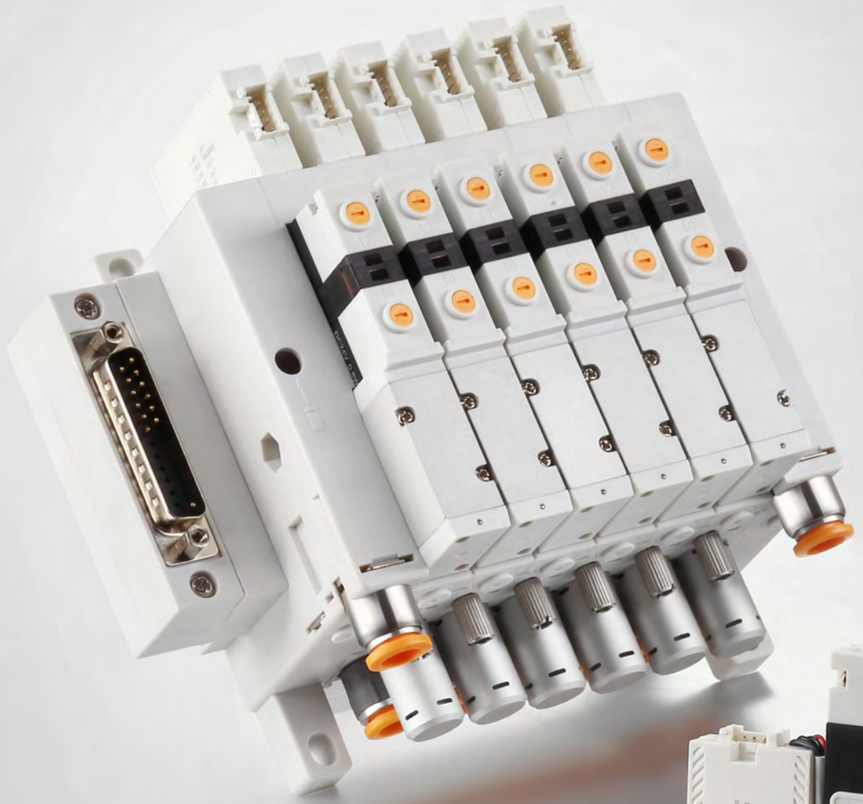
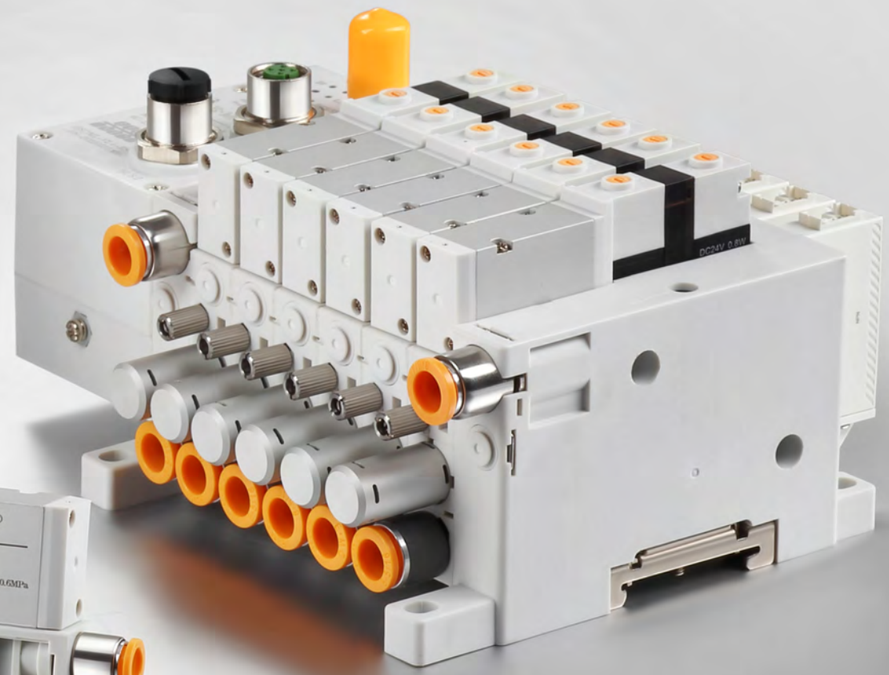
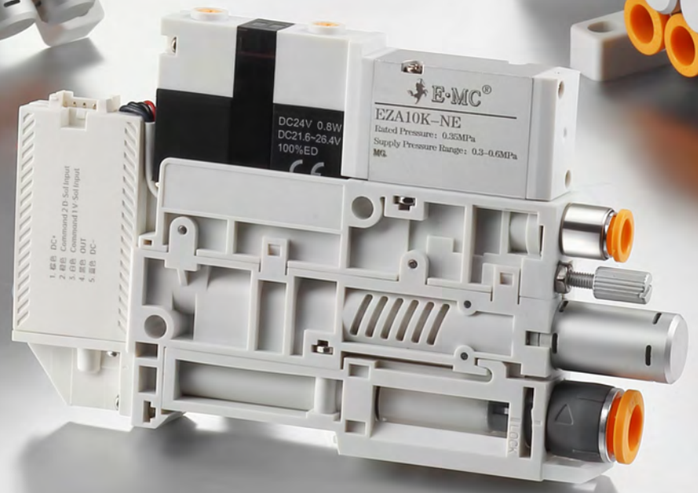
Vacuum Components

A vacuum component refers to a pneumatic component that uses compressed air to generate nega –tive pressure in the pneumatic industry.In view of the advantages of simple and easy to operate crystal structure, it is widely used in vacuum adsorption, vacuum handling and other applications.

After years of technical accumulation, E▪MC has a very wide range of users in the pneumatic industry. For example, it has a high reputation in new energy, automobile, electronics and other industries. V –acuum components are also born from this, and are used in application scenarios. And technical le –vel has very rich experience in the industry, and will surely bring high–quality and satisfying services to all E▪MC customers.







◎ Term Description

1、Standard Atmospheric Pressure
Barometric pressure values measured under standard ambient conditions.
(Standard environmental conditions: Temperature: 20℃.Relative humidity: 65%, flat dry air atmospheric pressure: 101325Pa)

2、Vacuum
A state in which pressure and mass density are lower than standard atmospheric pressure.

3、Vacuum Degree
The difference between standard atmospheric pressure and absolute pressure in a vacuum.

4、Pneumatic Vacuum Generator
Elements that generate a vacuum with compressed air by means of the Venturi principle.

◎ Unit Symbol

1、Common Quantities, Units And Symbols

Name	Pressure	Flow	Temperature	Area	Mass	Force	Noise
Sign	p	q	t	S	m	F	
Unit	MPa	NL / min (ANR)	℃	cm^2	kg	N	dB(A)

Remarks: ANR-standard environmental conditions: temperature: 20℃, relative humidity: 65%, dry air atmospheric pressure 101325 Pa

2、Pressure Unit Conversion Table

	Pa(N/m^2)	kPa	bar	kg/cm^2	torr	psi (ibf/in^2)	inHg
1Pa	1	0.001	0.00001	10.1792×10^{-5}	7.50062×10^{-3}	0.145038×10^{-3}	0.3×10^{-3}
1kPa	1,000	1	0.01	10.1792×10^{-3}	7.50062	0.145038	0.3
1bar	100,000	100	1	1.01972	750.062	14.5038	30
$1kg/cm^2$	98,066.5	98.0665	0.980665	1	735.559	14.2233	29.42
1torr	133.322	0.133322	1.33322×10^{-3}	1.35951×10^{-3}	1	19.3368×10^{-3}	0.04
1psi	6,894.76	6.89476	6.9476×10^{-3}	70.3096×10^{-3}	51.7149	1	2.07

3、Negative Pressure Unit Conversion Table

	mbar	kPa	- kPa	%vacuum	torr	-mmHg	-inHg
Atmospheric Pressure	1,013	101.3	0	0	760	0	0
	913	91.3	10	9.9	685	75	3
	813	81.3	20	19.7	610	150	6
	713	71.3	30	29.6	535	225	9
	613	61.3	40	39.5	460	300	12
	513	51.3	50	49.3	385	375	15
	413	41.3	60	59.2	310	450	18
	313	31.3	70	69.1	235	525	21
	213	21.3	80	79	160	600	24
	113	11.3	90	89	85	675	27
Absolute Vacuum	0	0	101.3	100	0	760	30

4、Flow Unit Conversion Table

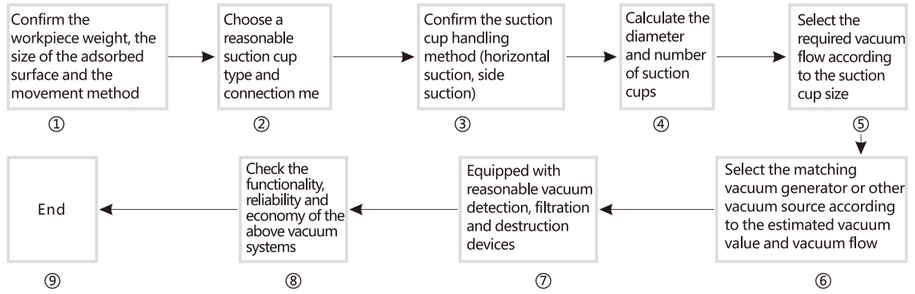
	m^3/s	m^3/h	NL/min	NL/s	$ft^3/min(scfm)$
1 m^3/s	1	3,600	60,000	1,000	2,118.9
1 m^3/h	0.28×10^{-3}	1	16.6667	0.2778	0.5885
1 NL/min	16.67×10^{-6}	0.06	1	0.0167	0.035
1 NL/s	1×10^{-3}	3.6	60	1	2.1189
1 ft^3/min	0.472×10^{-3}	1.6992	28.32	0.4720	1

Introduction of Vacuum Technology

◎ Selection / Guidance

1、Confirmation before product selection
Before choosing our company's vacuum products, please carefully confirm the use environment and place under the conditions, such as the size, weight, shape, material, surface shape, space handling and transformation method of the workpiece to be sucked, in addition, we must also be clear Various environmental conditions in the field, such as ambient temperature, dust, oil, water mist, splash, etc.
The establishment condition of vacuum suction and handling is to perform under the premise that we will not cause harm to people and property under the premise of correct operation, so it is necessary to give sufficient safety margin in model selection and calculation, which can be set according to working conditions. Certainly.
During the selection and calculation, if the customer encounters the needs of special application scenarios, please contact the sales customer service staff in time.

2、Vacuum component selection guide process



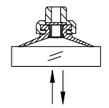
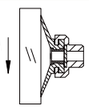
3、Shape selection of vacuum suction cups

Selecting a reasonable type of suction cup according to the material and shape of the workpiece to be sucked is a key link in the application of vacuum handling and needs to be matched reasonably

Type	Structure	Application	Type	Structure	Application
Flat		The surface of the workpiece is flat, not easy to deform, and can meet the flipping of the workpiece, or heavy loads and other scenarios.	1.5 Fold Bellows Type		The suction cups have a small amount of compression stroke for proper height compensation and moderate load scenarios for uneven surfaces.
Flat ribbed		The surface of the workpiece is flat, but there is deformation, and the internal ribs can provide anti-bending support.	Multi-Fold Bellows Type		The suction cup has a large compression stroke, which can have a good sealing fit and height compensation for soft surfaces, and is suitable for light load scenarios.
Deep		Scenarios where the workpiece surface is a curved surface.	heterotype		The surface of the workpiece is flat and not easily deformed, but the size of the adsorption surface is limited, such as thin, narrow and long scenes, which can meet the scenes such as flipping.

4、Calculation of the adsorption force of the vacuum suction cup

4.1、Calculation of theoretical adsorption force (known suction cup size and vacuum degree)

vertical lift 	Lateral lift 
The suction force direction of the suction cup is parallel to the movement direction of the workpiece	The suction force direction of the suction cup is perpendicular to the movement direction of the workpiece
Theoretical adsorption force calculation method:Fo=Pv x S x 0.1 x 1/t	Theoretical adsorption force calculation method:Fo=Pv x S x 0.1 x 1/t x μ
Fo: Theoretical adsorption force (N) Pv: vacuum value (-kPa) S: adsorption area (cm^2) t: safety factor: 4	Fo: theoretical adsorption force (N) Pv: vacuum value (-kPa) S: adsorption area (cm^2) t: safety factor: 8 (including rollover) μ: Friction coefficient values (glass, stone, plastic (dry): 0.5-0.8 sandpaper (dry): 1, Wet or oily surfaces: 0.1-0.4

6 Introduction

◎ Selection / Guidance

4.2、Suction cup diameter calculation（known workpiece weight and handling conditions）

①

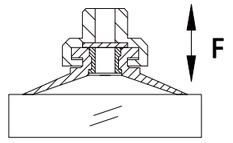
$$\varnothing D=\sqrt{\frac{4}{3.14}\times\frac{1}{P}\times\frac{W}{n}\times t\times 1000}$$

∅D：Suction cup diameter (mm), P: Vacuum degree (-kPa), W: Adsorption force (N),
t: Safety factor (vertical lift: 4, lateral lift: 8 (including flipping)

② **W：Suction force calculation: vertical lift, vertical movement.**

$$W = m \times (g + a)$$

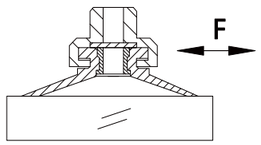
W：Suction force, m: workpiece mass,
g: Gravitational acceleration 9.8m/s²
a: External force acceleration (<1m/s² can be ignored)



② **W：Suction force calculation: vertical lift, horizontal movement.**

$$W = m \times (g + a \times 1/\mu)$$

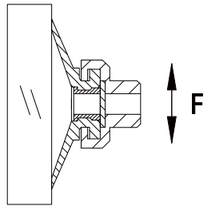
W：Suction force, m: workpiece mass,
g: Gravitational acceleration 9.8m/s
a: External force acceleration (<1m/s² can be ignored)
μ: Friction coefficient value (see 4.1)



② **W：Suction force calculation: lateral lift, vertical movement.**

$$W = m \times 1/\mu \times (g + a)$$

W：Suction force, m: workpiece mass,
g: Gravitational acceleration 9.8m/s
a: External force acceleration (<1m/s² can be ignored)
μ: Friction coefficient value (see 4.1)



③ **Calculus example**

Example: Flat oil-free steel plate Weight: 19kg, size: 1000×2000×1.2mm Horizontal handling, rhythm 15s/time, maximum movement speed 0.3m/s, handling route: 3m, calculate the recommended diameter and quantity of suction cups.

Solution: (1) According to the maximum speed of 0.3m/s, the average speed: 3mx1/15s = 0.2m/s, the maximum acceleration of external force is estimated to be less than 1m/s², so the acceleration of external force can be ignored.

(2) According to the horizontal handling, smooth the oil-free steel plate, take the friction coefficient: 0.5, and calculate the adsorption force W value:

W=m x (g+a x 1/μ)

W =19 x (9.8+1/0.5)

W =224.2(N)

(3) According to the calculation formula: $\varnothing D=\sqrt{\frac{4}{3.14}\times\frac{1}{P}\times\frac{W}{n}\times t\times 1000}$

According to W=224.2, the vacuum degree of suction steel plate is assumed: -50 kPa, the number of suction cups is assumed according to the size of the steel plate: 12pcs, the vertical lifting safety factort=4.

ØD=43.6mm ≈ 45.0mm

Obtained: Optional flat ribbed suction cup diameter D=45.0mm, quantity: 12, can carry 19kg steel plate for horizontal movement.

Note: The above assumption is that the vacuum degree is -50kPa based on the fact that the product is a rigid airtight workpiece, and this vacuum degree is also relatively easy to obtain. It is assumed that the number of suction cups is taken into account the size of the workpiece, the span of the suction cup distance, the number of suction cups,the diameter of the suction cups and etc, comprehensive evaluation.

Introduction of Vacuum Technology

◎ Selection / Guidance

5、Selection of vacuum generator

5.1、Key indicators of vacuum generator selection

Key Indicator	Maximum Vacuum (-kPa)	Maximum Vacuum Flow (NL/min)	Pumping Time Under Different Vacuum Degrees (s/L)	Vacuum Flow At Different Vacuum Degrees (NL/min)	Air Consumption (NL/min)
Indicator role	Basis for suction force of the suction cup	acuum maintenance conditions for the suction cup to hold the workpiece	Basis for establishing response time of vacuum system	Judgment basis for suction cup leakage	Basis for on-site gas consumption

5.2、Vacuum flow value required for suction cups with different diameters (quick selection)

Serial Number	Suction Cup Diameter (mm)	Workpiece With Low Leakage [1] NL/min	Workpieces Wth High Leakage [2] NL/min
1	≤10	5	10
2	11～20	10	20
3	21～35	17	34
4	36～50	34	64
5	51～85	50	100
6	86～110	67	134
7	111～200	84	168
8	201～300	100	200
9	301～360	135	270

Note: 1. Workpieces with low leakage refer to: such as flat and non-hollow glass plates, steel plates, plastic plates, wood boards, stone materials, etc.
2. Workpieces with high leakage refer to: such as paper products (cartons, cardboard), flexible plastic bags, woven bags, etc.
3. The above unsuitable scenarios: If there are hollow products (PCB circuit boards), special products (silicon wafers, solar panels, etc.), with special curved shapes, etc., please contact the technical staff in time to communicate.

6、Selection of suction cup material

Material	Short-Term In °C≤30S	Longer-Term In °C>30S	Wear Resistance	Oil Resistance	General Weathering Resistance	Resistivity
N-NBR	- 20 ～ +110	- 10 ～ +80	◎	◎	○	-
S-Silicone caoutchuc	- 40 ～ +250	- 30 ～ +200	×	×	◎	-
CN-Conductive nitrile caoutchuc	- 10 ～ +100	- 10 ～ +70	◎	◎	○	10^5-10^9
CS-Conductive silicone caoutchuc	- 30 ～ +200	- 20 ～ +160	×	×	○	10^5-10^9
U-Polyurethane	+10 ～ +60	+10 ～ +40	◎	◎	◎	-
F-Fluoroelastomer	- 10 ～ +350	- 5 ～ +300	◎	○	○	-
E-EPDM caoutchuc	- 30 ～ +150	- 20 ～ +120	○	×	◎	-
HS-High temperature silicone caoutchuc	- 20 ～ +300	- 50 ～ +250	△	×	◎	-
HD-High temperature / non-marking material	- 10 ～ +180	- 5 ～ +160	◎	◎	◎	-
NR-Natural Rubber	- 20 ～ +80	- 10 ～ +60	◎	×	△	-

◎:Excellent ○: Very good △: Good x: Poor to satisfactory

◎ Safety/Prevention

1. Design/Selection

In the process of system design and selection, the model should be selected carefully and the safety factor should be reasonably considered, and full consideration should be given to avoid personal injury and damage caused by the drop of the workpiece due to the gripping force of the suction cup in the case of sudden power failure or gas failure at the use site. property damage.
In the system design, it is necessary to fully consider the matching of the size and quantity of the vacuum generator and the suction cup. If the vacuum flow rate is too large, the gas source consumption will be higher, and if the vacuum degree is higher, it will waste more response time and energy consumption. On the premise of ensuring the complete use of the product, try to select reasonable vacuum components.

2. Air source/filter

The compressed air supplied to the vacuum generator should be dry and filtered clean air. In order to prevent the vacuum generator from being blocked and performance degradation, a suitable vacuum filter should be matched in the pipeline between the suction cup and the vacuum port of the vacuum generator. Clogging causes a reduction in the gripping performance of the suction cups.
For the vacuum generator with built-in filtration and noise reduction, it is necessary to regularly check and replace the filter element and muffler core inside, so as to avoid the performance degradation of the vacuum generator due to clogging.
The rated working pressure of the vacuum generator represents the best working pressure. The comprehensive performance index of the vacuum generator is the best and the energy consumption is the lowest. The high air supply pressure of the vacuum generator will shorten the service life of the product, damage the product structure and even damage the product structure. burst; if the air supply pressure is too low, the performance does not meet the design requirements, so it is a very necessary measure to provide and set the rated working pressure for the vacuum generator.

3. Installation/Use

The installation and use of the product are performed under the premise that the operator has sufficient knowledge, experience and good protection of pneumatic products. Before installation or maintenance, completely disconnect the power supply and air supply, and discharge the compressed air in the piping, and confirm that it is connected to the atmosphere.
Before installing the product, check and clean up the impurities, dust and dust in the joints and pipes. Seal the pipe joints and pipes. Try not to seal with wrapping tape during vacuum sealing, because the operation is improper. It will cause the damaged wrapping tape to be sucked into the vacuum generator, causing the vacuum generator to block and affect the performance.
For vacuum generator products with energy-saving function, the sealing requirements for the entire system installation are high, and it is recommended to use pipe joints with O-rings to seal.
The exhaust of the vacuum generator has a direct impact on the performance of the product, and the smoothness of the exhaust needs to be considered in the process of installing the product.
When the product is abnormal or faulty, please communicate with the after-sales service personnel in time to solve it, and do not decompose the product without authorization, which will cause difficulties in the follow-up product quality investigation.
The size and length of the product piping have a significant impact on the vacuum performance. During the installation process, it should be reasonably configured according to the product instructions for use.

4. Environment/Protection

Pneumatic vacuum generator products are pneumatic components, and standard conventional products can only be used in a normal environment of normal temperature, pressure and humidity. In corrosive gas environment, flammable and explosive environment, chemical agent corrosion environment, sea water, water vapor, high temperature and high humidity, high dust, strong thermal radiation, nuclear radiation, water droplet splash, grease splash, high temperature splash, violent The product shall not be used under such unconventional conditions as vibration and shock.
If the product is used outdoors, it is necessary to take necessary protective measures such as sun protection and rain protection. If the product is operated in a high humidity and high temperature environment, necessary protective measures must be taken. If the ambient temperature exceeds the product's operating temperature range, the product Not to be used.
The product should not be discarded at will after being scrapped. It is recommended to recycle and decompose it for reuse. It is everyone's responsibility to save energy and protect the environment.

EZA

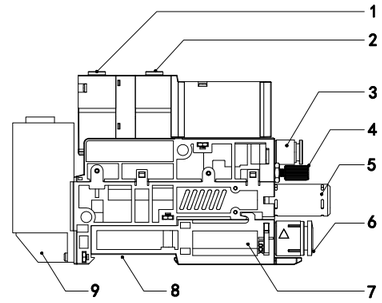
Intergrated Vacuum Generator

Vacuum Flow: 26 NL/min - 74 NL/min



◎ Applications / Features

- Built in low-power solenoid valve has higher stability and longer service life.
- Built in integrated vacuum, air breaking, noise reduction, energy saving, selfholding and other functions.
- Built-in quick-replaceable vacuum filter makes installation and removal faster.
- Silencer exhaust and port exhaust are optional.
- Intergrated lateral hole mounting, 35mm DIN rail mounting and L type bracket mounting are optional.



1.Release valve (The green light on when power on.)
2.Supply valve[1] (The red light on when power on.)
3.Inlet port(ø6)
4.Vacuum break flow adjusting needle
5. External silencer
6.Vacuum port(ø6/ø8)
7.Filter case
8.35mm DIN rail mounting slot
9.Vaccum pressure switch

◎ How to Order?

Series No.	Nozzle Diameter	□	—	Vacuum Gauge Specification	—	Vacuum Port	—	Exhaust Type	—	Mounting Bracket
EZA: EZA series	07: Ø0.7 10: Ø1.0 12: Ø1.2 15: Ø1.5			Blank:Without N:Type NPN P:Type PNP NE:NPN+Energy Saving PE:PNP+Energy Saving W: External vacuum detection		Blank: ø8 06: ø6		Blank:Silencer(default) D:Exhaust port(Ø8)		Blank:Without(default) B:L-type mounting bracket

③	Supply Valve	Air Breaking Valve
K	NC	NC
R	Self-holding type	NC

Note: R-type vacuum meter with energy-saving is not optional. When the R-type is energized for more than 20ms, the vacuum occurs and continues, the vacuum breaker is energized, and the vacuum stops.

Order Example: EZA serie intergrated vacuum, nozzle diameter ϕ1.0, supply valve NC, air breaking valve NC, vacuum gauge specification type NPN, exhaust type vent, L-type mounting bracket. The ERP code is: EZA10K-N-D-B.

