	⑧		⑨		⑩

① Product Form	
Code	Code Descrption
C	Mainfold

② Vacuum Characteristic	
Code	Code description
GZ	High vaccum Medium flow rate (0.5MPa)
ZD	Middle vaccum High flow rate (0.5MPa)
GX	High vaccum low flow rate (0.35MPa)

③ Nozzle diameter(combination type :A、E、G、L、P、R、S、W、X、Y)

code	code description	GZ type vaccum degree	ZD type vaccum degree	GX type vaccum degree	Consumption
07	0.7mm	-93KPa 13L/min	-67KPa 26L/min	-91KPa 10L/min	23L/min
10	1.0mm	-93KPa 27L/min	-67KPa 40L/min	-91KPa 21L/min	46L/min
12	1.2mm	-93KPa 38L/min	-67KPa 50L/min	-91KPa 27L/min	70L/min

③ Nozzle diameter(combination type :B、F、H、M)

code	code description	GZ type vaccum degree	ZD type vaccum degree	GX type vaccum degree	Consumption
07	0.7mm	-90.5KPa 11L/min	-66.5KPa 19L/min	-86.5KPa 8.4L/min	23L/min
10	1.0mm	-90.5KPa 19L/min	-66.5KPa 24L/min	-86.5KPa 16L/min	46L/min
12	1.2mm	-90.5KPa 24L/min	-66.5KPa 27L/min	-86.5KPa 19L/min	70L/min

④ Combination type

Code	A	B	E	F	G	H	L	M	P	R	Y	S	X	W
Vacuum Generator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Vacuum Generator Solenoid valve	○	○	○	○	●	●	●	●	●	●	●	●	●	●
Check valve	○	●	○	●	○	●	○	●	○	○	○	●	○	●
Digital pressure switch	○	○	●	●	○	○	●	●	○	●	○	○	●	●
Air timing destroy valve	○	○	○	○	○	○	○	○	●	●	○	○	○	○
Solenoid destroy valve	○	○	○	○	○	○	○	○	○	○	●	●	●	●

⑤ Vacuum port diameter(manifold)

Code	Code description	Code	Code description
S4	Side Φ4 Quick Connetor (mm)	T4	Top Φ4 Quick Connetor (mm)
S6	Side Φ6 Quick Connetor (mm)	T6	Top Φ6 Quick Connetor (mm)
S8	Side Φ8 Quick Connetor (mm)	T8	Top Φ8 Quick Connetor (mm)

⑥ Input port diameter （manifold)

Input port diameter(manifold type)		Straight pipe			Elbow pipe		
Code	Right Side	18	10	12	48	40	42
	Both Side	28	20	22	58	50	52
	Left Side	38	30	32	68	60	62
Size (mm)		ϕ8	ϕ10	ϕ12	ϕ8	ϕ10	ϕ12

⑦ Exhaust port diameter (manifold)

Port Position		Silencer	Straight Pipe			Elbow pipe		
Code	Right Side	S1	18	10	12	48	40	42
	Both Side	S2	28	20	22	58	50	52
	Left Side	S3	38	30	32	68	60	62
Size (mm)			ϕ8	ϕ10	ϕ12	ϕ8	ϕ10	ϕ12

⑧ Solenoid valve type (only choose if you select solenoid valve)

Code	Code description
E	DC24 NC Vacuum generator solenoid valve (solenoid destroy valve default normal close)

⑨ Manifold combination (only choose if you select manifold type)

Code	02	03	04	05	06	07	08	09	10
No	2	3	4	5	6	7	8	9	10

⑩ Pressure switch output (only choose if you select pressure switch)

Code	Code description
NV	2 lines NPN+ 1~ 5V output
PV	2 lines PNP+ 1~ 5V output

For example:

Monolithic type XYZKF-CT A ① GZ ② 07 ③ A ④ – 06 ⑤ 06 ⑥ 08 ⑦

① : Monolithic type 2 side port
② : High vacuum,middle flow rate
③ : 0.7mm nozzle diameter
④ : A type (only with filter)
⑤ : Vacuum port diameter ϕ 6
⑥ : Input port diameter ϕ 6
⑦ : Exhaust port diameter ϕ 8

Manifold type XYZKF-CT C ① GZ ② 07 ③ W ④ – S4 ⑤ 18 ⑥ 18 ⑦ E ⑧ – 05 ⑨ – NV ⑩

① : Multi-piece Manifold
② : High vacuum,middle flow rate(0.5MPa)
③ : 0.7mm nozzle diameter
④ : W combination
⑤ : Vacuum port diameter ϕ 4
⑥ : Right side straight pipe input port diameter ϕ 8
⑦ : Right side straight pipe Exhaust port diameter ϕ 8
⑧ : 24V NC
⑨ : Combination quantity
⑩ : Pressure switch 2 lines NPN+ 1~ 5V output

PRODUCT SPECIFICATION

Working Conditions

Working Media	Compressed Air
Working Pressure	0.25-0.7mpa
Air Supply	GZ，ZD Series;0.5mpa、GX Series;0.35mpa
Working Temp	5-50℃
Lubrication	No Need

Vacuum Characteristic

Model No	Nozzle diameter (mm)	Air supply (Mpa)	Vacuum degree (-kpa)	Inhalation (L/min)	Consumption (L/min)
CT □ GZ07...	0.7	0.5	93	13	23
CT □ ZD07...		0.35	73		17
CT □ GX07...		0.5	67	26	23
		0.35	91	10.5	17
CT □ GZ10...	1.0	0.5	93	27	46
CT □ ZD10...		0.35	73		34
CT □ GX10...		0.5	67	40	46
		0.35	91	21	34
CT □ GZ12...	1.2	0.5	93	38	70
CT □ ZD12...		0.35	73	36	47
CT □ GX12...		0.5	67	50	70
		0.35	91	27	47

Solenoid Valve Specification

Model No	Vacuum generated solenoid valve	Vacuum destroy solenoid valve
Voltage	DC24V	
Voltage range	DC24V10%	
Power	0.7W	
Working mode	Indicate valve action	
Manual operation	Press-type manual lever	
Operational indication	Red LED	
Max pressure	1.05MPa	
Valve type	N.C.	

Vacuum Filter Specification

Filter material	Polyvinyl methylal
Filter degree	10um
Filter area	1130mm²
Ordering code	CT- PVF

Air Timing Damage Valve

Type	Mechanical Timing Module
Damage time	After Vacuum Generated Solenoid Valve Closed About 0.3-3s
Breaking flow	0~40l/min （air Supply 0. 5mpa）
Time setting mode	External Knob Setting

Vacuum protection function(combination B、F、M、S、W)

Vacuum Leak	Max 1kpa/10S

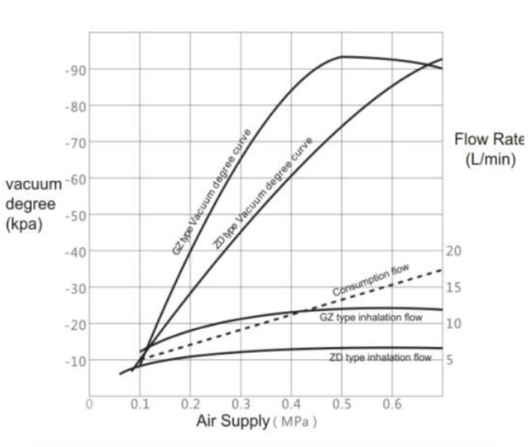
Remark: if need to keep vacuum for a long time,pls consider above specification。

Digital pressure switch (DPS-CT)

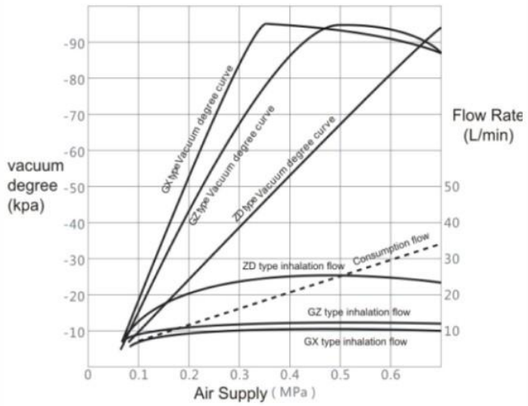
Specification	Measuring range	-99~+99kPa
	Setting Range	-99-+0kPa
	Ressure-resistance	1.0MPa
	Pressure Type	Non-flammable ,no-corrosive gas ,gauge pressure measurement
	Pressure Measurement	MEMS silicon pressure sensor,NBR / Silicon seal
	Measurement Accuracy	< 2%F.S.（Ambient temperature 25℃）
	Temperature Erro	< 3%F.S.（Ambient temperature0~50℃）
	Measurement Patten	Hysteresis mode
		Compare mode
	Pressure Display	RED LED DISPLAY
	Pressure Unit	Kpa（option display multiple 1、0.75、0.01、0.145）
Power supply	Voltage	DC12-24V10%
	Current	< 30mA
Switch signal output	Switch Output	2 lines switch output
	Output Model	NPN/PNP optional (corresponding to low or high efficiency signal receiving)
	Output current	80mA MAX
	Voltage Drop	1V MAX
	Response time	2.5ms 25ms 250ms
Analog signal	Signal Level	1-5V
	Load Capacity	Load resistance >1KΩ
	Output Accuracy	3%F.S.
	Response time	60ms

FEATURES

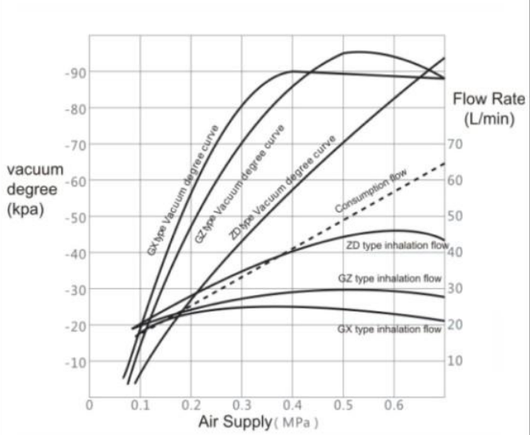
Vacuum characteristic curve
0.5mm Nozzle Diameter



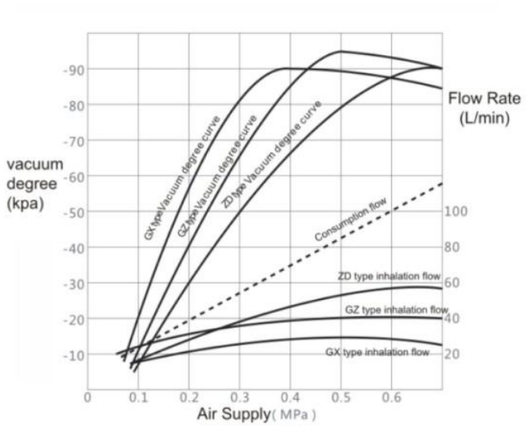
Vacuum characteristic curve
0.7mm Nozzle Diameter



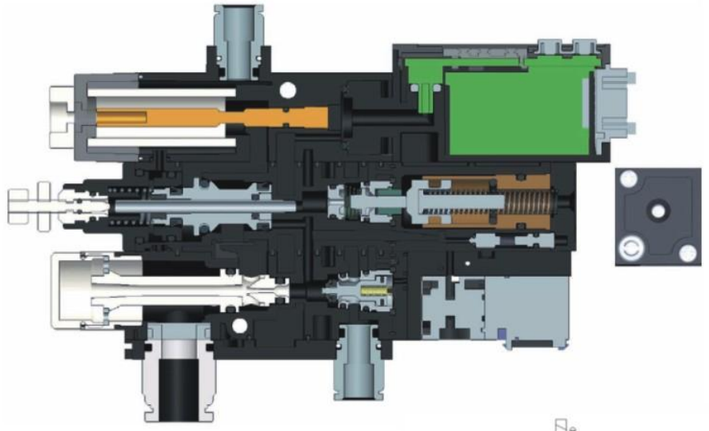
Vacuum characteristic curve
1.0mm Nozzle Diameter

