PREMIER QUALITY
GLOBAL REPUTATION

XINGYU ELECTRON(NINGBO) CO.,LTD

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2019-2020

XINGYU ELECTRON (NINGBO) CO.,LTD

2019

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Company Profile

XINGYU ELECTRON (NINGBO) CO.,LTD. is one of the key enterprises in Chinese pneumatic and valve industry. We specialize in developing, manufacturing, marketing and service of pneumatic actuators, angle seat valves, solenoid valves, solenoids and DIN connectors.

Xingyu was founded in year 1990 and covers an area of 37000 m². Now we have 400 + employees .Our company equips large number of CNC machines, automated assembling lines as well as other advanced equipments.

Our company is ISO9001:2015 certificated and IATF16949 certificated and has more than 30 national products patents; Most products are CE certificated and some are UL approved. Xingyu is the first company getting the license on Explosion proof coil production in China.

With high quality, competitive price, strict production control system and good service, our products have been selling all over the world, like UK, Germany, Russia, South Africa, India, Turkey, USA, South America, Australia, Korea and so on.

“Not to be the biggest, but to be the strongest” is our Business Goal and ideal. We will try to make great efforts for a better future.

Company Certificate

CERTIFICATE

ISO 9001:2015

DEKRA Certification GmbH hereby certifies that the company

Xingyu Electron (Ningbo) Co., Ltd.

Scope of certification:

Design and Manufacture of Solenoids Coils, Solenoid Valve, Pneumatic Control Valve and Pneumatic Actuator

Certified location:

West end of Hengfeng road, Fangqiao Industry Zone, Jiangkou Subdistrict, Fenghua District, Ningbo City, Zhejiang Province, P.R.China.

has established and maintains a quality management system according to the above mentioned standard. The conformity was adduced with audit report no. PF18040027.

This certificate is valid from 2018-08-31 to 2021-08-30

Certificate registration no.: 50617344/1

Lothar Weihofen
DEKRA Certification GmbH Stuttgart; 2018-08-31

DAkkS Deutsche Akkreditierungsstelle D-ZM-16029-01-01

CERTIFICATE

IATF 16949:2016

DEKRA Certification GmbH certifies that the company

Xingyu Electron (Ningbo) Co., Ltd.

Scope of certification:

Design and Manufacture of Solenoid Valve for tail gas treatment & Hot and cold cycle system and Solenoid Coil for Engine system

With 8.3 Product Design

Certified location:

West end of Hengfeng road, Fangqiao Industry Zone, Jiangkou Subdistrict, Fenghua District, Ningbo City, Zhejiang Province, P.R.China.

has established and maintains a quality management system according to the above mentioned standard. The conformity was adduced with audit report no. PF18040027.

This certificate is valid from 2018-08-31 to 2021-08-30

Certificate registration no.: 160617086/1 IATF No: 0330036

Lothar Weihofen
DEKRA Certification GmbH Stuttgart, 2018-08-31

Product Series

P 01–08

PROPORTIONAL AIR REGULATOR

- Output status LCD display
- 4 display modes can be set
- Built-in 2 sets of NPN or PNP crystal digital output
- Dual-row LCD display for 4-digit measurement
- 3- color digital LCD display

P 09–20

DIGITAL PRESSURE SWITCH

- ±0.5% high control accuracy
- 300L-5000L wide range flow output selection
- Real-time display of arrival pressure indication / actual output pressure
- 0-1bar/3bar/5bar/8bar/9bar multi-range selection
- IP65, suitable for a variety of harsh industrial environments

P 21–29

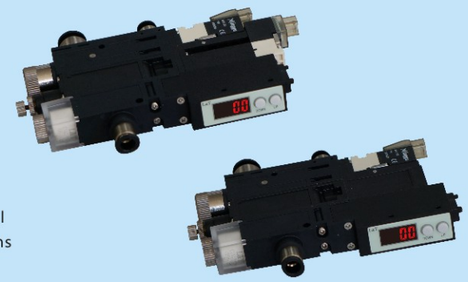
5 WAY LOW CONSUMPTION DIRECTIONAL SOLENOID VALVE

- Small size, saves space, and can be integrated installation;
- Fast speed, short response time;
- Low power (1W), less heat, programmable controlled and direct acting;
- With pilot type, improve divert capacity, bigger reset force and more stable function.
- Application: Automation production line, testing equipment, textile machinery,etc.

P 30–41

VACUUM GENERATOR

- Max 12 optional types
- Can be Manifold mounting
- Working pressure range : 0.25 - 0.7 Mpa
- Strong Vacuum Preservation Ability
- Equipped with vacuum pressure switch to realize automatic control
- Various Vacuum Nozzle Orifice ,Can be used in all kinds of occasions
- Two kinds of vacuum destroying function, short destroying time
- Vacuum Destroying flow rate : 0 ~ 40 L/min



XINGYU RFS

PREMIER QUALITY
GLOBAL REPUTATION

E/P REGULATOR

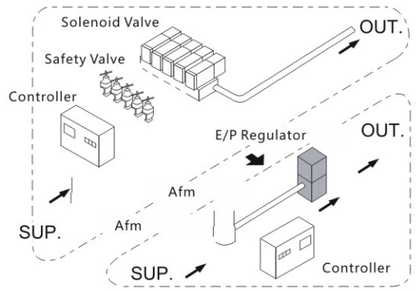
High performance LCD display

Ultra low power consumption and environmental protection

Excellent design, reasonable structure

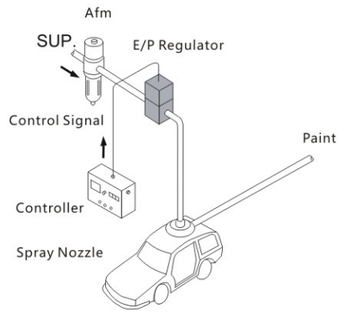
Multiple signal selection

Analog Control Multistage Control



Analog Controller

Electrostatic Coating Control



EPV1	EPV2	EPV3

Ordering code

EPV 2 — 5 0 3 1 ☐ 2 S ☐

- **Model**

1	1 Type
2	2 Type
3	3 Type

- **Range**

1	0.1MPA
3	0.5MPA
5	0.9MPA

- **Power supply**

0	DC24V

- **Input**

0	Current : DC4-20mA
1	Current : DC0-20mA
2	Voltage : DC0-5V
3	Voltage : DC0-10V

- **Output**

1	Analog : DC1-5V
2	Switch : NPN Output
3	Switch : PNP Output
4	Analog : DC4-20mA

Digital Communication
RS485 Communication

Note: customizable protocol

- **Connection thread and size**

Blank	Rc	1	1/8(1 Type)
N	NPT	2	1/4(1,2,3 Type)
T	NPTF	3	3/8(2,3 Type)
F	G	4	1/2(3 Type)

- **Cable connector**

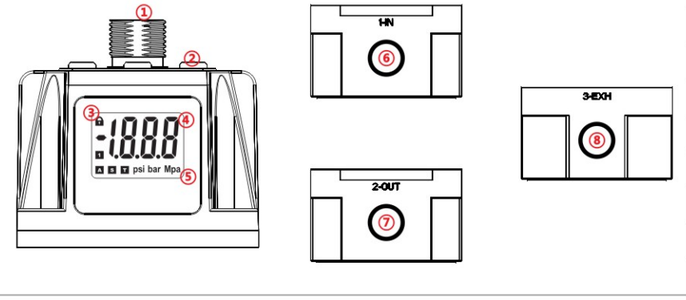
S	Straight 3m
L	Right angle 3m
N	No cable

- **Bracket**

	No bracket
B	Flat bracket
C	L type bracket

PROPORTIONAL AIR REGULATOR
EPV Series

Panel

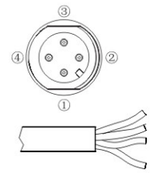


NO.	Name
①	M12 aviation plug
②	Water-proof key
③	Locking key
④	Main display section
⑤	Unit display
⑥	Air supply port
⑦	Air out port
⑧	Air EXH port

Specification

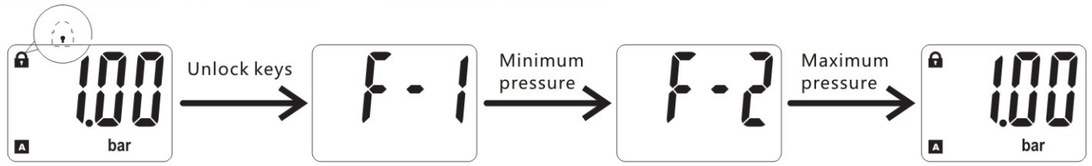
Model		EPV1-1	EPV1-3	EPV1-5
		EPV2-1	EPV2-3	EPV2-5
		EPV3-1	EPV3-3	EPV3-5
Min. supply pressure		Set pressure+0.1MPa		
Max. supply pressure		0.2MPa	1.0MPa	
Set pressure range		0.005~0.1MPa	0.005~0.5MPa	0.005~0.9MPa
Power supply	Voltage	DC：24V 10%		
	Current	DC：24V 0.12A MAX		
Input signal	Current type	DC4~20mA, DC0~20mA		
	Voltage type	DC0~5V, DC0~10V		
	Preset type	4 point		
Input Impedance	Current type	Below 250Ω		
	Voltage type	Approx 6.5KΩ		
	Preset type	Preset input type 24VDC approx 4.7K Ω		
Output Signal	Analog output	DC 1~5V (load impedance: over 1 KΩ) DC 4~20mA (load impedance: below 250Ω) Output precision within range the range of 6%F.S.		
	Switch output	NPN-OC output type : 30mA PNP-OC output type : 30mA		
Linear		1%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		

Wiring method

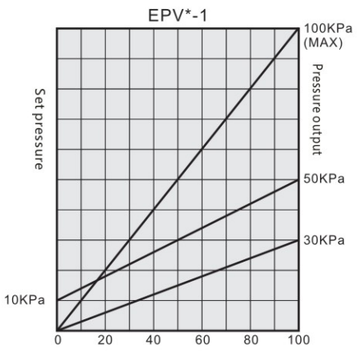


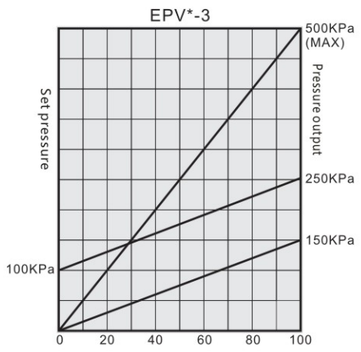
① Brown:VCC(POWER SUPPLY)
② White:input signal
③ Blue:0 V (COMMON)
④ Black:output signal