◎ Performance Parameter

Specifications And Models	Rated Supply Pressure(Mpa)	Maximum Vacuum(-Kpa)	Maximum Vacuum Flow(NL/min)	Air Consumption (NL/min)	Noised dB(A)	Air Supply Port(mm)	Vacuum Port(mm)
EZA07-	0.35	85	26	15	62	Ø6	Ø6/Ø8
EZA10-	0.35	85	45	40	74	Ø6	Ø6/Ø8
EZA12-	0.4	85	62	58	78	Ø6	Ø6/Ø8
EZA15-	0.4	91	74	103	82	Ø6	Ø6/Ø8

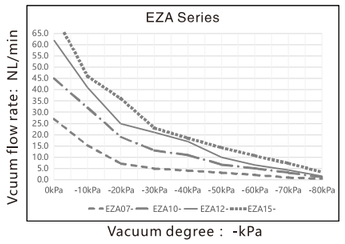
Vacuum Flow Rate of different vacuum flow(-kPa)(NL/min)

Specifications And Models	Supply Pressure(Mpa)	Air Consumption (NL/min)	0kPa	–10kPa	–20kPa	–30kPa	–40kPa	–50kPa	–60kPa	–70kPa	–80kPa	Maximum Vacuum(–Kpa)
EZA07–	0.35	15	26	13.1	7.1	5.5	4.5	3.8	2.7	1.4	0.4	85
EZA10–	0.35	40	45	32	19	13	11	6.8	5.1	3.2	1.2	85
EZA12–	0.4	58	62	41	25	21	17	10	6.6	4.4	1.6	85
EZA15–	0.4	103	74	50	36	23	18.5	14.3	10.7	7.3	3.5	91

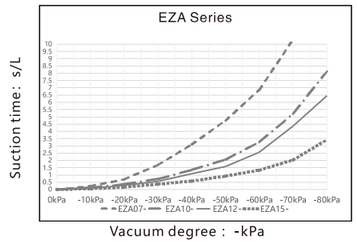
Suction time of different vacuum(-kpa)(s/L)

Specifications And Models	Supply Pressure(Mpa)	Air Consumption (NL/min)	0kPa	–10kPa	–20kPa	–30kPa	–40kPa	–50kPa	–60kPa	–70kPa	–80kPa	Maximum Vacuum(–Kpa)
EZA07–	0.35	15	0	0.25	0.70	1.63	2.68	4.61	7.23	11.85	18.77	85
EZA10–	0.35	40	0	0.12	0.36	0.72	1.34	2.06	3.26	5.21	8.12	85
EZA12–	0.4	58	0	0.07	0.3	0.58	1.1	1.59	2.55	4.36	6.45	85
EZA15–	0.4	103	0	0.05	0.16	0.37	0.58	0.92	1.33	2.03	3.42	91

EZA-Vacuum flow rate in different vacuum degree(NL/min)



EZA-Suction time of different vacuum(-kPa)(s/L)

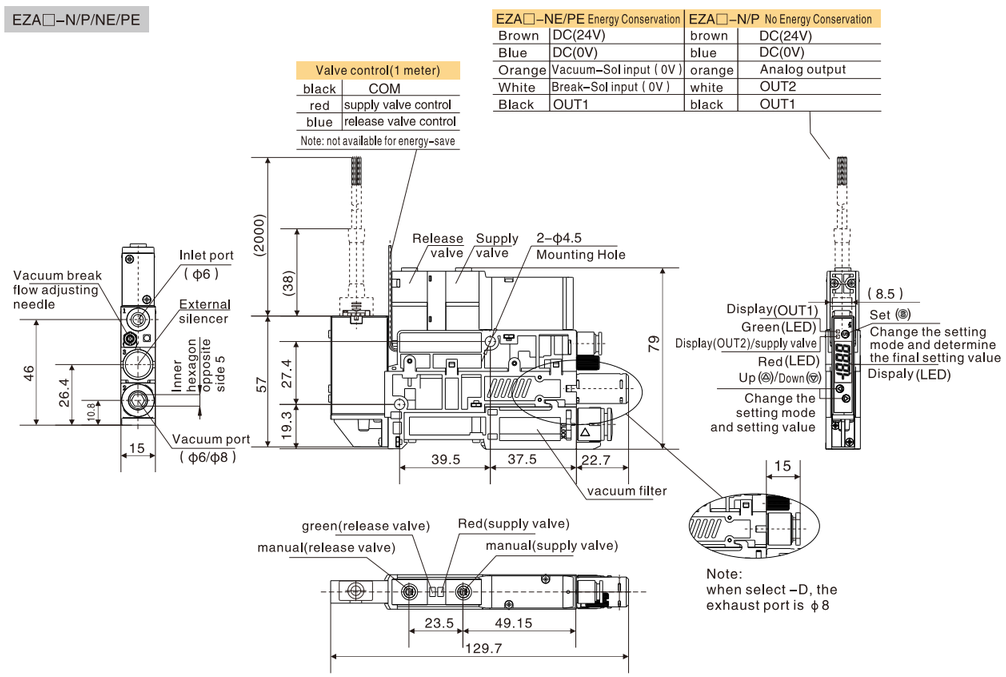


Main Dimension

EZA□–N/P/NE/PE

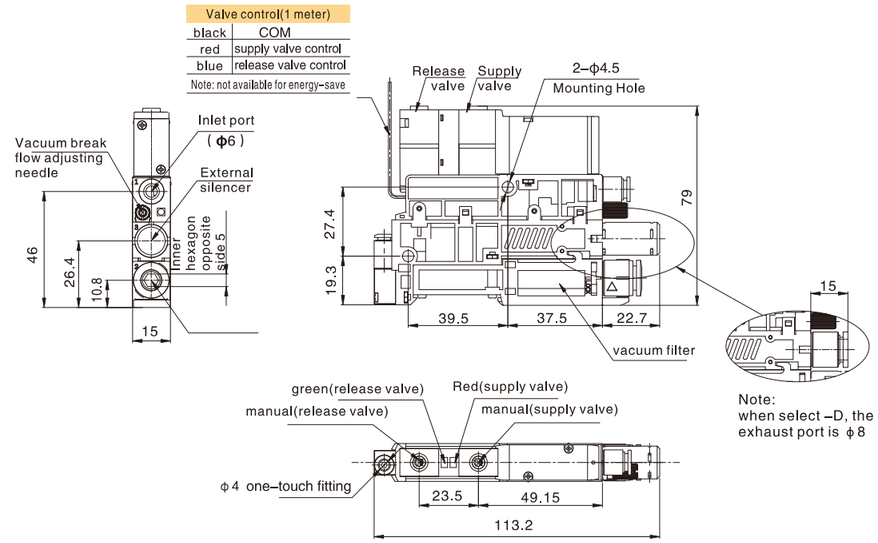
EZA□–NE/PE Energy Conservation	
Brown	DC(24V)
Blue	DC(0V)
Orange	Vacuum–Sol input (0V)
White	Break–Sol input (0V)
Black	OUT1

EZA□–N/P No Energy Conservation	
brown	DC(24V)
blue	DC(0V)
orange	Analog output
white	OUT2
black	OUT1

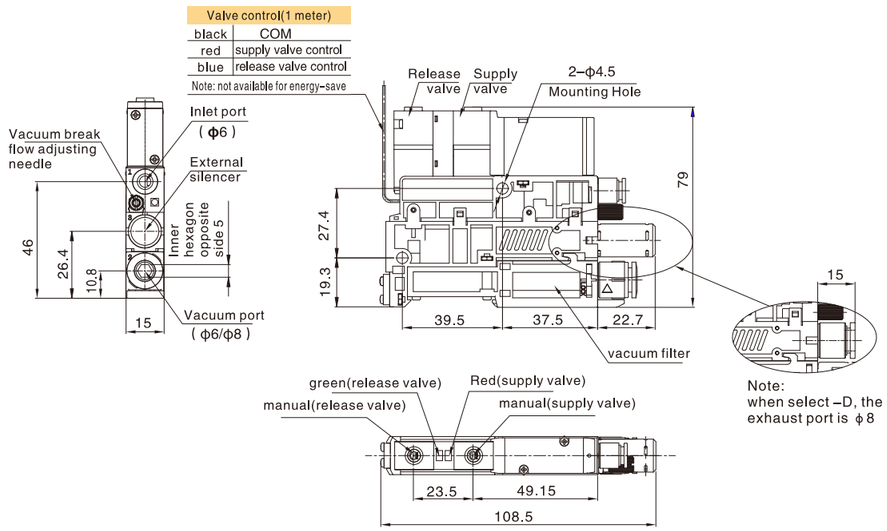


Main Dimension

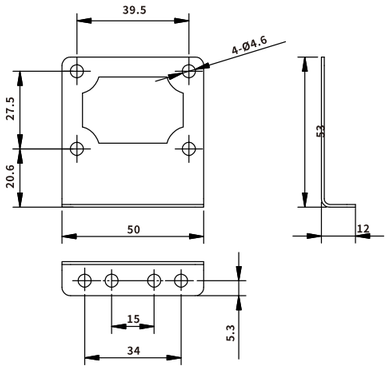
EZA□–W External Vacuum Detection



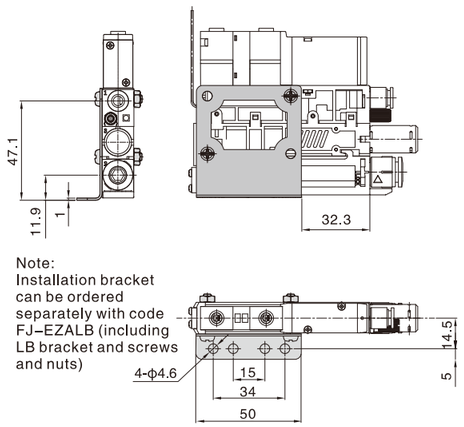
EZA□ without vacuum pressure gauge



◎ L-type Mounting Bracket

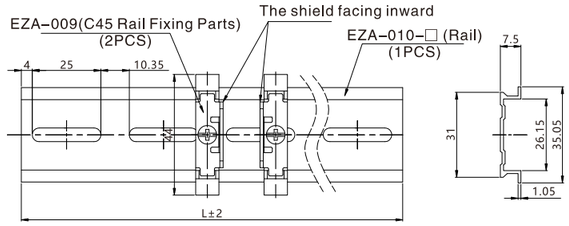


Outline drawing of EZA/EZP–LB installation bracket



Note:
Installation bracket can be ordered separately with code FJ–EZALB (including LB bracket and screws and nuts)

◎ Rail Installation Dimensions and Model



Model	Rail Length (L)	Applicable Links
FJ–EZA–D3	103.5	2~4 Links
FJ–EZA–D4	139	5~6 Links
FJ–EZA–D5	174.5	7~8 Links
FJ–EZA–D6	210	9~11 Links
FJ–EZA–D7	245	12~13 Links
FJ–EZA–D8	280.5	14~16 Links
FJ–EZA–D9	316	17~18 Links
FJ–EZA–D10	351	19~20 Links

EZA Series Intergrated Vacuum Generator

◎ Operation Manual(energy-saving Type) V2.0

Notes

- Do not use corrosive and inflammable gas or any liquid.
- Use it within the specified operating pressure. Otherwise it can cause damage to the pressure switch or inability to measure correctly.
- Do not drop, hit or apply shock to the Pressure switch. Otherwise damage to the internal parts can result, causing malfunction.
- Turn off the power before connecting the wires. Because it can cause damage due to the wrong wiring or short circuit.
- Do not use in an environment with spattering liquid of oil or solvent.
- This product is not explosion–proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Separate power lines from high voltage lines,avoiding wiring in the same conduit with these lines.

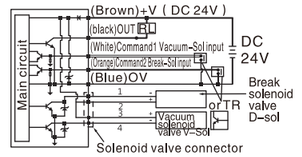
A.Specifications

Item		Compound Pressure
Rated pressure range※		–105.0~105.0kPa
Set pressure range※		–100.0~100.0kPa
Proof pressure		500kPa
Applicable fluid		Air, non-corrosive gas and non-flammable gas
Minimum setting scale for pressure unit		kPa：0.1 kgf/cm²：0.001 bar：0.001 psi：0.01 inHg：0.1 mmHg：1
Power supply voltage		24 VDC ±10%, ripple max. 10%
Current consumption		≤40mA(without load)
Switch output	Output type	1switching value(NPN/PNP adjustable)
	Maximum load current	125mA
	Maximum applied voltage	24V DC
	Internal voltage drop(Residual voltage)	≤1.5V
Input control		NPN type : low–level input (SPST or electronic contact), level voltage: less than 0.4V DC, more than 10ms transmission time PNP type : high–level input (SPST or electronic contact), potential voltage: 20~24V DC.10ms more than transmission time
Cartridge valve control switch		200mA@24V DC max
Repeatability		±0.2%F.S. ±1 digit
Response time		≤2.5ms (chattering–proof function:2.5ms,20ms,100ms 500ms,1000ms and 1999ms selectable)
Action display light		OUT:Green V–Sol control input:red(vacuum signal)
Environment	Protech class	Ip40
	Working temperature	Operation: 0 to 50℃, Storage: –10 to 60℃ (No condensation)
	Operating humidity range	Operation, Storage: 35 to 85%RH (No condensation)
	Withstand voltage	1000 VAC in 1 minute(between case and lead wire)
	Insulation resistance	50 MΩ or more (at 500 VDC,between case and lead wire)
	Vibration resistance	Total amplitude 1.5mm,10Hz~150Hz~10Hz scan for 1 minute, 2 hours each directions of X,Y and Z
	Impact resistance	Maximun 980m/s(100G) 3 times each in directions of X,Y and Z
Tempereature characteristic		±2%F.S. of detected pressure(25℃) at temp.(Range of 0–50℃)
Inlet type		90° inlet Port & No Port
Wire specification		Oil–resistance cable(PVC)(0.15m²)
Weigh		Approx. 58g(with 2 meters lead wire)

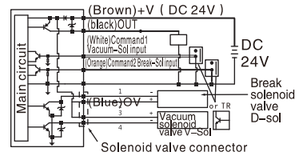
※Note: Due to temperature and linear compensation, the upper/lower ranges of the gauge may fluctuate slightly. This is normal.

B.Out Circuit Wiring Diagrams

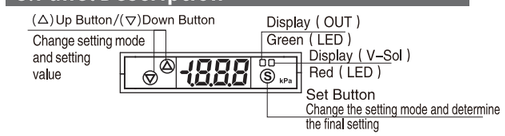
NPN out put



PNP out put

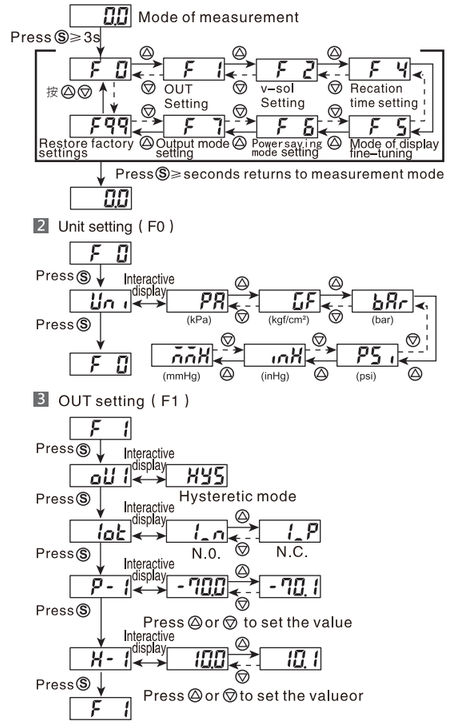


C.Panel Description

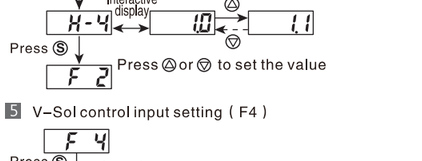


D.Basic Setting Mode

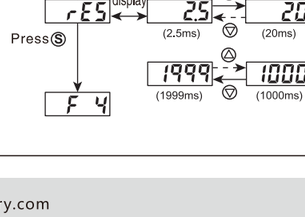
1 Mode of function select



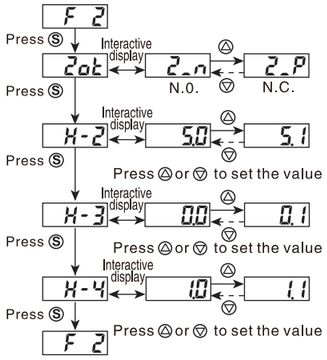
2 Unit setting (F0)



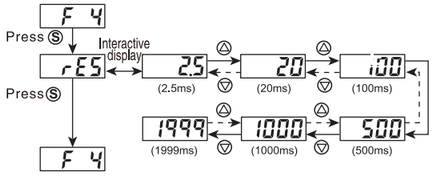
3 OUT setting (F1)



4 V–Sol control input setting (F2)

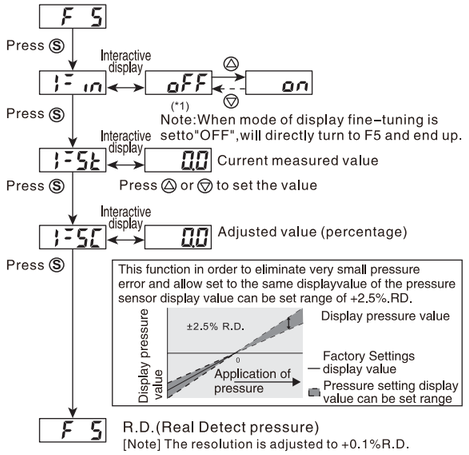


5 V–Sol control input setting (F4)



◎ Operation Manual(energy-saving Type) V2.0

6 Mode of display fine–tuning (F5)

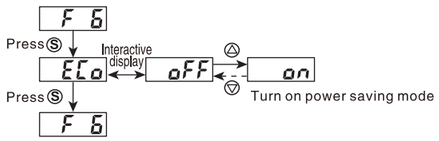


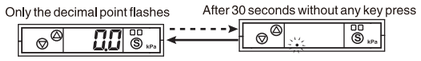
7 Power saving mode (F6)

◎ During Power–Save mode, the main display will turned off if no buttons is pressed after 30 seconds.

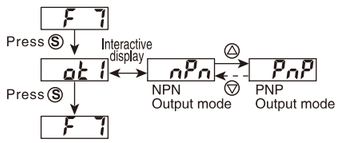
◎ During Power–Save mode, the output LCD may not be synchronize with the output. It is normal and will not affect output operation.

◎ Press any button to turn–on main display temporarily.

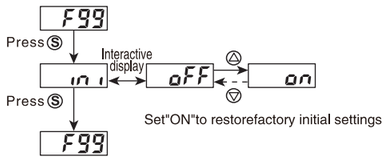




8 Output mode setting (F7)

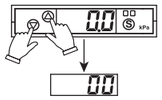


9 Restore factory initial settings (F9)



E.Zeroing Setting

With the mode of measurement, press △ and ▽ at the same time,more than 3seconds until the screen appears"00".

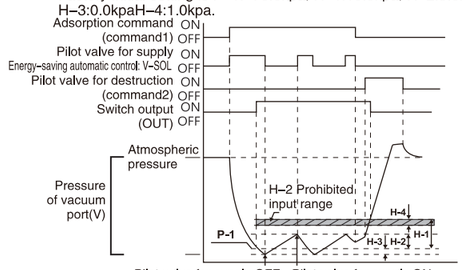


F.Mode of 0utput Action

The pre–set power saving control actions and setting values on theswitch are indicated as following,If the action shown below is not abnormal,it can continue to be used in this condition.

OUT action
Switch will be ON when the pressure exceeds the set value (P–1)
Switch will be OFF when the pressure from set value (P–1) to the hysteresis value or above.
Factory initial settingis(P–1):–70.0kpa (H–1):10.0kpa.

V-sol action
According to the adsorptive command signal,supply pilot valve: V–solopen,vaccum is generated,and begin to absorb.
Supply pilot valve OFF when vacuum level reaches the set value (P–1–H–3:signal of supply pilot valve OFF point).
When vacuum level decreases and reaches the ON point of adsorption switch(P–1–H–3:signal of supply pilot valve OFFpoint), supplu pilot valve will open again keep vacuum level.
Then supply pilot valve will repeat ON,OFF.The forbidden set area of H–2 could be set by H–4:the forbidden input range of supply pilot valve signal.(set to H–1 ⩾H–2+H–4)
Factory initial setting is P–1:–70.0kpa, H–1:10.0kpa, H–2:5.0kpa, H–3:0.0kpaH–4:1.0kpa.

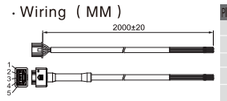


G.Pressure unit Conversion Table

From \ To	kPa	kgf/cm²	mmHg	psi	bar	inHg
1 kPa	1	0.010197	7.500616	0.145038	0.010000	0.2953
1 kgf/cm²	98.0665	1	735.559	14.2233	0.980665	28.95979
1 mmHg	0.13332	0.0013595	1	0.019336	0.0013332	0.039370
1 psi	6.895	0.07031	51.7157	1	0.06895	2.036074
1 bar	100.0000	1.01972	750.062	14.5038	1	29.52998
1 inHg	3.386388	0.034530	25.40000	0.491141	0.033863	1

H.Dimension unit (mm)

· Wiring (MM)



PIN NO.	Color of lead wire
1	DC(+)(Brown)
2	Command 2 D–Sol input (Orange)
3	Command 1 V–Sol input (White)
4	OUT(Black)
5	DC(–)(Blue)

I.Error Indication function

Error	Error displayed	Error Condition	Troubleshooting
Residual pressure error	Err	The zero clear range more than 2% F.S	Change input pressure to ambient pressure and perform zero reseteagain.
Pressurizing error	HHH	Reset applied pressure to a level within the set pressure range.	Reset applied pressure to a level within the set pressure range.
	LLL	Pressure exceeding the lower limit of the set pressure range is applied.	
System error	Er4	Displayed if an internal system error has occurred. Displayed if an internal system error has occurred.	Turn the power off and on again.If the failure cannot be solved, contact EMC.

Note(*1) When OUT2 is set to "oFF", skip to the end of F2

◎ Operating instructions (non energy-saving) V2.0

Notes

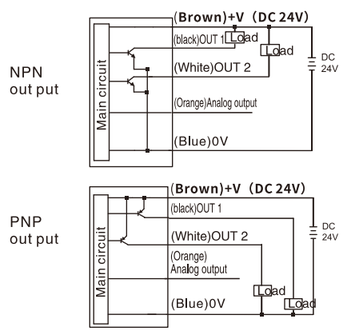
- Do not use corrosive and inflammable gas or any liquid.
- Use it within the specified operating pressure. Otherwise it can cause damage to the pressure switch or inability to measure correctly.
- Do not drop, hit or apply shock to the Pressure switch. Otherwise damage to the internal parts can result, causing malfunction.
- Turn off the power before connecting the wires. Because it can cause damage due to the wrong wiring or short circuit.
- Do not use in an environment with spattering liquid of oil or solvent.
- This product is not explosion–proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Separate power lines from high voltage lines,avoiding wiring in the same conduit with these lines.

A.Specifications

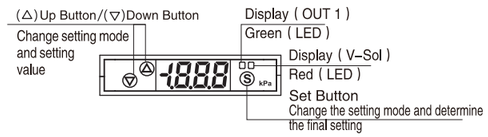
Item		Compound Pressure
Rated pressure range※		–105.0~105.0kPa
Set pressure range※		–100.0~100.0kPa
Proof pressure		500kPa
Applicable fluid		Air, non-corrosive gas and non-flammable gas
Minimum setting scale for pressure unit		kPa: 0.1 kgf/cm²: 0.001 bar: 0.001 psi: 0.01 inHg: 0.1 mmHg: 1
Power supply voltage		24 VDC ±10%, ripple max. 10%
Current consumption		≤40mA(without load)
Switch output	Output type	2 switching value(NPN/PNP adjustable)+1Analog (Voltage) output
	Maximum load current	125mA
	Maximum applied voltage	24V DC
	Internal voltage drop(Residual voltage)	≤1.5V
Repeatability		±0.2%F.S.±1 digit
Response time		≤2.5ms (Malfunction prevention function: 2.5ms,20ms, 100ms, 500ms, 1000ms, 1999ms optional)
Action display light		OUT1: Green 0UT2: Red
Environment	Protech class	Ip40
	Working temperature	Operation: 0 to 50 ℃, Storage: –10 to 60 ℃ (No condensation)
	Operating humidity range	Operation, Storage: 35 to 85%RH (No condensation)
	Withstand voltage	1000 VAC in 1 minute(between case and lead wire)
	Insulation resistance	50 MΩ or more (at 500 VDC,between case and lead wire)
	Vibration resistance	Total amplitude 1.5mm,10Hz~150Hz~10Hz scan for 1 minute, 2 hours each directions of X,Y and Z
	Impact resistance	Maximun 980m/s(100G) 3 times each in directions of X,Y and Z
Temperature characteristics		±2%F.S. of detected pressure(25 ℃) at temp.(Range of 0–50℃)
Inlet type		90° inlet Port & No Port
Wire specification		Oil–resistance cable(PVC)(0.15mm²)
Weigh		Approx. 58g(with 2 meters lead wire)

※Note1: Due to temperature and linear compensation, the upper/lower ranges of the gauge may fluctuate slightly. This is normal.
※Note2:Factory default :–50kPa.

B.Out Circuit Wiring Diagrams

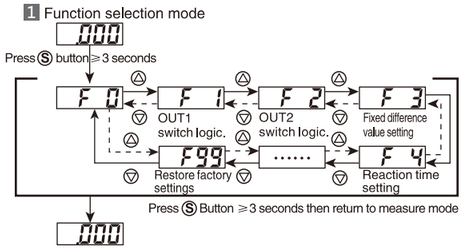


C.Panel Description

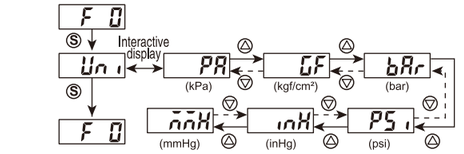


D.Initial Setting Mode

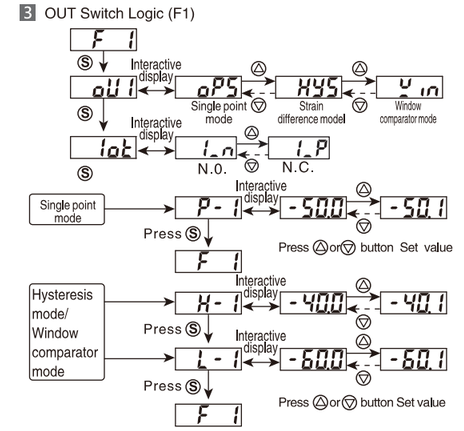
1 Function selection mode



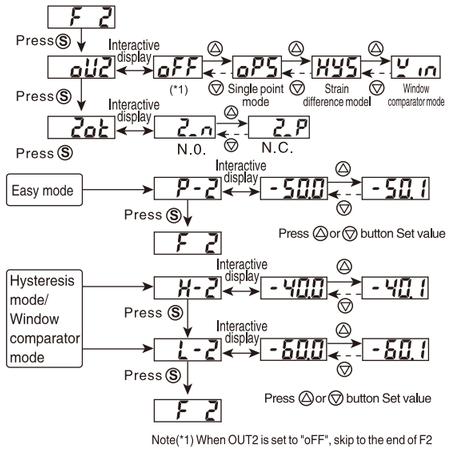
2 Pressure unit(F0)



3 OUT Switch Logic (F1)



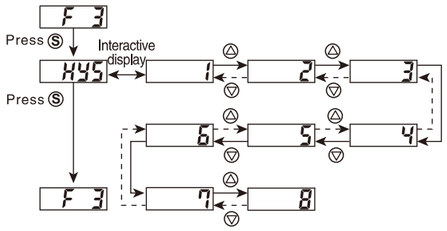
4 OUT2 Switch Logic (F2)



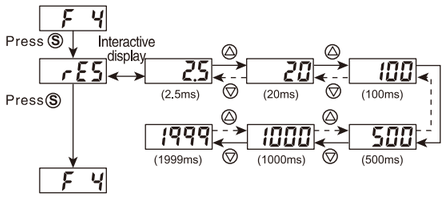
Note(*1) When OUT2 is set to "oFF", skip to the end of F2

◎ Operating instructions (non energy-saving) V2.0

5 Fixed difference value setting(F3)



6 Switch reaction time setting(F4)

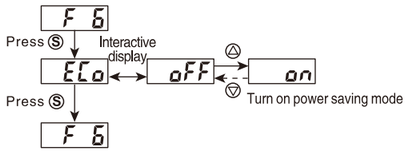


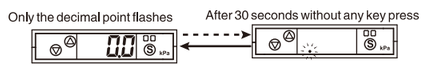
7 Power Save Mode (F6)

◎ During Power–Save mode, the main display will turned off if no buttons is pressed after 30 seconds.

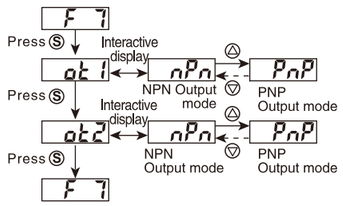
◎ During Power–Save mode, the output LCD may not be synchronize with the output. It is normal and will not affect output operation.

◎ Press any button to turn–on main display temporarily.

