

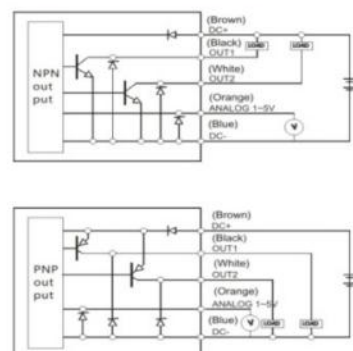


Vacuum Generator

- 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

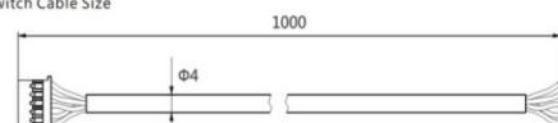
CONNECTION MODE

Pressure Switch Connection Mode

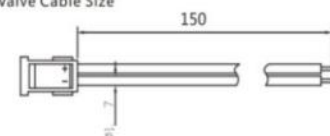


- Brown : Power +
- Black : Switch Output 1
- White : Switch Output 2
- Orange : 1-5 V output
- Blue : 0V

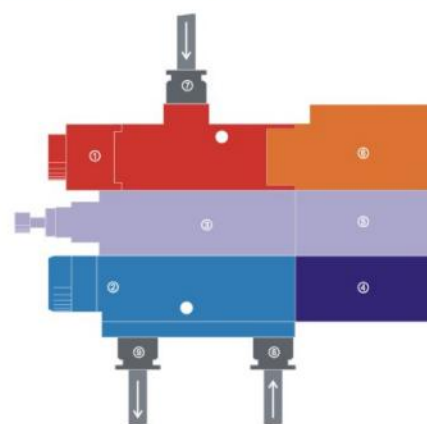
Pressure Switch Cable Size



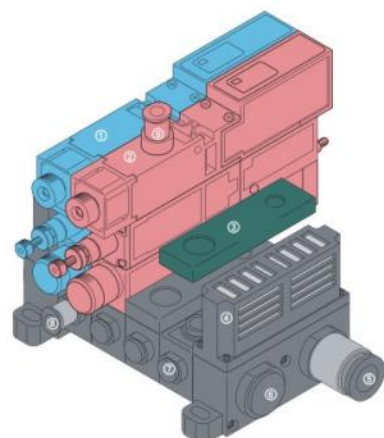
Solenoid Valve Cable Size



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 $\frac{XYZKF-CT}{CT\ series\ Vacuum\ Generator}$ A GZ 07 W — 06 06 08 E — NV

1
2
3
4
5
6
7
8
9

① Product Form		② Vacuum Characteristic												
Code	Code description	Code	Code description											
A	Monolithic type two side port (Ex&P:same side)	GZ	High vaccum Medium flow rate (0.5MPa)											
B	Monolithic type one side	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)			⑦ Exhaust port diameter(monolithic type)											
code	Code description		code	Code Description										
04	φ 4 Quick connector (mm)		S	Silencer										
06	φ 6 Quick connector (mm)		08	φ 8 Quick connector (mm)										
08	φ 8 Quick connector (mm)													
⑧ Solenoid valve type(only choose if you select solenoid)			⑨ Pressure switch output(only choose if you select pressure switch)											
code	Code description		Code	Code description										
E	DC24 NC Vacuum generator solenoid valve (solenoid destroy valve default normal close)		NV	2 lines NPN+ 1~ 5V output										
			PV	2 lines PNP+ 1~ 5V output										

ORDERING CODE

Manifold XYZKF-CT C GZ 07 W — S4 18 18 E — 08 — NV
CT series Vacuum Generator
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Product Form		② Vacuum Characteristic	
Code	Code Description	Code	Code description
C	Mainfold	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, L, P, R, S, W, X, Y)					
code	code description	GZ type vacuum degree	ZD type vacuum degree	GX type vacuum 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 vacuum degree	ZD type vacuum degree	GX type vacuum 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 $\frac{A}{①}$ $\frac{GZ}{②}$ $\frac{07}{③}$ $\frac{A}{④}$ — $\frac{06}{⑤}$ $\frac{06}{⑥}$ $\frac{08}{⑦}$

- 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 φ6
- ⑥ : Input port diameter φ6
- ⑦ : Exhaust port diameter φ8