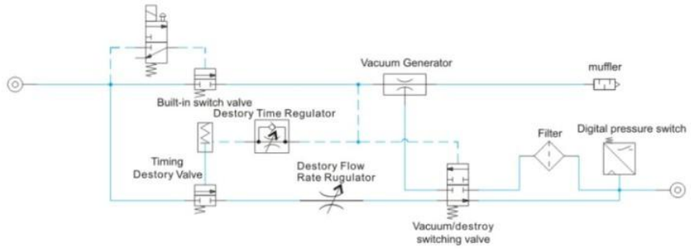


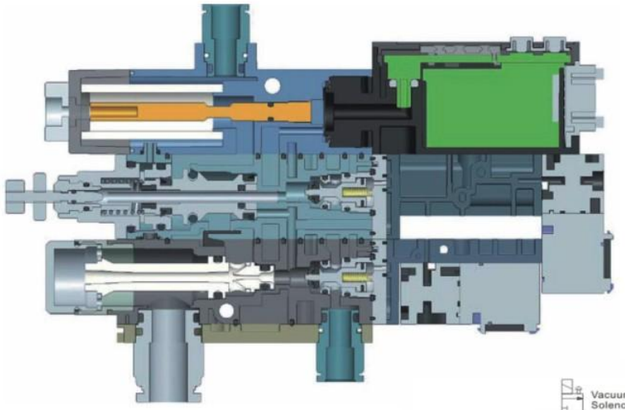
Vacuum characteristic curve
1.2mm Nozzle Diameter

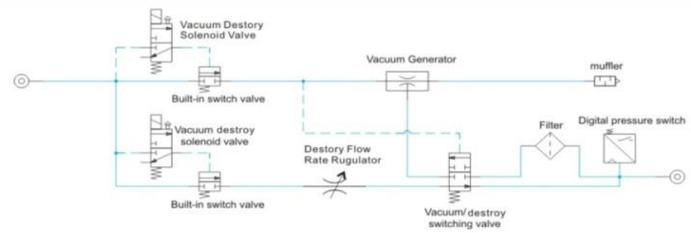


1. Air supply of above diagrams is rated pressure of vauum Generator
2. Before the Maximum vacuum Degree of vacuum generator , there is a special pressure point will cause unstable phenomena like beep noise , pressure must be adjusted to jump out of this range
3. When select pipeline and component , pipe diameter should be greater than nozzle diameter 3 times , if air supply or exhaust is insufficient , it can't meet the vacuum characteristic .Will cause unstable phenomena like beep noise



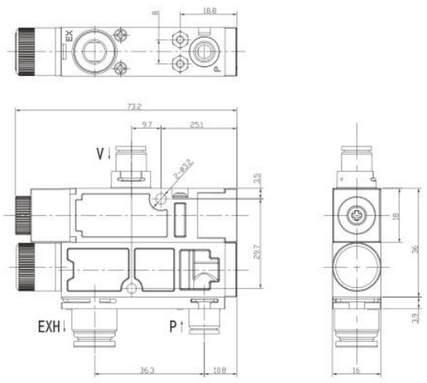




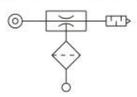


STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

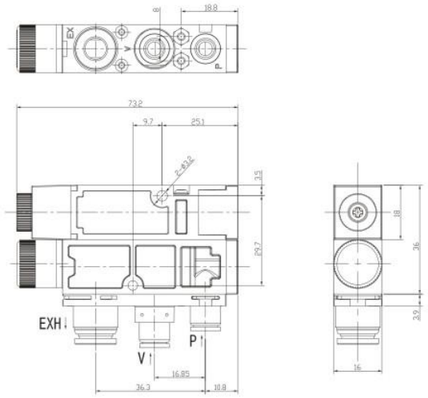
CTA**A/B type



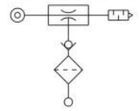
CT*** A type pneumatic schematic diagram



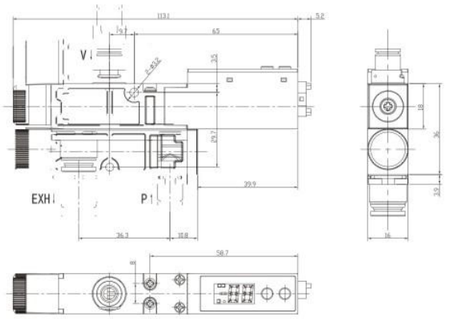
CTB**A/B type



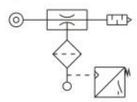
CT*** B type pneumatic schematic diagram



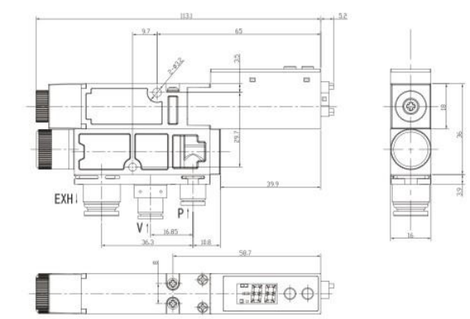
CTA**E/F type



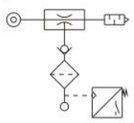
CT*** E type pneumatic schematic diagram



CTB**E/F type

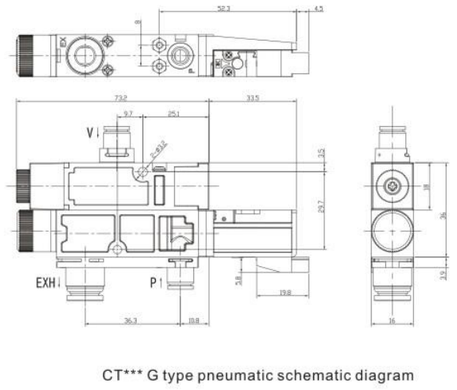


CT*** F type pneumatic schematic diagram

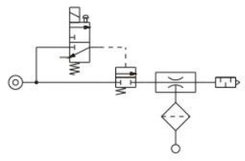


STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

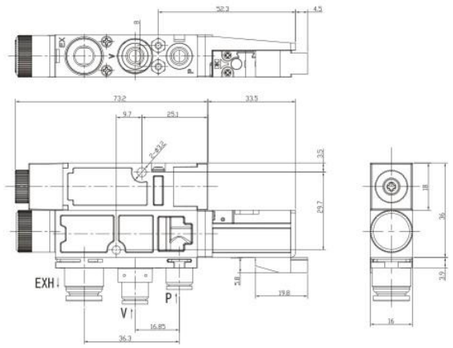
CTA**G/H type



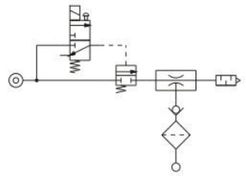
CT*** G type pneumatic schematic diagram



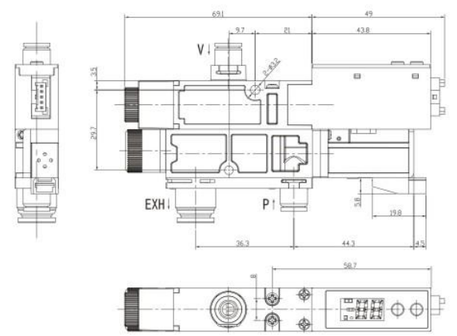
CTB**G/H type



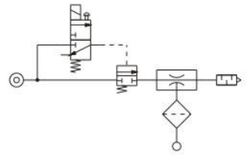
CT*** H type pneumatic schematic diagram



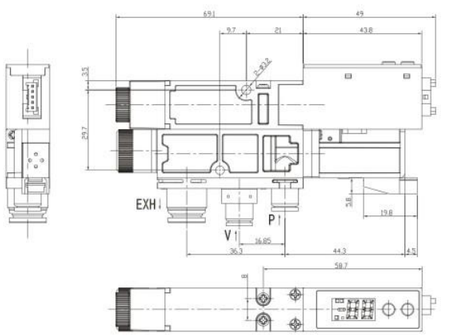
CTA**L/M type



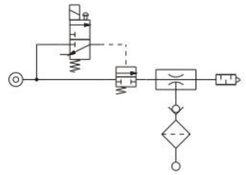
CT***L type pneumatic schematic diagram



CTB**L/M type

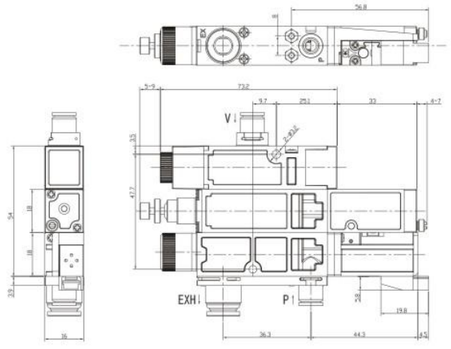


CT***M type pneumatic schematic diagram

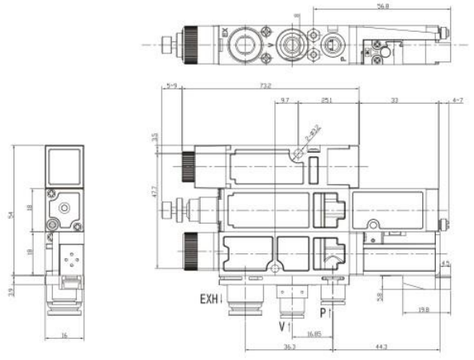


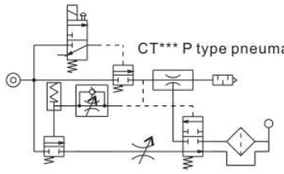
STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

CTA**P type

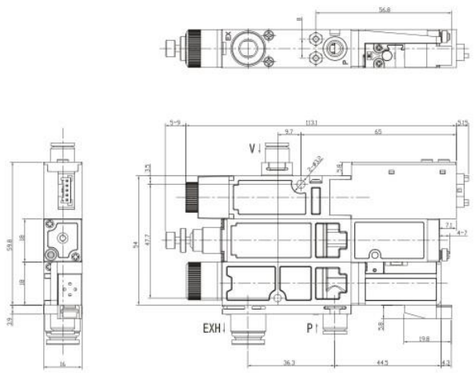


CTB**P type

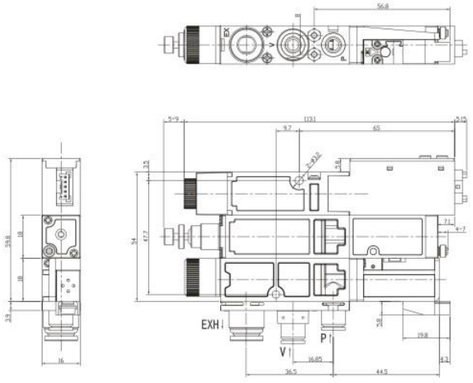


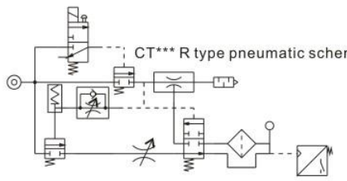


CTA**R type



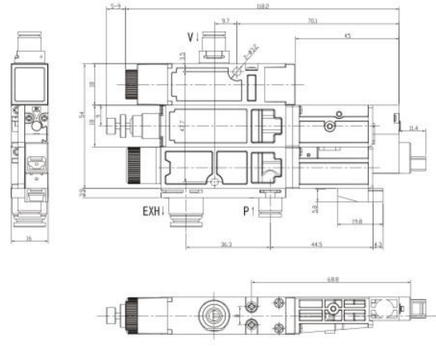
CTB**R type



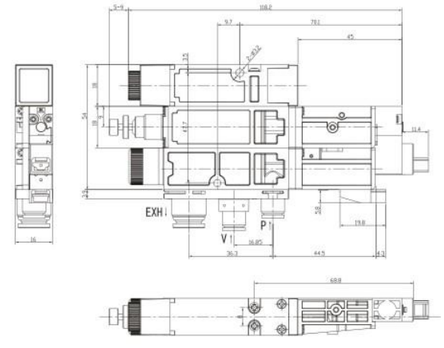


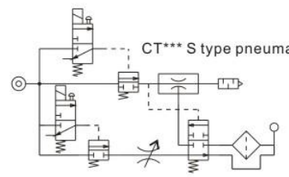
STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