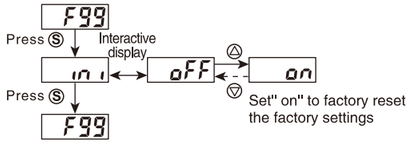




8 Output mode setting(F7)

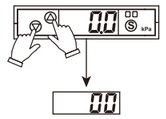


9 Factory reset values(F9)



E.Zeroing Setting

With the mode of measurement, press △ and ▽ at the same time,more than 3seconds until the screen appears"00"

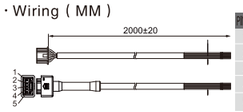


G.Pressure unit translation table

From \ To	kPa	kgf/cm²	mmHg	psi	bar	inHg
1 kPa	1	0.010197	7.500616	0.145038	0.010000	0.2953
1 kgf/cm²	98.0665	1	735.559	14.2233	0.980665	28.95979
1 mmHg	0.13332	0.0013595	1	0.019336	0.0013332	0.039370
1 psi	6.895	0.07031	51.7157	1	0.06895	2.036074
1 bar	100.0000	1.01972	750.062	14.5038	1	29.52998
1 inHg	3.386388	0.034530	25.40000	0.491141	0.033863	1

H. Dimension (unit:mm)

· Wiring (MM)



PIN NO	Color of lead wire
1	DC(+)(Brown)
2	Command 2 D–Sol input (Orange)
3	Command 1 V–Sol input (White)
4	OUT(Black)
5	DC(–)(Blue)

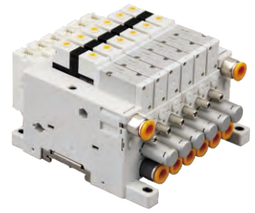
I.Error Indication function

Error	Error displayed	Error Condition	Troubleshooting
Residual pressure error	Err	The zero clear range more than 2% F.S	Change input pressure to ambient pressure and perform zero resetagain.
Pressurizing error	HHH	Reset applied pressure to a level within the set pressure range.	Reset applied pressure to a level within the set pressure range.
	LLL	Pressure exceeding the lower limit of the set pressure range is applied.	
System error	Er4	Displayed if an internal system error has occurred. Displayed if an internal system error has occurred.	Turn the power off and on again.If the failure cannot be solved, contact EMC.

Note(*1) When OUT2 is set to "oFF", skip to the end of F2

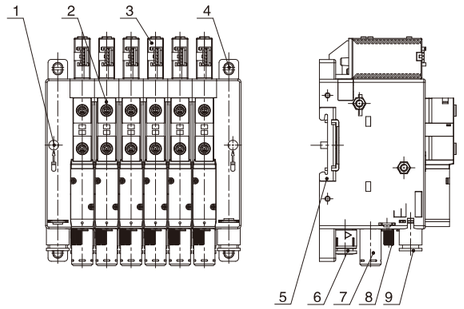
EZAZ

Integrated vacuum generator (Centralized air supply type)



◎ Application/Features

- Multi–piece assembled EZA integrated vacuum generator structure, adopts centralized air supply
- Integrated for built–in integrated vacuum, vacuum breaking, silencer, energy saving, self–holding functions
- Built–in quick–replaceable vacuum filter ,for faster installation and removal
- Silence exhaust and vent exhaust optional
- 35mm DIN rail installation and screw hole installation combination, to meet different installation needs.



1. Guide rail fixing bracket, fastening bolt holes.
2. Monolithic integrated vacuum generator (assembled type)
3. Digital vacuum pressure gauge (optional)
4. Installation holes (4–4.5*6)
5. 35mm rail mounting slot
6. Vacuum interface(ϕ6/ ϕ8)
7. External silencer/through hole exhaust interface(ϕ8)
8. Vacuum breaking flow adjustment valve stem
9. Air supply interface(2– ϕ8)

◎ How to Oder?

SERIES CODE	NOZZLE DIAMETER	□	—	Vacuum gauge specifications	—	Vacuum interface	—	Exhaust type	—	Assembly links

EZAZ: Integrated vacuum generator (Centralized air supply type)

07:Ø0.7
10:Ø1.0

Code	supply valve	Vaccum breaking valve
K	NC	NC
R	self–holding	NC

Note: R–Type is not available with an energy–saving vacuum gauge. When R–type is energized for more than 20ms, vacuum occurs and continues. When the vacuum is energized, the vacuum stops.

Blank: Without gauge
W: External vacuum detection
N: NPN type
P: PNP type
NE: NPN type+Energy saving
PE: PNP type+Energy saving

06:Ø6
08:Ø8

Blank: silencer(default)
D: Exhaust port (ϕ8)

2F: 2 links
4F: 4 links
6F: 6 links
8F: 8 links
10F: 10 links
12F: 12 links

Containerized maximum simultaneous opening positions				
Intake method	Intake caliber	EZA□07	EZA□10	Self–maintaining
Unilateral intake	1–Ø8	8 links	6 links	4 links
Both sides intake	2–Ø8	10 links	9 links	6 links
non–simultaneous open digit		12 links	12 links	12 links

Order Example:

EZAZ series centralized air supply type vacuum generating circuit, ϕ1.0 nozzle diameter, NC supply network, NC vacuum breaking, NPN vacuum gauge, ϕ6 vacuum interface, port exhaust ϕ8, 6 links, its ordering The code is: EZAZ10K–N–06–D–6F

◎ Performance Parameter

Model specifications	Rated air supply pressure Mpa	Maximum vacuum–kPa	Maximum vacuum flow NL/min	Single generator air consumption NL/min	Air supply interface mm	Vacuum interface mm	Noised B(A)
EZAZ 07–	0.35	85	26	15	2– ϕ8	ϕ6 / ϕ8	62
EZAZ 10–	0.35	85	45	40	2– ϕ8	ϕ6 / ϕ8	74

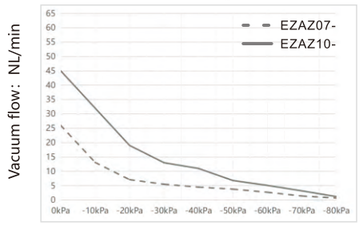
◎ Vacuum flow rate at different vacuum degrees (–kPa)(NL/min)

Model	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAZ 07–	0.35	15	26	13.1	7.1	5.5	4.5	3.8	2.7	1.4	0.4	85
EZAZ 10–	0.35	40	45	32	19	13	11	6.8	5.1	3.2	1.2	85

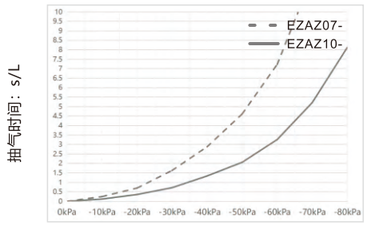
◎ Suction time for different vacuum degrees (–kPa) (s /L)

Model	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAZ 07–	0.35	15	0	0.25	0.70	1.63	2.68	4.61	7.23	11.85	18.77	85
EZAZ 10–	0.35	40	0	0.12	0.36	0.72	1.34	2.06	3.26	5.21	8.12	85

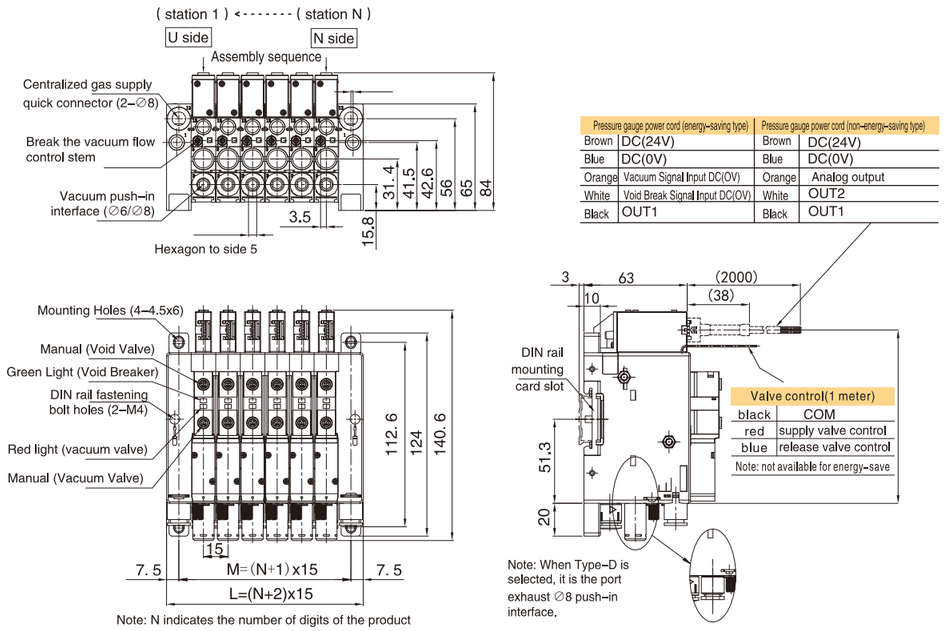
EZAZ-Vacuum flow rate (NL/min) at different vacuum degrees (-kPa)



Pumping time (s /L) for different vacuum degrees (-kPa)



◎ Dimensions(mm)

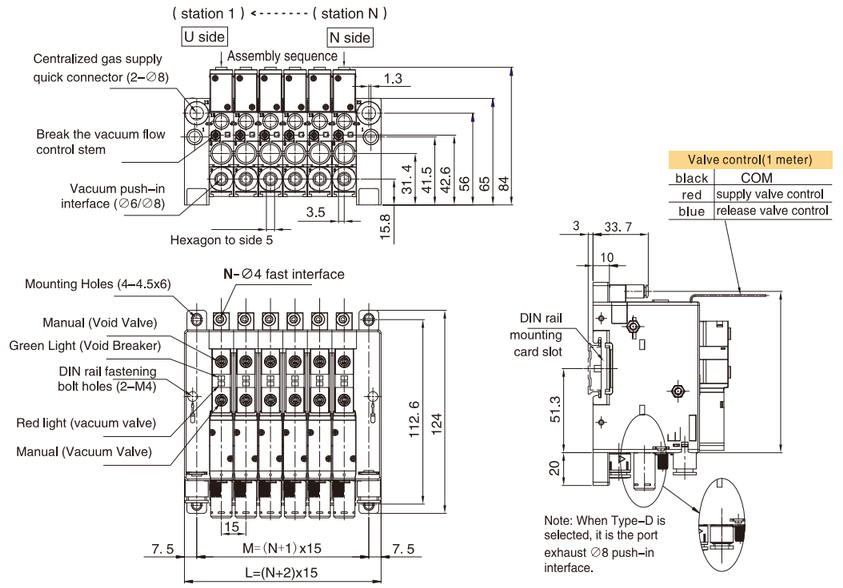


Pressure gauge power cord (energy–saving type)		Pressure gauge power cord (non–energy–saving type)	
Brown	DC(24V)	Brown	DC(24V)
Blue	DC(0V)	Blue	DC(0V)
Orange	Vacuum Signal Input DC(0V)	Orange	Analog output
White	Void Break Signal Input DC(0V)	White	OUT2
Black	OUT1	Black	OUT1

Note: N indicates the number of digits of the product

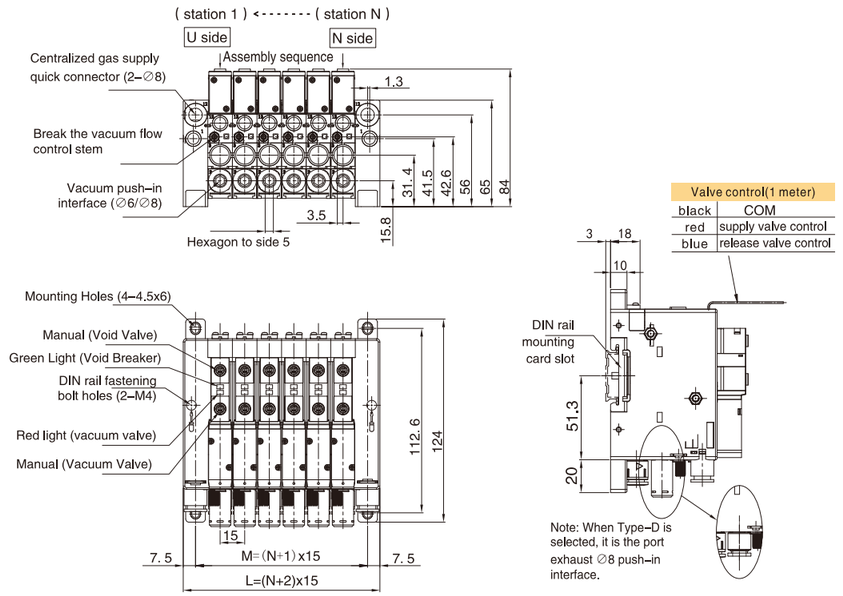
◎ Dimensions(mm)

EZAZ□–W with external vacuum detection outline



Note: N indicates the number of digits of the product

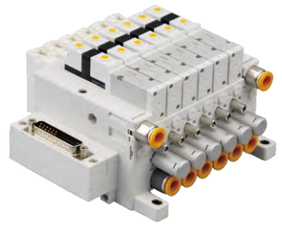
EZAZ□– Without vacuum gauge outline drawing



Note: N indicates the number of digits of the product

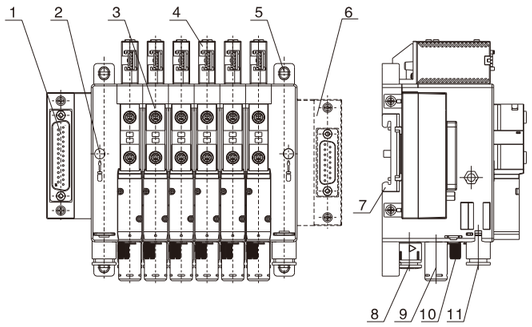
EZAV/EZA2V

Integrated Vacuum Generator (Multi-pin Type)



◎ Product Features

- Multi–plate assembled EZA integrated vacuum generator structure.
- Adopts centralized air supply, making pipe connection more convenient;
- Solenoid valve wiring/vacuum pressure gauge wiring uses D–SUB connectors, making the overall wiring of the product more compact and aesthetically pleasing;
- Integrated vacuum, exhaust, silencer, and self–holding functions are built–in;
- Features a built–in, quick–change vacuum filter for easier installation and removal;
- Silenced exhaust and through exhaust can be freely selected;
- Combines 35mm DIN rail mounting with screw hole mounting to meet various installation requirements.



1. 25–pin D–SUB socket
2. Rail mounting fixture hole
3. Vacuum generator (modular type)
4. Digital vacuum pressure gauge (optional)
5. 4 elliptical mounting holes of 4.5x6
6. 15–pin D–SUB socket (optional for EZA2V)
7. DIN rail mounting slot
8. Vacuum quick–connect interface ϕ6/ϕ8
9. External silencer/through–hole exhaust
10. Vacuum break flow control valve stem
11. Centralized air supply quick–connect interface ϕ8

◎ How to Oder?

EZAV multi–needle vacuum generator

Series Code	Nozzle Caliber	□	–	Vacuum Gauge Specifications	–	Vacuum Connection	–	Exhaust type	–	Assembly Links
EZAV: Multi–pin vacuum generator	07:Ø0.7 10:Ø1.0			None: without gauge W:External vacuum detection N:NPN Type P:PNP Type		06:Ø6 08:Ø8		Blank:Silencer (default) D:Through–port exhaust(Ø8)		2F:2 Links 3F:3 Links … 12F:12 Links

Code	Supply Valvw	Air breaking
K	NC	NC
R	Self–holding	NC

Note: R–type energized for 20ms or more, vacuum occurs and lasts, air–breaking valve energized, vacuum stops.

Containerized maximum simultaneous opening positions				
Intake method	Intake caliber	EZA□07	EZA□10	Self–maintaining
Unilateral intake	1–Ø8	8 links	6 links	4 links
Both sides intake	2–Ø8	10 links	9 links	6 links
non–simultaneous open digit		12 links	12 links	12 links

Ordering Example:

EZAV dual multi–pin vacuum generator, Ø1.0 nozzle bore, NC supply valve, NC Air breaking, NPN gauge size, Ø6 vacuum connection, through–port exhaust (Ø8), number of cartridges 6 positions. The Code：EZAV10K–N–06–D–6F

EZA2V dual multi–needle vacuum generator

Series Code	Nozzle Caliber	□	–	Vacuum Gauge Specifications	–	Vacuum Connection	–	Exhaust type	–	Assembly Links
EZA2V: dual multi–pin vacuum generator	07:Ø0.7 10:Ø1.0			N:NPN Type P:PNP Type		06:Ø6 08:Ø8		Blank:Silencer (default) D:Through–port exhaust(Ø8)		2F:2 Links 3F:3 Links … 12F:12 Links

Code	Supply Valvw	Air breaking
K	NC	NC
R	Self–holding	NC

Note: R–type energized for 20ms or more, vacuum occurs and lasts, air–breaking valve energized, vacuum stops.

Ordering Example:

EZA2V dual multi-pin vacuum generator, with a Ø1.0 nozzle diameter, NC supply valve, NC Air breaking, NPN vacuum gauge specifications, Ø6 vacuum interface, through exhaust (Ø8), assembled into 6 positions, and its order code is: EZA2V10K-N-06-D-6F.

EZAV/EZA2V Integrated Vacuum Generator (Multi-pin Type)

◎ Performance Parameter

Model specifications	Rated air supply pressure Mpa	Maximum vacuum–kPa	Maximum vacuum flow NL/min	Single generator air consumption NL/min	Air supply interface mm	Vacuum interface mm	Noised B(A)
EZAV/EZA2V 07–	0.35	85	26	15	2– ϕ 8	ϕ 6 / ϕ 8	62
EZAV/EZA2V 10–	0.35	85	45	40	2– ϕ 8	ϕ 6 / ϕ 8	74

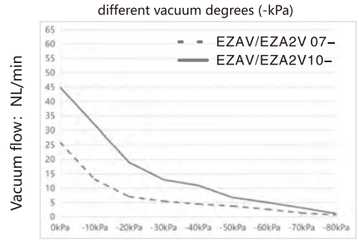
◎ Vacuum flow rate at different vacuum degrees (–kPa)(NL/min)

Model specifications	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAV/EZA2V 07–	0.35	15	26	13.1	7.1	5.5	4.5	3.8	2.7	1.4	0.4	85
EZAV/EZA2V 10–	0.35	40	45	32	19	13	11	6.8	5.1	3.2	1.2	85

◎ Suction time at different vacuum degrees (–kPa)

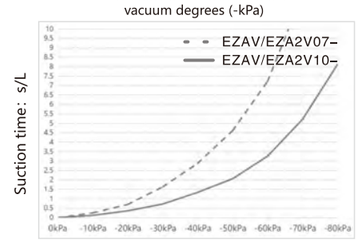
Model specifications	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAV/EZA2V 07–	0.35	15	0	0.25	0.70	1.63	2.68	4.61	7.23	11.85	18.77	85
EZAV/EZA2V 10–	0.35	40	0	0.12	0.36	0.72	1.34	2.06	3.26	5.21	8.12	85

EZAV- Vacuum flow rate at different vacuum degrees (-kPa)



Vacuum degree: -kPa

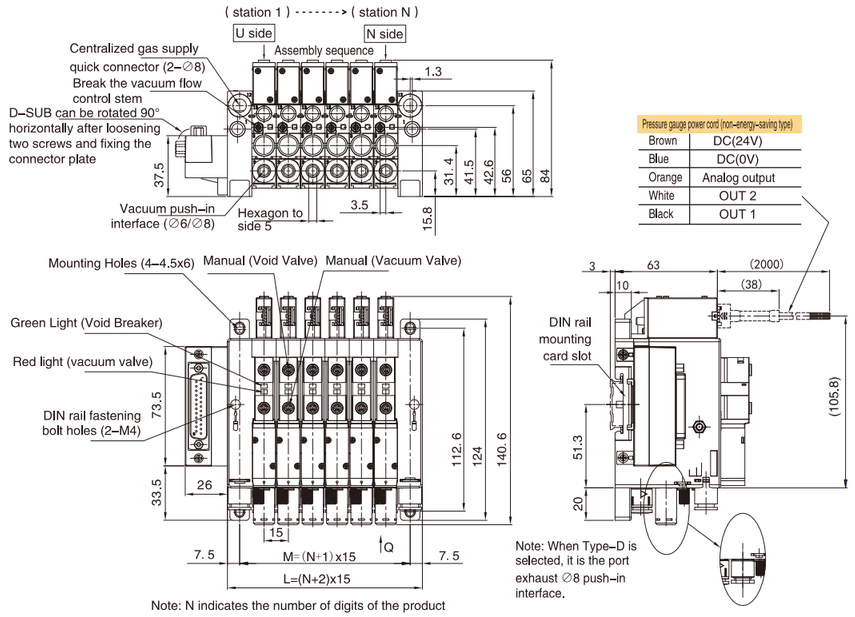
EZAV-Suction time at different vacuum degrees (-kPa)



Vacuum degree: -kPa

◎ Dimensions(mm)

EZAV□–N/P with vacuum gauge outline drawing

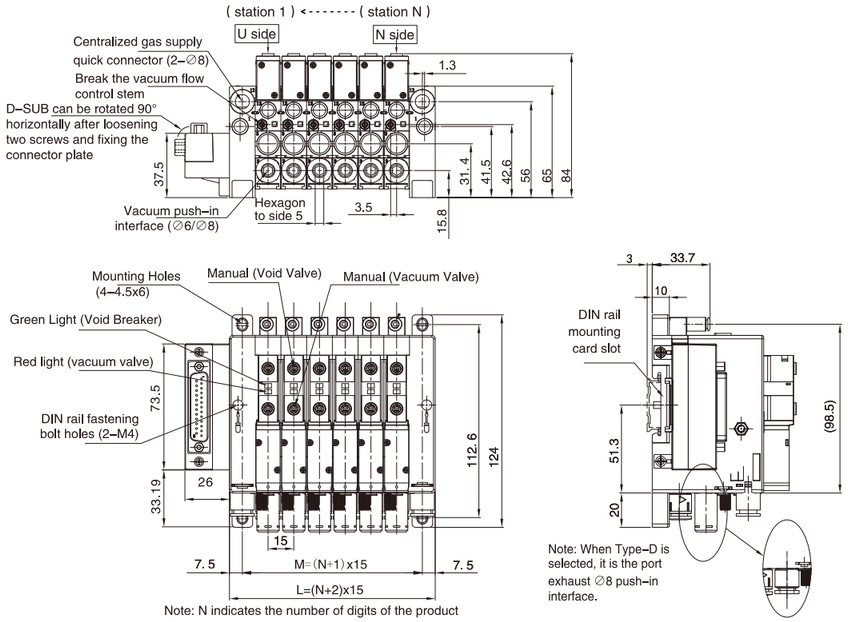


Note: N indicates the number of digits of the product

6
EZAV EZA2V

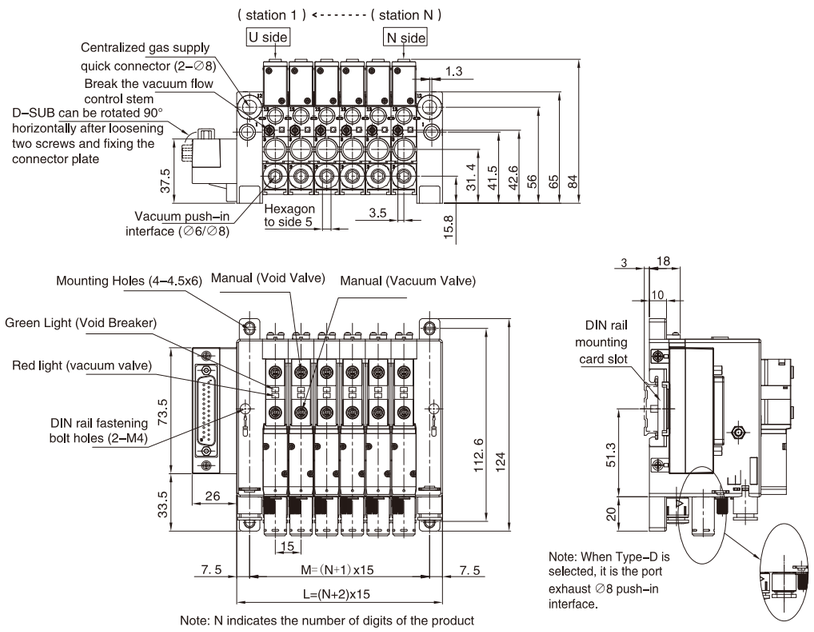
Main Dimension

EZAV□–W External vacuum detection outline drawing



Note: N indicates the number of digits of the product

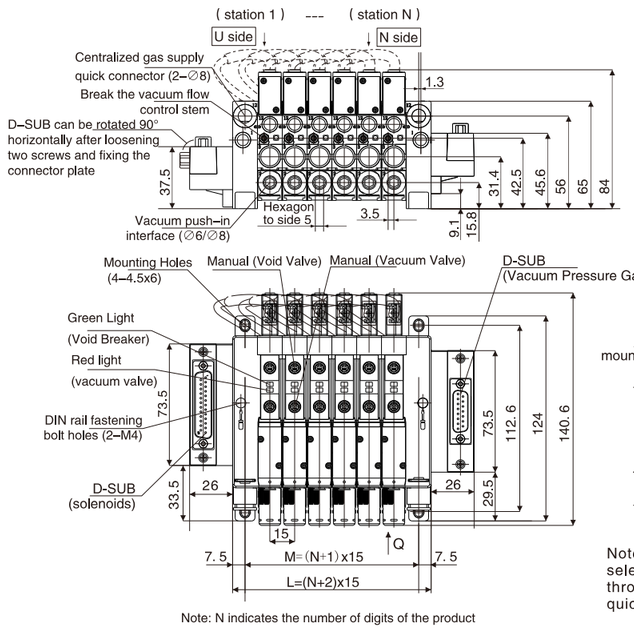
EZAV□– Outline without vacuum pressure gauge



Note: N indicates the number of digits of the product

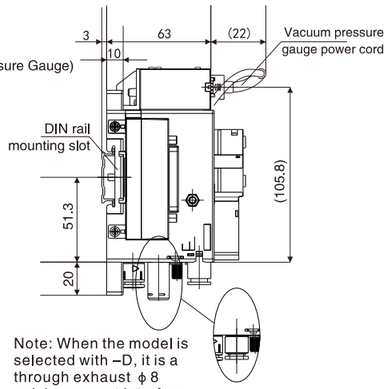
Main Dimension

EZA2V□–N/P with vacuum gauge outline drawing



Maximum number of positions that can be opened simultaneously in the assembled style

Air intake method	Air intake diameter	EZA□07	EZA□10	Self holding type
Single side air intake	1– ϕ 8	8 Links	6 Links	4 Links
Dual–side air intake	2– ϕ 8	10 Links	9 Links	6 Links
Number of positions not opened simultaneously		12 Links	12 Links	12 Links



Note: When the model is selected with –D, it is a through exhaust ϕ 8 quick–connect interface.