Manifold type XYZKF-CT $\frac{C}{①}$ $\frac{GZ}{②}$ $\frac{07}{③}$ $\frac{W}{④}$ — $\frac{S4}{⑤}$ $\frac{18}{⑥}$ $\frac{18}{⑦}$ $\frac{E}{⑧}$ — $\frac{05}{⑨}$ — $\frac{NV}{⑩}$

- ① : Multi-piece Manifold
- ② : High vacuum, middle flow rate(0.5MPa)
- ③ : 0.7mm nozzle diameter
- ④ : W combination
- ⑤ : Vacuum port diameter φ4
- ⑥ : Right side straight pipe input port diameter φ8
- ⑦ : Right side straight pipe Exhaust port diameter φ8
- 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°C
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
CT □ GZ10...	1.0	0.35	91	10.5	17
CT □ GZ10...		0.5	93		27
CT □ ZD10...		0.35	73	40	
CT □ GX10...	1.2	0.5	67	21	46
CT □ GZ12...		0.35	91		38
CT □ ZD12...		0.5	93	36	
CT □ GX12...	1.2	0.35	73	50	70
CT □ ZD12...		0.5	67		27

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	1130mm ²
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)

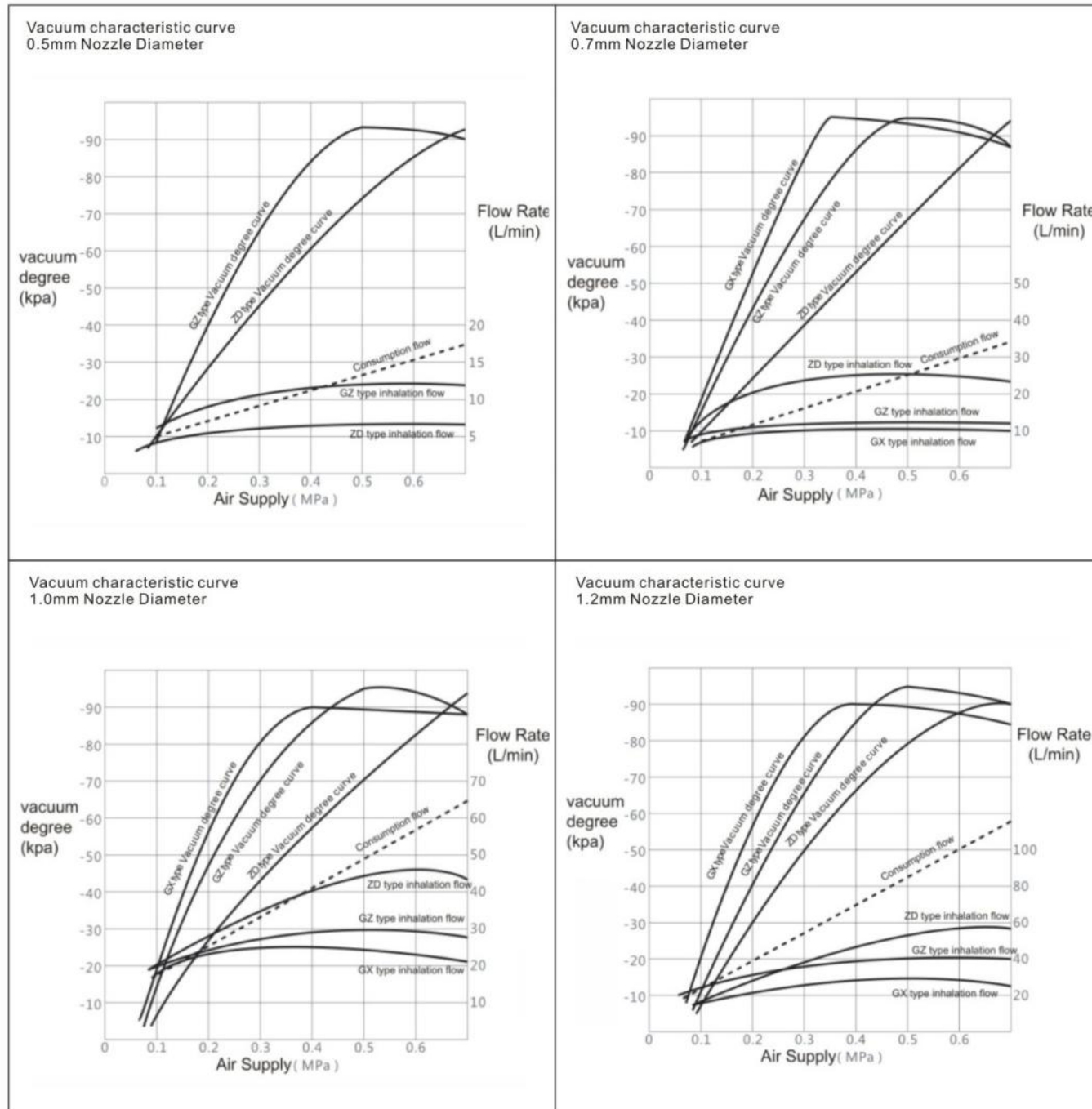
Vacuum Leak	Max 1.3KPa/10min
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Remark: if need to keep vacuum for a long time,pls consider above specification.