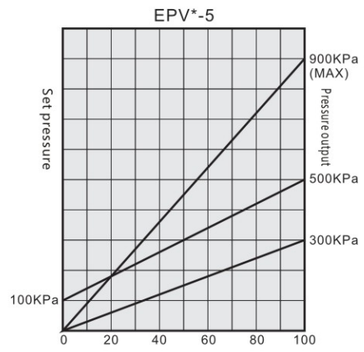
Setting method



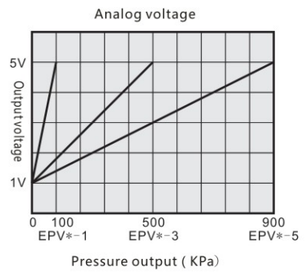
Pressure output Signal input

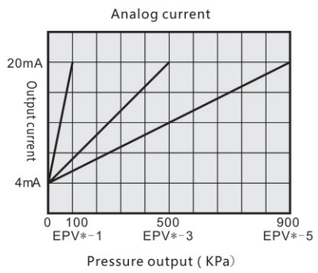


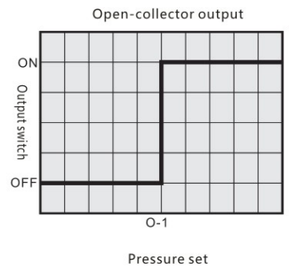




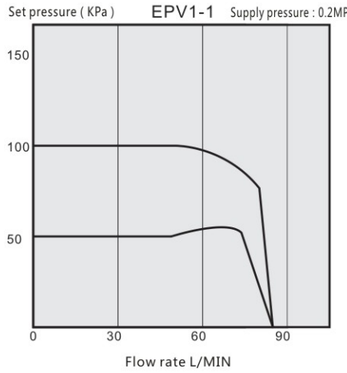
Pressure output Signal output

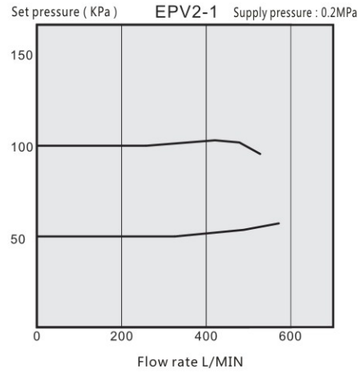


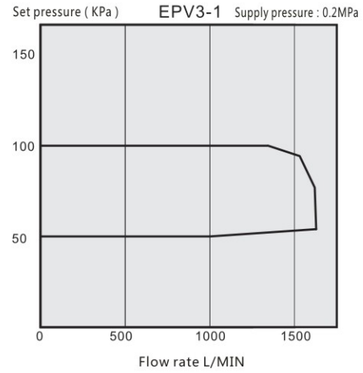


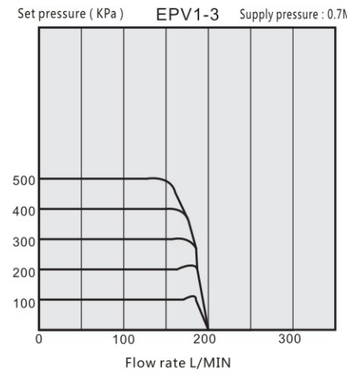


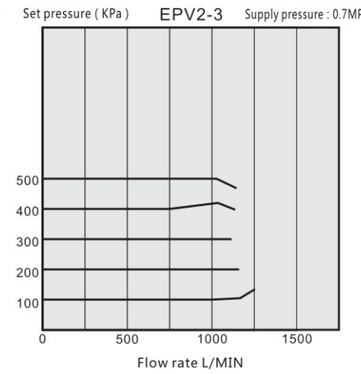
Flow rate characteristics

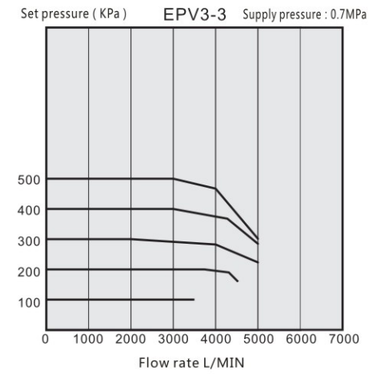


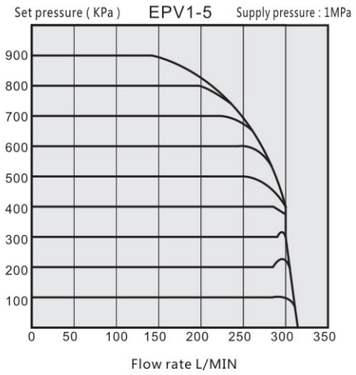


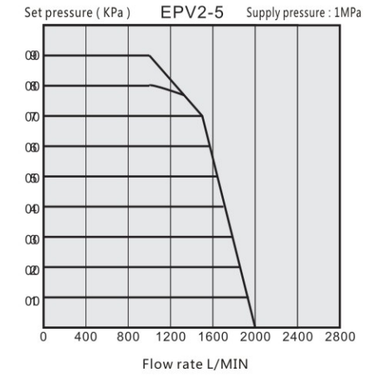


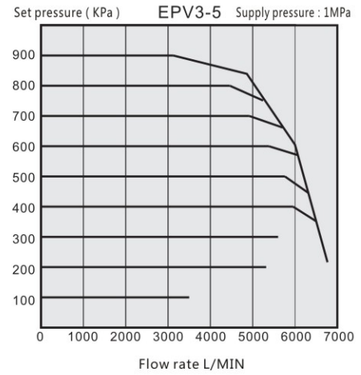




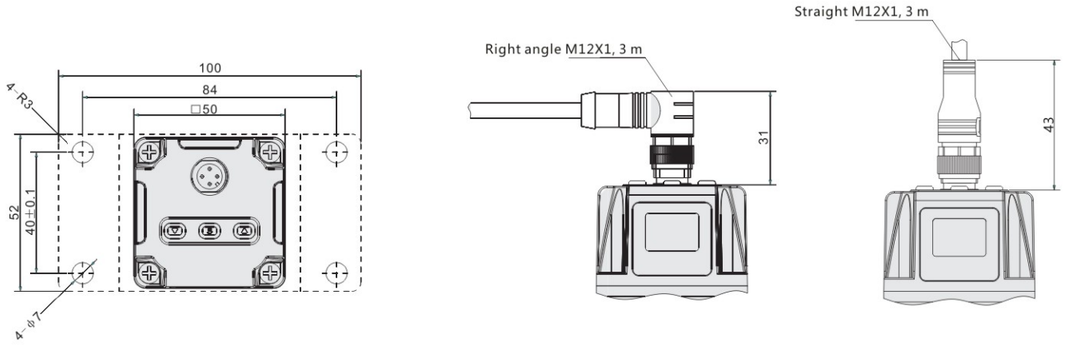




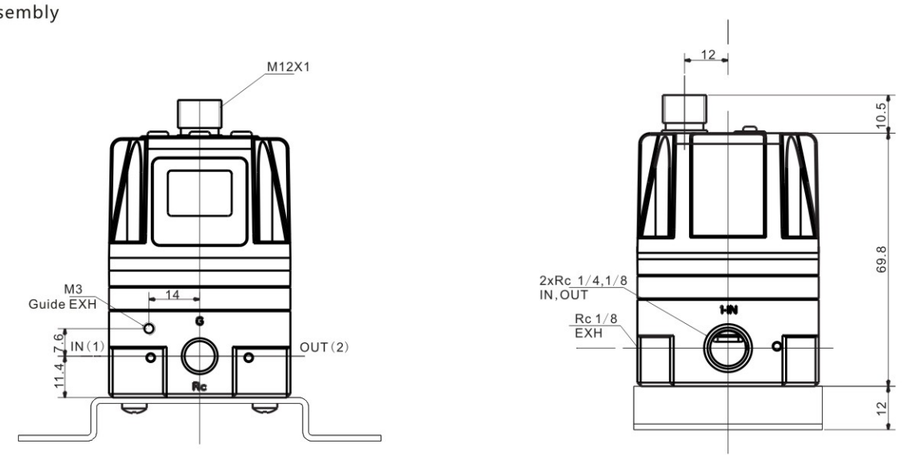




EPV 1 series dimensions (mm)

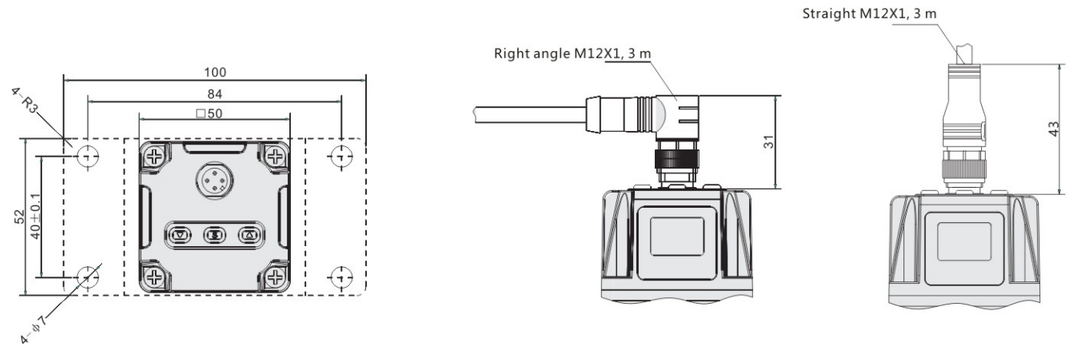


Flat bracket assembly

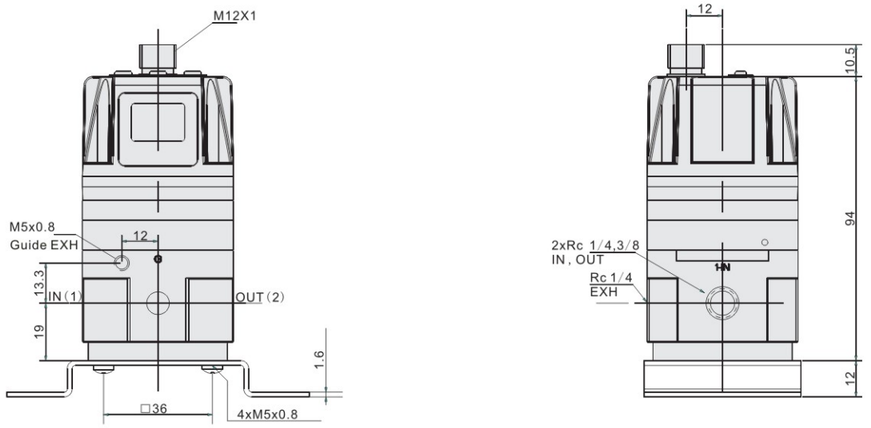


L bracket assembly

EPV 2 series dimensions (mm)

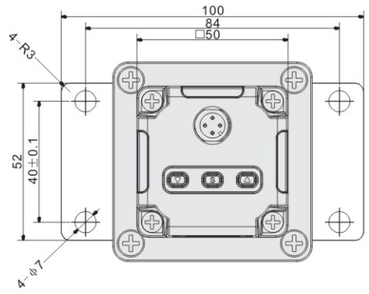


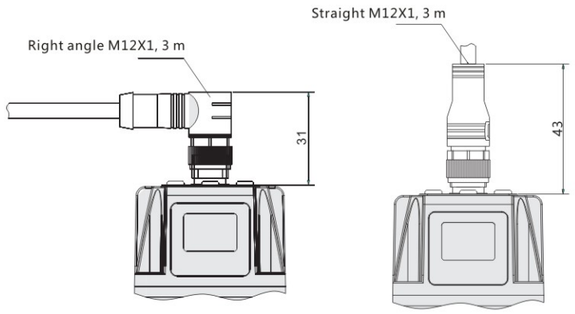
Flat bracket assembly



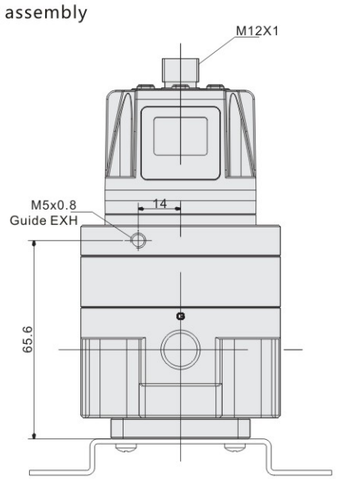
L bracket assembly

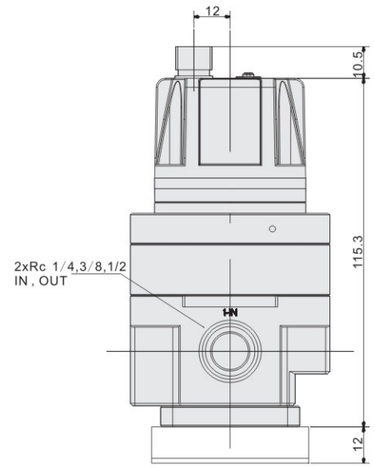
EPV 3 series dimensions (mm)



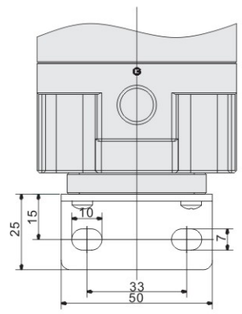


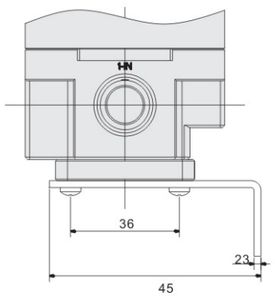
Flat bracket assembly

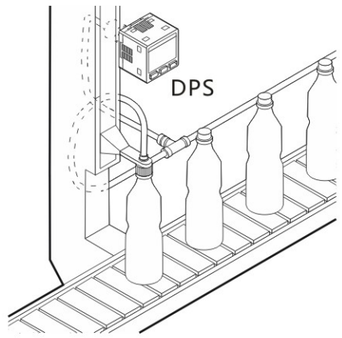
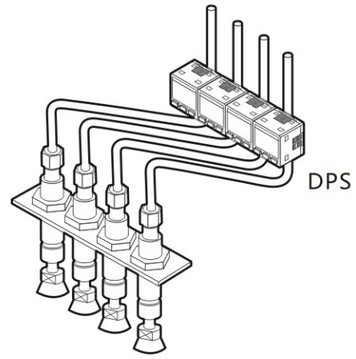




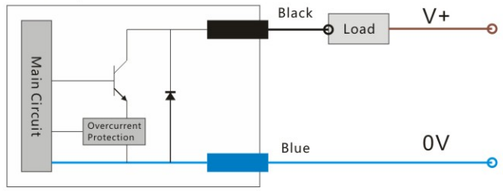
L bracket assembly





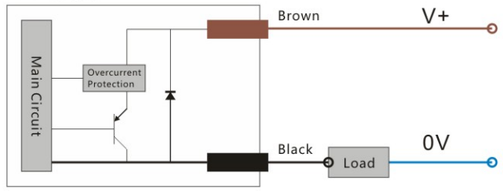
Positive Pressure Application	Vacuum Application
	

NPN output



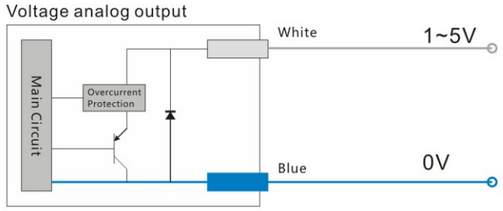
NPN OC circuit:
Low level output When The Switch is On:
High resistance when the switch is off:

PNP output

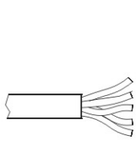


PNP OC circuit:
High level output when the switch is on
High resistance when the switch is off:

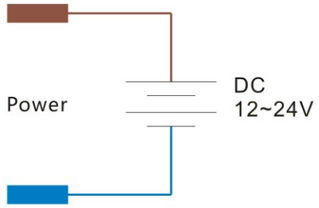
Voltage analog output



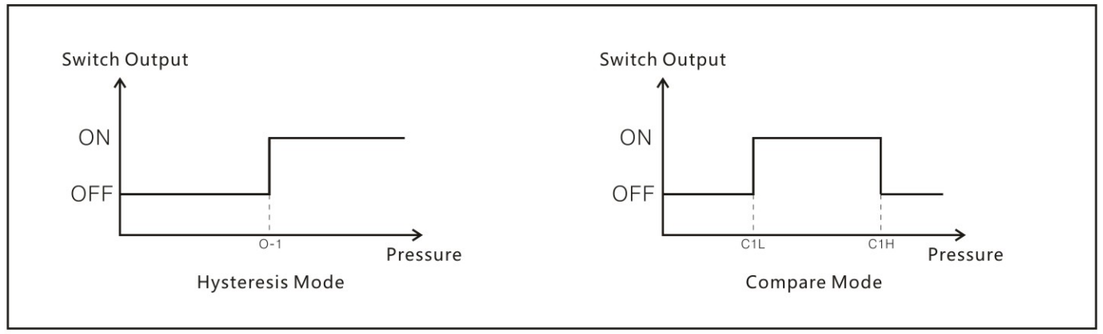
Analog voltage output
Full scale proportional output
Reference level 0V