Note: N indicates the number of digits of the product

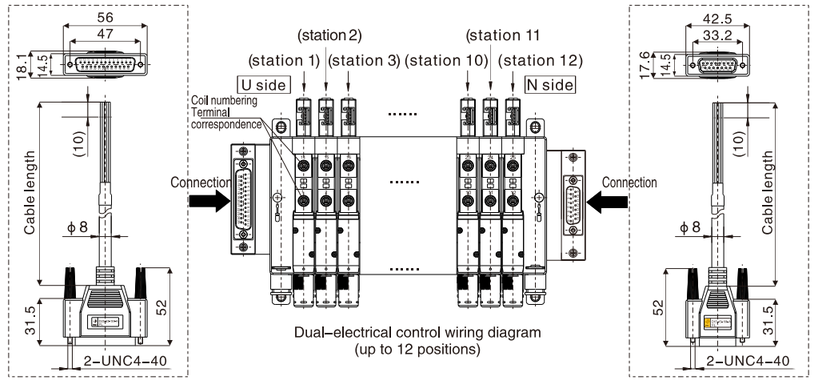
How to Order? Multi–pin cable

Cable core count	–	Connector Series	–	Cable length	–	Injection molding
D25: 25–pin D–sub connector		25:25 cores (Not more than 12 links) 15D: 15 cores (Not more than 7 links)		1M: Cable length 1 m 2M: 2 m cable length 3M: Cable length 3 m ..... Remarks: The cable length can be customized		A

Cable core count	–	Cable core count	–	Cable length	–	Recognition code	–	Injection molding
D25: 25–pin D–sub connector		25:25 cores(Not more than 12 links) 16D: 16 cores (Not more than 7 links)		1M: Cable length 1 m 2M: 2 m cable length 3M: Cable length 3 m ..... Remarks: The cable length can be customized		TL: Flexible towline cable		A

Cable core count	–	Cable core count	–	Cable length	–	Recognition code	–	A
D15:15–pin D–sub connector		15：15 cores		1M: Cable length 1 m 2M: 2 m cable length 3M: Cable length 3 m ..... Remarks: The cable length can be customized		No：Standard Cable TL：Flexible towline cable		Injection molding

◎ EZAV/EZA2V Multi-needle Position Wiring Diagram



U side 25–pin D–SUB multi–needle cable

N side 15–pin D–SUB multi–needle cable

Pin Correspondence Table (U side 25–pin D–SUB for Solenoid V (U side 25–pin D–SUB multi–needle cable)

Terminal Number	White Cable (Standard)		Gray Cable(Flexible Drag Chain)		Wiring Description
	D25–25	D25–15D	D25–25	D25–16D	
1	Red Black	Red Black	Purple	Purple	1# Vacuum Valve
2	Red Whitel	Red	Orange	Orange	2# Vacuum Valve
3	Red	Orange Black	Pink	Pink	3# Vacuum Valve
4	Orange Black	Orange	Gray	Gray	4# Vacuum Valve
5	Orange White	Yellow Black	White	White	5# Vacuum Valve
6	Orange	Yellow	Red	Red	6# Vacuum Valve
7	Yellow Black	Pink	Green	Green	7# Vacuum Valve
8	Yellow	–	Black	–	8# Vacuum Valve
9	Pink Black	–	Purple with 1 dot	–	9# Vacuum Valve
10	Pink	–	Orange with 1 dot	–	10# Vacuum Valve
11	Blue White	–	Pink with 1 dot	–	11# Vacuum Valve
12	Blue	–	Gray with 1 dot	–	12# Vacuum Valve
13	Black	Black	Yellow	Black	COM
14	Green	Blue	White with 1 dot	White with dots	1# Vacuum Break Valve
15	Purple White	Green	Red with 1 dot	Red with dots	2# Vacuum Break Valve
16	Purple	Light Green	Green with 1 dot	Green with dots	3# Vacuum Break Valve
17	Brown White	Purple	Black with 1 dot	Black with dots	4# Vacuum Break Valve
18	Brown	White	Purple with 2 dots	Purple with dots	5# Vacuum Break Valve
19	Green Black	Brown	Orange with 2 dots	Orange with dots	6# Vacuum Break Valve
20	Gray Black	Gray	Pink with 2 dots	Pink with dots	7# Vacuum Break Valve
21	Gray	–	Gray with 2 dots	–	8# Vacuum Break Valve
22	White Black	–	White with 2 dots	–	9# Vacuum Break Valve
23	White	–	Red with 2 dots	–	10# Vacuum Break Valve
24	Green White	–	Green with 2 dots	–	11# Vacuum Break Valve
25	Light Green	–	Black with 2 dots	–	12# Vacuum Break Valve

Pin Correspondence Table (U side 25–pin D–SUB for Solenoid Valves) (N side 15–pin D–SUB multi–needle cable)

Terminal Number	White Cable (Standard) Gray Cable(Flexible Drag Chain)		Wiring Description
	D15–15	D15–15(TL)	
1	Red Black	Red Black	1# Pressure gauge switch quantity
2	Red	Red	2# Pressure gauge switch quantity
3	Orange Black	Orange Black	3# Pressure gauge switch quantity
4	Orange	Orange	4# Pressure gauge switch quantity
5	Yellow Black	Yellow Black	5# Pressure gauge switch quantity
6	Yellow	Yellow	6# Pressure gauge switch quantity
7	Pink	Pink	7# Pressure gauge switch quantity
8	Blue	Blue	8# Pressure gauge switch quantity
9	Green	Green	9# Pressure gauge switch quantity
10	Light Green	Light Green	10# Pressure gauge switch quantity
11	Purple	Purple	11# Pressure gauge switch quantity
12	White	White	12# Pressure gauge switch quantity
13	Brown	Brown	/
14	Gray	Gray	Connect to power "0V"
15	Black	Black	Connect to power "24V"

NOTE: The above table is for Double Multi only, do not wire with electricity.

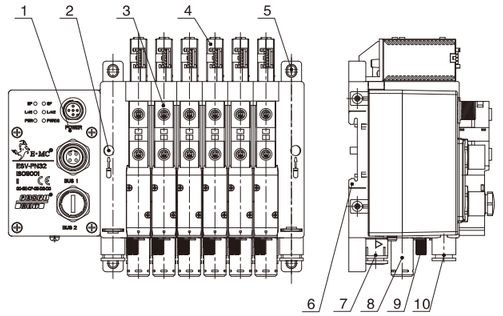
EZAJ

Intergrated Vacuum Generator (Fieldbus Type)



◎ Applications / Features

- Multi–piece assembled EZA integrated vacuum generator structure, adopts centralized air supply, making tubing more convenient.
- Solenoid valve wiring adopts fieldbus module, making it more compact. Types of filedbus communication protocols available (PROFINET, EtherCAT, EtherNet/IP, DeviceNET, I/O Link).
- Built–in integrated vacuum, vacuum breaking, silencor, self–holding and other functions.
- Built–in quick–replaceable vacuum filter makes installation and removal faster.
- Silencing exhaust and vent exhaust can be freely selected.
- 35mm clamp rail installation and screw hole installation combined, to meet different installation needs.
- Shielded cables have strong anti–interference ability and stable communication.



1.Fieldbus module.(Separate cable selection)
2.Guide rail fixing bracket, fastening bolt holes.
3.Monolithic integrated vacuum generator (assembled type).
4.Digital vacuum pressure gauge (optional).
5.Installation holes (4–4.5X6).
6.35mm rail mounting slot.
7.Vacuum interface (Φ6 / Φ8).
8.External silencer/through hole scheduling interface (Φ8).
9.Vacuum breaking flow adjustment valve rod.
10.Air supply interface (2–Φ8).

◎ How to Oder?

SERIES CODE	NOZZLE DIAMETER	□	—	Vacuum gauge specifications	—	Vacuum interface	—	Exhaust type	—	Assembly links	—	Fieldbus Type
EZAJ: Integrated vacuum generator	07:Ø0.7 10:Ø1.0			Blank:Without gauge W:External vacuum detection N:Type NPN P:Type PNP		06:Ø6 08:Ø8		Blank: silencer(default) D: Exhaust port (φ8)		2F: 2 links 4F: 4 links 6F: 6 links 8F: 8 links 10F: 10 links 12F: 12 links		

Code	supply valve	Vacuum breaking valve
K	NC	NC
R	Self–holding	NC

Note: R–Type is not available with an energy–saving vacuum gauge. When R–type is energized for more than 20ms, vacuum occurs and continues. When the vacuum is energized, the vacuum stops.

code	Fieldbus Type	Output Point
PN32	PROFINET	32
EC32	EtherCAT	32
EP32	EtherNet/IP	32
DN32	DeviceNet	32
LK32	I/O Link	32

Containerized maximum simultaneous opening positions

Intake method	Intake caliber	EZA□07	EZA□10	Self–maintaining
Unilateral intake	1–Ø8	8 links	6 links	4 links
Both sides intake	2–Ø8	10 links	9 links	6 links
non–simultaneous open digit		12 links	12 links	12 links

Order Example:

EZAJ Fieldbus Vacuum Generator, ø1.0 nozzle diameter, NC supply valve, NC vacuum breaking valve, NPN vacuum gauge, ø6 vacuum interface, exhaust port(ø8), set installation digits 6F, PROFINET fieldbus type, 32 output. Order Code: EZAJ10K-N-06-D-6F-PN32

◎ Performance Parameter

Model specifications	Rated air supply pressure Mpa	Maximum vacuum–kPa	Maximum vacuum flow NL/min	Single generator air consumption NL/min	Air supply interface mm	Vacuum interface mm	Noised B(A)
EZAJ 07–	0.35	85	26	15	2– φ8	φ6 / φ8	62
EZAJ 10–	0.35	85	45	40	2– φ8	φ6 / φ8	74

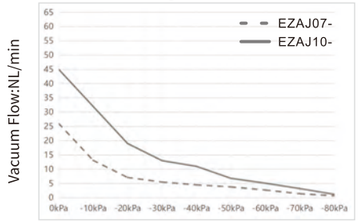
◎ Vacuum Flow Rate of Different Degrees(-kPa)(NL/min)

Model	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAJ 07–	0.35	15	26	13.1	7.1	5.5	4.5	3.8	2.7	1.4	0.4	85
EZAJ 10–	0.35	40	45	32	19	13	11	6.8	5.1	3.2	1.2	85

◎ Suction time at different vacuum degrees (–kPa)

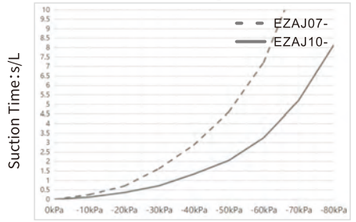
Model	Rated air supply pressure Mpa	Single generator air consumption NL/min	0	10	20	30	40	50	60	70	80	Maximum vacuum–kPa
EZAJ 07–	0.35	15	0	0.25	0.70	1.63	2.68	4.61	7.23	11.85	18.77	85
EZAJ 10–	0.35	40	0	0.12	0.36	0.72	1.34	2.06	3.26	5.21	8.12	85

EZAJ Vacuum Flow Rate of Different Degrees(-kPa)(NL/min)



Vacuum Degree:-kPa

EZAJ Suction Time of Different Vacuum Degrees(-kPa)(s/L)



Vacuum Degree:-kPa

Bus Type (Integral) Vacuum Generator

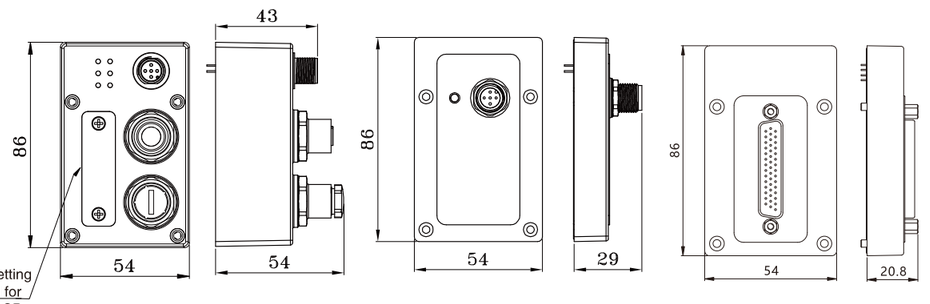
SERIES CODE	NOZZLE DIAMETER	□	—	Vacuum gauge specifications	—	Vacuum interface	—	Exhaust type	—	Assembly links	—	Fieldbus Type
EZAJ: Bus Type (Integral) Vacuum Generator	07:Ø0.7 10:Ø1.0	Code: K — supply valve: NC — Vacuum breaking valve: NC		T: Sensor Type		06:Ø6 08:Ø8		None: Silencer (default) D: Exhaust Port (Ø8)		2F: 2 links 4F: 4 links 6F: 6 links 8F: 8 links 10F: 10 links 12F: 12 links		code: Ec24 — Fieldbus Type: EtherCAT — Output Point: 24

Containerized maximum simultaneous opening positions				
Intake method	Intake caliber	EZA□07	EZA□10	Self–maintaining
Unilateral intake	1–Ø8	8 links	6 links	4 links
Both sides intake	2–Ø8	10 links	9 links	6 links
non–simultaneous open digit		12 links	12 links	12 links

Order Example:

EZAJ Bus Type (Integral) Vacuum Generator, with a nozzle diameter of Ø1.0, NC supply valve, NC exhaust valve, T vacuum gauge specification, vacuum interface of Ø6, exhaust port (Ø8), 6 positions for assembly, EtherCAT protocol, and 24 outputs.
The order code is: EZAJ10K-T-06-D-6F-FC32

◎ Control module



PN/EC/EP/DN/CC/CP Protocol Control Modules | IO–Link protocol control module | DB44 Control Module Form Factor

PS: Except for the control module, ESV–DB44/LK/EC/PN/EP/DN/CC/CP series have the same overall dimensions.

EZAJ Series Intergrated Vacuum Generator (Fieldbus Type)

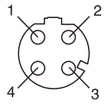
◎ EZAJ Bus Module Specification Sheet

Specification	EZAJ–PN32	EZAJ–EC32	EZAJ–EP32	EZAJ–DN32	EZAJ–LK32
communication protocol	PROFINET	EtherCAT	EtherNet / IP	DeviceNet	I/O Link
Output points	32				
configuration files	GSDML	XML	EDS	EDS	IODD
Baud rate	100 Mbps			125/250/500 Kbps	COM2(38.4Kbps)
Power Control – Voltage	DC24V(DC22.6 ~ 26.4V)				
Power Control – Current	⩽120 mA			⩽50 mA	⩽25 mA
Output supply voltage	DC24V(DC22.6 ~ 26.4V)				
Power interface	M12 plug, 5–pin, A encode				
Fieldbus interface	2 x M12 plug, 4 holes, D–coded			M12 plug+M12 socket,5holes,A–coded	Class B
Device specific diagnosis	System diagnosis, communication error, short circuit protection, open circuit detection, reverse protection, over and under voltage diagnosis				System diagnosis, communication error, short circuit protection
Protection level	IP40				
Storage temperature	–20 ~ 70℃				
Storage temperature	–10 ~ 60℃				–10 ~ 50℃

Power interface

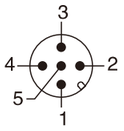
Pin	Name	Description
1	PS24	Control voltage+24V
2	PL24	Load valve operating voltage+24V
3	PS0	Control voltage 0V
4	PL0	Load valve operating voltage 0V
5	FE	Grounding

PN/EC/EP fieldbus Interface

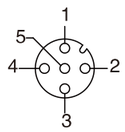


Pin	Name	Description
1	TD+	TD+
2	RD+	RD+
3	TD–	TD–
4	RD–	RD–

DN Fieldbus interface



BUS IN

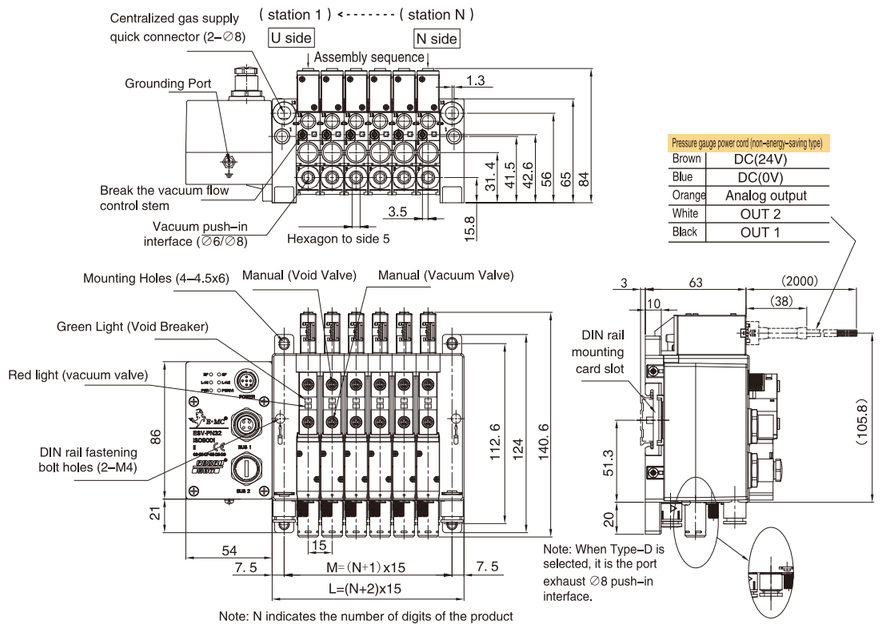


BUS OUT

Pin	Name	Description
1	DRAIN	Shield
2	V+	24v+
3	V–	24v–
4	CAN_H	High Level Signal
5	CAN_L	Low Level Signal

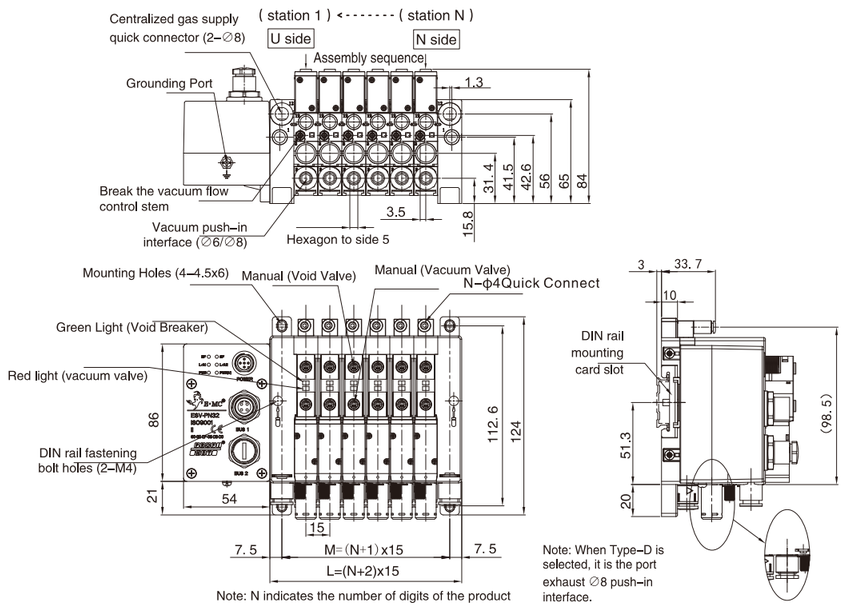
◎ Dimensions(mm)

EZAJ□–N/P Vacuum Pressure Gauge with Separate Wiring Diagram



Note: N indicates the number of digits of the product

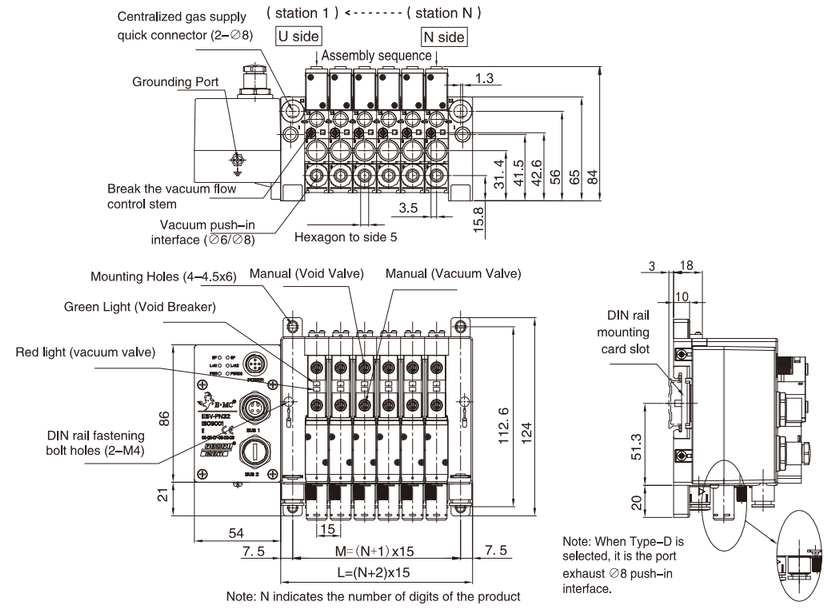
EZAJ□–W External Vacuum Detection Schematic Diagram



Note: N indicates the number of digits of the product

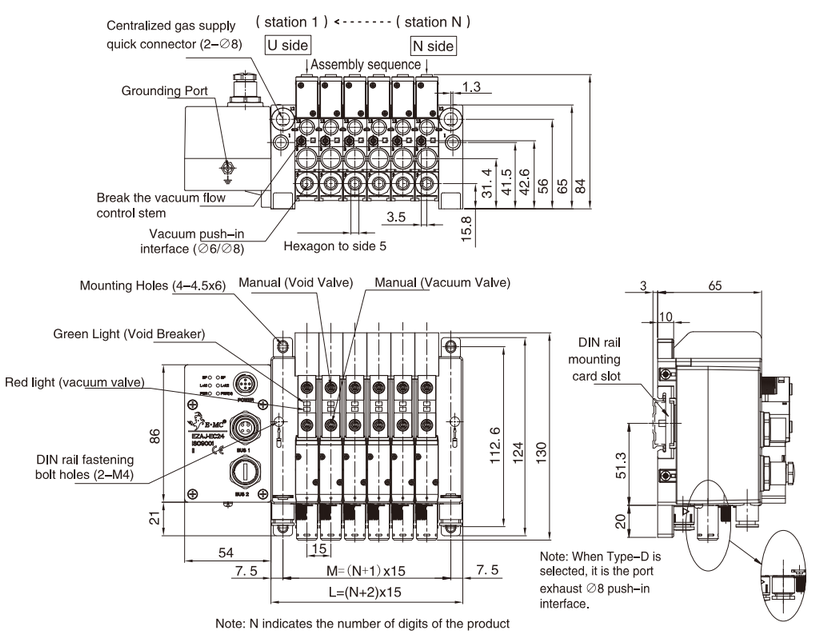
◎ Dimensions(mm)

EZAJ without Vacuum Pressure Gauge Schematic Diagram



Note: N indicates the number of digits of the product

EZAJ□–T–□EC24 Pressure Sensor Schematic Diagram with Pressure Sensor on Bus Line



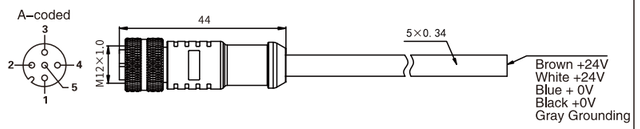
Note: N indicates the number of digits of the product

Cable Ordering Code

PN/EC/EP/DN power cable (unshielded)

M125 □ – PVC – □

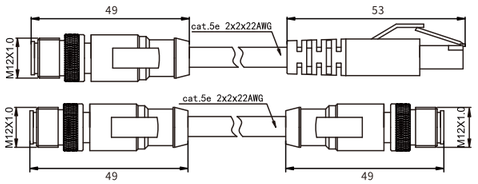
- M12 Female 5 cores power cable
- R:Straight–through type
  RL:Rectangular type
- 2M: 2 meters
  5M: 5 Meters (Other length coild be customized)

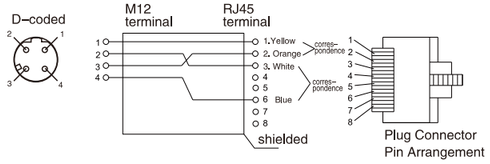


PN/EC/EP bus cable(shielded)

ESV–EN – □ – □

- Ethernet Fieldbus wiring
- M12RJ:M12male connectors↔RJ45
  M12M12:M12male connectors↔M12male connectors
- 2M: 2 meters
  5M: 5 Meters (Other length coild be customized)





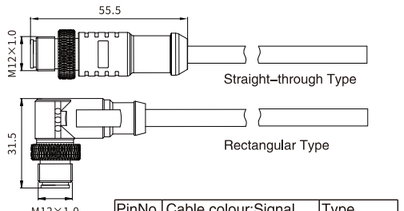
DN Bus cable (shielded)

ESV – Protocol – □ – □

- DN:DeviceNet/CANopen
  CC:CC–Link
- 2M: 2 meters
  5M: 5 Meters (Other length coild be customized)

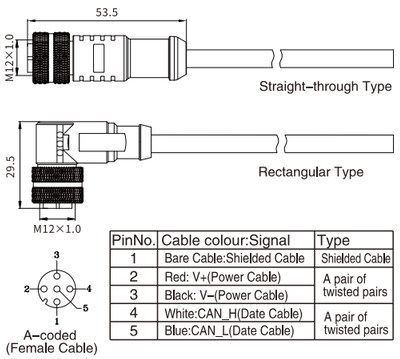
M12： M12 Female (Straight–through type)
M12L： M12 Female (Rectangular type)
M12F: M12 Male (Straight–through type)
M12FL: M12 Male (Rectangular type)
M12M12: M12 Male&Female (Straight–through type)
M12M12L: M12 Male&Female (Rectangular type)

DN Male Cable (Shielded)



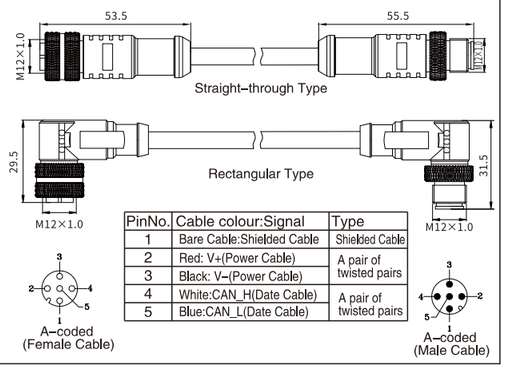
PinNo.	Cable colour:Signal	Type
1	Bare Cable:Shielded Cable	Shielded Cable
2	Red: V+(Power Cable)	A pair of twisted pairs
3	Black: V–(Power Cable)	
4	A–coded (Male Cable)White:CAN_H(Date Cable)	A pair of twisted pairs
5	Blue:CAN_L(Date Cable)	

DN Female Cable (Shielded)