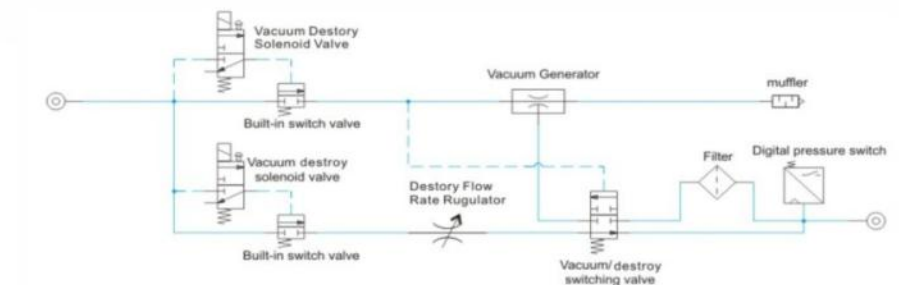
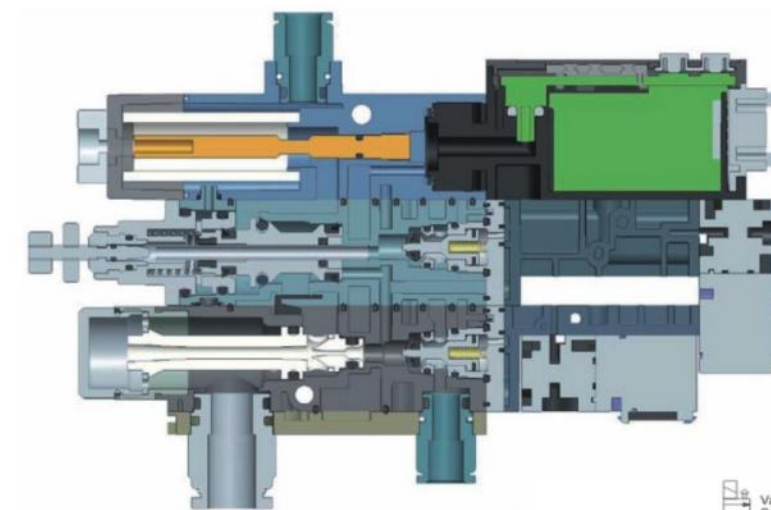
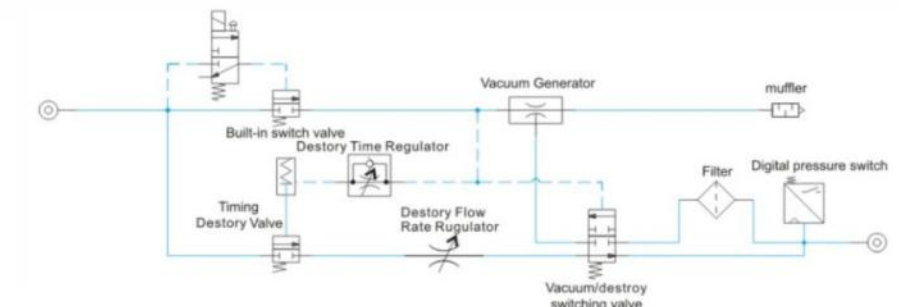
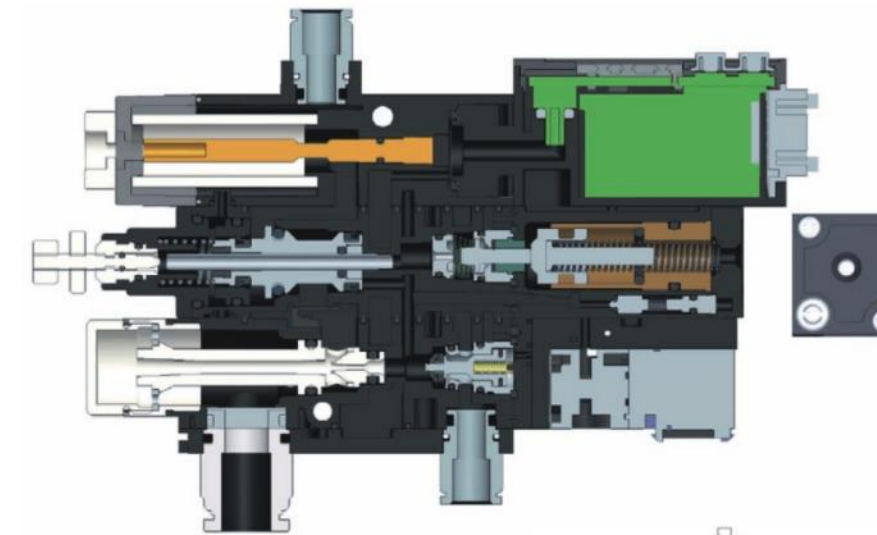
Digital pressure switch (DPS-CT)