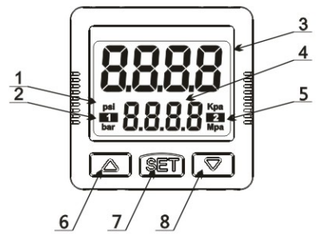
Brown:VCC(POWER SUPPLY)
Black: output 1
White: output 2/analog output
Orange: special function
Blue:VSS (COMMON)

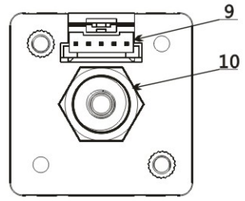


Output function diagram



Panel





NO.	Name
1	Pressure Unit
2	Output 1 indicator
3	Main Display section
4	Sub-display secion
5	Output 2 indicator
6	▲Button
7	Setting Button
8	▼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℃)	
	Temperature error	≤±3%F .S. (Temperature range 0~50℃)	
	Measure pattern	Hysteresis mode	
		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 display models	
Input power	Voltage range	12 ~ 24VDC ±10%	
	Power comsumption	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 Singal ampliude:1~5V Load resistace:≥1KΩ	Current output Singal ampliude:4~20mA Load resistace:≤400Ω
	Response time	Adjustable:2.5ms,20ms,100ms,500ms,1000ms,2000ms	
	Short-circuit protection	Yes	
Environmetal resistance	IP level	IP40	
	Ambient temperature	Operating temperature 0~50℃,storage temperature-20~60℃	
	Ambient humidity	Operating humidity35~80%RH	
	Insulation voltage	1000VAC 1min	
	Insulation resistance	≥50MΩ(500VDC)	
	Shock	Max 100m/s² ,3 times each in6 directions of X.Y and Z	
	vibration	Amplitude 1.5mm.10HZ~500HZ,2 hours each direction of X.Y and Z	

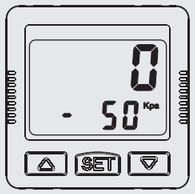
Ordering code

DPS — 210 R N — □

- Code: DPS-2:2 Series
- Range: 10：-100~1000kPa; 01：-100~100kPa
- Port: R：R1/8 (M5 thread); N：NPT1/8 (M5 thread); G：G1/8 (M5 thread)
- Output: N：NPN×2; P： PNP×2; A：NPN+Analog 4~20mA; V：NPN+Analog 1~5V; B： PNP +Analog 4~20mA; W :PNP+Analog1~5V
- Mounting: M:Panel; N:Panel+shield; Z:L Bracket; S:S Bracket

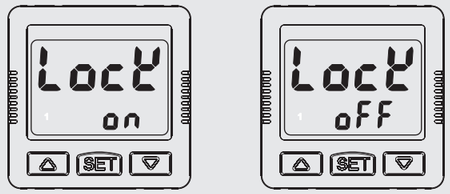
Quick setting

● Zero point setting



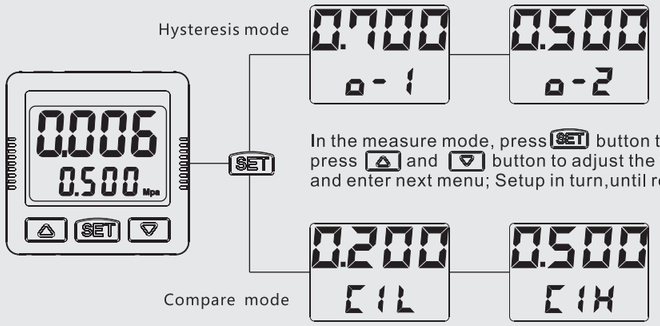
In the measure mode,press ▲+▼ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

● Key lock and unlock



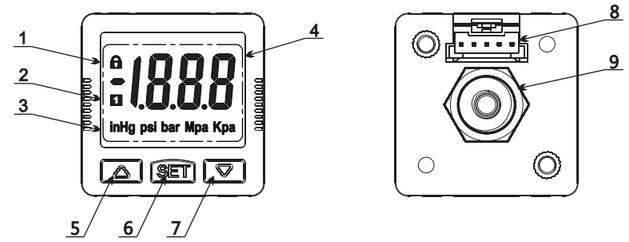
Lock: in the measure mode, press ▲+SET+▼ button at the same time until "LOCK ON" shown,release the buttons;
Unlock: in the measure mode, press ▲+SET+▼ button at the same time unitl "LOCK OFF" shown,release the buttons.

● Easy setting function



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.

Panel



NO.	Name
1	Locking Indicator
2	Output Indicator
3	Pressure Unit
4	Main Display Section
5	▲Button
6	Setting Button
7	▼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-corrosive gas,gauge pressure measurement	
	Measure accuracy	≤±2%F .S.(Ambient temperature 25℃)	
	Temperature error	≤±3%F .S. (Temperature range 0~50℃)	
	Measure pattern	Hysteresis mode	
		Single point mode	
		Window mode	
Port size		External R1/8,NPT1/8,G1/8 option,internal thread M5	
Display	Brief description	LCD display, 4-digital measurement value,unit display,output status display	
	Status display	Adjustable backlight, 4 groups of display models	
Input power	Voltage range	12 ~ 24VDC ±10%	
	Power comsumption	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
	Response time	Adjustable:2.5ms,20ms,100ms,500ms,1000ms,2000ms	
	Short-circuit protection	Yes	
Environmetal resistance	IP level	IP40	
	Ambient temperature	Operating temperature 0~50℃,storage temperature-20~60℃	
	Ambient humidity	Operating humidity35~80%RH	
	Insulation voltage	1000VAC 1min	
	Insulation resistance	≥50MΩ(500VDC)	
	Shock	Max 100m/s² ,3 times each in6 directions of X.Y and Z	
	vibration	Amplitude 1.5mm.10HZ~500HZ,2 hours each direction of X.Y and Z	

Ordering code

DPS — 310 R X — □

- DPS: Code — DPS-3:3 Series
- 310: Range
  - 10：-100~1000kPa
  - 01：-100~100kPa
  - 16：0~1600kPa
- R: Port
  - R：R1/8 (M5 thread)
  - N：NPT1/8 (M5 thread)
  - G：G1/8 (M5 thread)
- X: Output
  - X：NPN+PNP ①

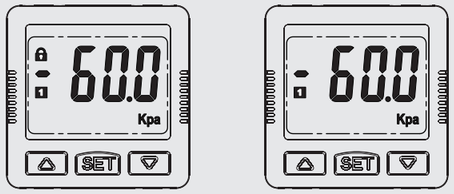
  Explanation 1: Product single-channel setting, optional NPN or PNP output channel, the black wire is NPN and the white wire is PNP.
- □: Mounting
  - M:Panel
  - N:Panel+shield
  - Z:L Bracket
  - S:S Bracket

Quick setting

Zero point setting

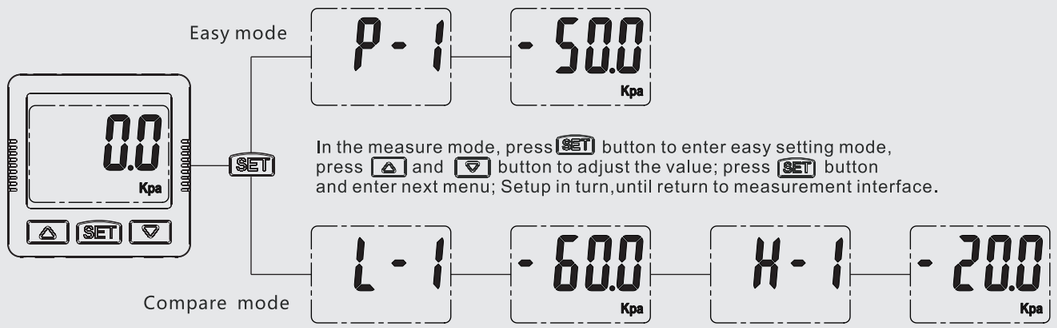
In the measure mode,press △+▽ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

Key lock and unlock



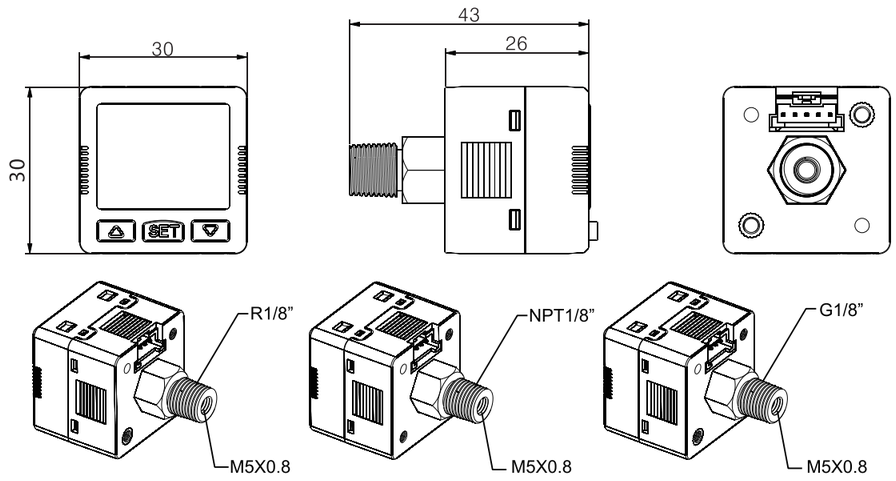
Lock: in the measure mode, press △+SET+▽ button at the same time until "LOCK ON" shown,release the buttons;
Unlock: in the measure mode, press △+SET+▽ button at the same time unitl "LOCK OFF" shown,release the buttons.

Easy setting function



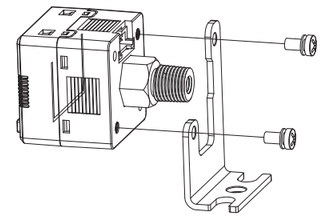
Mounting dimensions (mm)