PinNo.	Cable colour:Signal	Type
1	Bare Cable:Shielded Cable	Shielded Cable
2	Red: V+(Power Cable)	A pair of twisted pairs
3	Black: V–(Power Cable)	
4	White:CAN_H(Date Cable)	A pair of twisted pairs
5	Blue:CAN_L(Date Cable)	

DN Male Cable (Shielded)



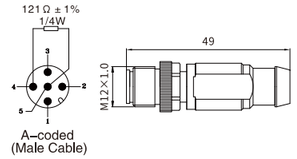
PinNo.	Cable colour:Signal	Type
1	Bare Cable:Shielded Cable	Shielded Cable
2	Red: V+(Power Cable)	A pair of twisted pairs
3	Black: V–(Power Cable)	
4	White:CAN_H(Date Cable)	A pair of twisted pairs
5	Blue:CAN_L(Date Cable)	

Cable Ordering Code

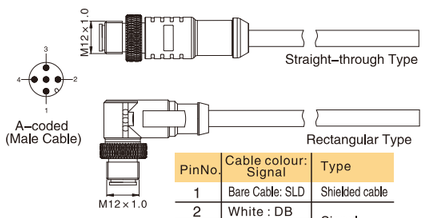
DeviceNet terminal resistance

Series – Communication Protocal – R

- ESV
- DN： DeviceNet
- R:terminal resistance

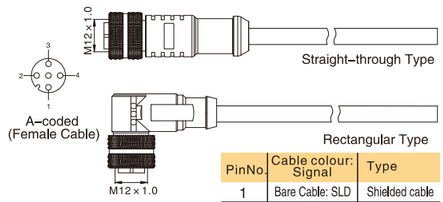


CC Male Cable(Shielded)



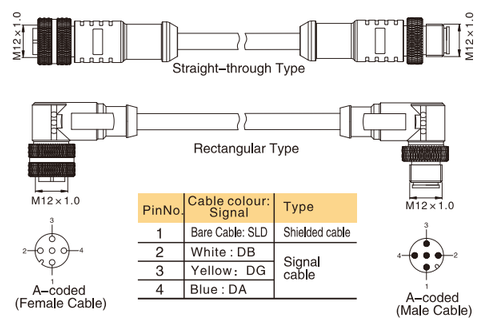
PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow： DG	
4	Blue : DA	

CC Female Cable(Shielded)



PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow： DG	
4	Blue : DA	

CC Male&Female Cable (Shielded)



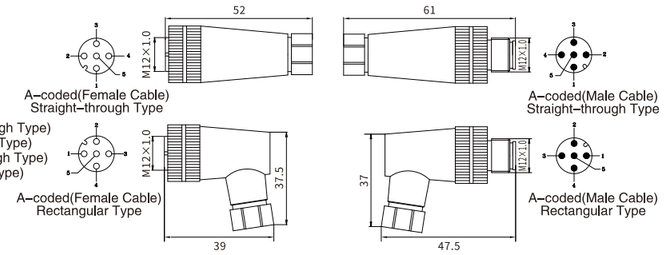
PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow： DG	
4	Blue : DA	

5–Cores Connector (M12–A Code)

M125 □

- 5–Cores Connector (M12–A Code)
- R： Rotating Female Straight–through Type)
  RL： Rotating Female(Rectangular Type)
  RF： Rotating Male (Straight–through Type)
  RFL： Rotating Male Rectangular Type)

Note: these connectors can be used as power cable or communication cable for DeviceNet / CC Link



LED Indicators

PROFINET

BF ○ ○ SF
L/A1 ○ ○ L/A2
PWR ○ ○ PWR(V)

Indicators	Status	Meaning
BF	Red light on	Communication not connected; Duplicate IP address/device name
	Red light flash	Module is connecting with PN master station, IP address or device name duplicated
SF	Green light on	System is normal
	Red light flash	Short circuit of power supply, open circuit of load, reverse connection protection, upper limit of counting
L/A1	Yellow light on	BUS1 PROFINET connection
	OFF	BUS1 no internet connection
	Yellow light flash	BUS1 internet connection
L/A2	Yellow light on	BUS2 PROFINET connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low

EtherNet/IP

NS ○ ○ MS
L/A1 ○ ○ L/A2
PWR ○ ○ PWR(V)

Indicators	Status	Meaning
NS	OFF	Operating voltage not connected or IP address not set
	Red light flash	EtherNet/IP Communication timeout
	Green light flash	EtherNet/IP Communication not established
	Green light on	System is normal
MS	Red light flash	Short circuit of power supply, open circuit of load, reverse connection protection, upper limit of counting
	Green light on	System is normal
L/A1	Yellow light on	BUS1 EtherNet/IP connection
	OFF	BUS1 no internet connection
	Yellow light flash	BUS1 internet connection
L/A2	Yellow light on	BUS2 PROFINET connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low

EtherCAT

RUN ○ ○ ERR
L/A IN ○ ○ L/A OUT
PWR ○ ○ PWR(V)

Indicators	Status	Meaning
RUN	OFF	Initial Status
	Green light flash	Pre-operational status
	Green light on	System is normal
ERR	OFF	normal Initial
	Red light flash	Initial failure
L/A IN	Green light on	BUS1 EtherCAT connection
	OFF	BUS1 no internet connection
	Green light flash	BUS1 internet connection
L/A OUT	Yellow light on	BUS2 EtherCAT connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low; Reverse power connection

DeviceNet

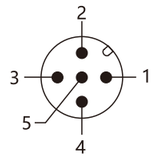
NS ○ ○ MS
PWR ○ ○ PWR(V)

Connection Indicators	NS	MS	Meaning
	OFF	OFF	No internet connection
	OFF	Red light on	Offline status, watchdog timer error
	OFF	Red light flash	Parameter writing error
	Red light on	Green light on	Bus off, MAC ID duplicate
	Red light flash	Green light flash	IO connection timeout
	Green light on	Green light on	Connection normal

Power Indicators	PWR	PWR(V)	Meaning
	OFF	OFF	Module not powered
	Green light on	Red light flash	Load without supply
	Red light on	Green light on	Module voltage too high
	Red light flash	Green light on	Module voltage too low
	Green light on	Red light on	Load voltage too high
	Green light on	Red light flash	Load voltage too low
	Green light on	Green light on	Supply normal

Power Interface

Power interface(M12, A code, Class B)



Pin	Type	Description
1	PS24	+24V Control voltage
2	PL24	+24V Operating voltage of load valve
3	PS0	0V control voltage
4	C/Q	Data communication(IO-LINK)
5	PL0	0V operating voltage of load valve

LED Indicators

LED Indicators	Status	Meaning
X1	OFF	Abnormal power supply
	Green on	Normal power supply, no establish protocls
	Red on	Fault or abnormal load power supply
	Green flsah	Normal working

Wiring

M125 □ — PVC — □

- M125: M12 Female 5 cores single connecting cable
- □: R: Straight connector type; RL: Angled connector type
- PVC
- □: 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

M12M125 □ — PVC — □

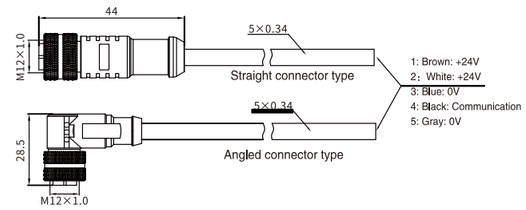
- M12M125: M12 Female, 5 cores double connecting cable
- □: R: Straight connector type: M12 male connectors --- M12 Femal connectors; RL: Angled connector type: M12 male connectors --- M12 Femal connectors
- PVC
- □: 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

M12YM12 □ — PVC — □

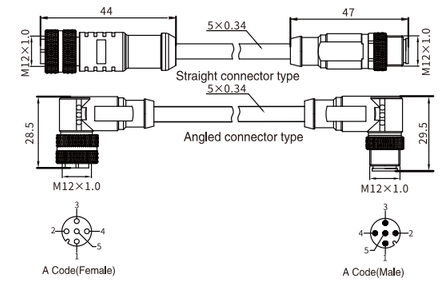
- M12YM12: M12 Female, Y type connectors
- □: R: Straight connector type; RL: Angled connector t e yp
- PVC
- □: 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

Wiring

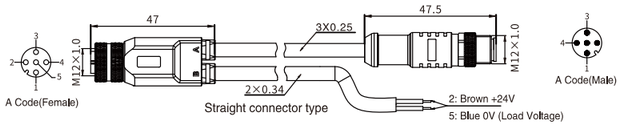
M12 Female 5 cores single connecting cable(Class B)



M12 Female,5 cores double connecting cable(Class B)



M12 Female, Y type connectors(Class A to Class B)



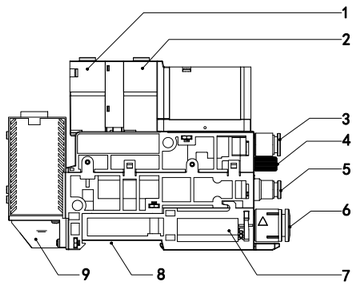
EZP

External Vacuum Control Unit



◎ Applications / Features

- Built in low power solenoid valve has higher stability and longer service life.
- Built in intergarted external vacuum control, vacuum breaking control, vacuum breaking flow regulating, vacuum pressure gauge, vacuum filtration, air supply filtration.
- Two installation modes, including intergarted lateral hole installation, 35mm clamp rail stallation.
- Built in quick replaceable vacuum filter makes installation and removal faster.
- External vacuum supply valve, optionally equipped with self–holding type.



1. Vacuum breaking valve (Positive pressure vacuum blowback control the power–on green light is on)
2. Vacuum supply valve (External vacuum control the power–on red light is on)
3. External vacuum interface (ϕ 6)
4. Positive pressure vacuum blowback flow regulating valve
5. Positive pressure air intake (ϕ 4)
6. Vacuum chuck port interface (ϕ 6/ ϕ 8)
7. Vacuum filtration observation window
8. 35mm clamp rail installation
9. Digital Pressure Switch (Optional)

◎ How to Order?

Series NO	—	□	—	Vacuum Gauge Specification	—	Positive pressure intake interface	—	Vacuum Chuck Port Interface	—	Mounting Bracket
EZP: EZP series				Without:Without N: Type NPN P: Type PNP		None: Ø4 trachea plugged (default) 06: Insert Ø 6 trachea		06: insert Ø6 tube 08: insert Ø8 tube		Without: Without (default) B: L–type mounting bracket

Code	Supple Valve	Air Breaking Valve
K	NC	NC
R	Self–holding type	NC

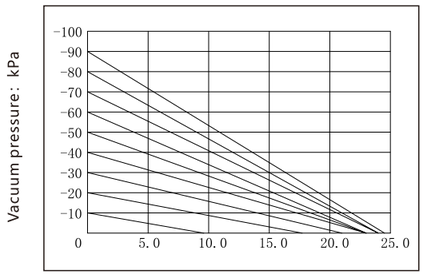
Note: When the R–type is energized for more than 20ms, supply valve open and hold, vacuum breaking valve is energized, and supply valve stop.

Order Example: EZP series Vacuum Pump, vacuum supply valve NC, vacuum breaking valve NC, NPN Type vacuum gauge, insert ϕ 8 tube, with L–type mounting bracket, the ERP code is: EZP–K–N–08–B

◎ Max. Suction Flow of Different Degrees (-kPa) (NL/min)

Specifications and Models	-10	-20	-30	-40	-50	-60	-70	-80	-90
EZP-	9.3	17	21	22	23	23	24	24	24.5

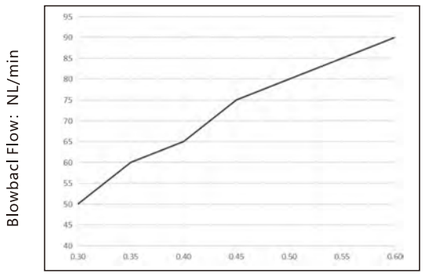
Max. Suction Flow of Different Degrees (-kPa) (NL/min)



◎ Max. Blowbacl Flow of Different Degrees(NL/min)

Specifications and Models	0.30MPa	0.35MPa	0.45MPa	0.50MPa	0.55MPa	0.60MPa
EZP-	50	60	75	80	85	90

Max. Blowbacl Flow of Different Degrees (NL/min)

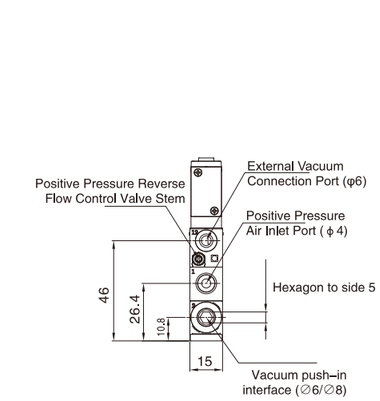


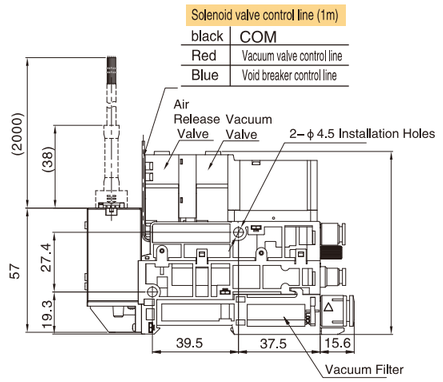
◎ Performance Parameter

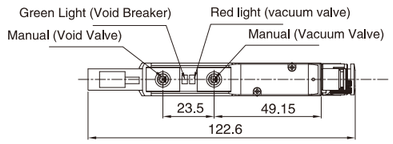
Specifications and Models	Supply Pressure (Mpa)	Max. Suction Flow (NL/min)	External Vacuum Interface(mm)	Vacuum Chuck Port Interface (mm)	Positive Pressure Air Intake(mm)
EZP-	0.3-0.6	24.5	∅6	∅6 /□ 8	∅4

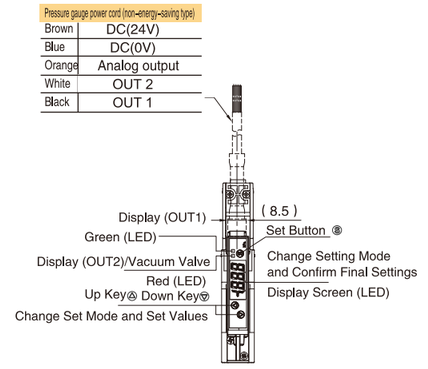
◎ Main Dimension

EZP□–N/P Vacuum Pressure Gauge Schematic Diagram



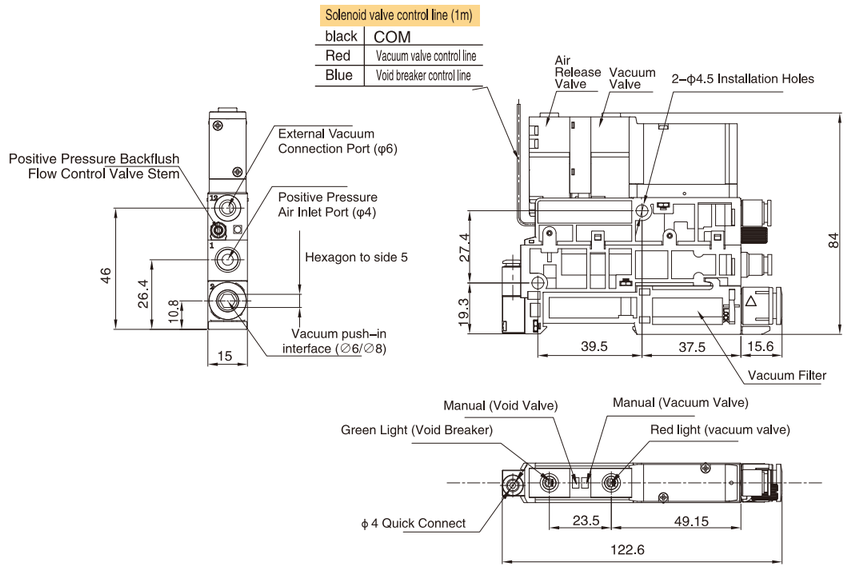




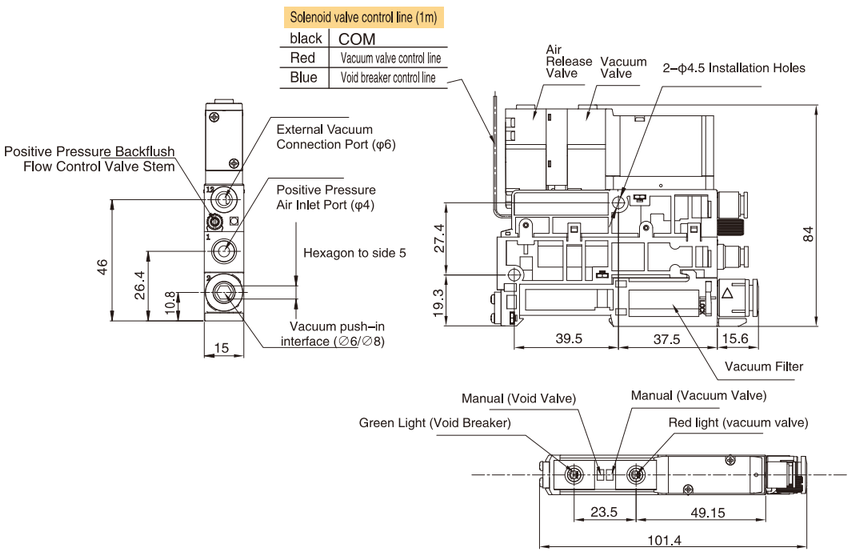


LED Indicators

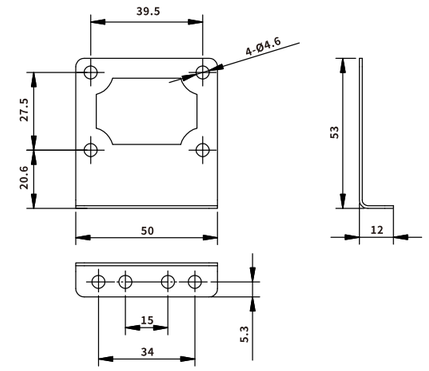
EZP□–W External Vacuum Detection Schematic Diagram



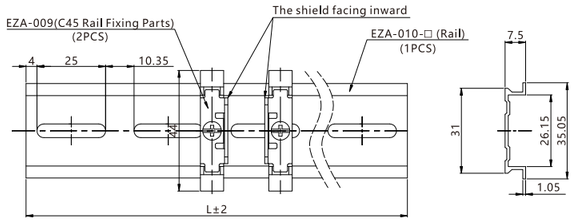
EZP□ without Vacuum Pressure Gauge Schematic Diagram



L-type Mounting Bracket



Rail Installation Dimensions and Model



Model	Rail Length (L)	Applicable Links
FJ–EZA–D3	103.5	2~4 Links
FJ–EZA–D4	139	5~6 Links
FJ–EZA–D5	174.5	7~8 Links
FJ–EZA–D6	210	9~11 Links
FJ–EZA–D7	245	12~13 Links
FJ–EZA–D8	280.5	14~16 Links
FJ–EZA–D9	316	17~18 Links
FJ–EZA–D10	351	19~20 Links

Operating instructions (non energy-saving) V2.0

Notes

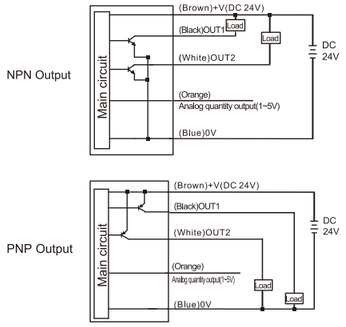
- Do not use corrosive and inflammable gas or any liquid.
- Use it within the specified operating pressure. Otherwise it can cause damage to the pressure switch or inability to measure correctly.
- Do not drop, hit or apply shock to the Pressure switch. Otherwise damage to the internal parts can result, causing malfunction.
- Turn off the power before connecting the wires. Because it can cause damage due to the wrong wiring or short circuit.
- Do not use in an environment with spattering liquid of oil or solvent.
- This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Separate power lines from high voltage lines,avoiding wiring in the same conduit with these lines.

A.Specifications

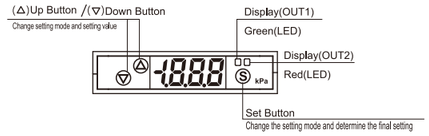
Product No.		Compound Pressure
Rated pressure range※		-105.0~100.5kPa
Set pressure range※		-100.0~100.kPa
Withstand pressure		500kPa
Applicable fluid		Air, non-corrosive gas and non-flammable gas
Display/Min. setting unit		kPa：0.1 kgf/cm²：0.001 bar：0.001 psi：0.01 inHg：0.1 mmHg：1
Power supply voltage		24 VDC ±10%, ripple max. 10%
Current consumption		≤40mA
Switch output	Output type	2 switching value (NPN/PNP adjustable) + 1 Analog (Voltage) output
	Maximum load current	125mA
	Maximum applied voltage	24V DC
	Internal voltage drop/Residual voltage	≤1.5V
Display accuracy		± 0.2%F.S. ± 1 digit
Response time		≤2.5ms (Malfunction prevention function: 2.5ms,20ms, 100ms, 500ms, 1000ms, 1999ms optional)
Action display light		OUT1:GREEN OUT2:RED
Environment	Enclosure	Ip40
	Ambient temperature range	Operation: 0 to 50 ℃, Storage: -10 to 60 ℃(No condensation)
	Operating humidity range	Operation, Storage: 35 to 85%RH (No condensation)
	Withstand voltage	1000 VAC in 1 minute(between case and lead wire)
	Insulation resistance	50 MΩ or more (at 500 VDC,between case and lead wire)
	Vibration resistance	Total amplitude 1.5mm,10Hz~150Hz~10Hz scan for 1 minute, 2 hours each directions of X,Y and Z
	Impact resistance	Maximun 980m/s(100G) 3 times each in directions of X,Y and Z
Temperature characteristics		±2%F.S. of detected pressure(25 ℃) at temp.(Range of 0~50℃)
Inlet type		90° inlet Port & No Port
Wire specification		Oil-resistance cable(PVC)(0.15mm)
Weigh		Approx. 58g(with 2 meters lead wire)

Note1: Due to temperature and linear compensation, the upper/lower ranges of the gauge may fluctuate slightly. This is normal.
Note2:Factory default :-50kPa.

B.Output Circuit Wiring Diagrams

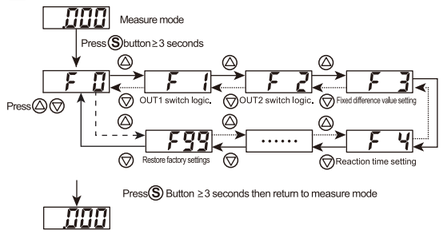


C.Panel Description

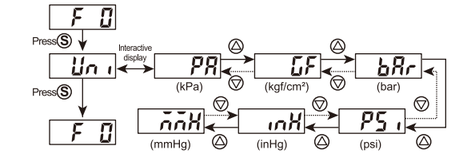


D.Initial Setting Mode

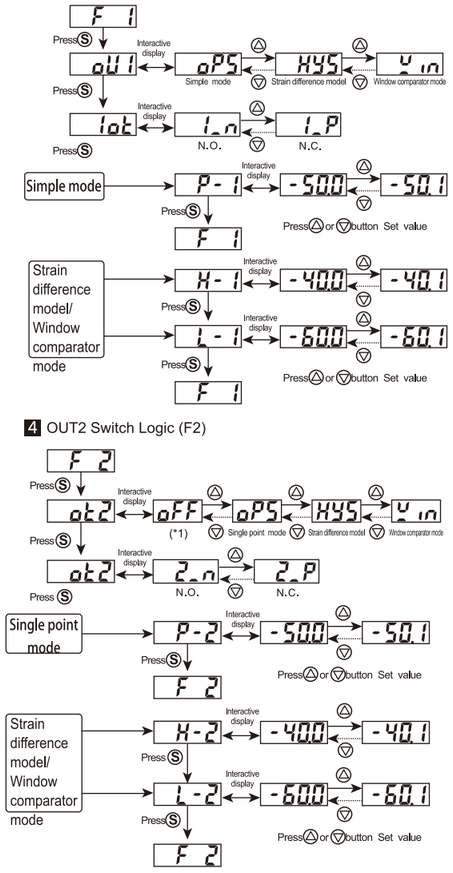
1 Function selection mode



2 Pressure unit(F0)



3 OUT Switch Logic (F1)

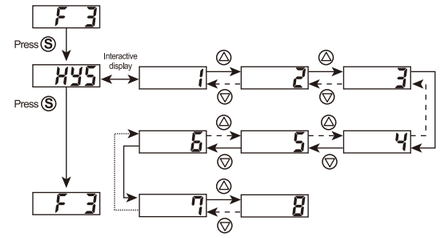


4 OUT2 Switch Logic (F2)

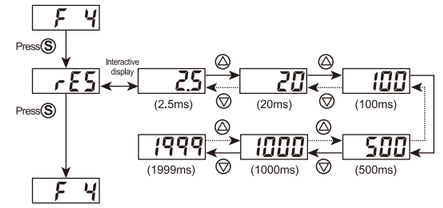
Note(*1) When OUT2 is set to "oFF", skip to the end of F2

Operating instructions (non energy-saving) V2.0

5 Fixed difference value setting(F3)



6 Switch reaction time setting(F4)

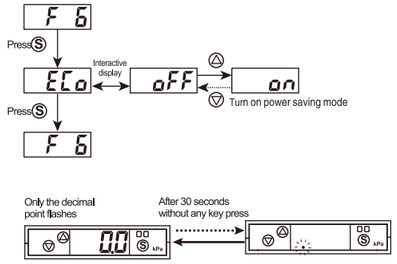


7 Power Save Mode (F6)

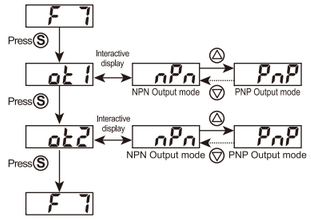
◎ During Power-Save mode, the main display will turned off if no buttons is pressed after 30 seconds.

◎ During Power-Save mode, the output LCD may not be synchronize with the output. It is normal and will not affect output operation.

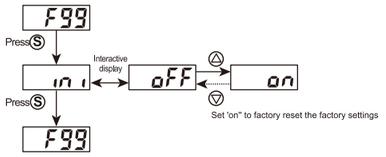
◎ Press any button to turn-on main display temporarily.



8 Output mode setting(F7)

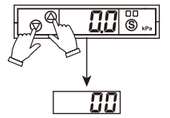


9 Factory reset values(F99)



E.Zero point setting

Perss the △ + ▽ more than 3s at the same time until the "00" is shown.