Specification	Measuring range	-99~+99kPa
	Setting Range	-99~+0kPa
	Pressure-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°C)
	Temperature Error	< 3%F.S. (Ambient temperature0~50°C)
	Measurement Patten	Hysteresis mode
	Pressure Display	Compare mode
	Pressure Unit	RED LED DISPLAY
Power supply	Voltage	Kpa (option display multiple 1、 0.75、 0.01、 0.145)
	Current	DC12-24V10%
Switch signal output	Switch Output	< 30mA
	Output Model	2 lines switch output
	Output current	NPN/PNP optional (corresponding to low or high efficiency signal receiving)
	Voltage Drop	80mA MAX
	Response time	1V MAX
Analog signal	Signal Level	2.5ms 25ms 250ms
	Load Capacity	1-5V
	Output Accuracy	Load resistance >1KΩ
	Response time	3%F.S.
		60ms

FEATURES

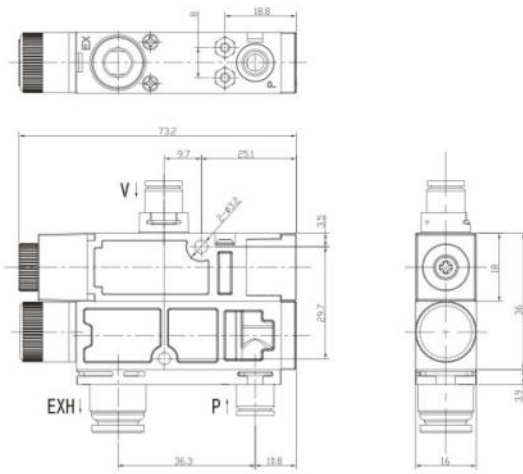


1. Air supply of above diagrams is rated pressure of vacuum Generator
2. Before the Maximum vacuum Degree of vacuum generator, there is a special pressure point will cause unstable phenomena like beep noise, pressure must be adjusted to jump out of this range
3. When select pipeline and component, pipe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

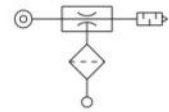


STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

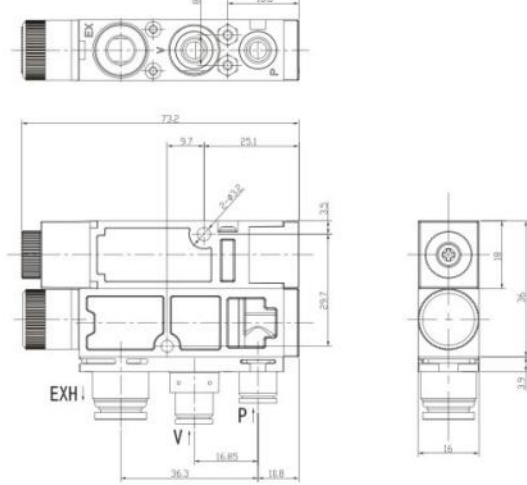
CTA**A/B type



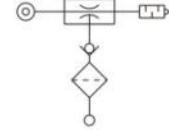
CT*** A type pneumatic schematic diagram