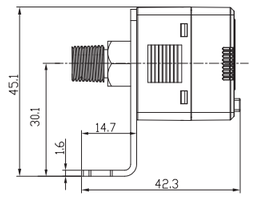
Overall dimensions & connection port

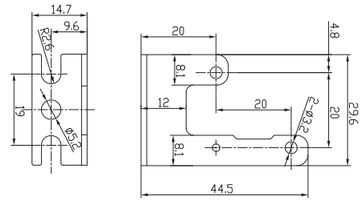


Mounting bracket

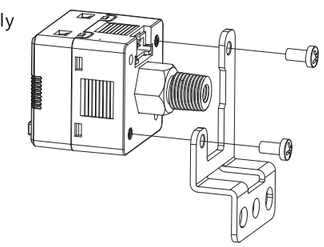
L bracket assembly

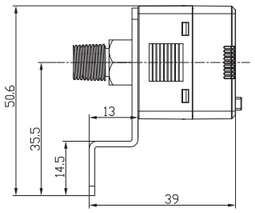


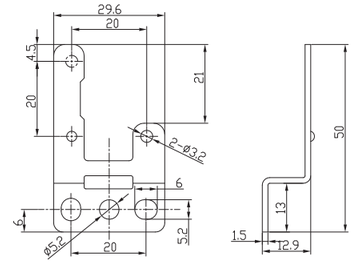




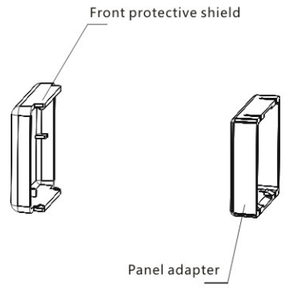
S bracket assembly

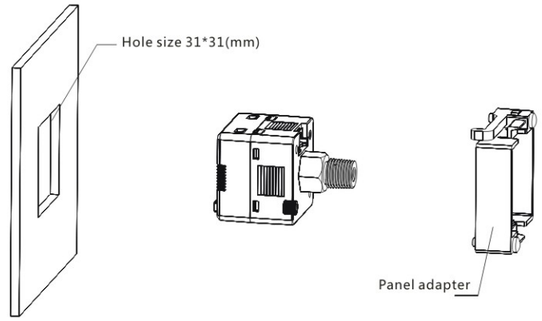




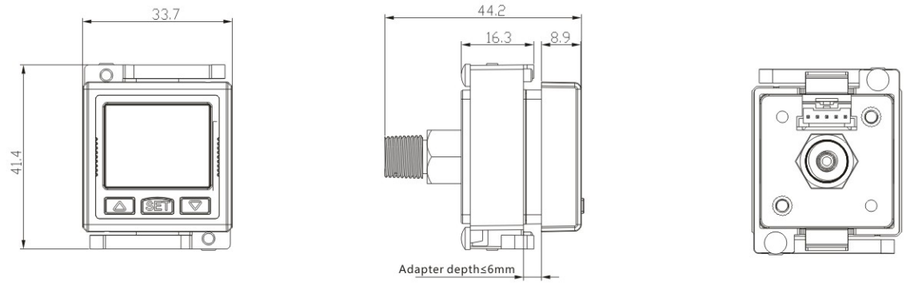


Panel bracket

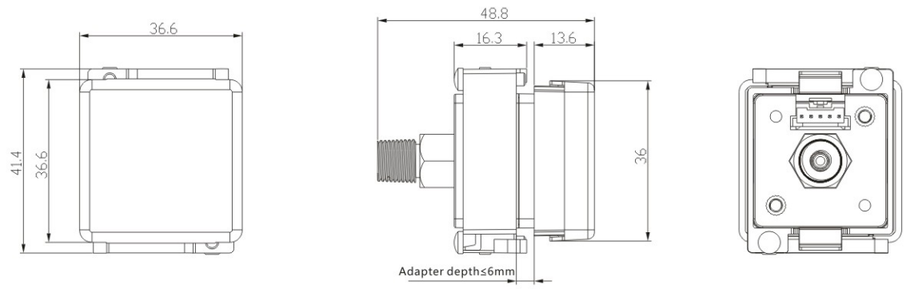




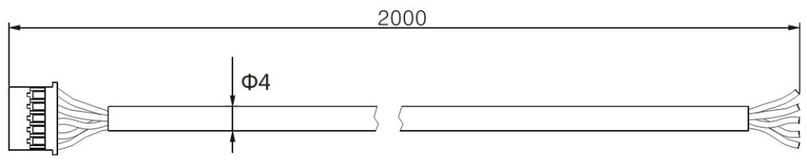
Panel mount



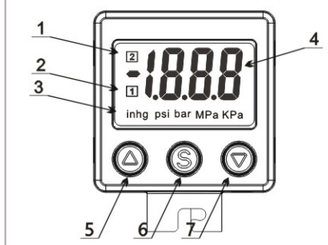
Add Dust Cover Installation

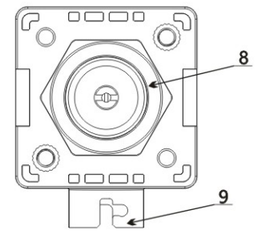


Wire dimensions



Panel





NO.	Name
1	Output indicator
2	Output indicator
3	Pressure Unit
4	Main Display Section
5	▲Button
6	Section Button
7	▼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	The product is not suitable for media which corrodes SUS316L		
	Measure accuracy	≤±2%F.S.(Ambient temperature 25℃)		
	Temperature error	≤±3%F.S.(Temperature range 0~50℃)		
	Measure pattern	Easy mode		
		Hysteresis mode		
		Compare mode of upper and lower bounds		
Port size		External R1/4,NPT1/4,G1/4 option,internal thread M5		
Display	Status display	4-digital measurement value,unit display,output status display		
	Display model	Adjustable backlight, 4 groups of display models		
Input power	Voltage range	12~24VDC ±10%		
	Power comsumption	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 Singal ampliude:1~5V Load resistace:≥1KΩ	Current output Singal ampliude:4~20mA Load resistace:≤400Ω	
	Response time	Adjustable:2.5ms,20ms,100ms,500ms,1000ms,2000ms		
	Short-circuit protection	Yes		
Environmetal resistance	IP level	IP65		
	Ambient temperature	Operating temperature 0~50℃,storage temperature-20~60℃		
	Ambient humidity	Operating humidity35~80%RH		
	Insulation voltage	1000VAC 1min		
	Insulation resistance	≥50MΩ(500VDC)		
	Shock	Max 100m/s² ,3 times each in6 directions of X.Y and Z		
	vibration	Amplitude 1.5mm.10HZ~500HZ,2 hours each direction of X.Y and Z		

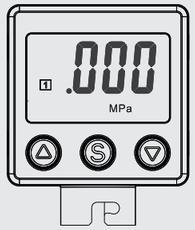
Ordering code

DPS — **510** **R** **V** — □

- Code: DPS-5:5 Series
- Range:
  - 10：-100~1000kPa
  - 20：-100~2000kPa
  - 01：-100~100kPa
- Port:
  - R:R1/4" (M5 thread)
  - N:NPT1/4" (M5 thread)
  - G:G1/4" (M5 thread)
- 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
- Mounting:
  - M:Panel
  - N:Panel+shield
  - Z:L Bracket
  - S:S Bracket

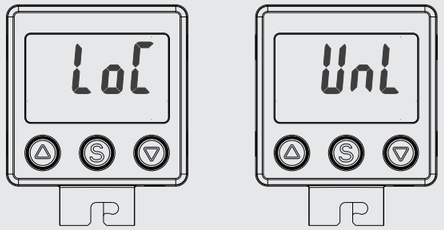
Quick setting

● Zero point setting



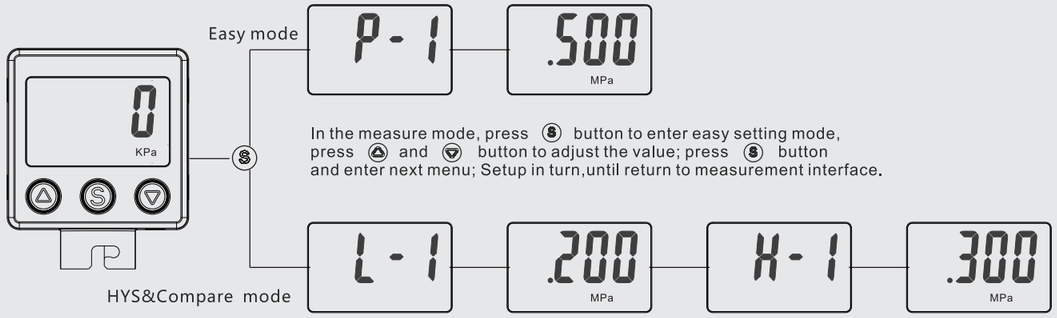
In the measure mode,press ▲ + ▽ button at the same time, until display"0", release the button;
PS: reset range:+/-10%F.S.

● Key lock and unlock



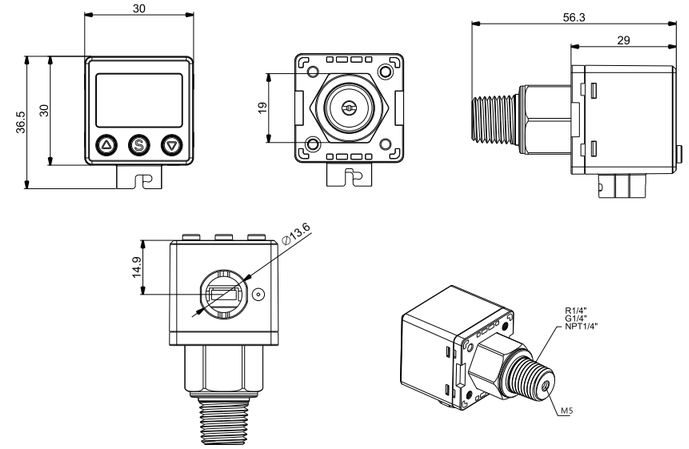
Lock: in the measure mode, press ▲ + S + ▽ button at the same time until "LOCK ON" shown,release the buttons;
Unlock: in the measure mode, press ▲ + S + ▽ button at the same time unitl "LOCK OFF" shown,release the buttons.

● Easy setting function

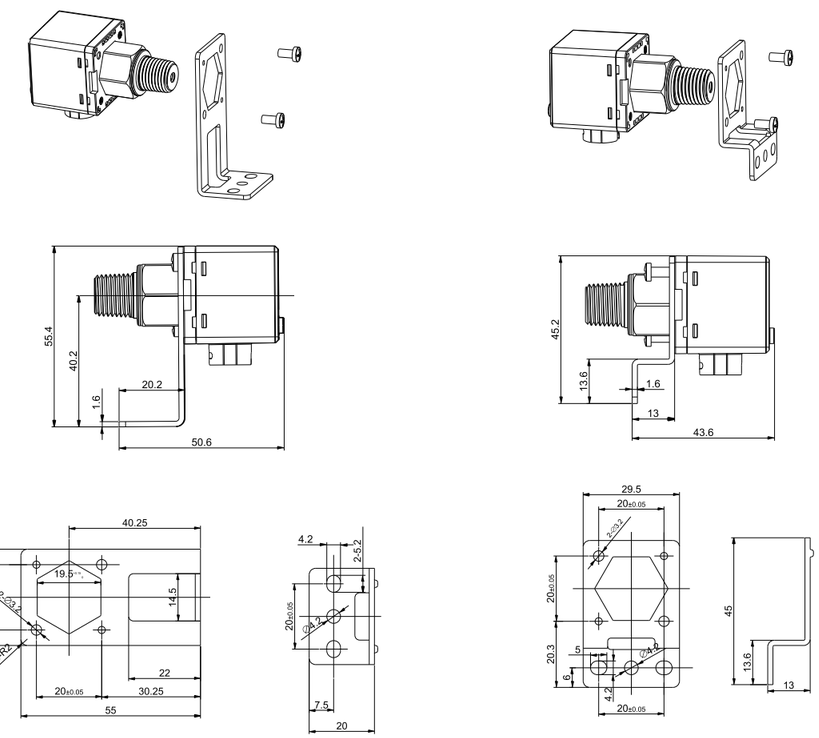


Mounting dimensions (mm)

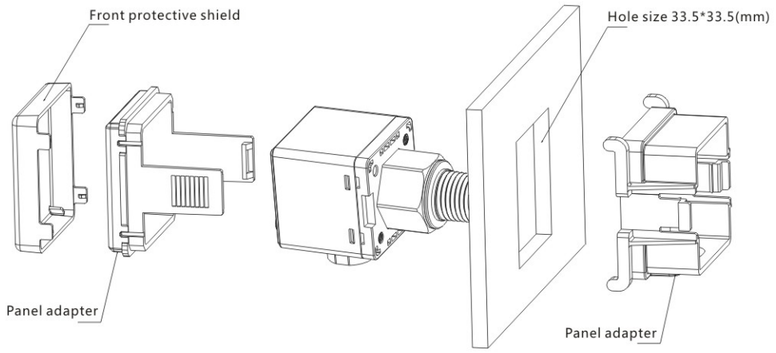
Overall dimensions & connection port



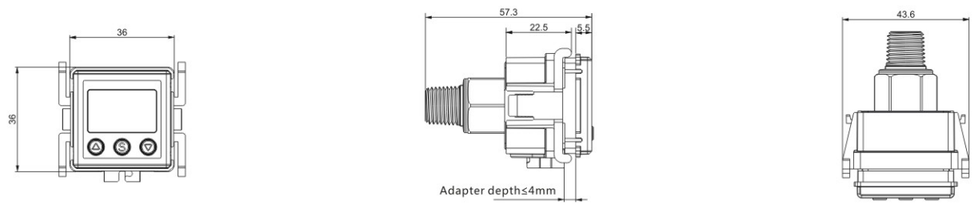
Mounting bracket



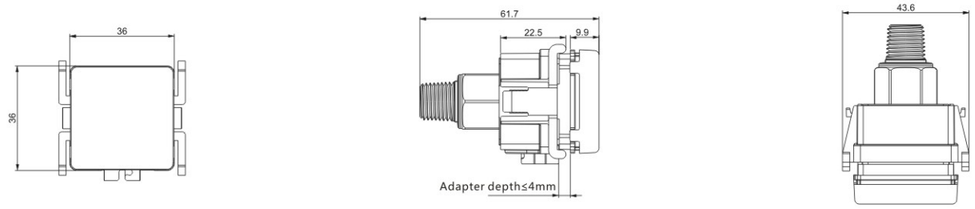
Panel bracket



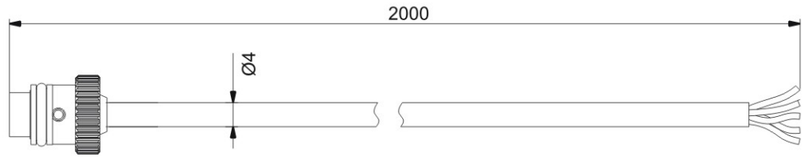
Panel mount



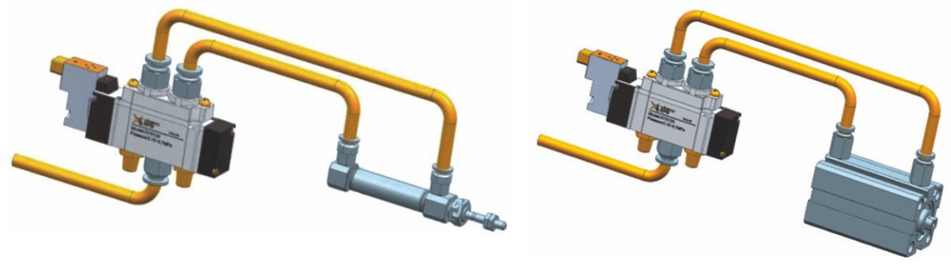
Add Dust Cover Installation



Wire dimensions



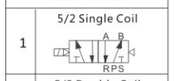
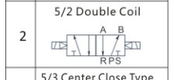
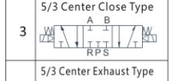
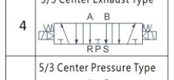
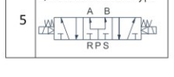
Process control of air cylinder for different usage



Ordering code

XY	5	1	20	—	01	A	V	0

Series No.	
3	XY3000
5	XY5000
7	XY7000

Function		
1	5/2 Single Coil	
2	5/2 Double Coil	
3	5/3 Center Close Type	
4	5/3 Center Exhaust Type	
5	5/3 Center Pressure Type	

Connection	
20	Thread
40	Namur

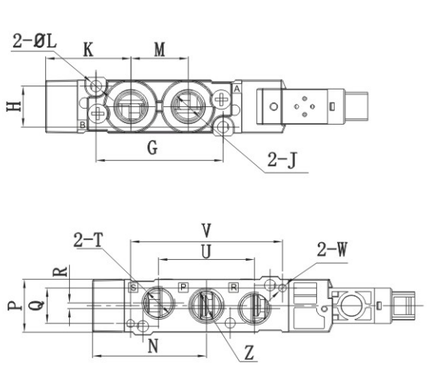
Connection Port		
00	M5	XY3000
01	G1/8"	XY5000
02	PT1/8"	XY5000
03	N PT1/8"	XY5000
04	G1/4"	XY7000
05	PT1/4"	XY7000
06	N PT1/4"	XY7000