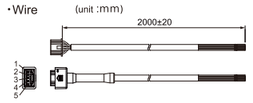


F.Pressure unit translation table

From \ To	kPa	kgf/cm²	mmHg	psi	bar	inHg
1 kPa	1	0.010197	7.500616	0.145038	0.010000	0.2953
1 kgf/cm²	98.0665	1	735.559	14.2233	0.980665	28.95979
1 mmHg	0.13332	0.0013595	1	0.019336	0.0013332	0.039370
1 psi	6.895	0.07031	51.7157	1	0.06895	2.036074
1 bar	100.0000	1.01972	750.062	14.5038	1	29.52998
1 inHg	3.386388	0.034530	25.40000	0.491141	0.033863	1

G. Dimension (unit:mm)

・Wire (unit :mm)



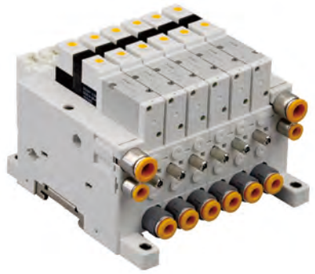
PIN NO.	Color of lead wire
1	DC(+)(Brown)
2	analog output(1-5V)(Orange)
3	OUT2 (White)
4	OUT1 (Black)
5	DC(-) (Blue)

H.Error indication function

Error	Error displayed	Error Condition	Troubleshooting
Residual pressure error	Err	The zero clear range more than 2%F.S	Change input pressure to ambient pressure and perform zero reset again.
Pressurizing error	HHH	Reset applied pressure to a level within the set pressure range.	Reset applied pressure to a level within the set pressure range.
	LLL	Pressure exceeding the lower limit of the set pressure range is applied.	
System error	Er4	Displayed if an internal system error has occurred. Displayed if an internal system error has occurred.	Turn the power off and on again. If the failure cannot be solved, contact EMC.

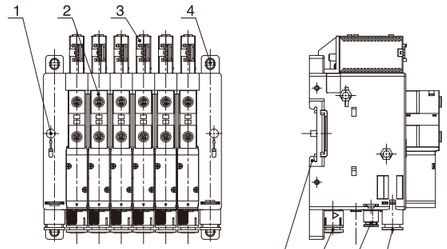
EZPZ

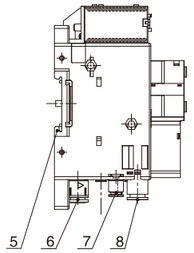
External Vacuum Control Unit (Centralized vacuum interface)



◎ Applications / Features

- Centralized external vacuum source port, built–in vacuum control, breaking vacuum control, broken vacuum flow regulation, vacuum filtration, optional vacuum pressure gauge.
- Built–in vacuum filter element for easy and quick replacement.
- The combination of 35mm card rail installation and screw hole installation to meet different installation requirements.





1、Guide rail fixing frame, tighten bolt holes.
2、External vacuum control unit (assembled)
3、Digital display vacuum pressure gauge (optional)
4、Installation hole (4–4.5X6)
5、35mm guide rail installation card slot
6、Vacuum adsorption end interface (Ø Φ6/Ø8)
7、Positive pressure air inlet (Ø6)
8、External vacuum source interface (2–Ø8)

◎ How to order?

Series No.	—	□	—	Vacuum gauge specification	—	Vacuum diameter	—	Links
EZPZ: Intergrated type external connection Vacuum control unit				Blank: Without W: External vacuum detection N:Type NPN P:Type PNP		06:Ø6 08:Ø8		2F: 2 links 3F: 3 links … 12F: 12 links

Code	Supple Valve	Air Breaking Valve
K	NC	NC
R	Self–holding type	NC

Note: R type is not optional with energy–saving vacuum meter.When R type power is more than 20ms, the vacuum occurs and continues, break valve power up, and the vacuum stops.

Order Example:

EZPZ series intergrated type external vacuum control unit, NC supply valve, NC break valve, NPN type, Φ6 vacuum diameter, 6 links, The ERP code is: EZPZ–K–N–06–6F

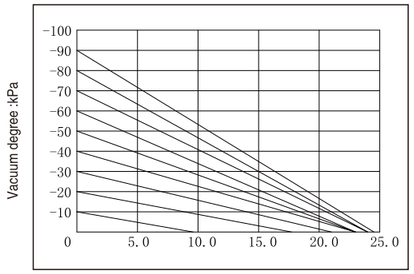
◎ Max suction flow at different vacuum (–kPa) (NL/min)

Specifications and Models	–10	–20	–30	–40	–50	–60	–70	–80	–90
EZPZ single unit	9.3	17.0	21.0	22.0	23.0	23.0	24.0	24.0	24.5

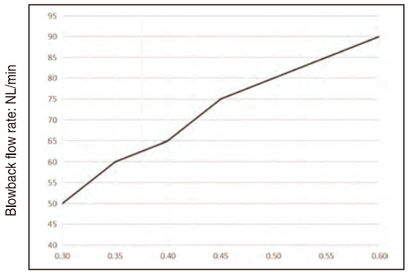
◎ Max blowback flow at different supply pressure (MPa) (NL/min)

Specifications and Models	0.3	0.35	0.4	0.45	0.5	0.55	0.6
EZPZ single unit	50	60	65	75	80	85	90

Maximum suction flow at different vacuum (–kPa) (NL/min)

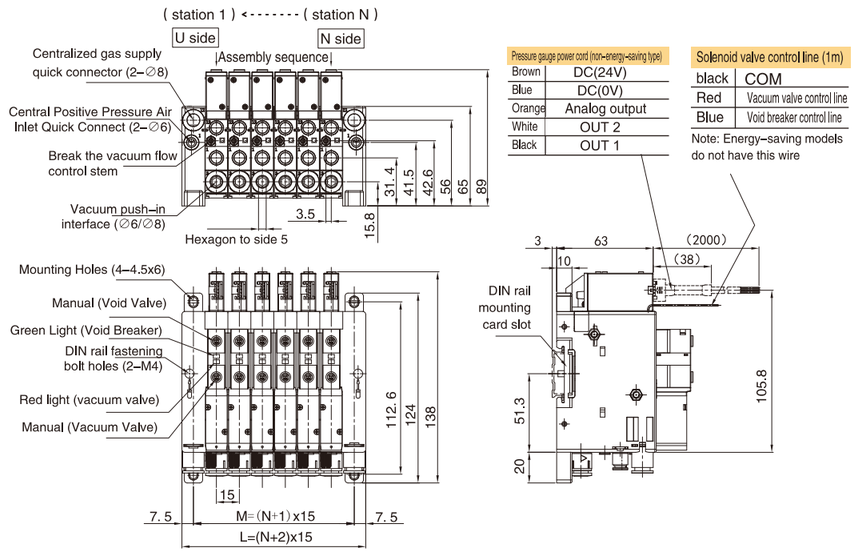


Maximum blowback flow at different supply pressure (MPa) (NL/min)



◎ Dimension(mm)

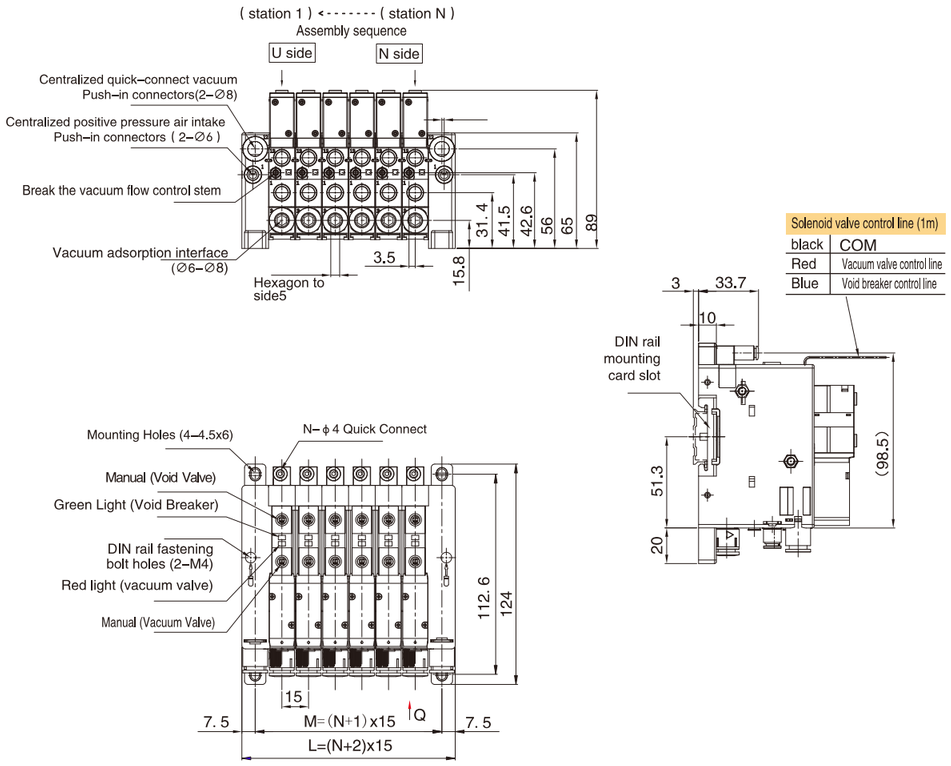
EZPZ□–N/P Vacuum Pressure Gauge with Separate Wiring Diagram



Note: N indicates the number of digits of the product

◎ Dimension(mm)

EZPZ□–W External Vacuum Detection Outline Diagram

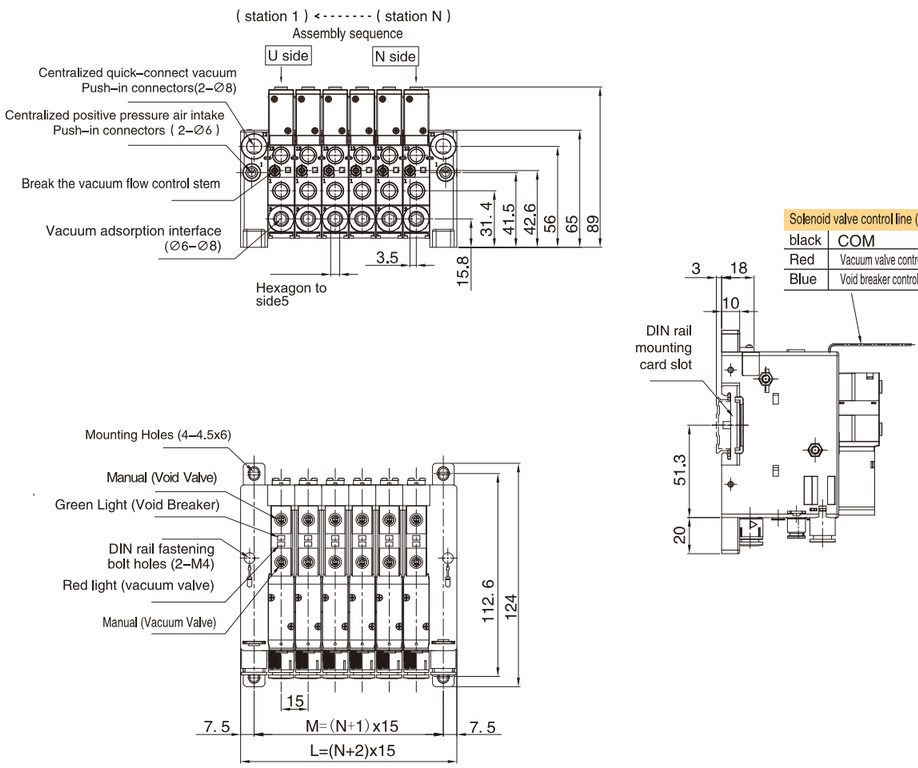


Note: N indicates the number of digits of the product

EZPZ Series External Vacuum Control Unit
(Centralized Vacuum intertace)

◎ Dimension(mm)

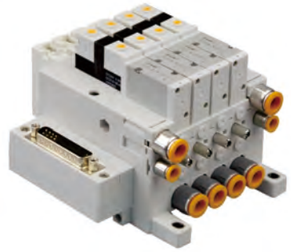
EZPZ□ without Vacuum Pressure Gauge Schematic Diagram



Note: N indicates the number of digits of the product

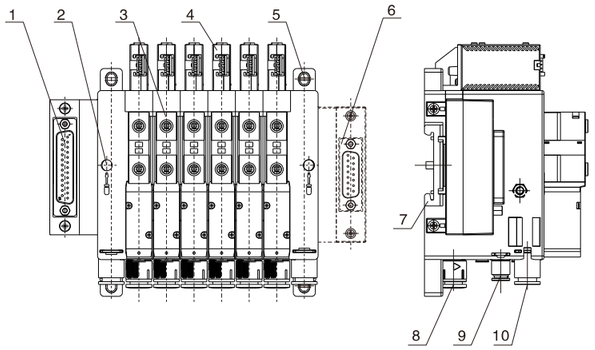
EZPV/EZP2V

External vacuum control unit (multi–pin type)



Product Features

- The solenoid valve wiring/vacuum pressure gauge uses D–SUB connectors, making the overall wiring of the product more compact and aesthetically pleasing.
- A centralized external vacuum source port is provided, with built–in vacuum control, vacuum break control, vacuum break flow adjustment, vacuum filtration, and an optional vacuum pressure gauge.
- An integrated vacuum filter element is included, which can be conveniently and quickly replaced.
- A combination of 35mm DIN rail mounting and screw hole mounting is offered to meet various installation requirements.



1. 25–pin D–SUB socket
2. Guide bar holder Tightening bolt holes
2. Rail mounting fixture hole
3. External vacuum control unit (modular)
4. Digital vacuum pressure gauge (optional)
5. 4 elliptical mounting holes of 4.5x6
6. 15–pin D–SUB socket (optional for EZP2V)
7. DIN rail mounting slot
8. Vacuum suction end interface ϕ6/ϕ8
9. Centralized positive pressure air inlet ϕ6
10. Centralized external vacuum connection ϕ8

How to Oder?

EZPV Multi–pin external vacuum control unit

Series Code	–	□	–	Vacuum Gauge Specifications	–	Vacuum Connection	–	Assembly Links
EZPV: Multi–pin external vacuum control unit		Code / Supply Valvw / Air breaking valve K / NC / NC R / Self–holding / NC Note: R–type energized for 20ms or more, vacuum occurs and lasts, air–breaking valve energized, vacuum stops.		Blank: without gauge W:External vacuum detection N:NPN Type P:PNP Type		06:Ø6 08:Ø8		2F:2 Links 3F:3 Links … 12F:12 Links

Ordering Example:

EZPV Multi–pin external vacuum control unit, NC supply valve, NC Air breaking valve, NPN gauge size, Ø6 vacuum connection, through–port exhaust (Ø6), number of cartridges 6 positions. The Code: EZPV–K–N–06–6F

EZP2V Dual multi–pin external vacuum control unit

Series Code	–	□	–	Vacuum Gauge Specifications	–	Vacuum Connection	–	Assembly Links
EZP2V: Dual multi–pin external vacuum control unit		Code / Supply Valvw / Air breaking valve K / NC / NC R / Self–holding / NC Note: R–type energized for 20ms or more, vacuum occurs and lasts, air–breaking valve energized, vacuum stops.		N:NPN Type P:PNP Type		06:Ø6 08:Ø8		2F:2 Links 3F:3 Links … 12F:12 Links

Ordering Example:

EZP2V Dual multi–pin external vacuum control unit, NC supply valve, NC Air breaking valve, NPN vacuum gauge specifications, Ø6 vacuum interface, assembled into 6 positions, and its order code is: EZP2V–K–N–06–6F

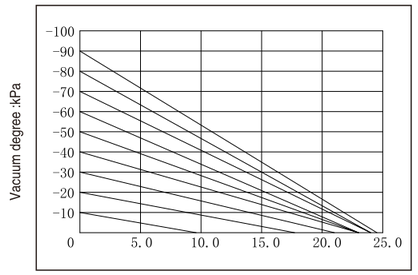
Max suction flow at different vacuum (–kPa) (NL/min)

Specifications and Models	–10	–20	–30	–40	–50	–60	–70	–80	–90
EZPV/EZP2V single unit	9.3	17.0	21.0	22.0	23.0	23.0	24.0	24.0	24.5

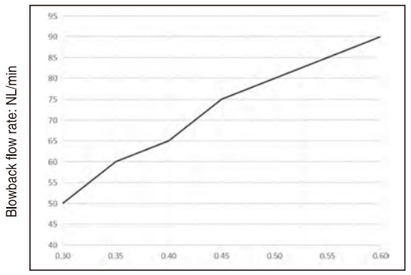
Max blowback flow at different supply pressure (MPa) (NL/min)

Specifications and Models	0.3	0.35	0.4	0.45	0.5	0.55	0.6
EZPV/EZP2V single unit	50	60	65	75	80	85	90

Max suction flow at different vacuum (–kPa) (NL/min)



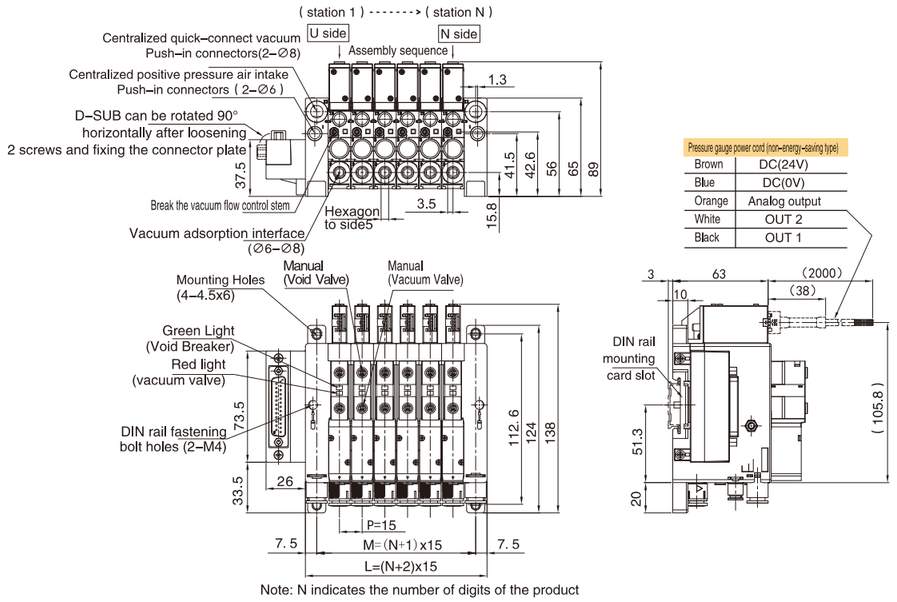
Max blowback flow at different supply pressure (MPa) (NL/min)



Dimension(mm)

EZPV□-N/P Vacuum Pressure Gauge Outline Drawing

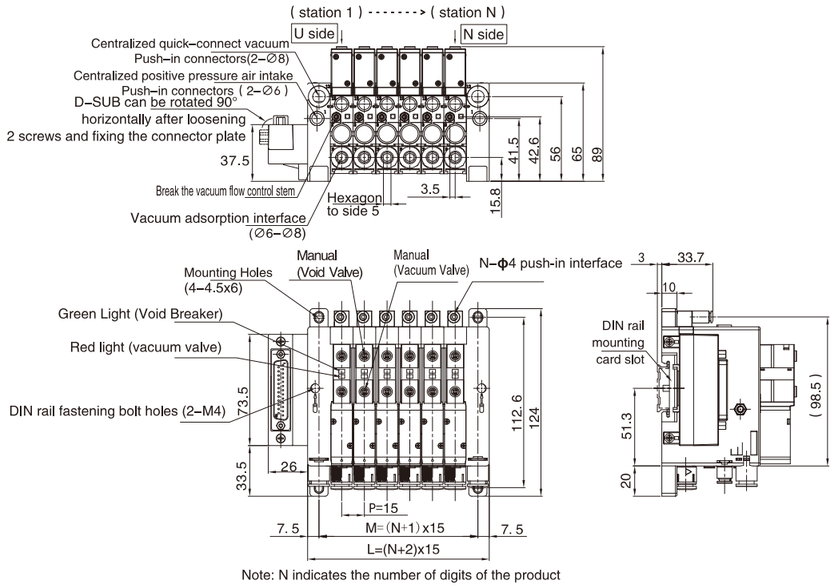
EZPV□–N/P 带真空压力表外形图



Note: N indicates the number of digits of the product

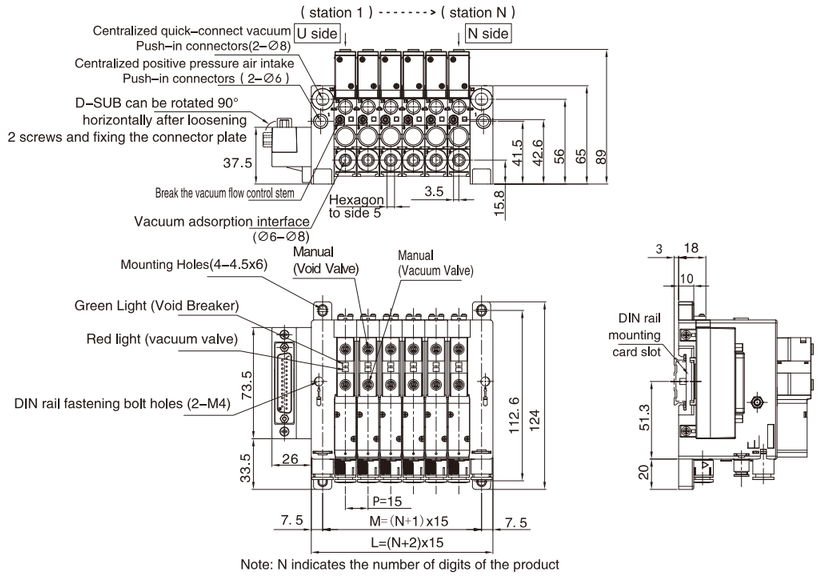
◎ Dimension(mm)

EZPV□–W external vacuum detection outline drawing



Note: N indicates the number of digits of the product

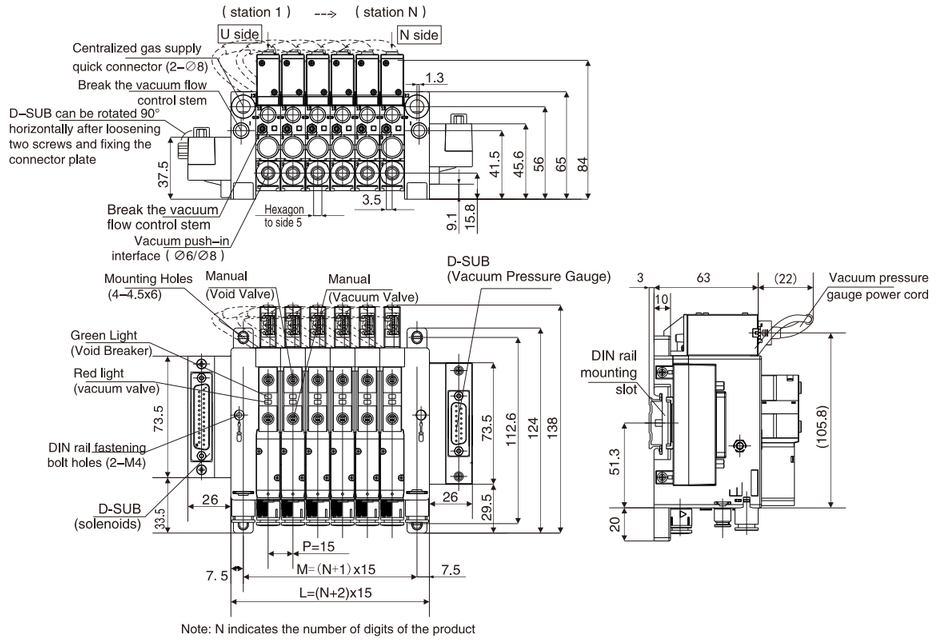
EZPV□ without vacuum gauge outline drawing



Note: N indicates the number of digits of the product

◎ Main Dimension

EZP2V□–N/P Vacuum Pressure Gauge Outline Drawing



Note: N indicates the number of digits of the product

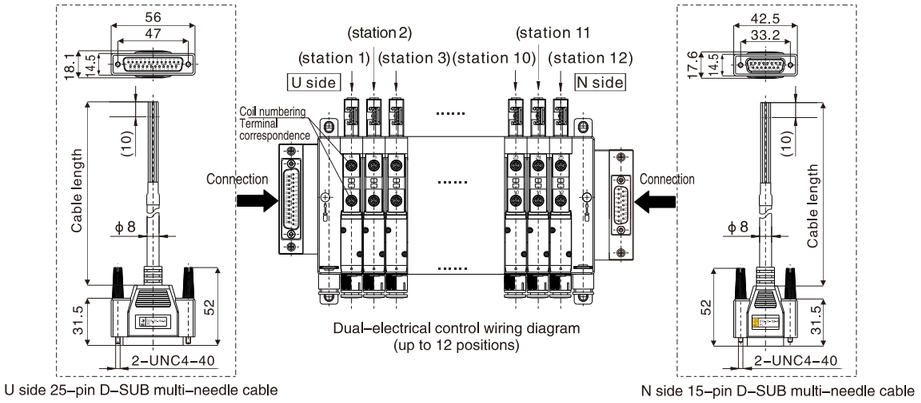
◎ How to Order? Multi–pin cable

Cable core count	–	Connector Series	–	Cable length	–	Injection molding
D25: 25–pin D–sub connector		25:25 cores (Not more than 12 links) 15D: 15 cores (Not more than 7 links)		1M: Cable length 1 m 2M: Cable length 2 m 3M: Cable length 3 m ..... Remarks: The cable length can be customized		A

Cable core count	–	Cable core count	–	Cable length	–	Recognition code	–	Injection molding
D25: 25–pin D–sub connector		25:25 cores (Not more than 12 links) 16D: 16 cores (Not more than 7 links)		1M: Cable length 1 m 2M: 2 m cable length 3M: Cable length 3 m ..... Remarks: The cable length can be customized		TL: Flexible towline cable		A

Cable core count	–	Cable core count	–	Cable length	–	Recognition code	–	A
D15: 15–pin D–sub connector		15D: 15 cores		1M: Cable length 1 m 2M: 2 m cable length 3M: Cable length 3 m ..... Remarks: The cable length can be customized		Blank：Standard Cable TL：Flexible towline cable		Injection molding

◎ EZPV/EZP2V Multi-needle Position Wiring Diagram



U side 25–pin D–SUB multi–needle cable

N side 15–pin D–SUB multi–needle cable

Pin Correspondence Table (U side 25–pin D–SUB for Solenoid V (U side 25–pin D–SUB multi–needle cable)

Terminal Number	White Cable (Standard)		Gray Cable(Flexible Drag Chain)		Wiring Description
	D25–25	D25–15D	D25–25	D25–16D	
1	Red Black	Red Black	Purple	Purple	1# Vacuum Valve
2	Red Whitel	Red	Orange	Orange	2# Vacuum Valve
3	Red	Orange Black	Pink	Pink	3# Vacuum Valve
4	Orange Black	Orange	Gray	Gray	4# Vacuum Valve
5	Orange White	Yellow Black	White	White	5# Vacuum Valve
6	Orange	Yellow	Red	Red	6# Vacuum Valve
7	Yellow Black	Pink	Green	Green	7# Vacuum Valve
8	Yellow	–	Black	–	8# Vacuum Valve
9	Pink Black	–	Purple with 1 dot	–	9# Vacuum Valve
10	Pink	–	Orange with 1 dot	–	10# Vacuum Valve
11	Blue White	–	Pink with 1 dot	–	11# Vacuum Valve
12	Blue	–	Gray with 1 dot	–	12# Vacuum Valve
13	Black	Black	Yellow	Black	COM
14	Green	Blue	White with 1 dot	White with dots	1# Vacuum Break Valve
15	Purple White	Green	Red with 1 dot	Red with dots	2# Vacuum Break Valve
16	Purple	Light Green	Green with 1 dot	Green with dots	3# Vacuum Break Valve
17	Brown White	Purple	Black with 1 dot	Black with dots	4# Vacuum Break Valve
18	Brown	White	Purple with 2 dots	Purple with dots	5# Vacuum Break Valve
19	Green Black	Brown	Orange with 2 dots	Orange with dots	6# Vacuum Break Valve
20	Gray Black	Gray	Pink with 2 dots	Pink with dots	7# Vacuum Break Valve
21	Gray	–	Gray with 2 dots	–	8# Vacuum Break Valve
22	White Black	–	White with 2 dots	–	9# Vacuum Break Valve
23	White	–	Red with 2 dots	–	10# Vacuum Break Valve
24	Green White	–	Green with 2 dots	–	11# Vacuum Break Valve
25	Light Green	–	Black with 2 dots	–	12# Vacuum Break Valve

Pin Correspondence Table (U side 25–pin D–SUB for Solenoid Valves) (N side 15–pin D–SUB multi–needle cable)

Terminal Number	White Cable (Standard)	Gray Cable(Flexible Drag Chain)	Wiring Description
	D15–15	D15–15(TL)	
1	Red Black	Red Black	1# Pressure gauge switch quantity
2	Red	Red	2# Pressure gauge switch quantity
3	Orange Black	Orange Black	3# Pressure gauge switch quantity
4	Orange	Orange	4# Pressure gauge switch quantity
5	Yellow Black	Yellow Black	5# Pressure gauge switch quantity
6	Yellow	Yellow	6# Pressure gauge switch quantity
7	Pink	Pink	7# Pressure gauge switch quantity
8	Blue	Blue	8# Pressure gauge switch quantity
9	Green	Green	9# Pressure gauge switch quantity
10	Light Green	Light Green	10# Pressure gauge switch quantity
11	Purple	Purple	11# Pressure gauge switch quantity
12	White	White	12# Pressure gauge switch quantity
13	Brown	Brown	/
14	Gray	Gray	Connect to power "0V"
15	Black	Black	Connect to power "24V"

NOTE: The above table is for Double Multi only, do not wire with electricity.