CTA**S/Y type

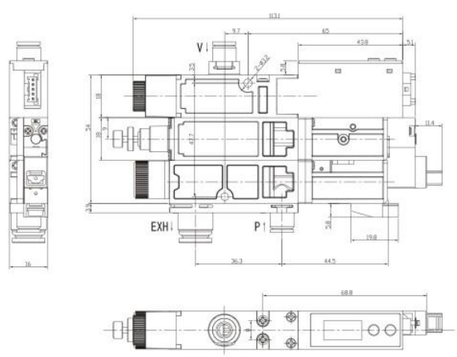


CTB**S/Y type

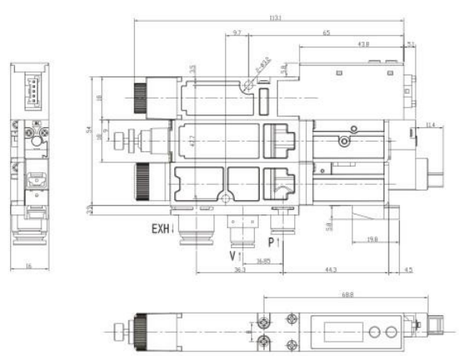


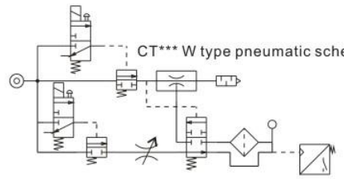


CTA**W/X type

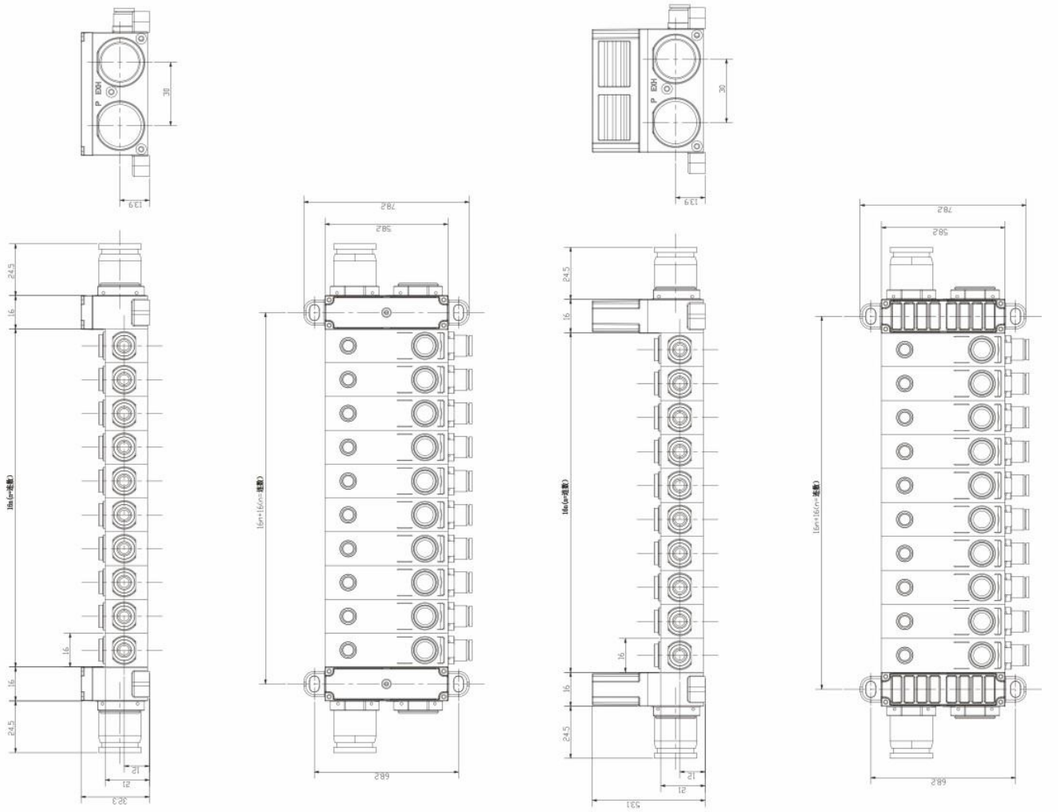


CTB**W/X type





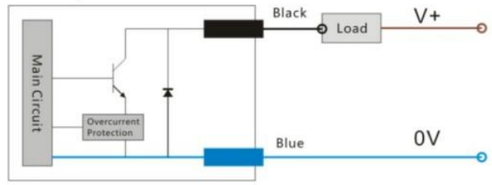
BASE SIZE CHART



DPS Series Digital pressure switch

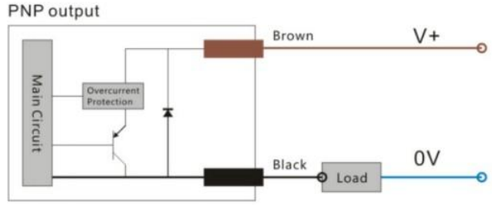
- LCD display
- Four display modes
- 2*NPN or 2*PNP output
- Double-row LCD display, can show 4-digit value

NPN output



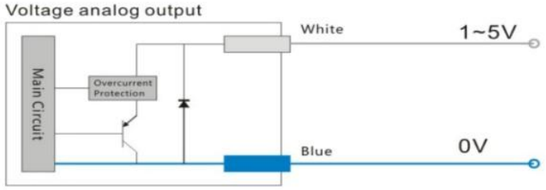
NPN OC circuit:
Low level output when the switch is on:
High resistance when the switch is off:

PNP output

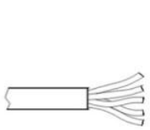


PNP OC circuit:
High level output when the switch is on
High resistance when the switch is off:

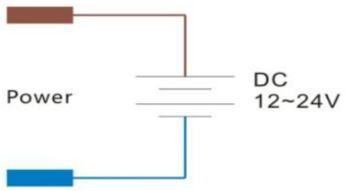
Voltage analog output



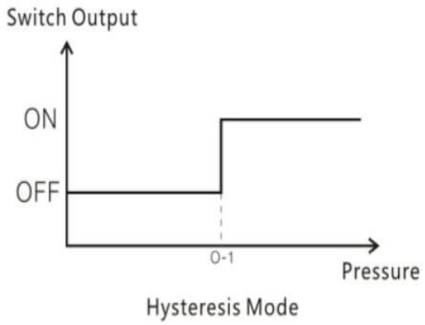
Analog voltage output
Full scale proportional output
Reference level 0V



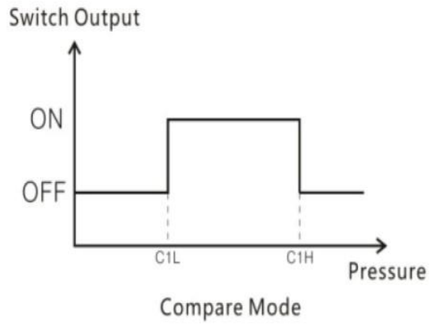
Brown:VCC(POWER SUPPLY)
Black: NPN or PNP output
White: NPN or PNP output/analog output
Orange: special function
Blue:VSS (COMMON)



OUTPUT FUNCTION DIAGRAM



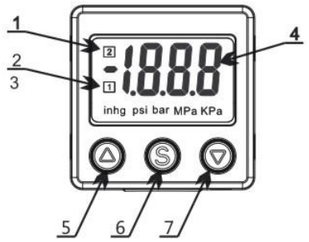
Hysteresis Mode

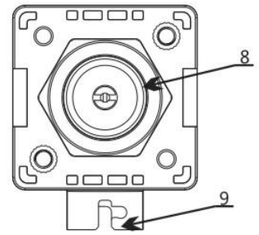


Compare Mode

DPS–7 Series

PANEL





No	Name
1	Output indicator
2	Output indicator
3	Pressure unit
4	Main display section
5	Up button
6	Section button
7	Down button
8	Pressure port
9	Electric interface

SPECIFICATION

Model		DPS-701	DPS-702	DPS-710
Pressure measure	Range Of Measure	-100KPa~100KPa	-100KPa~0KPa	-0.1MPa~1MPa
	Setting Range	-100KPa~100KPa	-100KPa~0KPa	-0.1MPa~1MPa
	Withstand Pressure	500KPa	500KPa	1.5MPa
	Pressure Type	Gauge pressure test		
	Measure Accuracy	⩽±2%F.S.(ambient temperature 25°c)		
	Temperature Error	⩽±3%F.S. (temperature range 0~ 50°c)		
	Measure Pattern	Easy Mode		
		Hysteresis model		
		Window comparator mode		
Display	Status Display	LCD, 4-digit measurement value, unit display, output status display		
	Display Model	Adjustable backlight, 4 groups of display modes		
Input Power	Voltage Range	12~24VDC ±10%		
	Power Comsuption	40mA max(non-load)		
Output Signal	Transistor Output	NPN open-collector output Output current :80mA MAX Voltage drop : ⩽1V		PNP open-collector output Output current :80mA MAX Voltage drop : ⩽1V
	Analog Output	Voltage output Signal ampliude:1~5V Load resistance ⩾1KΩ		Current output Signal ampliude:4~20mA Load resistance ⩽400KΩ
	Response Time	Adjustable : 2.5ms、 20ms、100ms、 500ms、1000ms、 1500ms		
	Short-circuit Protecdtion	Yes		
Environmetal Resistance	Ip Class	IP65		
	Ambient Temperature	Operating temperature 0~50°c ,storage temperature -20~60°c		
	Ambient Humidity	Operating humidity 35~ 80%RH		
	Insulation Voltage	1000VAC 1min		
	Insulation Resistance	⩾50mΩ(500VDC)		
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z		
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z		

ORDERING CODE

DPS – 7 (1) 10 (2) R (3) V (4) – □ (5)

1. DPS-7 Series IP65 Waterproof

2. Range
10: -100~1000kpa
01: -100~100kpa
02: -100~0kpa

3. Port
R: R1/8 (M5 female thread)
N: NPT1/8 (M5 female thread)
G: G1/8 (M5 female thread)

4. Output
V: 2*NPN+Analog 1~5V
W: 2*PNP+Analog 1~5V
A: 2*NPN+Analog 4~20mA
B: 2*PNP+Analog 4~20mA

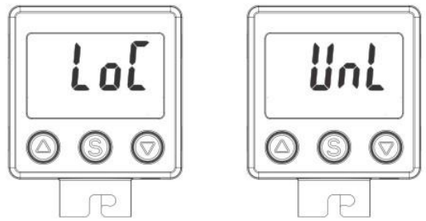
5. Mounting
M : Panel
N : Panel+shield
Z : L bracket
S : S bracket