Voltage	
A	DC24V
B	DC12V
C	AC110V
D	AC220V

Length of Leading Wire	
0	300mm
1	Specify Length

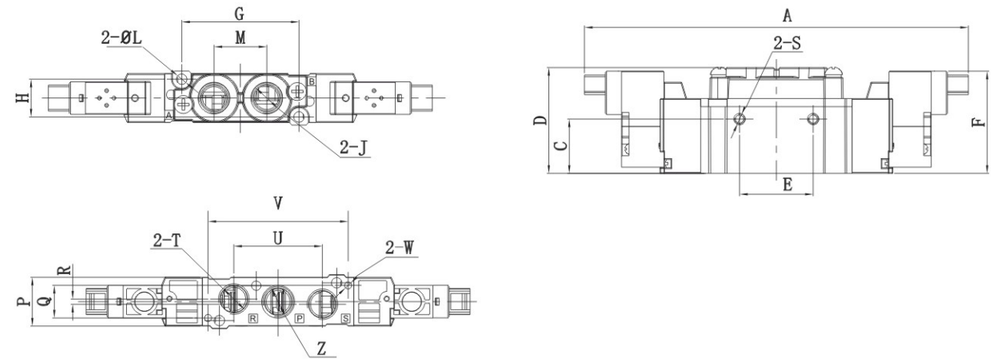
Connection Mode	
V	Vertical
P	Parallel

Dimension



Model / Type	A	B	C	D	E	F	G	H	M	K	N	P	Q	R	U	V	J	L	S	T	W	Z
XY3120	71.9	17.8	4	22.1	9.5	31.1	21.4	8.6	10.2	17.4	22.5	10	6	2	19	24.9	M5	Φ2.2	M3	M5	Φ1.5	M5
XY5120	91.2	21	16.7	32.5	22.6	31.4	36	11.6	16.2	24.2	32.3	15	10	1.6	27.2	43	G1/8	Φ3.2	M3	G1/8	Φ2.2	G1/8
XY7120	105	29.5	7	40	20	34.8	42	13.6	19	29.9	39.4	18	12.2	2	36	51.2	G1/4	Φ4.3	M4	G1/8	Φ2.2	G1/4

Dimension



Model / Type	A	C	D	E	F	G	H	M	P	Q	R	U	V	J	L	S	T	W	Z
XY3220	98.8	4	22.1	9.5	31.1	21.4	8.6	10.2	10	6	2	19	24.9	M5	Φ2.2	M3	M5	Φ1.5	M5
XY5220	118	16.7	32.5	22.6	31.4	36	11.6	16.2	15	10	1.6	27.2	43	G1/8	Φ3.2	M3	G1/8	Φ2.2	G1/8
XY7220	131	7	40	20	34.8	41.9	13.5	19	18	12.2	2	36	51.2	G1/4	Φ4.3	M4	G1/8	Φ2.2	G1/4

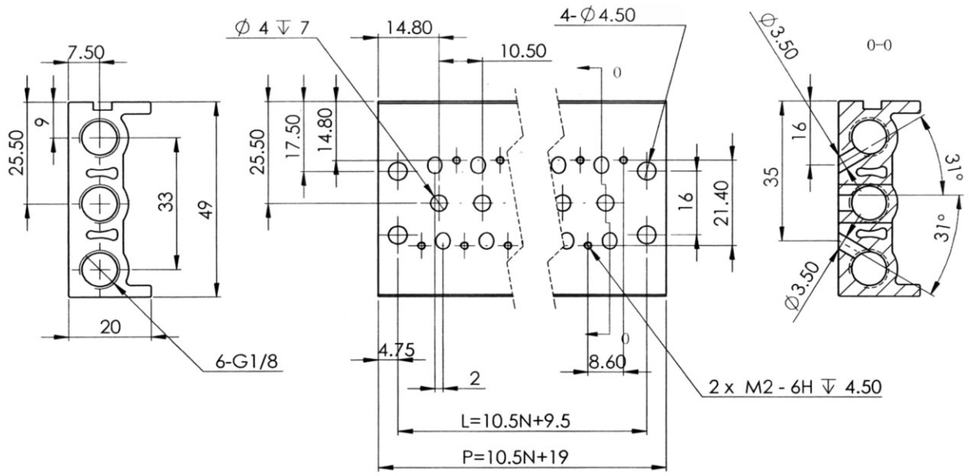
Specification

Item No.	Function	CV Value	Connection Port	Pressure Range	Working Media	Working Type	Maximum Operating Frequency	Media Temp.
XY3120-00	5/2 Single Coil	0.18	Thread M5	0.15-0.7MPa	Compressed Air	Pilot Type	10Hz	-10～50℃
XY3140-00			Namur					
XY3220-00	5/2 Double Coil		Thread M5					
XY3240-00			Namur					
XY3320-00	5/3 Center Close Type	0.13	Thread M5	0.2-0.7MPa			3Hz	
XY3420-00	5/3 Center Exhaust Type							
XY3520-00	5/3 Center Pressure Type							
XY5120-01	5/2 Single Coil	0.61	Thread G1/8"	0.15-0.7MPa			5Hz	
XY5140-01			Namur					
XY5220-01	5/2 Double Coil		Thread G1/8"					
XY5240-01			Namur					
XY5320-01	5/3 Center Close Type	0.46	Thread G1/8"	0.2-0.7MPa			3Hz	
XY5420-01	5/3 Center Exhaust Type	0.59						
XY5520-01	5/3 Center Pressure Type	0.46						
XY7120-04	5/2 single coil	0.81	Thread G1/4"	0.15-0.7MPa			5Hz	
XY7220-04	5/2 double coil							
XY7320-04	5/3 center close type	0.63		0.2-0.7MPa			3Hz	
XY7420-04	5/3 center exhaust type	0.82						
XY7520-04	5/3 center pressure type	0.58						

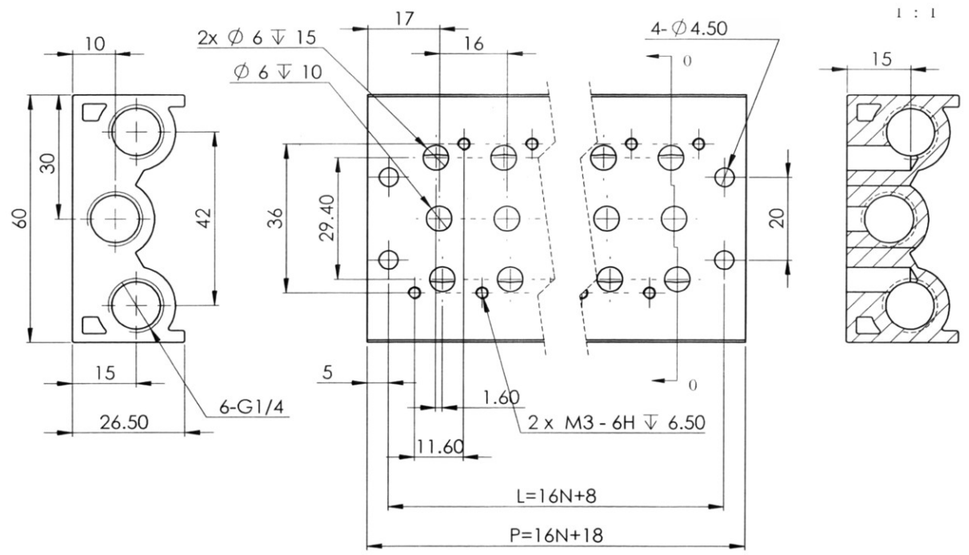
Speciality

1、One way air input ,Multi-way air output
2、Compact structure, easy installation ,Less Space
3、According to user ,Quantity of valves can be choosed from 2-10 pcs ,If need more valves assembly ,can be customized

XY3000 Series Manifold



XY5000 Series Manifold



PREMIER QUALITY
GLOBAL REPUTATION

Miniature lightweight,
Easy to install

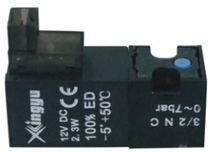
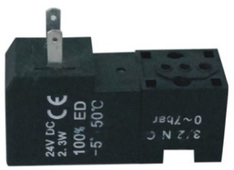
No oil supply design,
good durability

Inside coil with indicator
and protective device

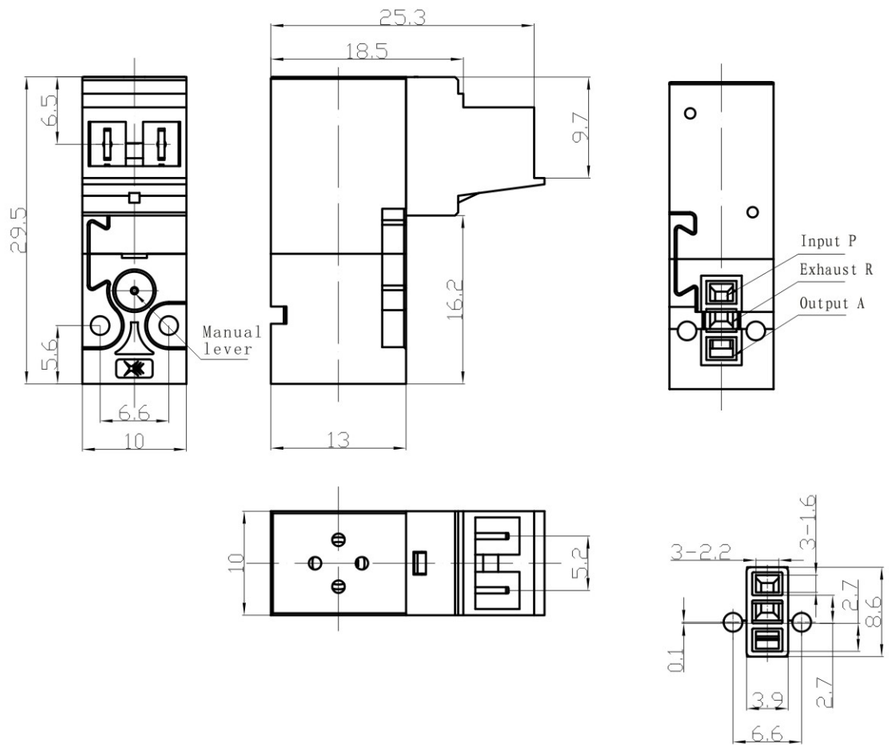
Can be single or manifold Integrated control ,one way input ,multi-way output

Widely used in large orifice pilot valve and control mini single acting cylinder

Suitable for PC direct output control, lower power consumption

XY-10A	XY-15
XY-15B	**XY-15C**
	

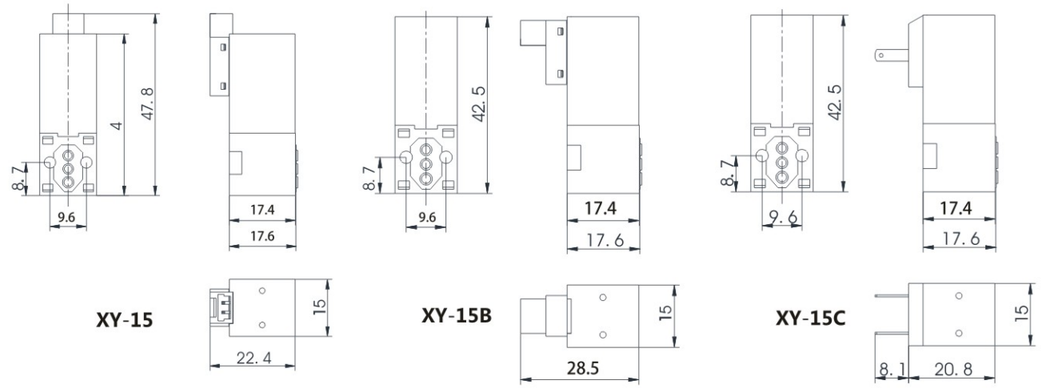
Dimension XY-10A

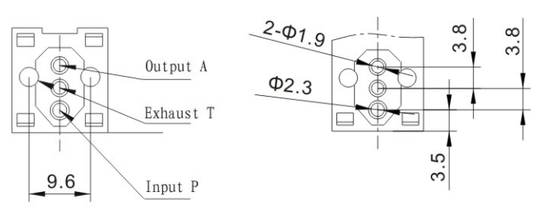


Specification

Model	XY-10A
Medium	Compressed Air
Working type and Pattern	Direct action 3/2, Normal close
Orifice	0.7mm
Connection Ports	M3-M5 manifold /M3-M5
Working pressure	1.5-7Mpa
Rated voltage	DC24V ±10%
Power	1W
Pretction class	IP65
Working temperature	-5℃~50℃
Material of body	PA66
Seal material	NBR
Response time	<10ms
Working life	>50milion cycles

Dimension XY-15 / XY-15B / XY-15C

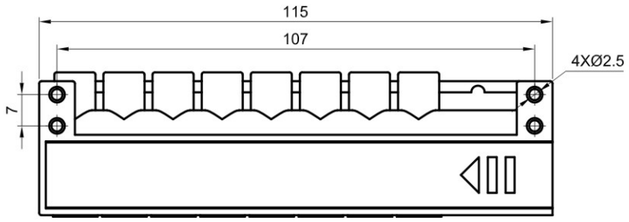


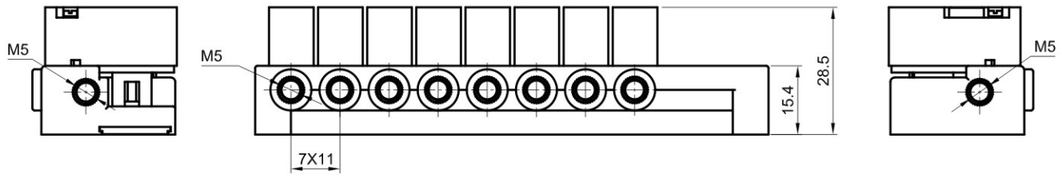


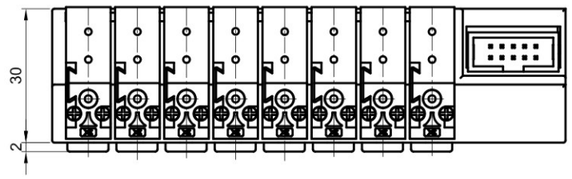
Specification

Model	XY-15 / XY-15B / XY-15C	XY-15CK
Medium	Compressed Air	
Working type and Pattern	Direct action 3/2, Normal close,	Normal open
Orifice	1.4mm	
Connection Ports	M3-M5 manifold /M3-M5	
Working pressure	1.5-7Mpa	
Rated voltage	DC24V ±10%	
Power	2.3W	
Pretction class	IP65	
Working temperature	-5℃~50℃	
Material of body	PA66	
Seal material	NBR	
Response time	<10ms	
Working life	>50milion cycles	