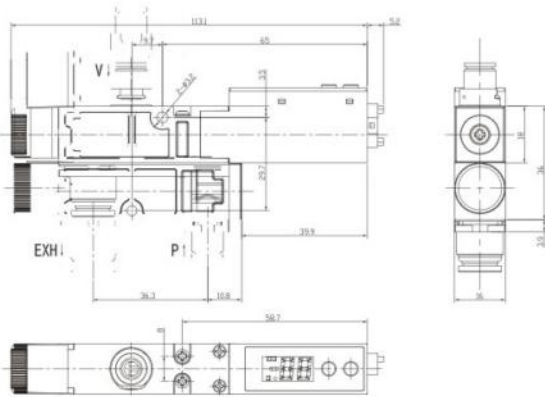
CTB**A/B type



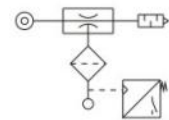
CT*** B type pneumatic schematic diagram



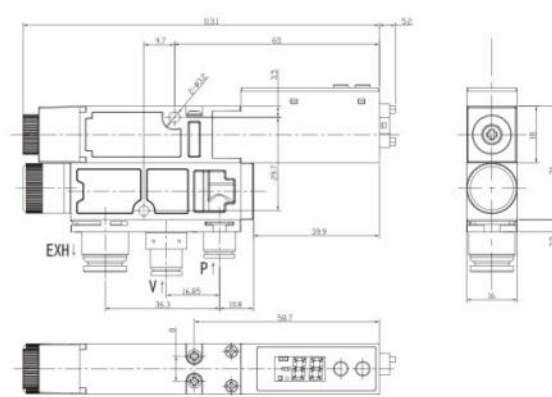
CTA**E/F type



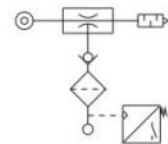
CT*** E type pneumatic schematic diagram



CTB**E/F type

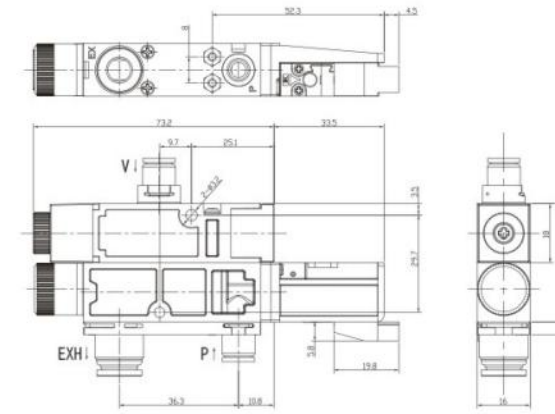


CT*** F type pneumatic schematic diagram

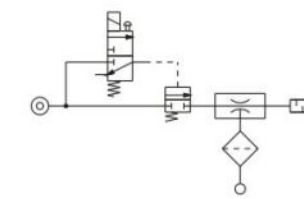


STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

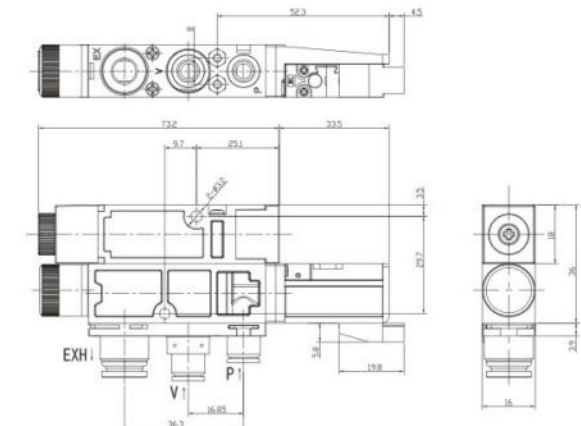
CTA**G/H type



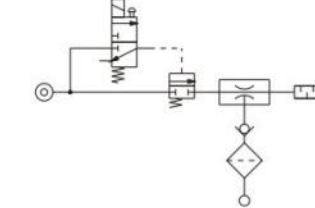
CT*** G type pneumatic schematic diagram