QUICK SETTING

Zero point setting

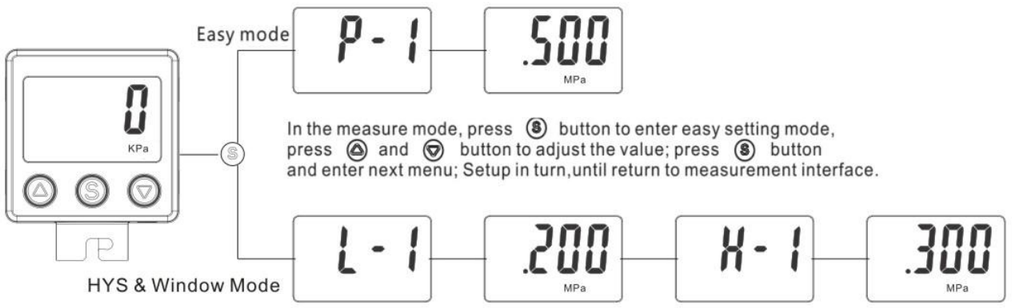
In the measure mode,press ▲ + ▼ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

key lock and unlock



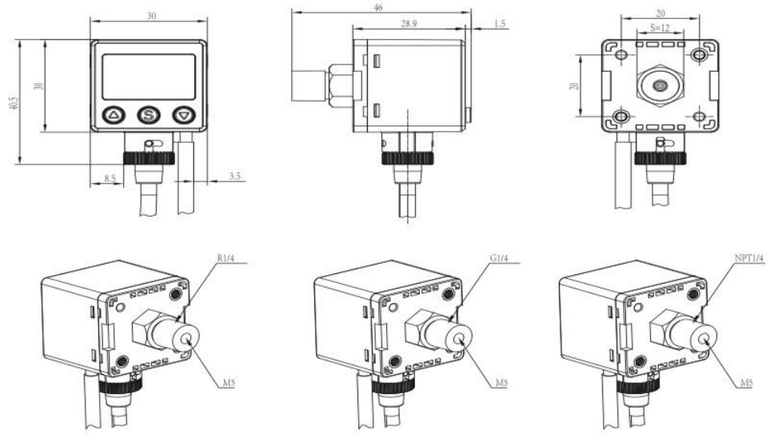
Lock: in the measure mode, press ▲ + S + ▼ button at the same time until "LOC" shown,release the buttons;
Unlock: in the measure mode, press ▲ + S + ▼ button at the same time unitl "UNL" shown,release the buttons.

Easy setup



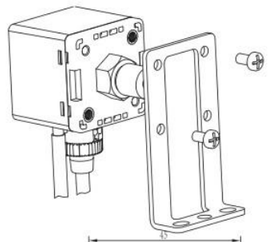
MOUNTING DIMENSIONS(mm)

Overall dimension& connection port

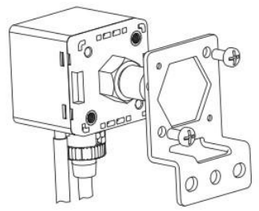


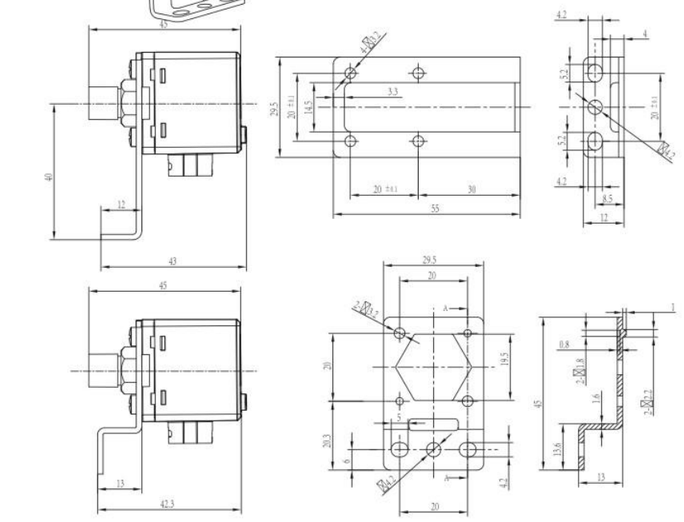
Mounting bracket

L bracket

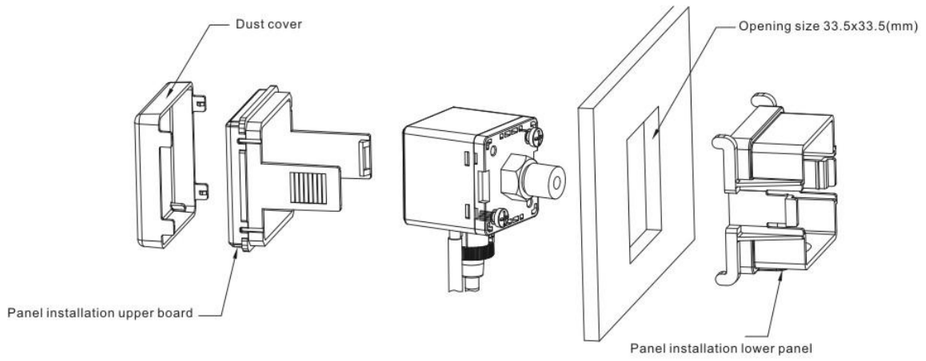


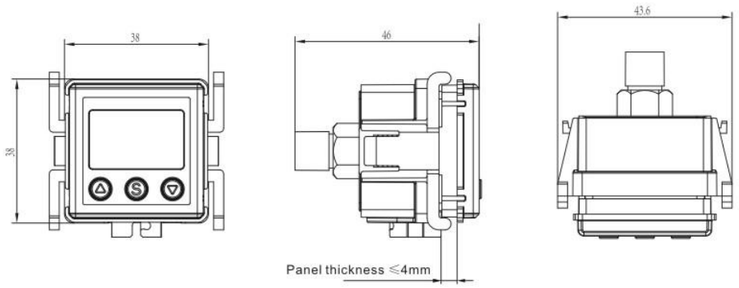
S bracket

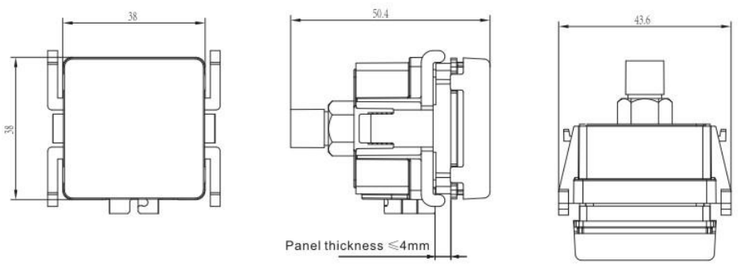




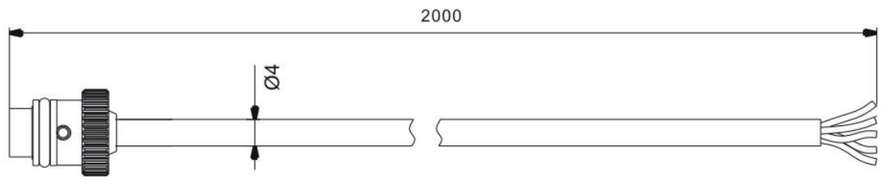
Panel bracket





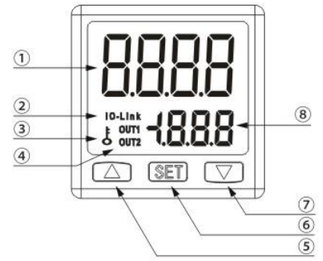


Wire size



DPS–8 Series IO-Link

PANEL



No	Name
1	Main display area (pressure/function menu)
2	Communication indication
3	Frequency lock indicator
4	Switch output indicator
5	Up adjustment button
6	Set function keys
7	Lower adjustment button
8	Auxiliary display area (pressure setpoint)

SPECIFICATION

Model		DPS-801 Compound pressure	DPS-810 Positive pressure
Pressure measure	Range of Measure	-100KPa~+100KPa	-100KPa~+1000KPa
	Setting Range	-100KPa~+100KPa	-100KPa~+1000KPa
	Withstand Pressure	500KPa	1500KPa
	Pressure Type	Non flammable，non-corrosive gas, gauge pressure measurement	
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°c)	
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°c)	
	Measure Pattern	Single point mode	
		Hysteresis model	
		Window comparator mode	
Port size		R1/8、G1/8、NPT1/8，M5	
Input Power	Voltage Range	12~24VDC ±10%	
	Power Comsuption	40mA max(non-load)	
Output Signal	Switch output	NPN / PNP MAX CURRENT: 250mA	
	Response time	Adjustable Lowest 2.5mS	
	Communication method	Model: IO-Link Version: V1 .1 Communication speed:COM238.4kbps Ssettings file: IODDfile	Minimum cycle time! 2.5mS Process data length: Input 2bytes,output Obytes Vendor ID: 1524 (0x5F4)
Environmetal Resistance	Ip Class	IP40	
	Ambient Temperature	Use temperature 0~50°c ,storage temperature -20~60°c	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	≥50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z	

ORDERING CODE

DPS – 8 | 10 | R | D | □

1. DPS-8 Series Digital Pressure Switch

2. Range
   10: -100~1000kpa
   01: -100~100kpa

3. Port
   R: R1/8 M5
   G: G1/8 M5
   N: NPT1/8 M5

4. Output
   D: 2 Line Switch
   With M12 aviation plug

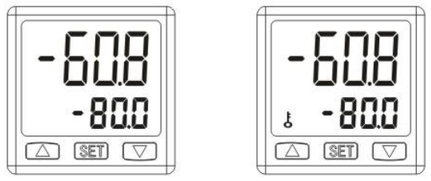
5. Mounting
   M : Panel
   Z : L bracket
   S : S bracket

QUICK SETTING

Zero point setting

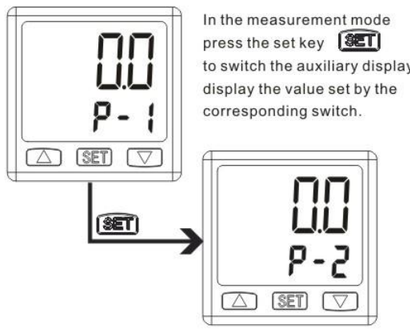
In the measure mode, Press button ▲ ▼
at the same time.until display"O",release the button
PS: Reset range: 10% F.S.

key lock and unlock

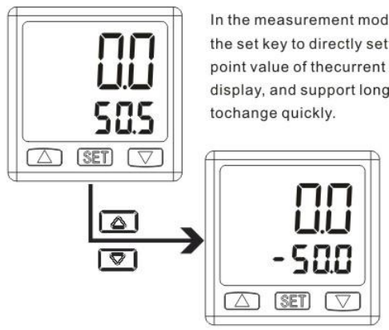


Lock: In the measure mode, press ▲ SET button at the same time until "LOCK ON" shown, release the buttons
Unlock: Press same button. untile "Lock off"

Easy setup



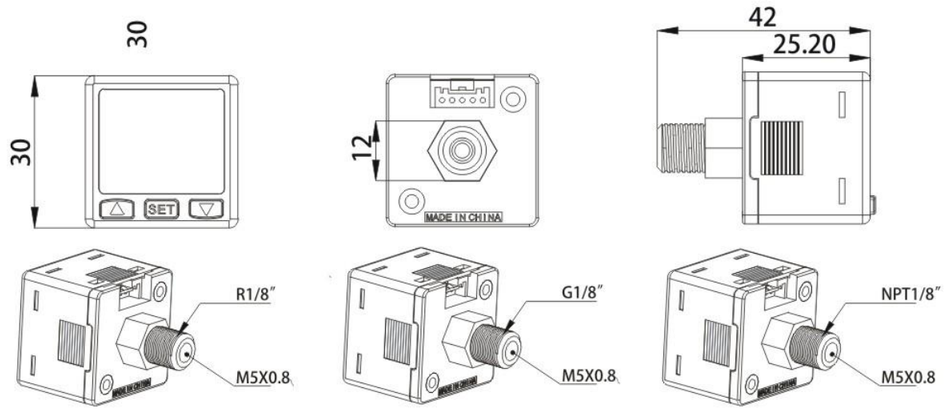
In the measurement mode press the set key SET to switch the auxiliary displayto display the value set by the corresponding switch.