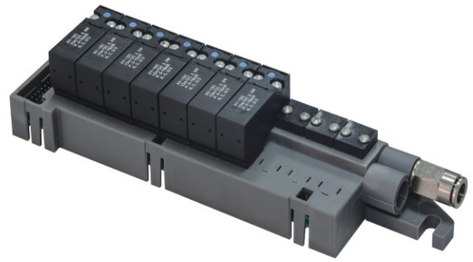
XY-10-8T

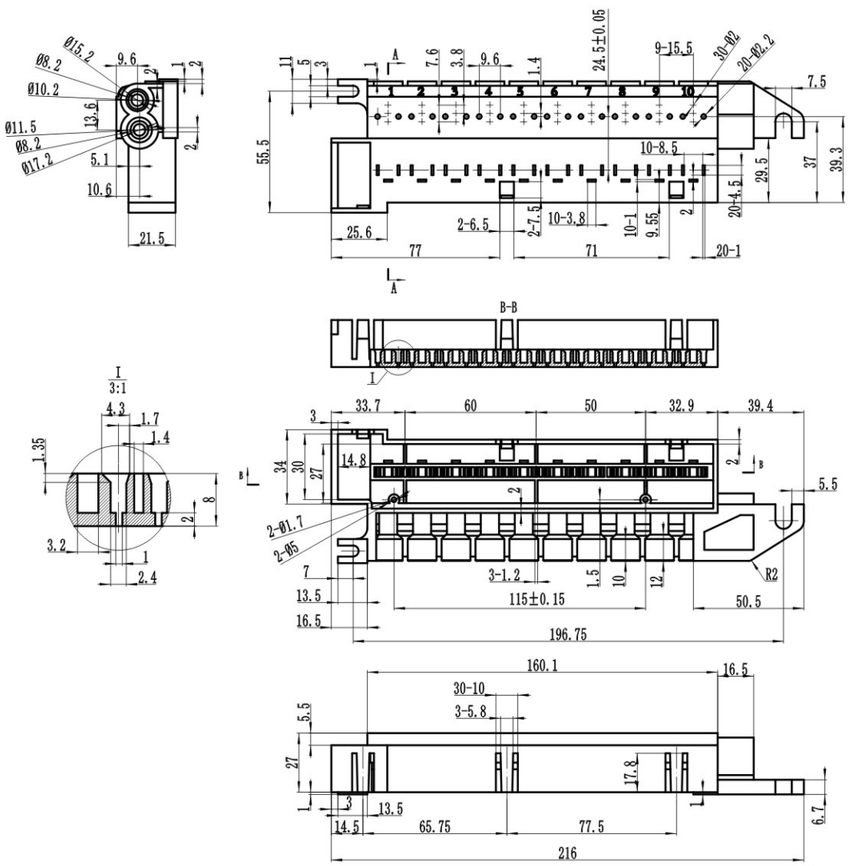




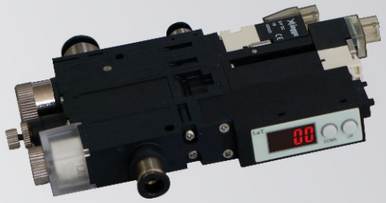


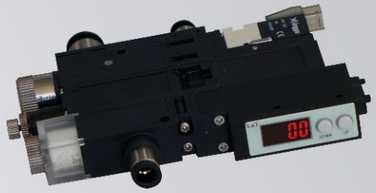
XY-15C-7T





Characteristic

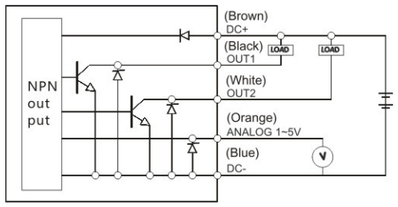


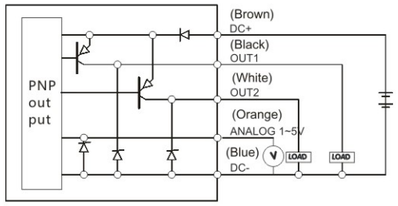


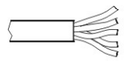
- Max 12 optional types
- Can be Manifold mounting
- Working pressure range : 0.25 - 0.7 Mpa
- Strong Vacuum Preservation Ability
- Equipped with vacuum pressure switch to realize automatic control
- Various Vacuum Nozzle Orifice ,Can be used in all kinds of occasions
- Two kinds of vacuum destroying function, short destroying time
- Vacuum Destroying flow rate : 0 ~ 40 L/min

Connection Mode

Pressure Switch Connection Mode







Brown : Power +

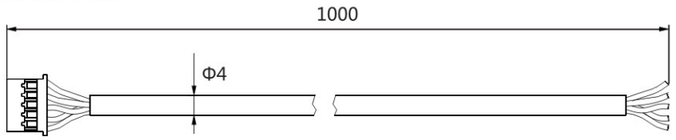
Black : Switch Output 1

White : Switch Output 2

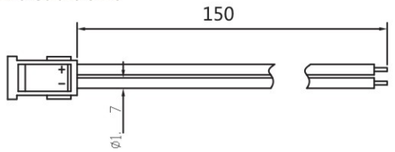
Orange : 1-5 V output

Blue : 0V

Pressure Switch Cable Size



Solenoid Valve Cable Size

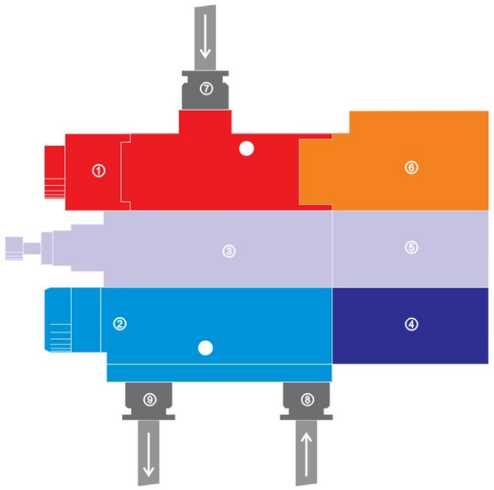


RED : power +

Black : power –

VACUUM GENERATOR

Product characteristics



① Vacuum filter assembly

② Vacuum Generator assembly

③ Destroy valve

④ Vacuum Generation Control Valve

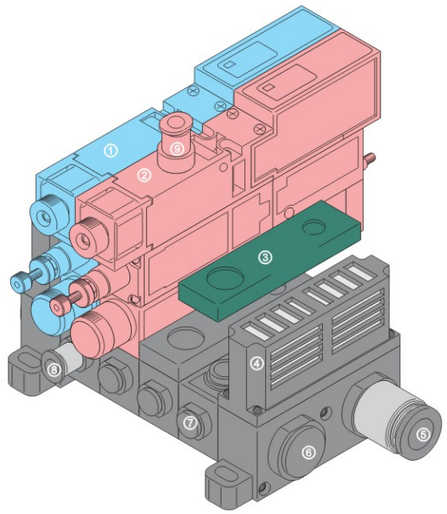
⑤ Vacuum Destroy Control Valve

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

XYZKF — CT

CT Series Vacuum Generator

A	GZ	05	W	—	06	06	08	E	—	08	—	NV
①	②	③	④		⑤	⑥	⑦	⑧		⑨		⑩

① Product form

Code	Code Description
A	Monolithic type two side port (Ex & In - same side)
B	Monolithic type one side port
C	Manifold

② Vacuum characteristic

Code	Code Description
GZ	High Vacuum ,Medium flow rate (0.5MPA)
ZD	Middle Vacuum ,High flow rate (0.5MPa) *
GX	High vacuum , Low flow rate (0.35MPa) *

③ Nozzle Diameter (Combination type : A、E、G、P、R、S、W)

Code	Code Description	GZ type Vacuum Degree & Inhalation Flow Rate	ZD type Vacuum Degree & Inhalation Flow Rate	GX type Vacuum Degree & Inhalation Flow Rate	Consumption
05	0.5mm*	-91KPa 7 L/min	-67KPa 11L/min	-	12L/min
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 Vacuum Degree & Inhalation Flow Rate	ZD type Vacuum Degree & Inhalation Flow Rate	GX type Vacuum Degree & Inhalation Flow Rate	Consumption
05	0.5mm*	-86.5KPa 5.4L/min	-66.5KPa 10L/min	-	12L/min
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	S	W
Vacuum Generator	●	●	●	●	●	●	●	●	●	●	●	●
Filter	●	●	●	●	●	●	●	●	●	●	●	●
Vacuum Generated Solenoid Valve	—	—	—	—	●	●	●	●	●	●	●	●
Check valve	—	●	—	●	—	●	—	●	—	—	—	—
Digital Pressure Switch	—	—	●	●	—	—	●	●	—	●	—	●
Air Timing Destroy Valve	—	—	—	—	—	—	—	—	●	●	—	—
Solenoid Destroy Valve	—	—	—	—	—	—	—	—	—	—	●	●

⑤ Vacuum Port Diameter (Monolithic type)

Code	Code Description
04	ϕ4 Quick connector (mm)
06	ϕ6 Quick connector (mm)
08	ϕ8 Quick connector (mm)

⑤ Vacuum Port Diameter (Manifold type)

Code	Code Description	Code	Code Description
S4	Side ϕ4 Quick connector (mm)	T4	Top ϕ4 Quick connector (mm)
S6	Side ϕ6 Quick connector (mm)	T6	Top ϕ6 Quick connector (mm)
S8	Side ϕ8 Quick connector (mm)	T8	Top ϕ8 Quick connector (mm)

Ordering Code

⑥ Input Port Diameter (Monolithic type)

Code	Code Description
04	ϕ4 Quick connector (mm)
06	ϕ6 Quick connector (mm)
08	ϕ8 Quick connector (mm)

⑥ Input Port Diameter (Manifold type)

Connection Port Position		Straight pipe				Elbow pipe		
Code	Right Side	16	18	10	12	48	40	42
	Both Side	26	28	20	22	58	50	52
	Left Side	36	38	30	32	68	60	62
Size (mm)		ϕ6*	ϕ8	ϕ10*	ϕ12	ϕ8*	ϕ10*	ϕ12*

⑦ Exhaust Port Diameter (Monolithic type)

Code	Code Description
S	Silencer
08	ϕ8 Quick connector (mm)
L8	ϕ8 Quick connector (mm) 90*

⑦ Exhaust Port Diameter (Manifold type)

Connection Port Position		Straight row	Straight pipe assembly				Elbow assembly			Internal thread		
Code	Right Side	S1	18	10	12	13	48	40	42	72	73	74
	Both Side	S2	28	20	22	23	58	50	52	82	83	84
	Left Side	S3	38	30	32	33	68	60	62	92	93	94
Size (mm)			ϕ8	ϕ10*	ϕ12*	ϕ16*	ϕ8*	ϕ10*	ϕ12*	R1/4*	R3/8*	R1/2*

⑧ Solenoid valve type (Only choose if you select Solenoid valve)

Code	Code Description
E	DC24V NC Vavuum Generator Solenoid valve (Solenoid destroy valve Default normal close)

⑨ Manifold combination No. (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 +1~5 V Output

For example :

XYZKF-CT AGZ07A-060608
① ② ③④ ⑤ ⑥ ⑦

①: Monolithic type two 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: Output Port Diameter ϕ 8

XYZKF-CT BGZ07W-040608E-NW
① ② ③④ ⑤ ⑥ ⑦⑧ ⑩

①: Monolithic type One side port
②: High Vacuum ,Medium flow rate
③: 0.7mm Nozzle diameter
④: W Combination
⑤: Vacuum Port Diameter ϕ 6
⑥: Input Port Diameter ϕ 6
⑦: Output Port Diameter ϕ 8
⑧: 24V NC Solenoid valve
⑨: Pressure switch 2lines 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、GXSeries ; 0.35MPa
Working Temp.	5~50℃
Lubrication	No Need

Vacuum characteristic

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

Solenoid valve Specification

	Vacuum Generated Solenoid Valve	Vacuum Destroy Solenoid Valve
Voltage	DC24V	
Voltage range	DC21.6~26.4V DC24V10%	
Power	0.7W	
Working mode	Indicate Valve Action	
Manual operation	Press-type manual lever	
Operational indication	Red LED	
Max Pressure	1.05MPa	
Valve Mode	N.C.	