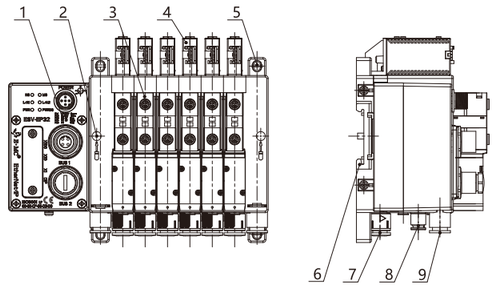
EZPJ

External vacuum control unit (fieldbus type)



◎ Applications / Features

- Solenoid valve adopts fieldbus type communication control module, and the overall wiring of the product is more compact and beautiful. There are multiple types of fieldbus communication protocols available (PROFINET, EtherCAT, EtherNet/IP, DeviceNET, I/O Link).
- Centralized external vacuum source port, built–in vacuum control, breaking vacuum control, broken vacuum flow regulation, vacuum filtration, optional vacuum pressure gauge.
- Built–in vacuum filter element for easy and quick replacement.
- The combination of 35mm card rail installation and screw hole installation to meet different installation requirements.



1. Fieldbus module(Separate cable selection).
2. Guide rail fixing frame, tighten bolt holes.
3. External vacuum control unit (assembled).
4. Digital vacuum pressure gauge (optional).
5. Installation holes (4–4.5X6).
6. 35mm guide rail installation slot.
7. Vacuum adsorption end interface(Ø 6/Ø8).
8. Positive pressure air inlet(Ø6).
9. External vacuum source interface (2–Ø8).

◎ How to order?

Series No. — □ — Vacuum gauge specification — Vacuum diameter — Links — Communication Protocol

EZPJ:
Fieldbus type external vacuum control unit

Code	Supple Valve	Air Breaking Valve
K	NC	NC
R	Self–holding type	NC

Note: R type is not optional with energy–saving vacuum meter.When R type power is more than 20ms, the vacuum occurs and continues, break valve power up, and the vacuum stops.

Blank: Without
W: External vacuum detection
N:Type NPN
P:Type PNP

06:Ø6
08:Ø8

2F:2 links
3F:3 links
...
12F:12 links

Code	Protocols Type	Outputs
PN32	PROFINET	32
EC32	EtherCAT	32
EP32	EtherNet/IP	32
DN32	DeviceNet	32
LK32	I/O Link	32

Order Example:

EZPJ series fieldbus type external vacuum control unit, NC supply valve, NC breaking valve, NPN type, ϕ 6 vacuum interfaces, 6 links, PROFINET protocol, 32 outputss. The ERP code is: EZPJ–K–N–06–6F–PN32

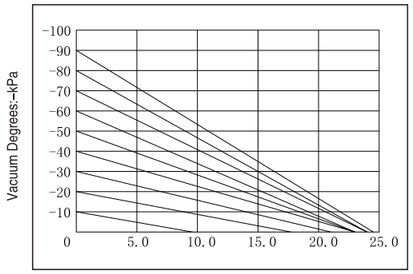
◎ Max suction flow at different vacuum (–kPa) (NL/min)

Specifications and Models	–10	–20	–30	–40	–50	–60	–70	–80	–90
EZPJ Single Valve	9.3	17.0	21.0	22.0	23.0	23.0	24.0	24.0	24.5

◎ Max backflow rate Of Different Gas Consumption(–kPa)(NL/min)

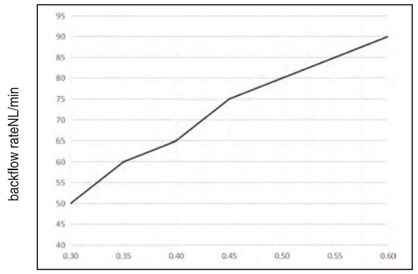
Specifications and Models	0.3	0.35	0.4	0.45	0.5	0.55	0.6
EZPJ Single Valve	50	60	65	75	80	85	90

Maximum suction flow rate of different vacuum degrees(–kpa)(nl/min)



Maximum suction flow rate:NL/min

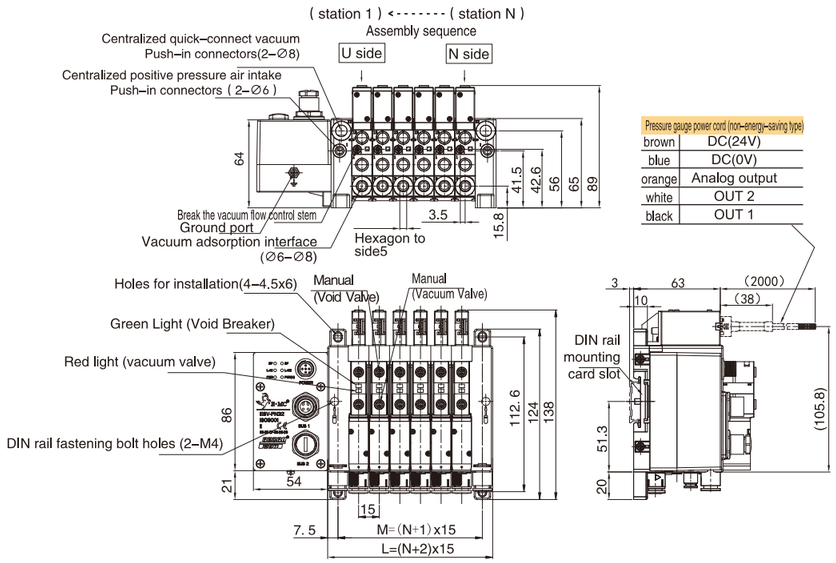
Maximum backflow rate of different gas consumption(–kpa)(nl/min)



Gas Consumption:MPa

◎ Main Dimension

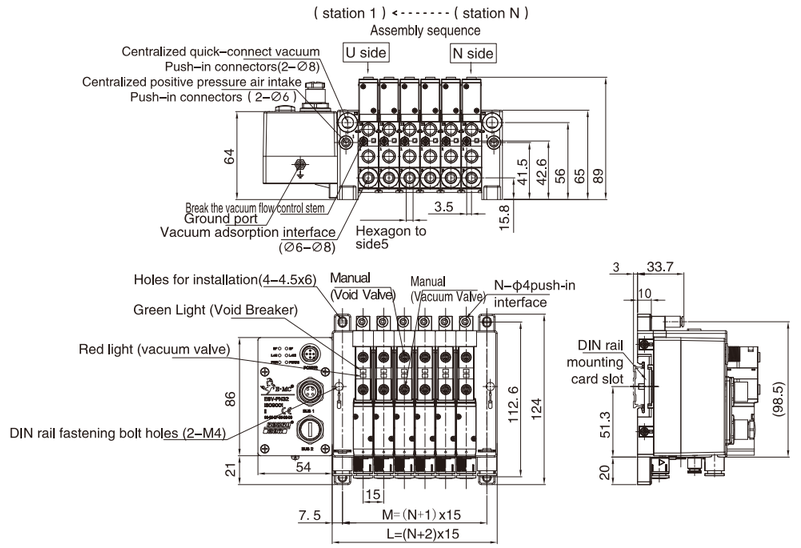
EZPJ□–N/P with vacuum pressure gauge outline diagram (pressure gauge independent outlet)



Note: N indicates the number of digits of the product

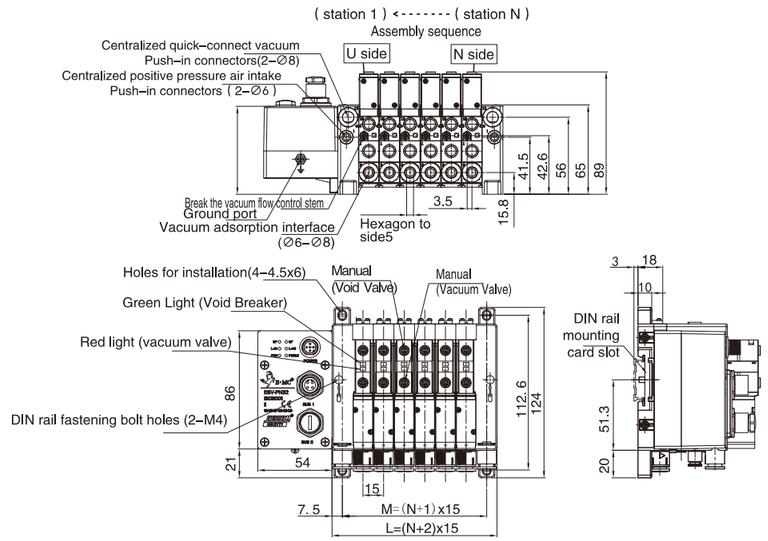
◎ Main Dimension

EZPJ□–W External Vacuum Detection Outline Diagram



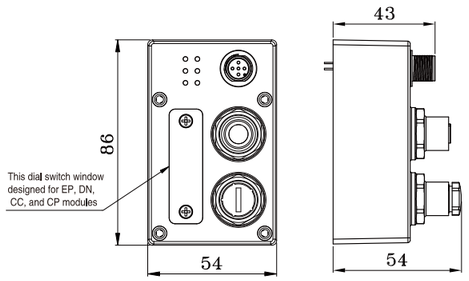
Note: N indicates the number of digits of the product

EZPJ□ without vacuum gauge outline drawing

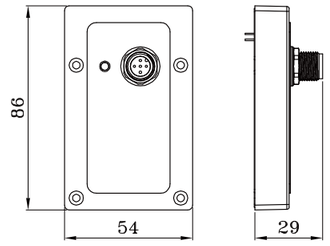


Note: N indicates the number of digits of the product

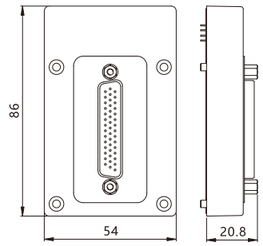
◎ Max suction flow at different vacuum (–kPa) (NL/min)



PN/EC/EP/DN/CC/CP Communication Protocol Control Module



IO–Link Communication Protocol Control Module



DB44 Module dimension

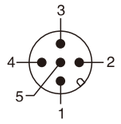
Note: Except Control module, the shape & size of ESV–DB44/LK/EC/PN/DN/CC/CP series are same.

EZPJ External Vacuum Control Unit (fieldbus Type)

◎ EZPJ Bus Module Specification Sheet

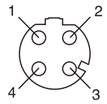
Code	EZPJ–PN32	EZPJ–EC32	EZPJ–EP32	EZPJ–DN32	EZPJ–LK32
Protocols	PROFINET	EtherCAT	EtherNet / IP	DeviceNet	I/O Link
Output	32				
Configuration files	GSDML	XML	EDS	EDS	IODD
Baud rate	100 Mbps			125/250/500 Kbps	COM2(38.4Kbps)
Control power supply – Voltage	DC24V(DC22.6 ~ 26.4V)				
Control power supply – Current Consumption	⩽120 mA			⩽50 mA	⩽25 mA
Output voltage	DC24V(DC22.6 ~ 26.4V)				
Power interface	M12,5pin,A encode				
Bus interface	2xM12 diagnosis, 4 holes D encode			M12 diagnosis+M12 chassis, 5 holes Aencode	Class B
Diagnostic	system diagnosis,communication error, short circuit protection, open circuit detection, reverse connection protection, undervoltage and overvoltage diagnosis				system diagnosis,communication error, short circuit protection
Protection	IP40				
Storage temperature	–20 ~ 70℃				
Working temperature	–10 ~ 60℃				–10 ~ 50℃

Power interface



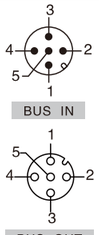
Pin	Type	Description
1	PS24	+24V Control voltage
2	PL24	+24V Operating voltage of load valve
3	PS0	0V Control voltage
4	PL0	0V Operating voltage of load valve
5	FE	Grounding

PN/EC/EP bus interface



Pin	Type	Description
1	TD+	Send data+
2	RD+	Receive data+
3	TD–	Send data–
4	RD–	Receive data–

DN bus interface



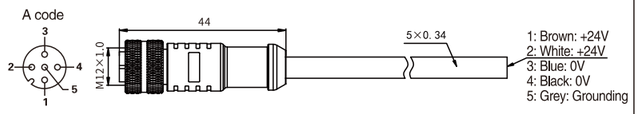
Pin	Type	Description
1	DRAIN	shield
2	V+	24V+
3	V–	24V–
4	CAN_H	High level signal
5	CAN_L	Low level signal

How to order?

PN/EC/EP/DN Power Cable (Unshielded)

M125 □ – PVC – □

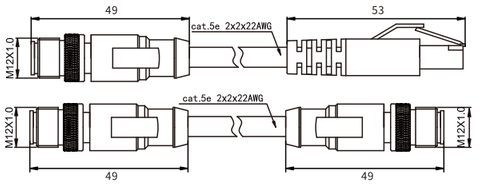
- M12 Female 5 cores
- R: Straight Connector Type; RL: Angled Connector Type
- 2M: 2meters; 5M: 5meters; Other length could be customized

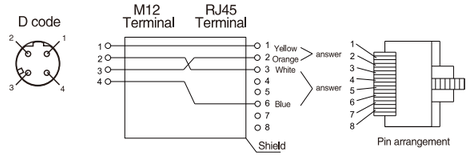


PN/EC/EP Fieldbus Wiring (Shielded)

ESV–EN – □ – □

- EtherNet Fieldbus Wiring
- M12RJ: M12 male connectors→RJ45; M12M12: M12 male connectors→M12 male connectors
- 2M: 2meters; 5M: 5meters; Other length could be customized



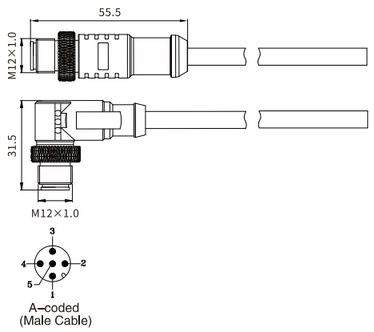


DN Fieldbus Wiring (Shielded)

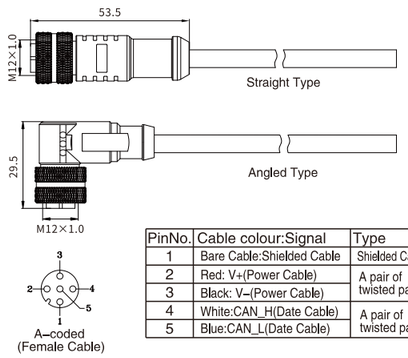
ESV – Protocol – □ – □

- DN:DeviceNet/CANopen; CC:CC–Link
- 2M: 2meters; 5M: 5meters; Other length could be customized
- M12: M12 Female connector (straight type)
- M12L: M12 Female connector (angled type)
- M12F: M12 Male connector (straight type)
- M12FL:M12 Male connector (angled type)
- M12M12: M12 Male–Female double connectors (straight type)
- M12M12L: M12 Male–Female double connectors (angled type)

DN Male Cable (Shielded)

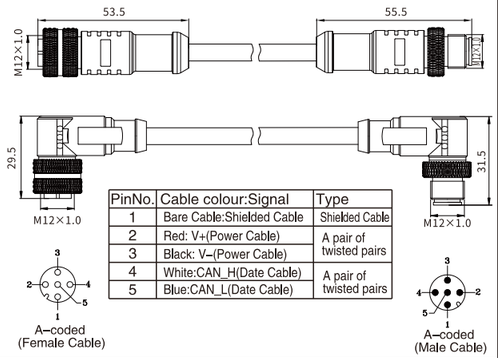


DN Female cable (Shielded)



PinNo.	Cable colour:Signal	Type
1	Bare Cable:Shielded Cable	Shielded Cable
2	Red: V+(Power Cable)	A pair of twisted pairs
3	Black: V–(Power Cable)	
4	White:CAN_H(Date Cable)	A pair of twisted pairs
5	Blue:CAN_L(Date Cable)	

DN Male–Female double connection cable (Shielded)



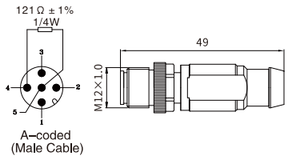
PinNo.	Cable colour:Signal	Type
1	Bare Cable:Shielded Cable	Shielded Cable
2	Red: V+(Power Cable)	A pair of twisted pairs
3	Black: V–(Power Cable)	
4	White:CAN_H(Date Cable)	A pair of twisted pairs
5	Blue:CAN_L(Date Cable)	

How to order?

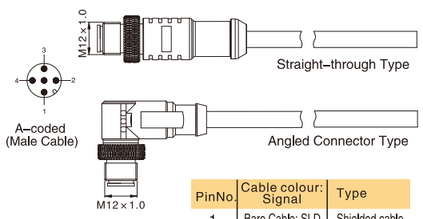
DeviceNet Terminator

Series — Communication Protocal — R

- ESV
- DN: DeviceNet
- R:terminal resistance

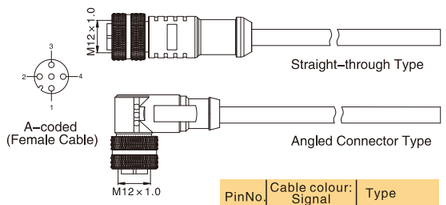


CC Male Cable(Shielded)



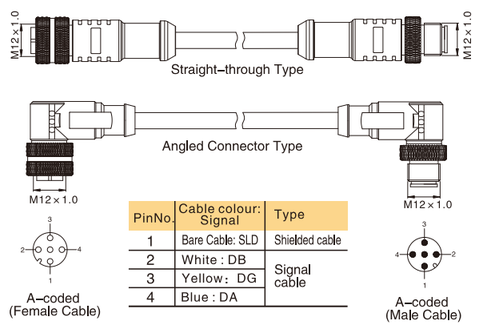
PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow：DG	
4	Blue : DA	

CC Female Cable(Shielded)



PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow：DG	
4	Blue : DA	

CC Male&Female Cable (Shielded)



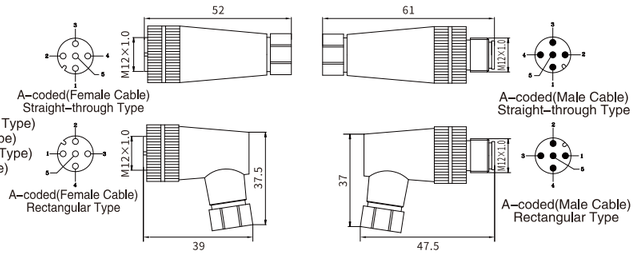
PinNo.	Cable colour: Signal	Type
1	Bare Cable: SLD	Shielded cable
2	White : DB	Signal cable
3	Yellow：DG	
4	Blue : DA	

5–Cores Connector （M12–A Code）

M125 □

- 5–Cores Connector （M12–A Code）
- R：Rotating Female Straight–through Type)
- RL：Rotating Female(Rectangular Type)
- RF：Rotating Male (Straight–through Type)
- RFL：Rotating Male Rectangular Type)

Note: This connector also could be used in ESV valve terminal wiring, or DN, CC communication connection.



LED Indicators

PROFINET

BF ○ ○ SF
L/A1 ○ ○ L/A2
PWR ○ ○ PWR(V)

Indicators	Status	Meaning
BF	Red light on	Communication not connected; Duplicate IP address/device name
	Red light flash	Module is connecting with PN master station, IP address or device name duplicated
	Green light on	System is normal
SF	Green light on	System is normal
	Red light flash	Short circuit of power supply, open circuit of load, reverse connection protection, upper limit of counting
L/A1	Yellow light on	BUS1 PROFINET connection
	OFF	BUS1 no internet connection
	Yellow light flash	BUS1 internet connection
L/A2	Yellow light on	BUS2 PROFINET connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low

EtherNet/IP

NS ○ ○ MS
L/A1 ○ ○ L/A2
PWR ○ ○ PWR(V)

Indicators	Status	Meaning
NS	OFF	Operating voltage not connected or IP address not set
	Red light flash	EtherNet/IP Communication timeout
	Green light flash	EtherNet/IP Communication not established
	Green light on	System is normal
MS	Red light flash	Short circuit of power supply, open circuit of load, reverse connection protection, upper limit of counting
	Green light on	System is normal
L/A1	Yellow light on	BUS1 EtherNet/IP connection
	OFF	BUS1 no internet connection
	Yellow light flash	BUS1 internet connection
L/A2	Yellow light on	BUS2 PROFINET connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low

EtherCAT

RUN ○ ○ ERR
L/A IN ○ ○ L/A OUT
PWR ○ ○ PWR(V)

指示灯	状态	含义
RUN	OFF	Initial Status
	Green light flash	Pre-operational status
	Green light on	System is normal
ERR	OFF	normal Initial
	Red light flash	Initial failure
L/A IN	Green light on	BUS1 EtherCAT connection
	OFF	BUS1 no internet connection
	Green light flash	BUS1 internet connection
L/A OUT	Yellow light on	BUS2 EtherCAT connection
	OFF	BUS2 no internet connection
	Yellow light flash	BUS2 internet connection
PWR	OFF	Module without supply
	Green light on	Module with 24V supply
	Red light on	Module voltage too high
	Red light flash	Module voltage too low
PWR(V)	OFF	Load without supply
	Green light on	Load with 24V supply
	Red light on	Load voltage too high
	Red light flash	Load voltage too low; Reverse power connection

DeviceNet

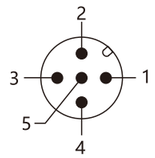
NS ○ ○ MS
PWR ○ ○ PWR(V)

Connection Indicators	NS	MS	Meaning
	OFF	OFF	No internet connection
	OFF	Red light on	Offline status, watchdog timer error
	OFF	Red light flash	Parameter writing error
	Red light on	Green light on	Bus off, MAC ID duplicate
	Red light flash	Green light flash	IO connection timeout
	Green light on	Green light on	Connection normal

Power Indicators	PWR	PWR(V)	Meaning
	OFF	OFF	Module not powered
	Green light on	Red light flash	Load without supply
	Red light on	Green light on	Module voltage too high
	Red light flash	Green light on	Module voltage too low
	Green light on	Red light on	Load voltage too high
	Green light on	Red light flash	Load voltage too low
	Green light on	Green light on	Supply normal

Power Interface

Power interface(M12, A code, Class B)



Pin	Type	Description
1	PS24	+24V Control voltage
2	PL24	+24V Operating voltage of load valve
3	PS0	0V control voltage
4	C/Q	Data communication(IO-LINK)
5	PL0	0V operating voltage of load valve

LED Indicators

LED Indicators	Status	Meaning
X1	OFF	Abnormal power supply
	Green on	Normal power supply, no establish protocls
	Red on	Fault or abnormal load power supply
	Green flsah	Normal working

Wiring

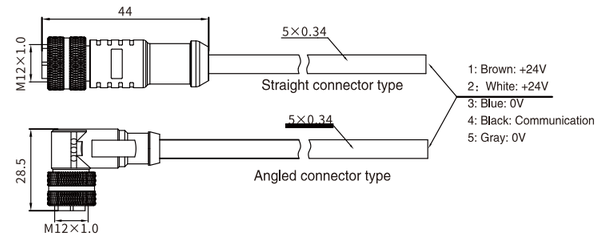
M125 □ — PVC — □
- M12 Female 5 cores single connecting cable
- R: Straight connector type; RL: Angled connector type
- 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

M12M125 □ — PVC — □
- M12 Female, 5 cores double connecting cable
- R: Straight connector type: M12 male connectors — M12 Femal connectors; RL: Angled connector type: M12 male connectors — M12 Femal connectors
- 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

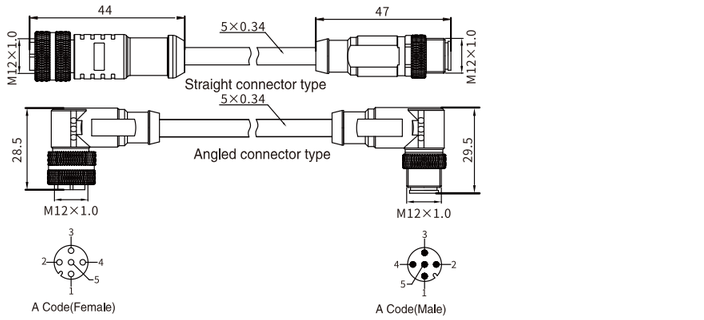
M12YM12 □ — PVC — □
- M12 Female, Y type connectors
- R: Straight connector type; RL: Angled connector type
- 2M: 2 meters; 5M: 5 Meters (Other length coild be customized)

Wiring

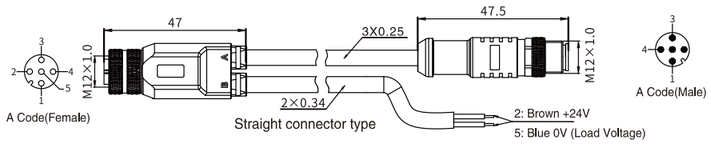
M12 Female 5 cores single connecting cable(Class B)



M12 Female,5 cores double connecting cable(Class B)



M12 Female, Y type connectors(Class A to Class B)



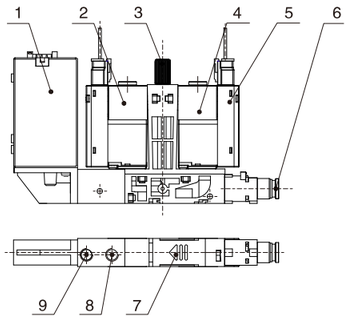
EZB

Small Vacuum Generator



Applications / Features

- Multi–piece assembled structure, adopts centralized air supply;
- Separate the vacuum pathway from the vacuum rupture pathway;
- Adopting a screw free quick connect design;
- The vacuum breaking flow rate can be micro adjusted to meet precise control requirements;
- Small and light weight, low noise, high–speed response.