In the measurement mode, press the set key to directly setthe switch point value of thecurrent auxiliary display, and support long press tochange quickly.

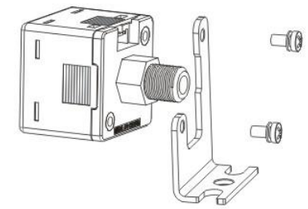
MOUNTING DIMENSIONS(mm)

Overall dimension& connection port

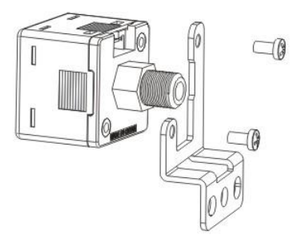


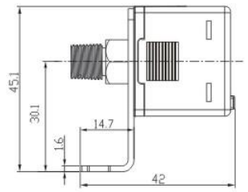
Mounting bracket

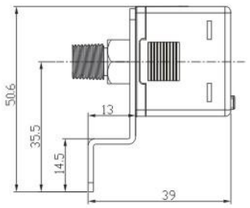
L bracket

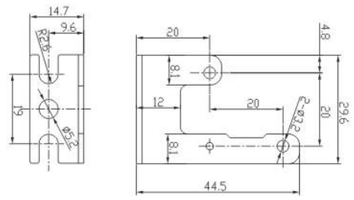


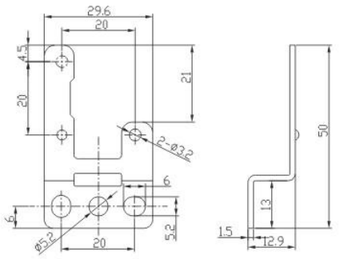
S bracket



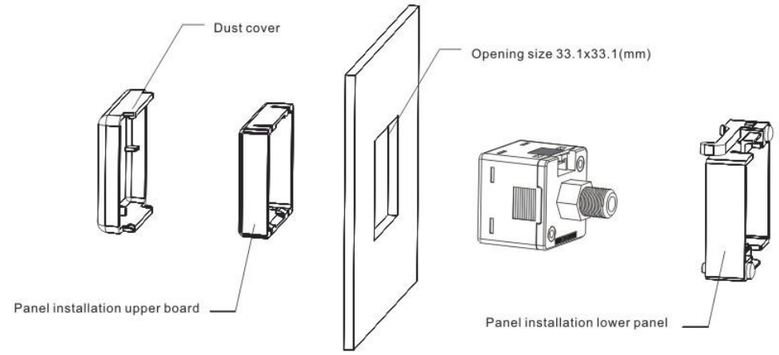


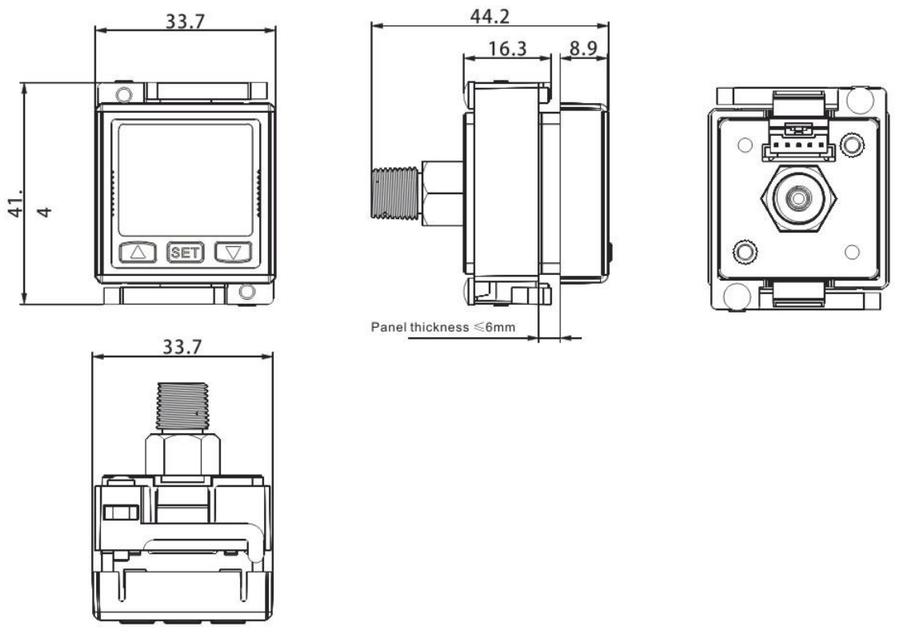




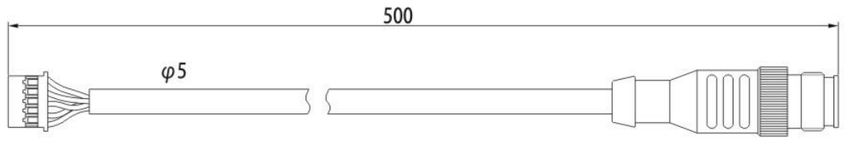


Panel bracket



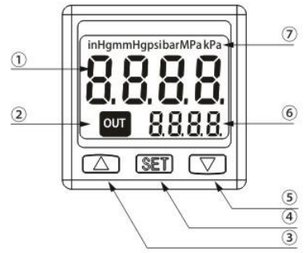


Wire size



DPS–6 Series

PANEL



No	Name
1	Main display area
2	Output indicator
3	Up button
4	Set button
5	Down button
6	Sub-display secion
7	Pressure unit

SPECIFICATION

Model		DPS-601 Mixed pressure	DPS-610 Positive pressure
Pressure measure	Range of Measure	-100KPa~+100KPa	-100KPa~+1000KPa
	Setting Range	-100KPa~+100KPa	-100KPa~+1000KPa
	Withstand Pressure	500KPa	1500KPa
	Pressure Type	Non flammable，non-corrosive gas, gauge pressure measurement	
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°c)	
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°c)	
	Measure Pattern	Easy mode	
		Hysteresis model	
		Compar mode of upper and lower bounds	
Port size		Intemal thread M5	
Input Power	Voltage Range	12~24VDC ±10%	
	Power Comsuption	40mA max(non-load)	
Output Signal	Transistor output	NPN\PNP open-collector output Output curent: 80mA MAX	
	Response time	Adjustable:MIN 2.5mS	
	Analog output	Voltage output Singal ampliude:1 -5V Load resistace: >1KΩ	
Environmetal Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°c ,storage temperature -20~60°c	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	≥50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z	

ORDERING CODE

DPS – 6 (1) 10 (2) M (3) X (4) □ (5)

1. DPS-6 Series

2. Range
10: -100~1000kpa
01: -100~100kpa

3. Port
R: R1/8
N: NPT1/8
G: G1/8
M: M5 Thread

4. Output
X: 1*NPN+1*PNP
V: 1*NPN+1*PNP&
Analog 1-5V

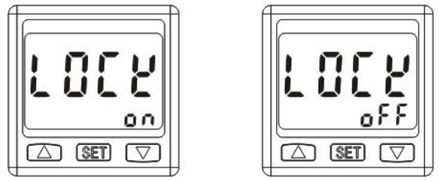
5. Mounting
M: Panel
Z: L Bracket
M: S Bracket

QUICK SETTING

Zero point setting

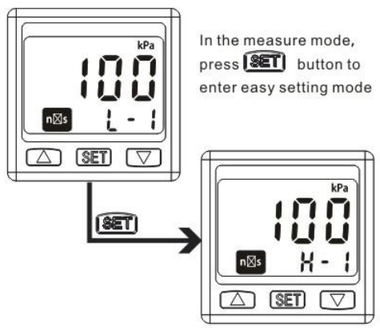
In the measure mode. press ▲ ▽
button at the same time,until display"o",
release the button

key lock and unlock

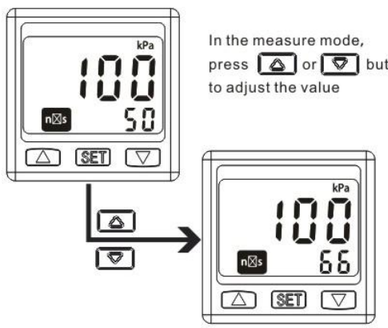


Lock: in measure mode, press ▲ SET+▽
until "LOCK ON" shown;
Unlock: press ▲ SET+▽
until "LOCK OFF" shown;

Easy setup



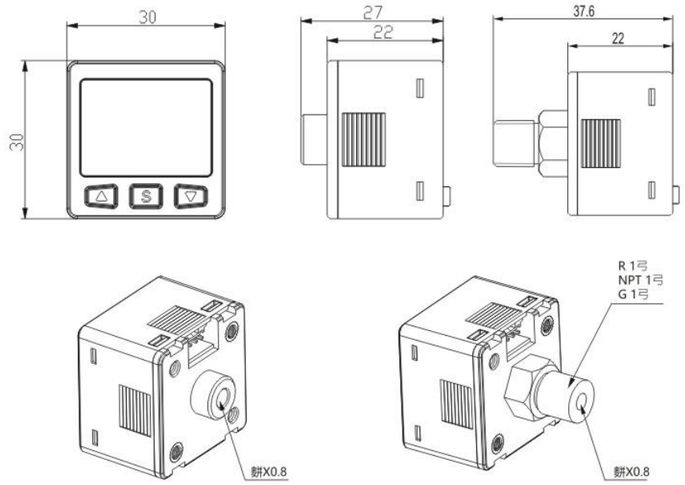
In the measure mode,
press SET button to
enter easy setting mode



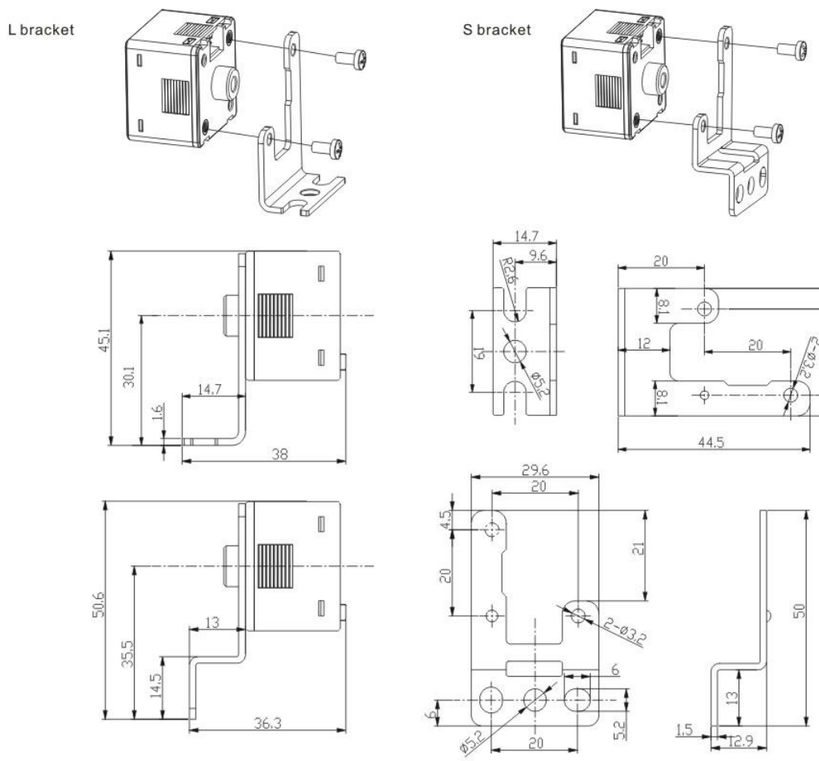
In the measure mode,
press ▲ or ▽ button
to adjust the value