Vacuum Filter Specification

Filter material	PVF
Filtration degree	10um
Filter area	1130mm ^{2}
	CT- PVF

Air Timing Damage Valve

Type	Mechanical timing module
Damage Time	After vacuum generated soleniod valve cloed ,About 0.3 ~ 3s
Breaking flow	0~40L/min (Air Supply 0.5Mpa)
Time Setting Mode	External knob setting

Product Specification

Vacuum protection function
Combination : B ,F ,H , M ,S ,W

Vacuum leakage	Max 1.3KPa/10min

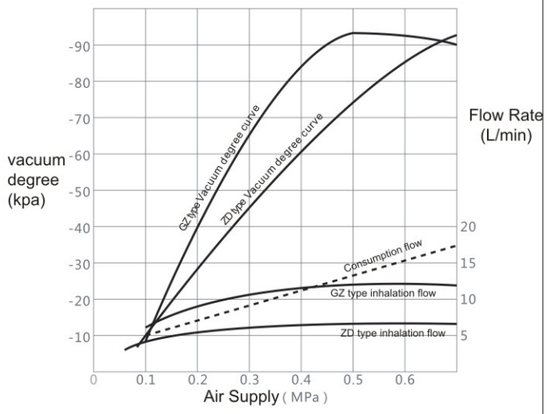
Remark : If need keep vacuum long time ,Pls consider above specification

Digital Pressure Switch (DPS-CT)

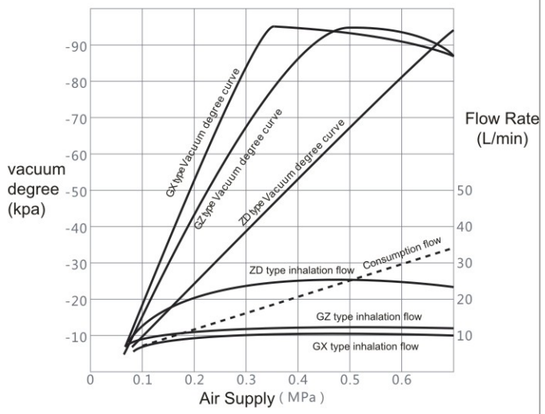
Specification	Range of Measurement	-99~+99kPa
	Setting Range	-99~+0kPa
	Pressure-resistance	1.6MPa
	Pressure Types	Non-flammable,non-corrosive gas,gauge pressure measurement
	Pressure Measurement	MEMS Silicon pressure sensor , NBR/Silicon Seal
	Measurement Accuracy	< 2%F.S (Ambient temperature : 25℃)
	Temperature Error	< 3%F.S (Ambient temperature :0~50℃)
	Measurement Pattern	Hysteresis mode
		Compare mode
	Pressure Display	Red LED Display
	Pressure Unit	Kpa (Optional display multiple 1 , 0.75 , 0.01 , 0.145)
Power	Voltage	DC12 ~ 24 V ±10%
	Current	< 30mA
Switch Signal	Switch Output	2 Lines Switch Output
	Output Mode	NPN/PNP optional (Corresponding to Low or High Efficiency Signal Receiving)
	Output Current	80mA max
	Voltage drop	1V Max
	Action Time	2.5m s、25m s 、250m s
Analog signal	Signal Level	1~5V
	Load capacity	Load resistance > 1 KΩ
	Output accuracy	3%F.S.
	Action Time	60m s
Environmental resistance	IP grade	IP40
	Working temp.	Load resistance ＞1KΩ
	Storage temp.	3% F.S.
	Enviroment temp.	60ms
	Insulation voltage	1000VAC
	Insulation resistance	≥50mΩ (500VDC)
	Impact resistance	Max 100m/s,3 axis 6 direction each 3 times
	Vibration resistance	Vibration amplitude 1.5mm,10HZ≈500HZ,3 axis each 2 hours

Characteristics

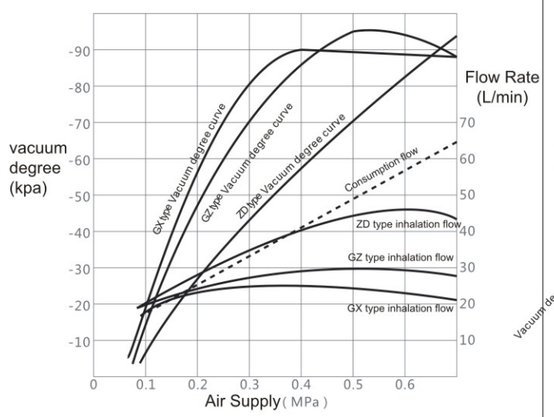
Vacuum characteristic curve
0.5mm Nozzle Diameter



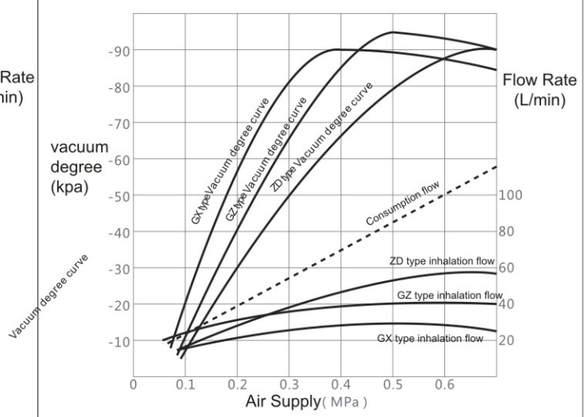
Vacuum characteristic curve
0.7mm Nozzle Diameter



Vacuum characteristic curve
1.0mm Nozzle Diameter



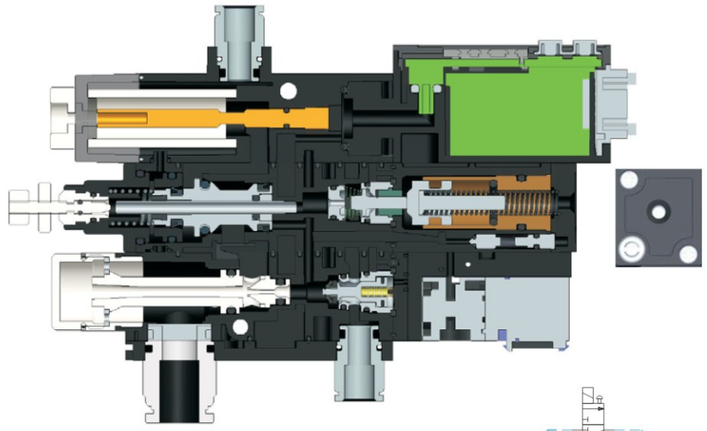
Vacuum characteristic curve
1.2mm Nozzle Diameter

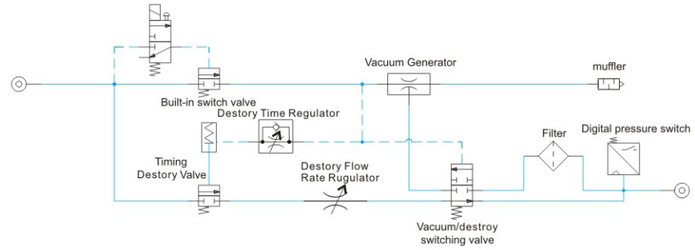


1. Air supply of Above diagrams is Rated Pressure of Vacuum Generator
2. Before the Maximum Vacuum Degree of Vacuum Generator ,There is a special pressure point. will cause Unstable phenomena like Beep noise ,Pressure must be adjusted to jump out of this range
3. When select Pipeline and component ,Pipe diameter should be greater than nozzle diameter 3 times , if air supply or exhaust is insufficient , It can't meet the vacuum characteristic.Will casue Unstable phenomena like Beep noise

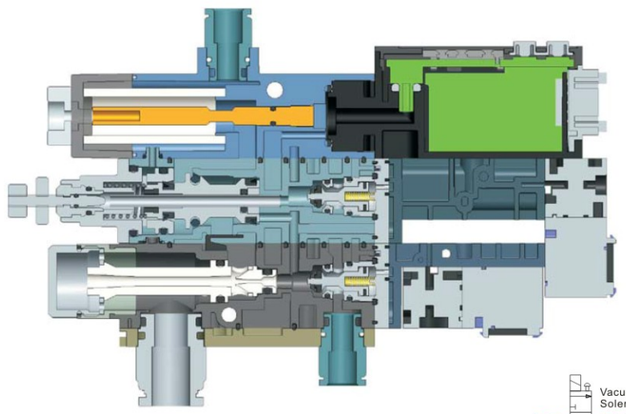
Profile and Pneumatic Diagram

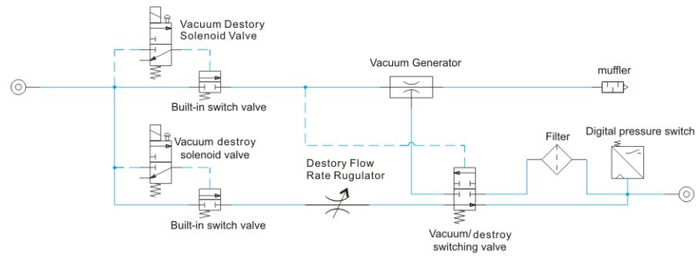
Air TIMING destroy valve S series



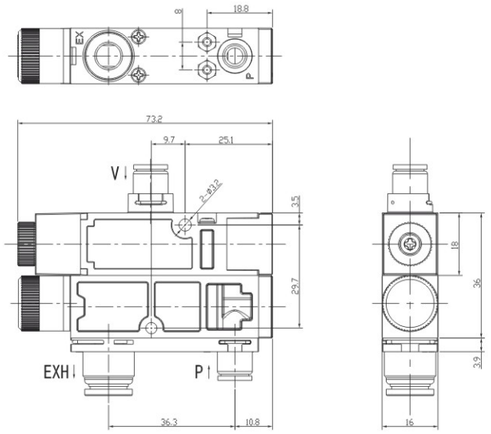


Solenoid destroy valve W series

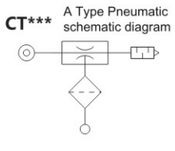




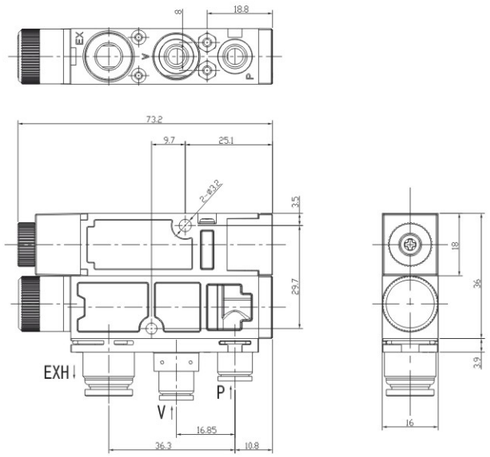
CTA**A/B Type



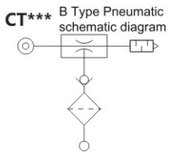
CT*** A Type Pneumatic schematic diagram



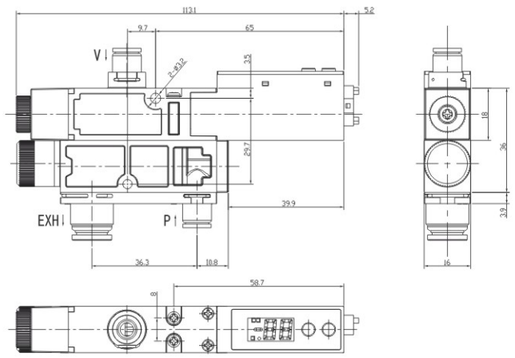
CTB**A/B Type



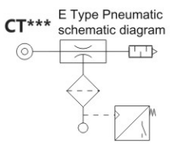
CT*** B Type Pneumatic schematic diagram



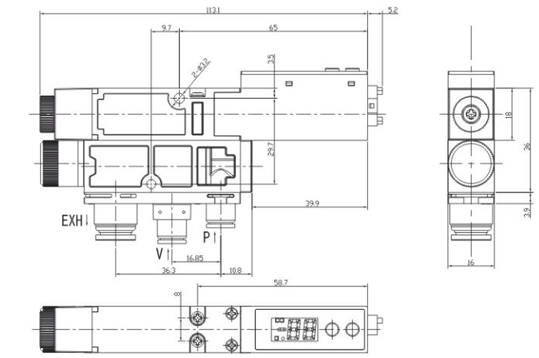
CTA**E/F Type



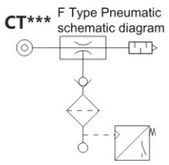
CT*** E Type Pneumatic schematic diagram



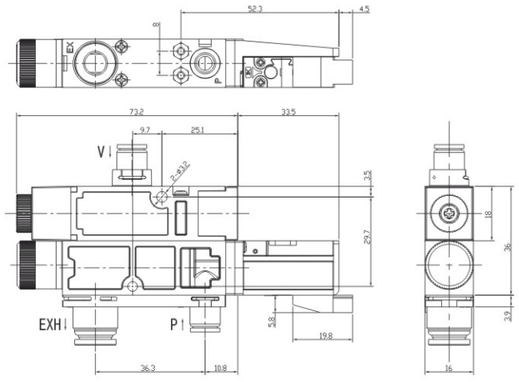
CTB** E/F Type



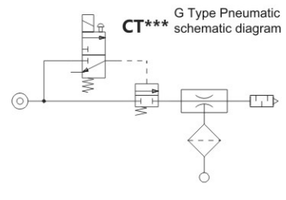
CT*** F Type Pneumatic schematic diagram



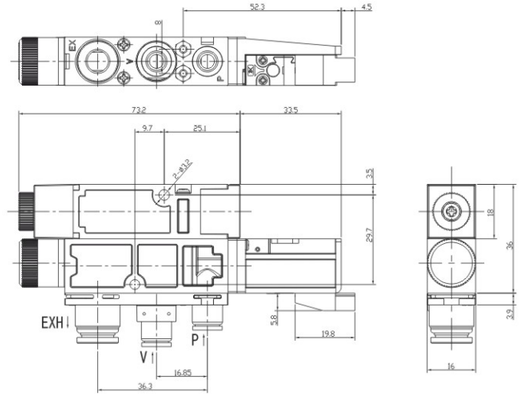
CTA**G/H Type



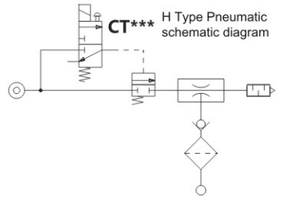
CT*** G Type Pneumatic schematic diagram



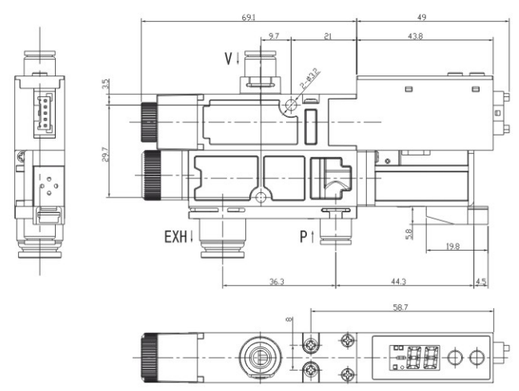
CTB** G/H Type



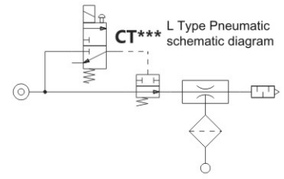
CT*** H Type Pneumatic schematic diagram