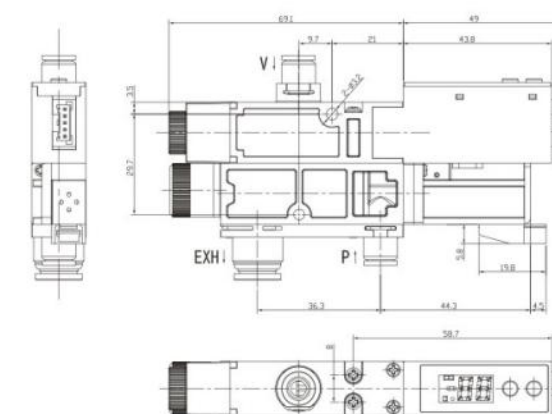
CTB**G/H type



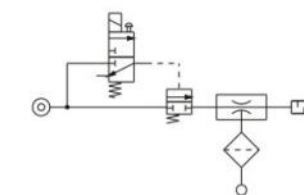
CT*** H type pneumatic schematic diagram



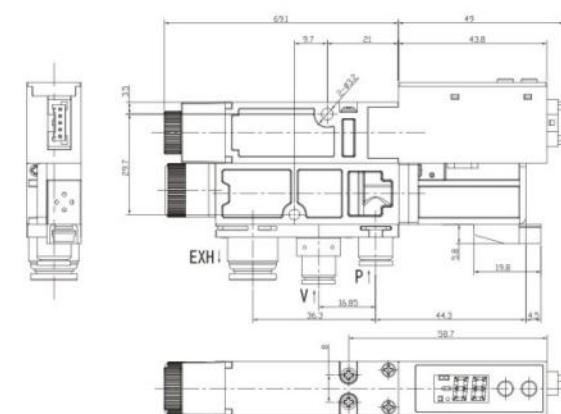
CTA**L/M type



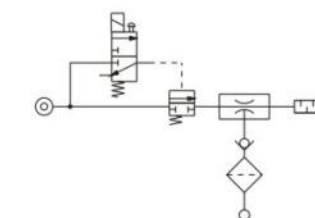
CT***L type pneumatic schematic diagram



CTB**L/M type



CT***M type pneumatic schematic diagram

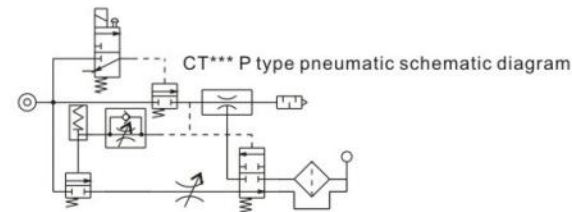
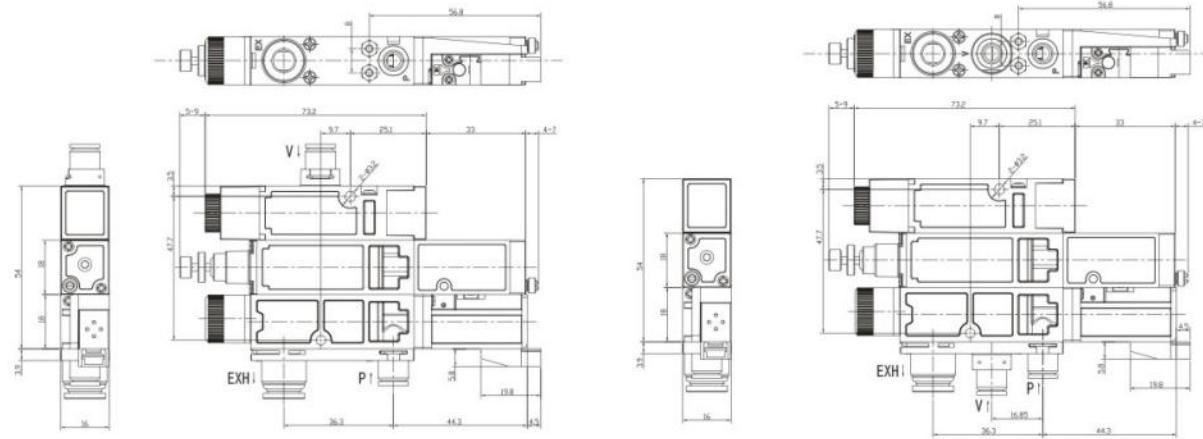


STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

STRUCTURE SIZE AND PNEUMATIC SCHEMATIC DIAGRAM

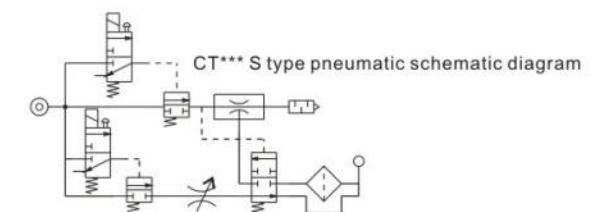
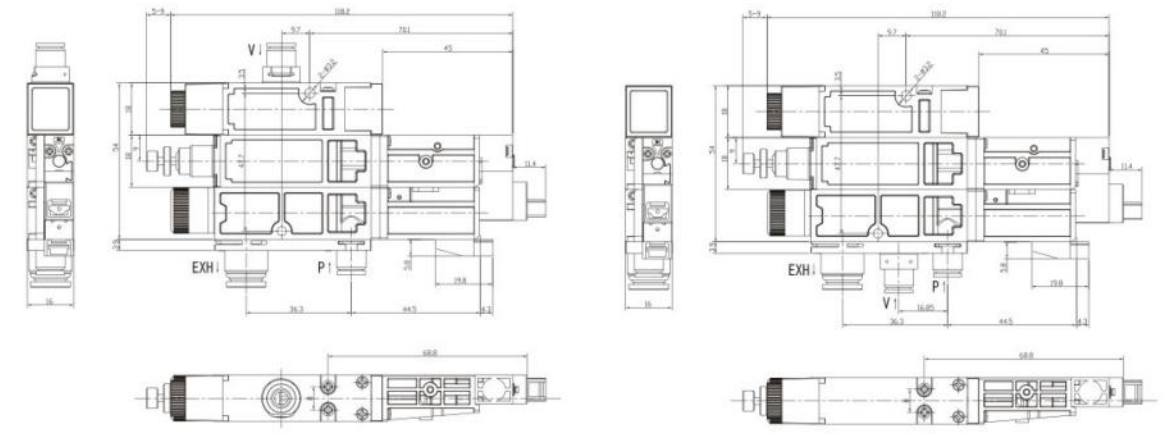
CTA**P type

CTB**P type



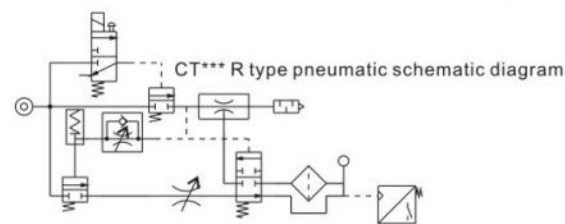
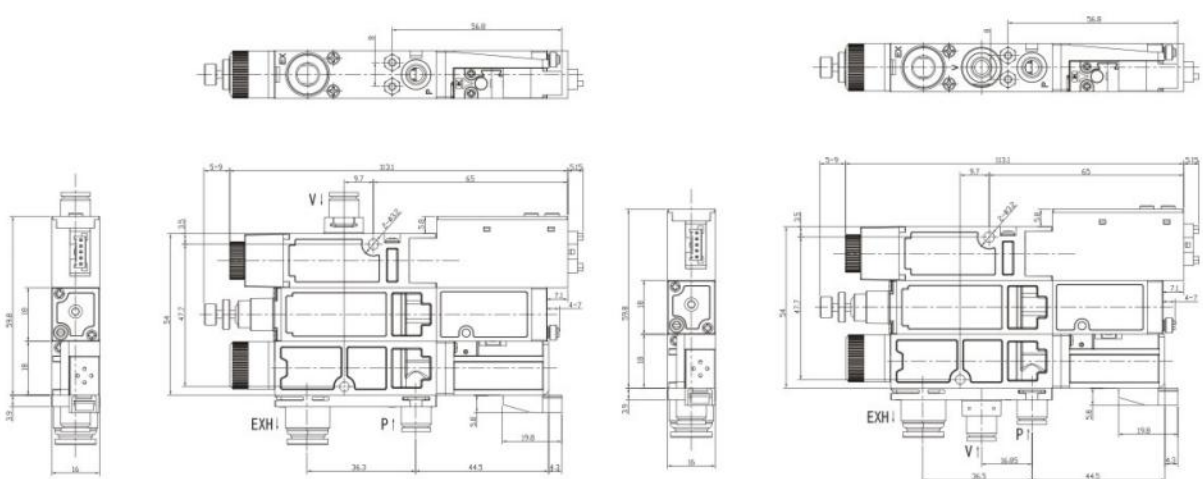
CTA**S/Y type

CTB**S/Y type



CTA**R type

CTB**R type



CTA**W/X type

CTB**W/X type