MOUNTING DIMENSIONS(mm)

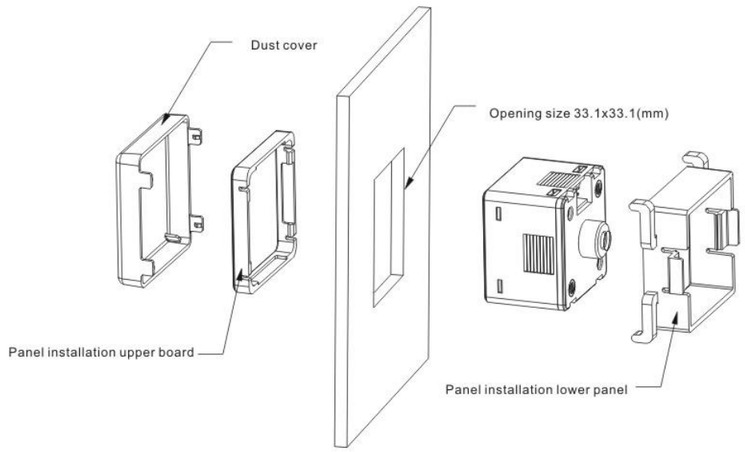
Overall dimension& connection port

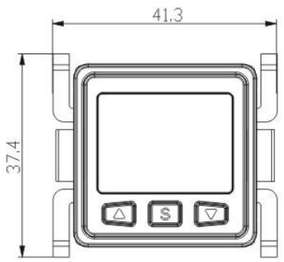


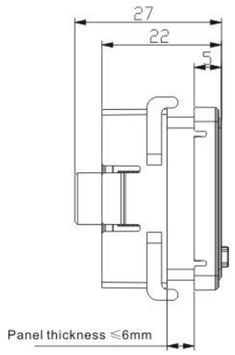
Mounting bracket

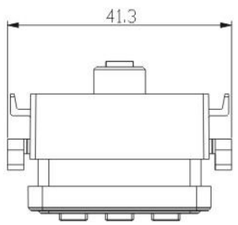


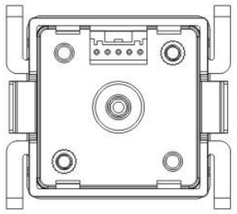
Panel bracket



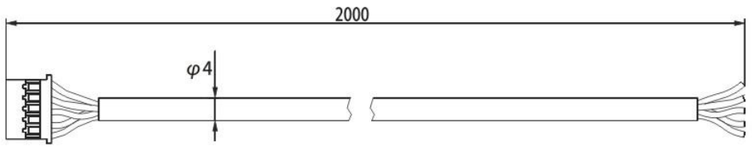






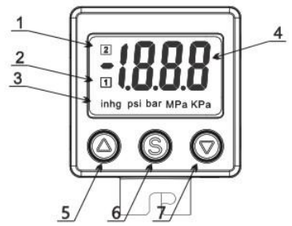


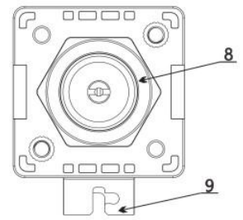
Wire size



DPS–5 Series (Anti–corrsion)

PANEL





No	Name
1	Output indicator
2	Output indicator
3	Pressure unit
4	Main display section
5	Up button
6	Section button
7	Down button
8	Pressure port
9	Electric interface

SPECIFICATION

Model		DPS-501	DPS-510	DPS-520
Pressure measure	Range Of Measure	-100KPa~100KPa	-0.1MPa~1MPa	-0.1MPa~2MPa
	Setting Range	-100KPa~100KPa	-0.1MPa~1MPa	-0.1MPa~2MPa
	Withstand Pressure	300KPa	3MPa	
	Pressure Type	Any flow which do not react with sus316L		
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°c)		
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°c)		
	Measure Pattern	Easy Mode		
		Hysteresis model		
		indow mode.		
Port size		Male thread R1/4, NPT1/4, G1/4, female thread M5		
Display	Status Display	LCD, 4-digit measurement value, unit display, output status display		
	Display Model	Adjustable backlight, 4 groups of display modes		
Input Power	Voltage Range	12~24VDC ±10%		
	Power Comsuption	40mA max(non-load)		
Output Signal	Transistor Output	NPN open-collector output Output current :80mA MAX Voltage drop : ≤1V	PNP open-collector output Output current :80mA MAX Voltage drop : ≤1V	
	Analog Output	Voltage output Signal ampliude:1~5V Load resistance ≥1KΩ	Current output Signal ampliude:4~20mA Load resistance ≤400Ω	
	Response Time	Adjustable : 2.5ms、 20ms、100ms、 500ms、1000ms、 1500ms		
	Short-circuit Protecdtion	Yes		
Environmetal Resistance	Ip Class	IP65		
	Ambient Temperature	Operating temperature 0~50°c ,storage temperature -20~60°c		
	Ambient Humidity	Operating humidity 35~ 80%RH		
	Insulation Voltage	1000VAC 1min		
	Insulation Resistance	≥50mΩ(500VDC)		
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z		
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z		

ORDERING CODE

DPS – 5 (1) 10 (2) R (3) V (4) – □ (5)

1. DPS-5 Series

2. Range
10: -100~1000kpa
20: -100~2000kpa
01: -100~100kpa

3. Port
R: R1/4" (M5 female thread)
N: NPT1/4"(M5 female thread)
G: G1/4" (M5 female thread)

4. Output
V: 2*NPN+Analog 1~5V
W: 2*PNP+Analog 1~5V
A: 2*NPN+Analog 4~20mA
B: 2*PNP+Analog 4~20mA

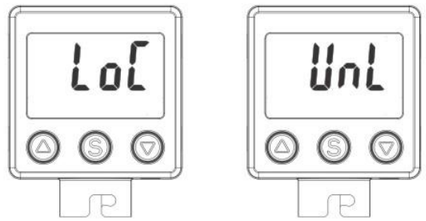
5. Mounting
M : Panel
N : Panel+shield
Z : L bracket
S : S bracket

QUICK SETTING

● **Zero point setting**

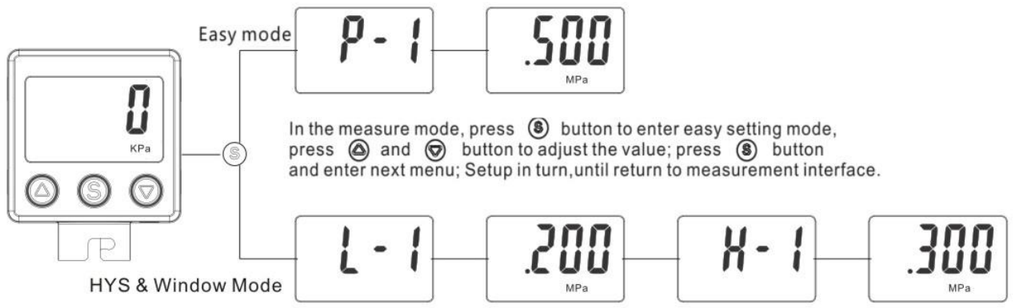
In the measure mode,press ▲ + ▼ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

● **key lock and unlock**



Lock: in the measure mode, press ▲ + S + ▼ button at the same time until "LOC" shown,release the buttons;
Unlock: in the measure mode, press ▲ + S + ▼ button at the same time unitl "UNL" shown,release the buttons.

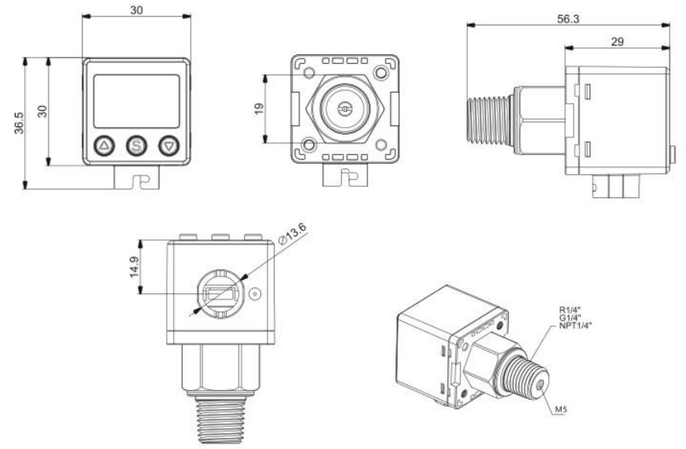
● **Easy setup**



In the measure mode, press S button to enter easy setting mode, press ▲ and ▼ button to adjust the value; press S button and enter next menu; Setup in turn,until return to measurement interface.

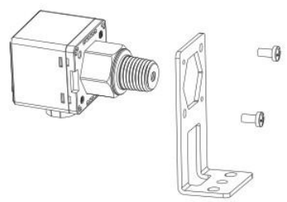
MOUNTING DIMENSIONS(mm)

Overall dimension& connection port

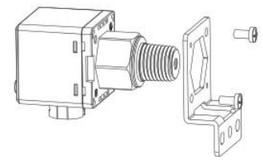


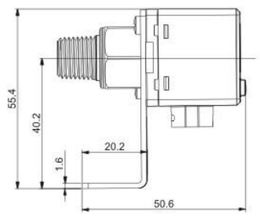
Mounting bracket

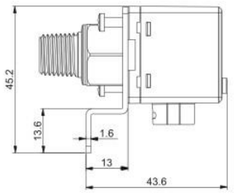
L bracket

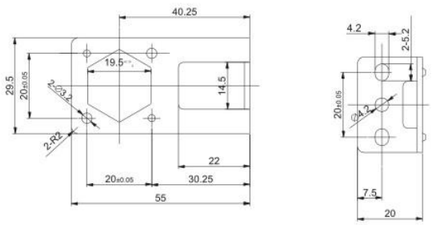


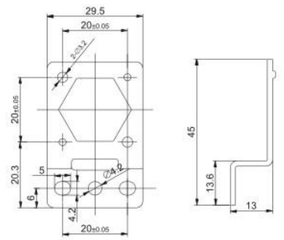
S bracket



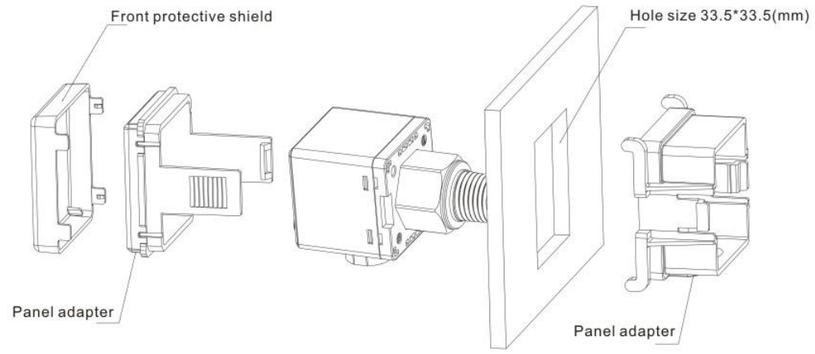




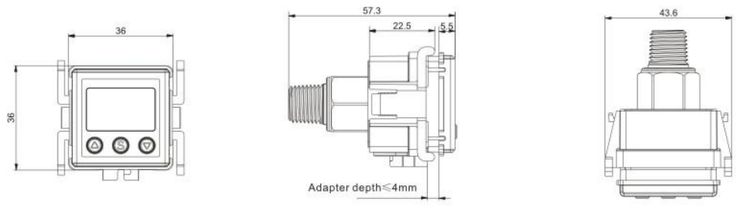




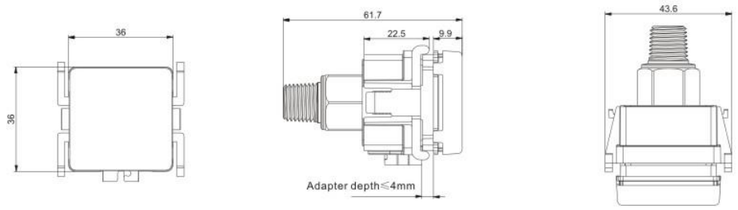
Panel bracket



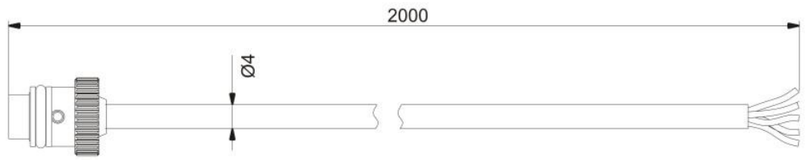
Panel mount



Add dust cover installation

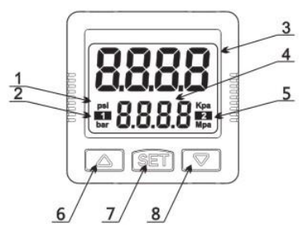


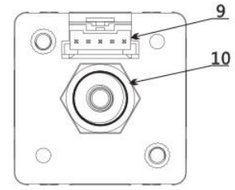
wire dimension



DPS–2 Series

PANEL





No	Name
1	Pressure Unit
2	Ouput 1 Indicator
3	Main Display Section
4	Sub-display Section
5	Ouput 2 Indicator
6	Up Button
7	Setting Button
8	Down Button
9	Electric Interface
10	Pressure Port