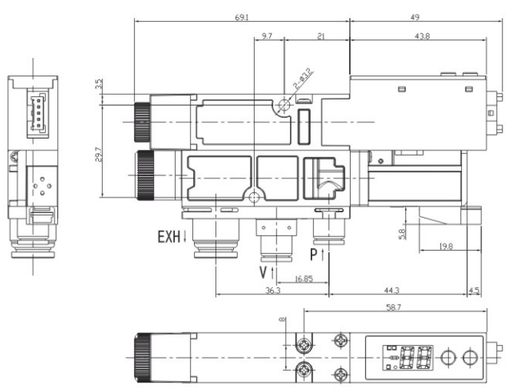
CTA**L/M Type



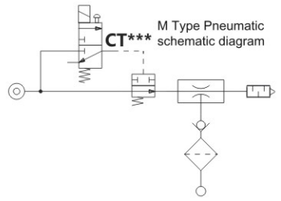
CT*** L Type Pneumatic schematic diagram



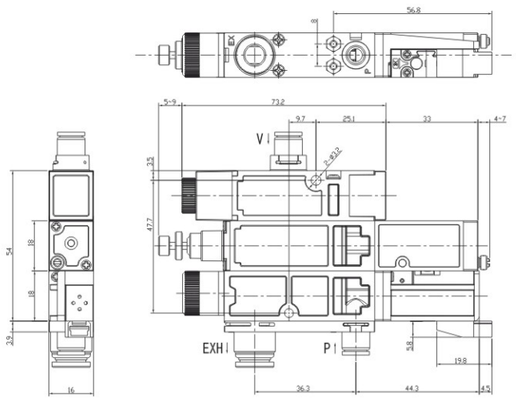
CTB** L/M Type



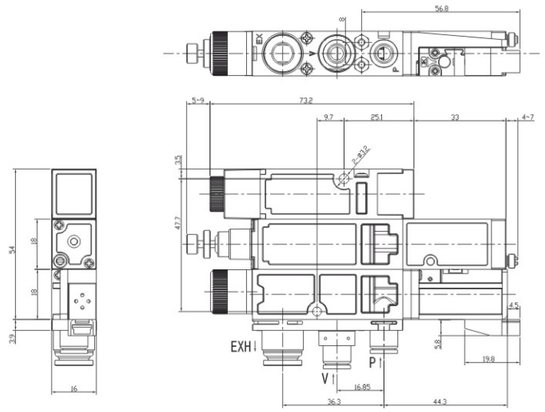
CT*** M Type Pneumatic schematic diagram

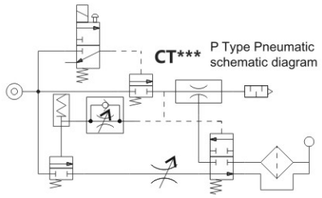


CTA**P Type

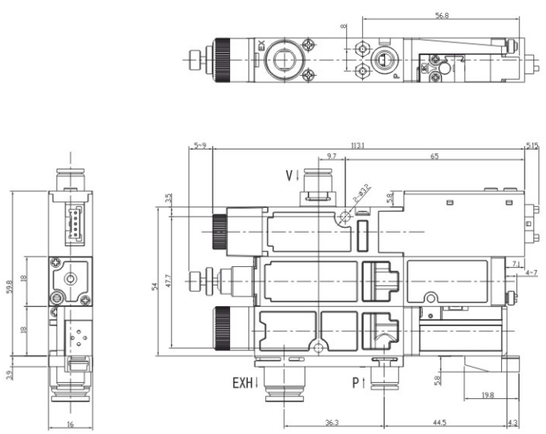


CTB** P Type

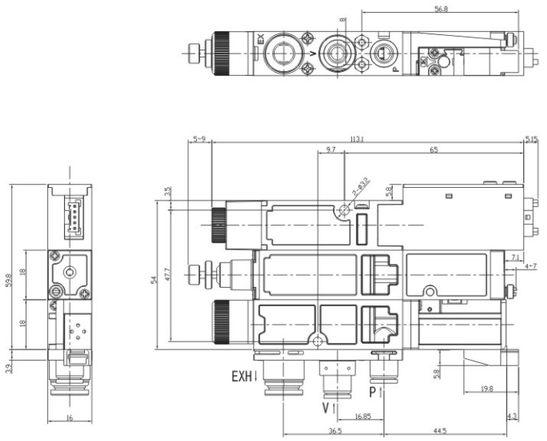


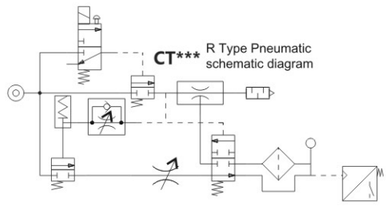


CTA**R Type

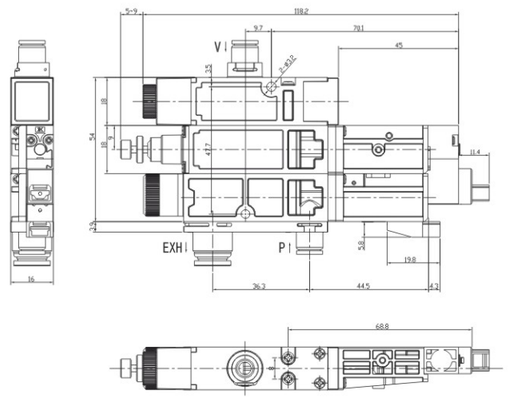


CTB** R Type

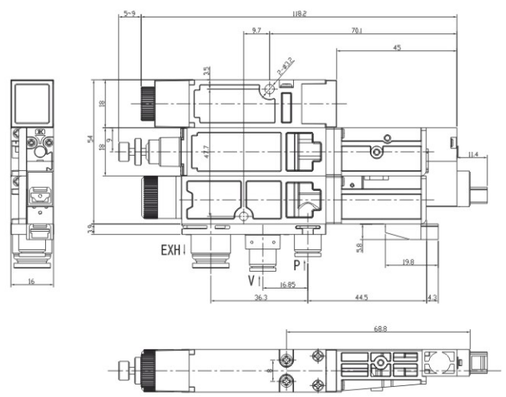


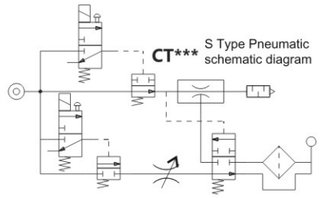


CTA**S Type

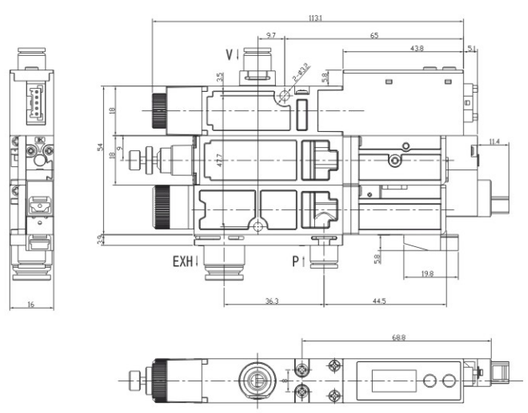


CTB** S Type

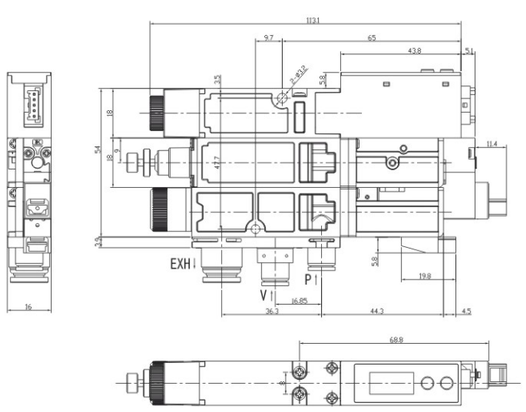


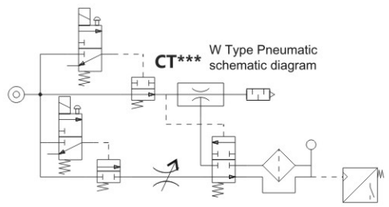


CTA**W Type



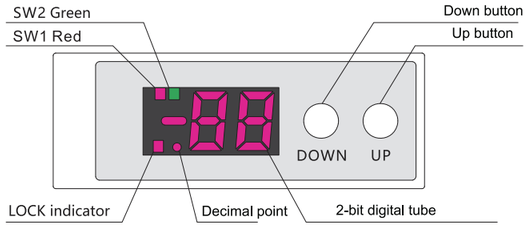
CTB** W Type





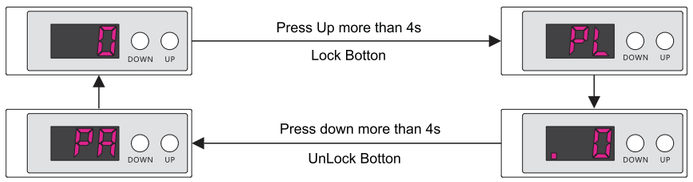
Structure size and Pneumatic schematic diagram

Use method of pressure switch

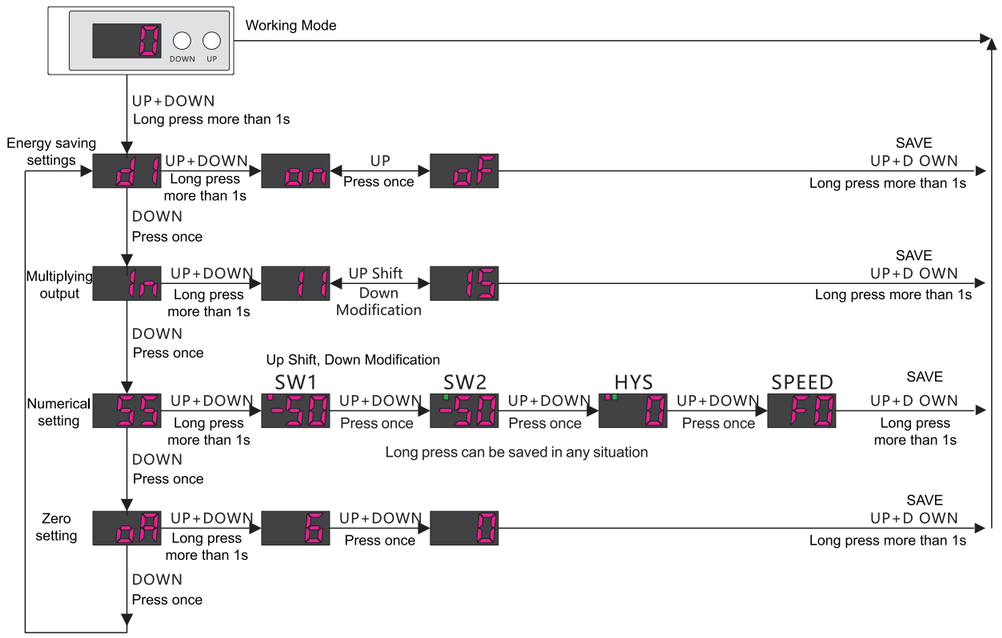


Software setup

① : Botton Lock and Unlock



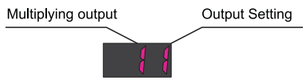
② : Function settings



③ : Function description

is energy saving settings ,two options : ON ,OFF , On means Continuously light up the display screen ,Off mean more than 10 seconds no operation in working mode, close numerical display

is Output/multiplier mode settings ,there is many options ,right side is output setting left side is multiplier setting ,details follow below form



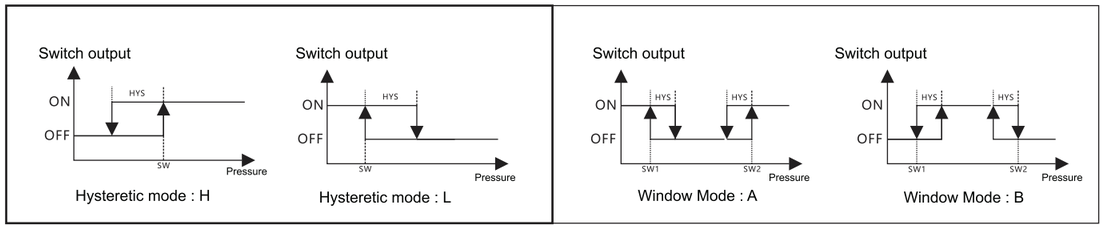
Structure size and Pneumatic schematic diagram

Multiplier mode setting

Display character	Times	Display Range	Unit
1	X1	-99~99	kPa
3	X0.75	-75~75	0.1mmHg
4	X0.01	-.99~.99	bar
5	X0.145	-14~14	psi

Output mode setting

Output	SW1 Black wire 1# switch				SW1 White wire 1# switch			
Mode	Return difference mode		Window mode		Return difference mode		Window mode	
Status	H	L	A	B	H	L	A	B
1	■				■			
2	■					■		
3		■			■			
4		■				■		
5			■				■	
6			■					■
7				■			■	
8				■				■



is Numerical setting ,Set up separately for : SW1 (Out 1 indicator) ,SW2 (out 2 indicator) ,HYS (out1+out2 indicator) Speed (Without Indicator) ,Speed : F0 (2ms) ,F1 (25ms) ,F2 (250ms)

Is Zero Setting ,some customers adjust their machines can use zero setting function ,After entering the interface, the device displays the current difference value. Press one UP + DOWN ,Numbers can be zeroed ,And Long pressure more than 1S to save

PS : Except Numerical setting ,rest settings if no operation within 5s ,will quit setting system ,back to working mode And the currently set data is not stored