SPECIFICATION

Model		DPS-201(Compound)	DPS-210(Positive)
Pressure measure	Range Of Measure	-100kPa~100kPa	-0.100MPa~1.000MPa
	Setting Range	-100kPa~100kPa	0.000MPa~1.000MPa
	Withstand Pressure	500kPa	1.500MPa
	Pressure Type	Non-flammable ,Non-corrosive gas, Gauge pressure measurement	
	Measure Accuracy	⩽±2%F.S.(Ambient temperature 25°c)	
	Temperature Error	⩽±3%F.S. (Temperature range 0~ 50°c)	
	Measure Pattern	Hysteresis model	
		Compare mode of upper and lower bounds	
Port size		External R1/8、NPT1/8、G1/8 option , internal thread M5	
Display	Brief Description	Double LCD display	
	Status Display	4-digital measurement value ,unit display,output status display	
	Display Model	Adjustable backlight ,4 groups of dispaly models	
Input Power	Voltage Range	12~24vdc ±10%	
	Power Comsuption	40mA MAX(Non-load)	
Output Signal	Transistor Output	NPN open-collector oupt Output current :80mA MAX Voltage drop : ⩽1V	PNP open-collector oupt Output current :80mA MAX Voltage drop : ⩽1V
	Analog Output	Voltage output Signal ampliude:1~5V Load resistance >1kΩ	Current output Signal ampliude:4~20mA Load resistance<400kΩ
	Response Time	Adjustable : 2.5ms、 20ms、100ms、 500ms、1000ms、 2000ms	
	Short-circuit Protecdtion	Yes	
Environmetal Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°c ,storage temperature -20~60°c	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	⩾50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	A mplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z	

DPS series digital pressure switch

ORDERING CODE

DPS–2 10 R V – □

1. DPS-2 Series

2. Range
   10: -100~1000kpa
   01: -100~100kpa

3. Port
   R: R1/8(M5 female thread)
   N: NPT1/8 (M5 female thread)
   G: G1/8 (M5 female thread)

4. Output
   N: NPNx2
   P: PNPx2
   A: NPN+Analog 4~20mA
   V: NPN+Analog 1~5V
   B: PNP+Analog 4~20mA
   W: PNP+Analog 1~5V

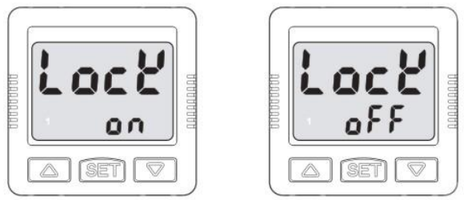
5. Mounting
   M : Panel
   N : Panel+shield
   Z : L bracket
   S : S bracket

QUICK SETTING

● **Zero point setting**

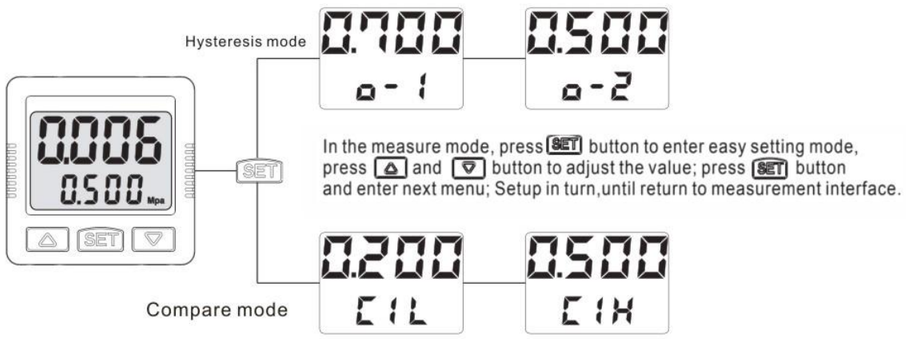
In the measuremode,press+ △ ▽
button at the same time,untildisplay"0",release the button;
PS:resetrange:+/-10%F.S.

● **key lock and unlock**



Lock: in the measure mode, press
△ + SET + ▽ button at the same time until
"LOCK ON" shown,release the buttons;
Unlock: in the measure mode, press
△ + SET + ▽ button at the same time unitl
"LOCK OFF" shown,release the buttons.

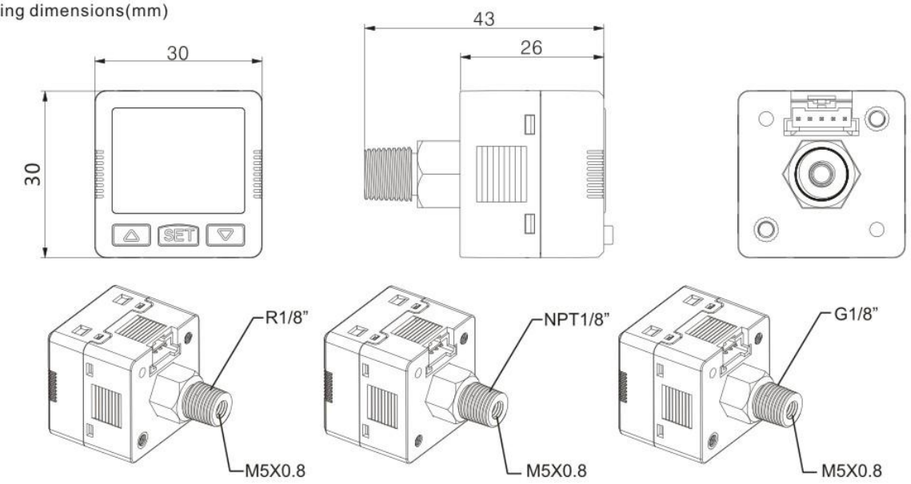
● **Easy setup**



In the measure mode, press SET button to enter easy setting mode,
press △ and ▽ button to adjust the value; press SET button
and enter next menu; Setup in turn,until return to measurement interface.

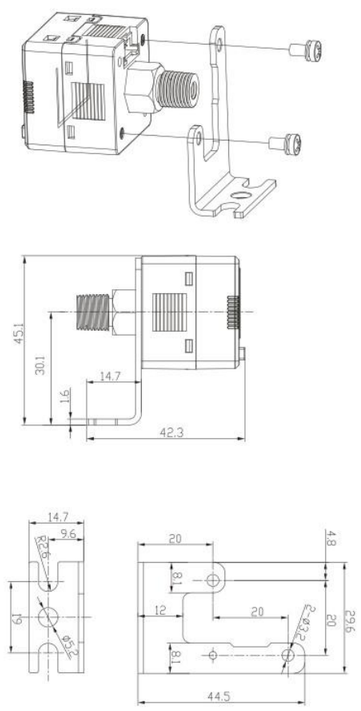
MOUNTING DIMENSIONS(mm)

Mounting dimensions(mm)

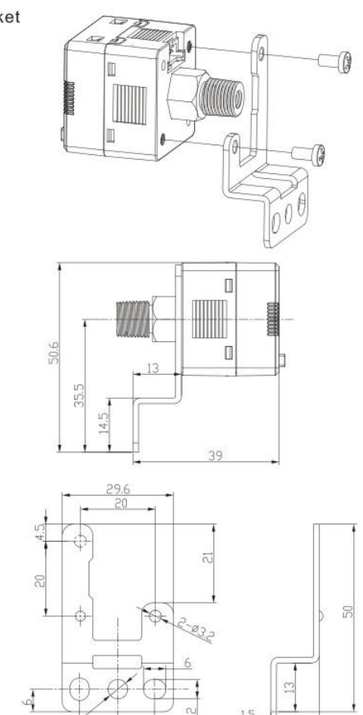


Mounting Bracket

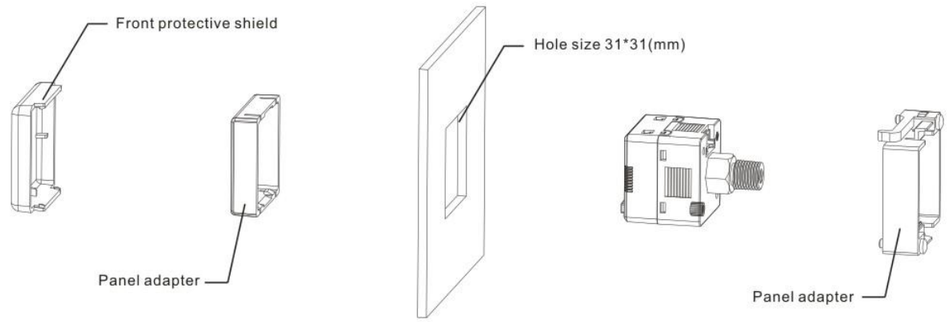
L bracket



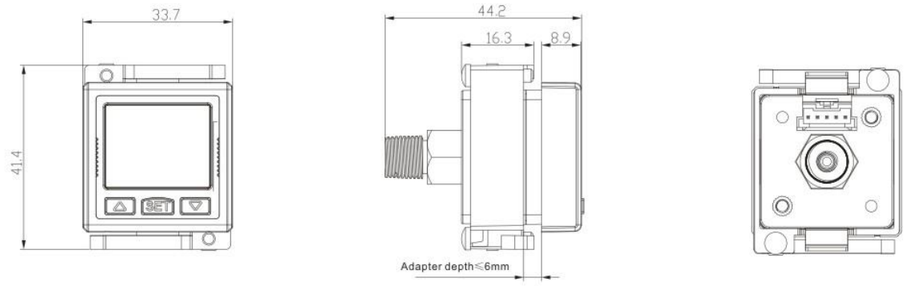
S bracket



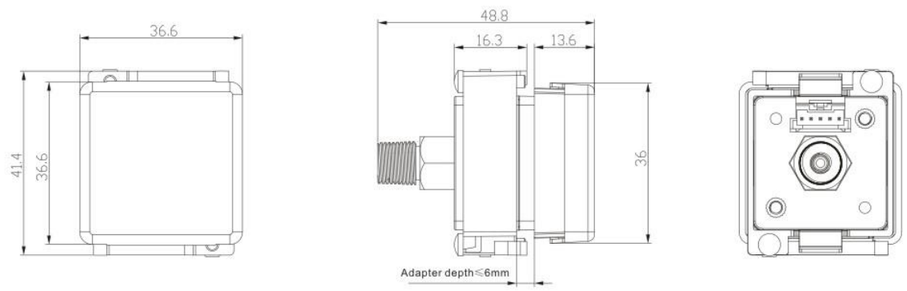
Panel bracket



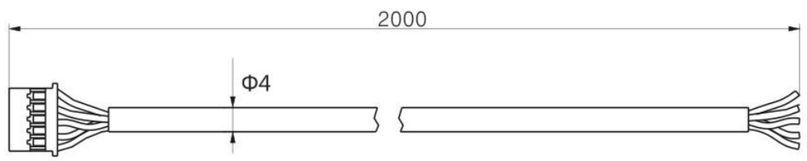
Panel mount



Add dust cover installation

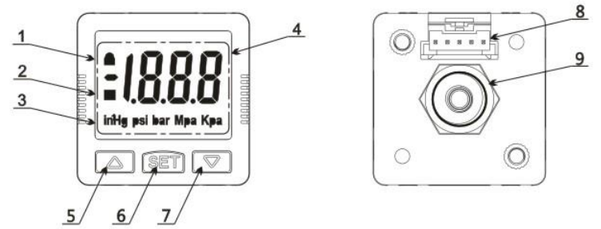


Wire dimension



DPS–3 Series (Anti–corrsion)

PANEL



序号	名称
1	Locking indicator
2	Ouput indicator
3	Pressure unit
4	Main display section
5	Up button
6	Setting button
7	Down button
8	Electric interface
9	Pressure port

SPECIFICATION

Model		DPS-301(Compound)	DPS-310(Positive)
Pressure measure	Range Of Measure	-100kPa~100kPa	-0.100MPa~1.000MPa
	Setting Range	-100kPa~100kPa	0.000MPa~1.000MPa
	Withstand Pressure	500kPa	1.500MPa
	Pressure Type	Non-flammable ,Non-positive gas, Gauge pressure measurement	
	Measure Accuracy	⩽±2%f.s.(ambient temperature 25°c)	
	Temperature Error	⩽±3%f.s. (t emperature range 0~ 50°c)	
	Measure Pattern	Hysteresis mode	
		Single point mode	
		Window mode	
Port size		External R1/8、NPT1/8、G1/8 option , internal thread M5	
Display	Status Display	LCD display,4-digital measurement value ,unit display ,output status display	
	Display Model	Adjustable backlight ,4 groups of dispaly models	
Input Power	Voltage Range	12~24vdc ±10%	
	Power Comsuption	40ma max(non-load)	
Output Signal	Transistor Output	NPN open-collector oupt Output current :80ma max Voltage drop : ⩽1v	PNP open-collector oupt Output current :80ma max Voltage drop : ⩽1v
	Response Time	Adjustable : 2.5ms、 20ms、100ms、 500ms、1000ms、 2000ms	
	Short-circuit Protecdtion	Yes	
Environmetal Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°c ,storage temperature -20~60°c	
	Ambient Humidity	Operating humidity 35~ 80%rh	
	Insulation Voltage	1000vac 1min	
	Insulation Resistance	⩾50mΩ(500vdc)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	A mplitude 1.5mm, 10hz~ 500hz, 2 hours each direction of x,y,z	

ORDERING CODE

DPS–3 10 R X – □

1. DPS-3 Series

2. Range
   10:-100~1000kPa
   01:-100~100kPa

3. Port
   R: R1/8(M5 female thread)
   N: NPT1/8 (M5 female thread)
   G: G1/8 (M5 female thread)

4. Output
   X:NPN+PNP
   Explanation 1: Product single-channel setting,
   Optional NPN or PNP output channel , the black wire is
   NPN and the white wire is PNP

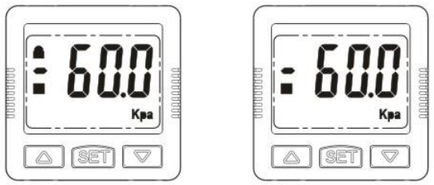
5. Mounting
   M : Panel
   N : Panel+shield
   Z : L bracket
   S : S bracket

QUICK SETTING

● **Zero point setting**

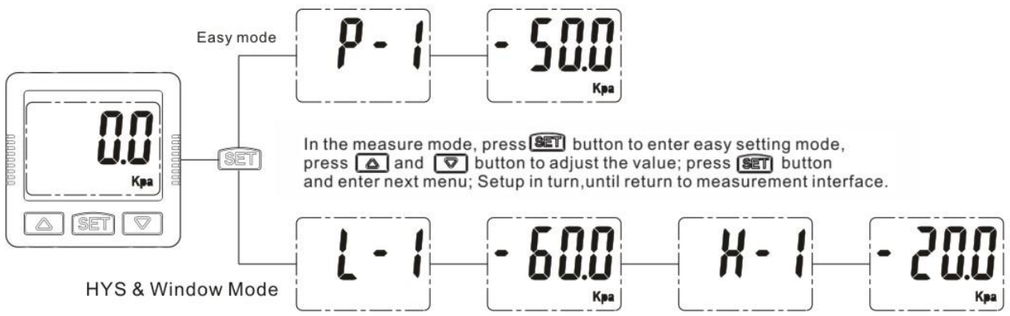
In the measure mode,press △+▽ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

● **key lock and unlock**



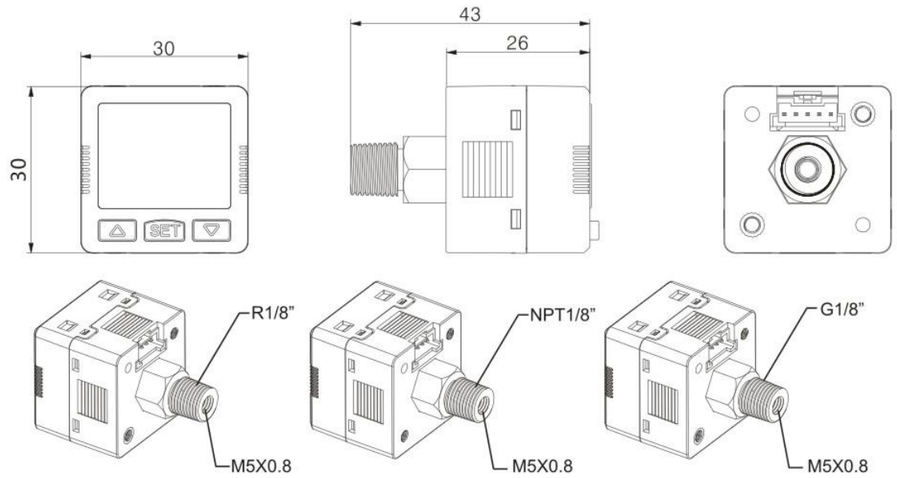
Lock: in the measure mode, press △+SET+▽ button at the same time until "LOCK ON" shown,release the buttons;
Unlock: in the measure mode, press △+SET+▽ button at the same time unitl "LOCK OFF" shown,release the buttons.

● **Easy setup**



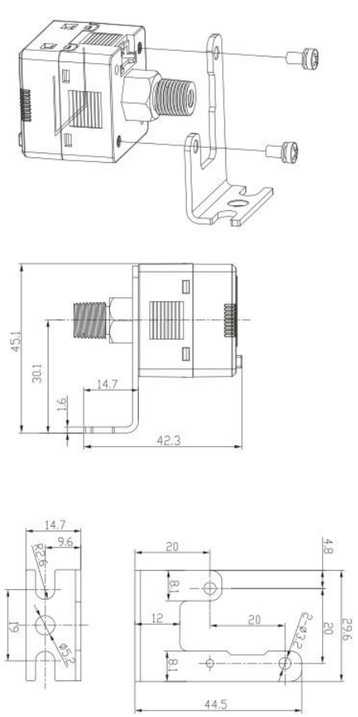
MOUNTING DIMENSIONS(mm)

Mounting dimensions(mm)

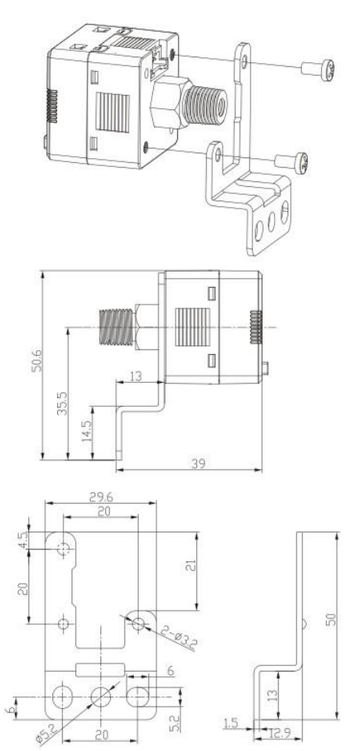


Mounting Bracket

L bracket

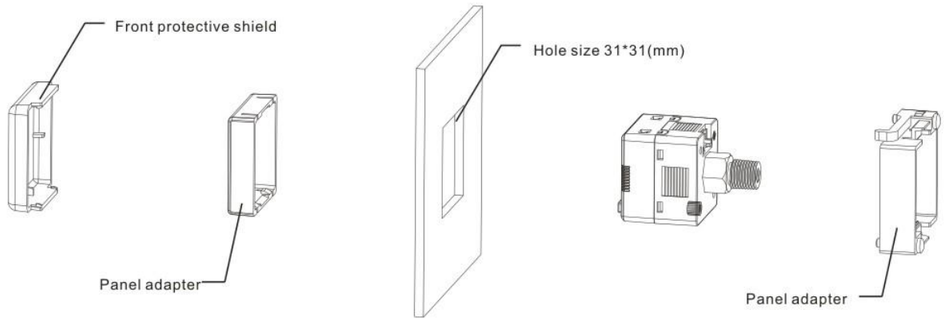


S bracket

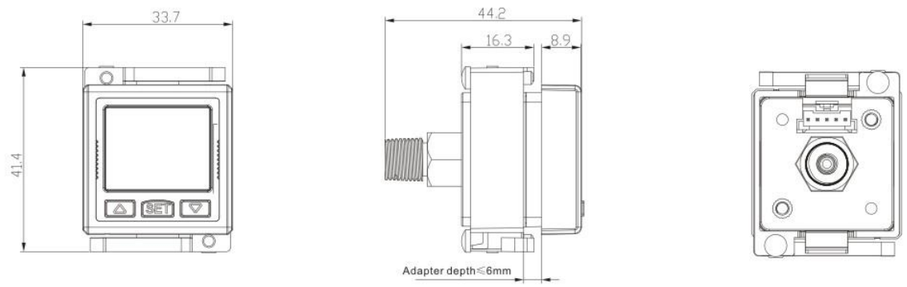


DPS series digital pressure switch

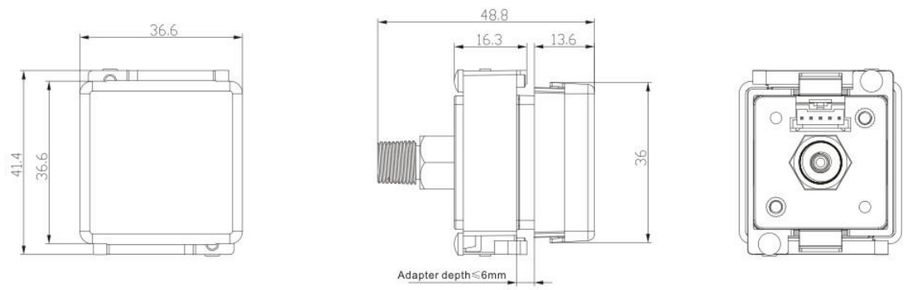
Panel bracket



Panel mount



Add dust cover installation



Wire dimension