1. Digital Vacuum Pressure Gauge (optional);
2. Vacuum Valve;
3. Vacuum Breaker Flow Control Rod;
4. Vacuum Breaker Valve;
5. Junction Box Assembly;
6. Vacuum Quick–Connect Interface Φ4;
7. Soundproofing Foam Cover;
8. Individual Air Supply Port M5 (optional);
9. Air Supply Port M5.

How to Order?

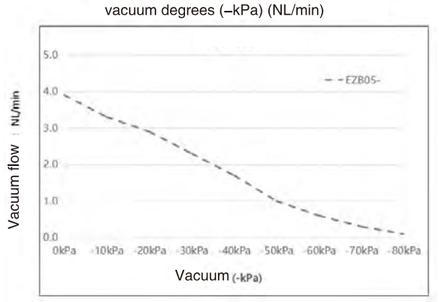
Series No.	Nozzle Diameter	Integrated Body Form –	Vacuum Gauge Specification
EZB：EZB Series	05:Ø0.5	1: Common Air Supply Port for Vacuum and Vacuum Break 2: Dedicated Air Supply Port for Vacuum Break	Blank: Blank a gauge N: NPN Type P: PNP Type

Order Example: EZB series single–chip miniature vacuum generator, with a nozzle diameter of 0.5, common air supply port for vacuum and vacuum break, NPN vacuum gauge specification.
Its order code is: EZB051–N.

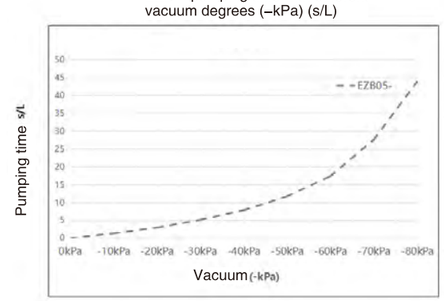
EZB Series Small Vacuum Generator

Performance Parameters

EZB – Vacuum flow rate with different vacuum degrees (–kPa) (NL/min)



EZB – pumping time with different vacuum degrees (–kPa) (s/L)



Vacuum flow rate with different vacuum degrees (–kPa) (NL/min)

Model	Rated air supply pressure(MPa)	Single gas consumption NL/min	0kPa	–10kPa	–20kPa	–30kPa	–40kPa	–50kPa	–60kPa	–70kPa	–80kPa	Max. vacuum– kPa
EZB05–	0.4	9.5	3.5	3.3	2.9	2.3	1.7	1.0	0.6	0.3	0.1	85

Pumping time with different vacuum levels (-kPa) (s/L)

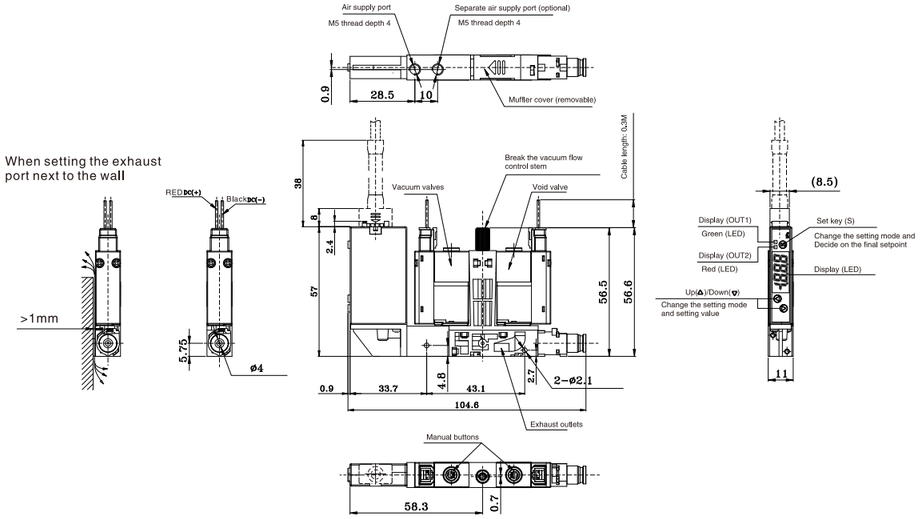
Model	Rated air supply pressure(MPa)	Single gas consumption NL/min	0kPa	–10kPa	–20kPa	–30kPa	–40kPa	–50kPa	–60kPa	–70kPa	–80kPa	Max. vacuum– kPa
EZB05–	0.4	9.5	0	1.32	2.93	5.10	7.80	11.72	17.35	27.60	43.86	85

Specifications

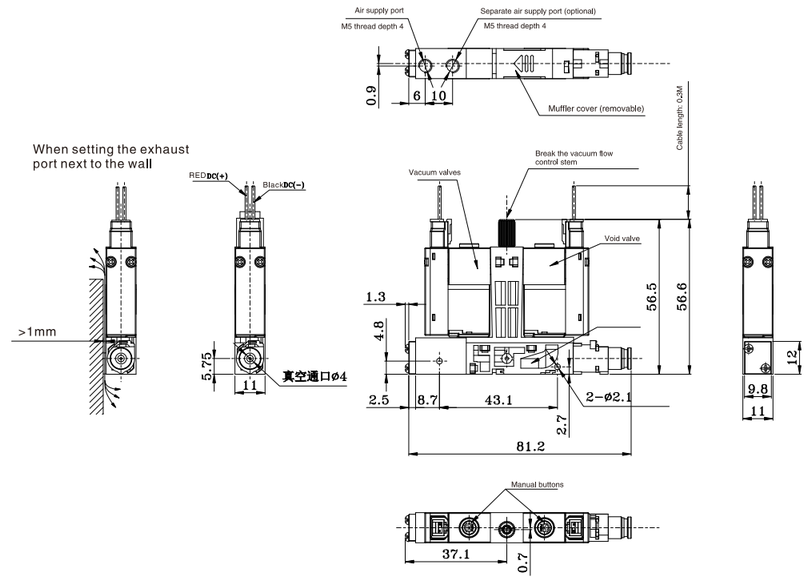
Model	EZB05□–
Nozzle Diameter (mm)	0.5
Rated Air Supply Pressure (Mpa)	0.4
Air Supply Pressure Range (Mpa)	0.2~0.55
Maximum Vacuum Flow (NL/min)	3.5
Air Consumption (NL/min)	9.5
Noise Level (dB(A))	63
Vacuum Interface Diameter (mm)	Φ4
Maximum Vacuum Degree (kPa)	–85
Ambient Temperature (℃)	0~50 (non–condensing)
Operating Voltage (V)	DC24
Voltage Range	± 10%
Solenoid Valve Power (W)	Start: 1.2W; Hold: 0.6W
Filtration Precision (μ m)	40

◎ Dimensions(mm)

EZB□ -N/P with vacuum pressure gauge



EZB□ Blank a table



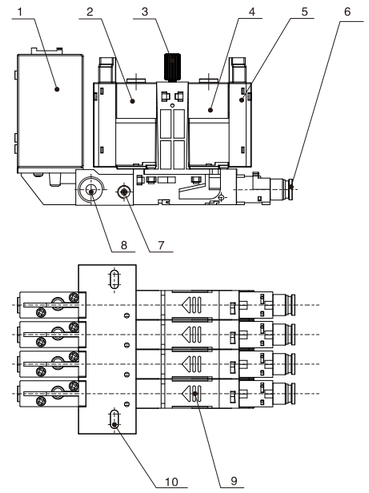
EZBZ

Integrated Small Vacuum Generator



◎ Applications / Features

- Multi–piece container packaging, centralized gas supply;
- The junction box, digital pressure switch, flow control valve, and manual button are all facing upward, simplifying installation and operation, and facilitating maintenance;
- The vacuum path and the vacuum destruction path are separated, and the dust captured during the operation of the vacuum filter is difficult to spray out to the environment;
- The screw–free quick–connect design is convenient for replacing the silencing cotton and filter element, reducing maintenance costs;
- The vacuum destruction flow can be fine–tuned to meet the needs of precise control;
- Compact and lightweight, low noise, high–speed response, improve user experience;
- Positive pressure centralized air supply port 2–M5 or G1/8, empty air supply port M5, vacuum interface Φ4;



1. Digital vacuum pressure gauge (optional)
2. Vacuum valve;
3. Break vacuum flow control valve rod
4. Breakthrough valve:
5. Wiring box component;
6. Vacuum quick connector Φ4;
7. Breakthrough single gas supply port 2–M5 (optional);
8. Gas inlet 2–M5 or G1/8;
9. Soundproof cotton cover plate
10. Installation hole positions 2–3X7;

◎ How to Order?

Series No.	Nozzle Diameter	Integrated Body Form	—	Vacuum gas supply interface diameter	—	Vacuum Gauge Specification	—	Container quantity
EZBZ：EZBZ Series	05:Ø0.5	1: Common Air Supply Port for Vacuum and Vacuum Break 2: Dedicated Air Supply Port for Vacuum Break		M5: M5 06: 1/8"		Blank: Blank a gauge N: NPN Type P: PNP Type		1F: 1 links 2F: 2 links ... 12F: 12 links

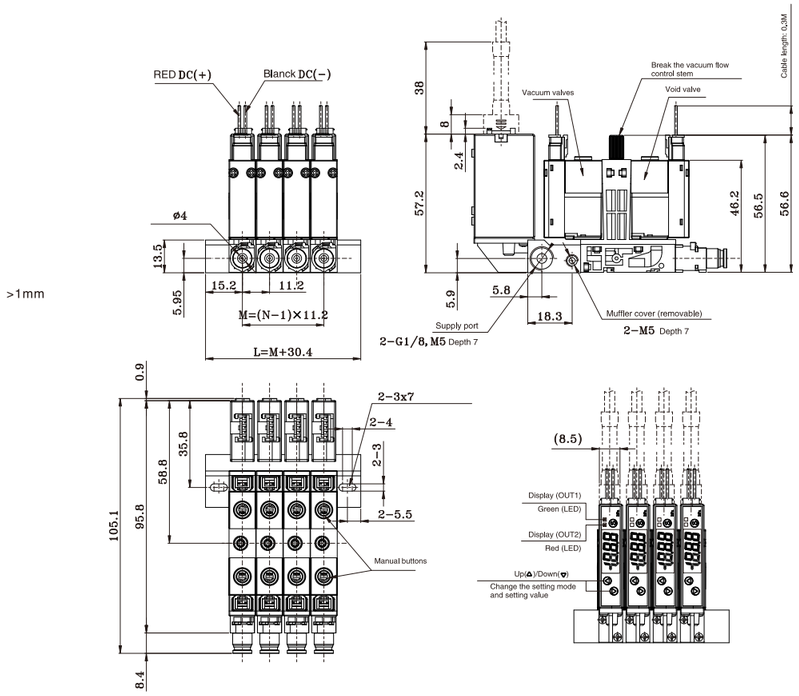
Order Example: EZBZ series integrated small vacuum generator, 0.5 nozzle diameter, vacuum air breaking common air supply port, M5 vacuum gas supply interface, NPN vacuum gauge specification, 4 units
The ordering code is: EZBZ051–M5–N–4F

Specifications

Model	EZBZ051–	EZBZ052–
Nozzle Diameter (mm)	0.5	0.5
Rated Air Supply Pressure (Mpa)	0.4	0.4
Air Supply Pressure Range (Mpa)	0.2~0.55	0.2~0.55
Maximum Vacuum Flow (NL/min)	3.5	3.5
Air Consumption (NL/min)	9.5	9.5
Noise Level (dB(A))	63	63
Vacuum Interface Diameter (mm)	Φ4	Φ4
Maximum Vacuum Degree (kPa)	–85	
Ambient Temperature (℃)	0~50 (non–condensing)	
Operating Voltage (V)	DC24	
Voltage Range	± 10%	
Solenoid Valve Power (W)	Start: 1.2W; Hold: 0.35W	
Filtration Precision (μ m)	40	

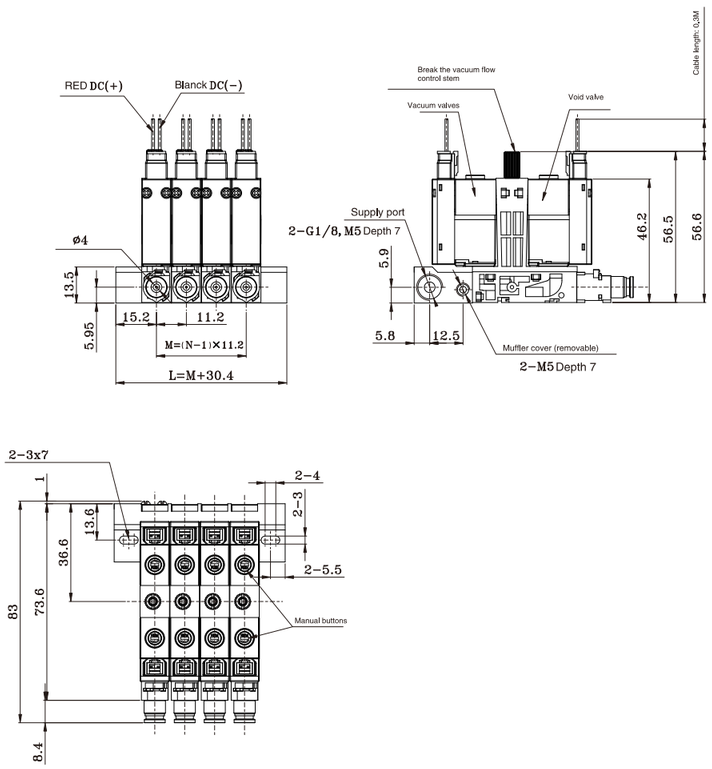
Dimensions (mm)

EZBZ□-N/P with vacuum pressure gauge



Dimensions (mm)

EZBZ□ Blank a vacuum pressure gauge



EZBZ Series Small Vacuum Generator

6
EZBZ

EVC

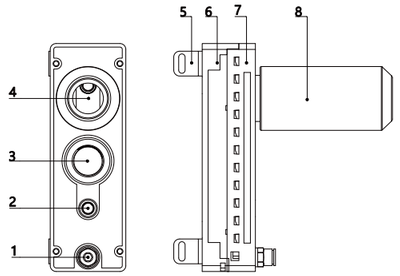
Vacuum Generator

Vacuum Flow: 360 NL/min–1650NL/min



Applications / Features

- The product adopts multi–stage large–flow vacuum tube, which can be widely used in various industries.
- The selection of vacuum degree is rich in types, which can cope with various working conditions and scenarios.
- High–performance muffler with external threaded port to expand external exhaust mode.
- Tool–less disassembly structure design, easier maintenance.
- Rich interface design, more convenient for customers to use.



1. Air supply port
2. The vacuum port (1) – connected to the vacuum gauge
3. Vacuum port (2) – connected to vacuum suction cup
4. Exhaust port
5. Install special bracket
6. Single–layer low board
7. Upper cover
8. Muffler

How to Order?

Series No.	Specification	Vacuum Tube Type	—	Connection Board Type	—	Sealing Material	—	Check Valve
EVC: EVC Series		L: – 72 kPa H: – 92 kPa				N: Nitrile rubber (default) V: Fluororubber		Blank: Blank (default) A: With

Code	Specification	
25	1vacuum tube	single–layer bottom plate
50	2vacuum tubes	
75	3vacuum tubes	double–layer bottom plate
100	4vacuum tubes	
125	5vacuum tubes	three–layer bottom plate
150	6vacuum tubes	

Code	Connection Board Type	Air Supply Port	Vacuum Port (2)	Exhaust Port
D	Applicable specifications 25, 50	G1/4	G3/4	G3/4
	Applicable specifications 75, 100	G1/4	G3/4	G3/4
B	Applicable specifications 125, 150	G1/4	G1	G1

Order Example: EVC series vacuum generator, single base plate, 1 pc of vacuum tube, vacuum tube type, connecting plate type, applicable specifications25， Air supply port, vacuum port, exhaust hole, NBR, check valve, ordering code: EVC25L–D–N–A

EVC Series Vacuum Generator

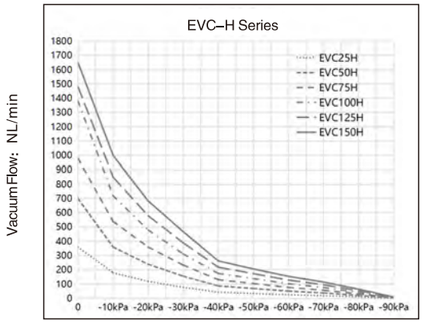
Performance Parameter

Specifications And Models	Supply Gas Pressure(MPa)	Maximum Vacuum Degree(–kPa)	Maximum Vacuum Flow(NL/min)	Gas Consumption(NL/min)	Recommended Diameter Of Air Supply Port(mm)	Recommended Pipe Diameter For Vacuum Port(mm)
EVC25H	0.45	92	360	135	8	25
EVC50H	0.45	92	700	270	8	25
EVC75H	0.45	92	980	405	10	32
EVC100H	0.45	92	1380	540	10	32
EVC125H	0.45	92	1480	675	12	45
EVC150H	0.50	92	1650	810	12	45
EVC25L	0.35	72	330	110	8	25
EVC50L	0.35	72	660	230	8	25
EVC75L	0.35	72	990	365	10	32
EVC100L	0.35	72	1220	445	10	32
EVC125L	0.35	72	1350	545	12	45
EVC150L	0.35	72	1470	650	12	45

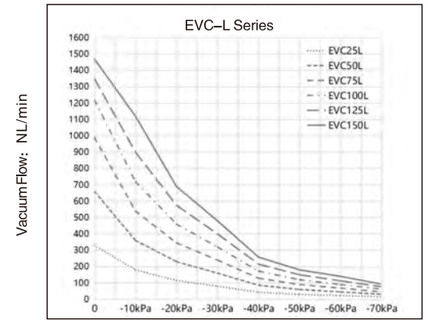
Vacuum Flow Rate Of Different Vacuum Degrees (-kpa) (NL/min)

Specifications And Models	Supply Gas Pressure (MPa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree –kPa
EVC25H	0.45	135	360	180	120	78	44	35	26	19	11	2	92
EVC50H		270	700	360	240	156	88	70	52	38	22	4	
EVC75H		405	980	540	360	234	131	104	77	58	32	5	
EVC100H		540	1380	720	480	312	175	139	103	77	43	7	
EVC125H		675	1480	850	580	390	219	174	129	96	54	9	
EVC150H	0.50	810	1650	1000	684	468	263	207	155	115	65	10	
EVC25L	0.35	110	330	180	115	80	43	30	23	15	—	—	72
EVC50L		230	660	360	230	160	86	60	45	31	—	—	
EVC75L		365	990	540	345	240	129	90	68	46	—	—	
EVC100L		445	1220	720	460	320	172	120	90	62	—	—	
EVC125L		545	1350	900	575	400	215	150	113	77	—	—	
EVC150L		650	1470	1120	690	480	258	180	140	93	—	—	

EVC–H Vacuum flow rate of different vacuum degrees (–kpa) (NL/min)



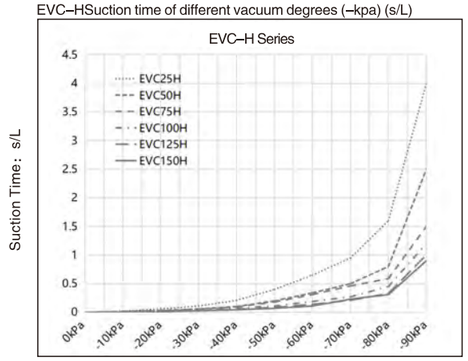
EVC–L Vacuum flow rate of different vacuum degrees (–kpa) (NL/min)



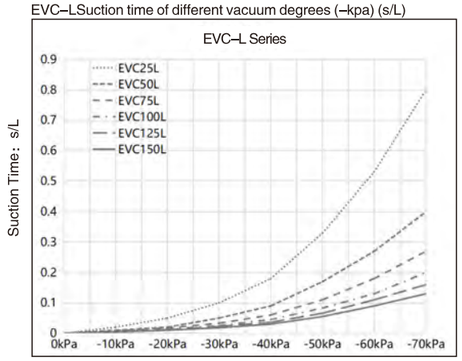
◎ EVC-Hsuction Time Of Different Vacuum Degrees (-kpa) (s/L)

Specifications And Models	Supply Gas Pressure (MPa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree –kPa
EVC25H	0.45	135	0	0.02	0.06	0.11	0.21	0.40	0.65	0.95	1.60	4.00	92
EVC50H		270	0	0.014	0.031	0.06	0.10	0.20	0.34	0.50	0.80	2.50	
EVC75H		405	0	0.012	0.029	0.058	0.095	0.18	0.31	0.46	0.59	1.50	
EVC100H		540	0	0.010	0.025	0.043	0.075	0.11	0.19	0.27	0.45	1.20	
EVC125H		675	0	0.006	0.015	0.029	0.052	0.09	0.14	0.21	0.33	1.00	
EVC150H	0.50	810	0	0.005	0.013	0.027	0.045	0.07	0.11	0.23	0.46	0.90	
EVC25L	0.35	110	0	0.02	0.05	0.10	0.18	0.33	0.53	0.80	—	—	72
EVC50L		230	0	0.01	0.02	0.05	0.09	0.17	0.27	0.40	—	—	
EVC75L		365	0	0.007	0.017	0.033	0.060	0.110	0.18	0.27	—	—	
EVC100L		445	0	0.005	0.013	0.025	0.045	0.083	0.13	0.20	—	—	
EVC125L		545	0	0.005	0.012	0.022	0.036	0.066	0.11	0.16	—	—	
EVC150L		650	0	0.004	0.010	0.018	0.030	0.055	0.09	0.13	—	—	

EVC–HSuction time of different vacuum degrees (–kpa) (s/L)

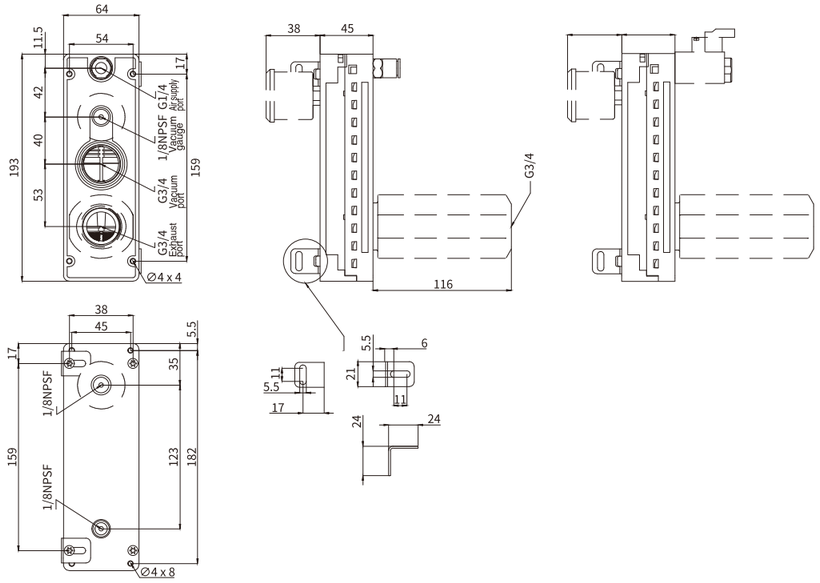


EVC–LSuction time of different vacuum degrees (–kpa) (s/L)



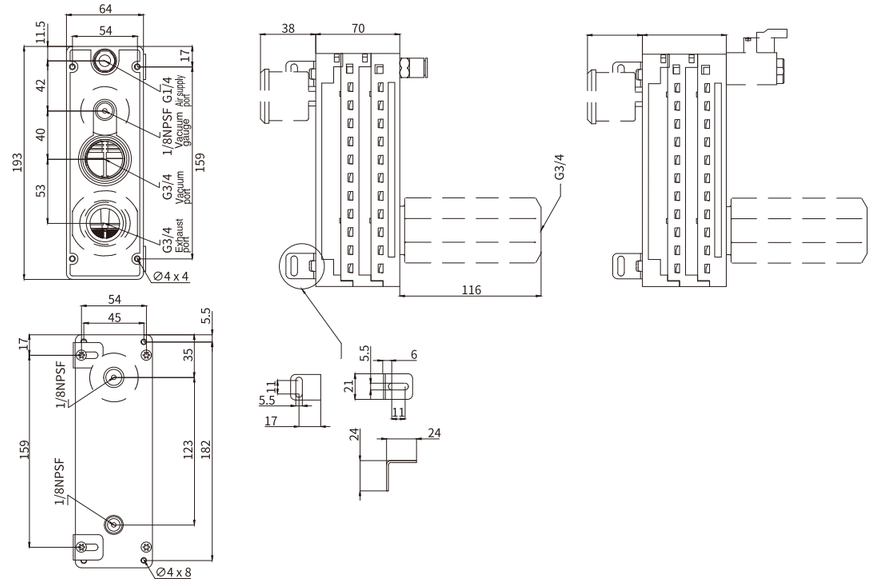
◎ Main Dimension

EVC25/50 (H/L)

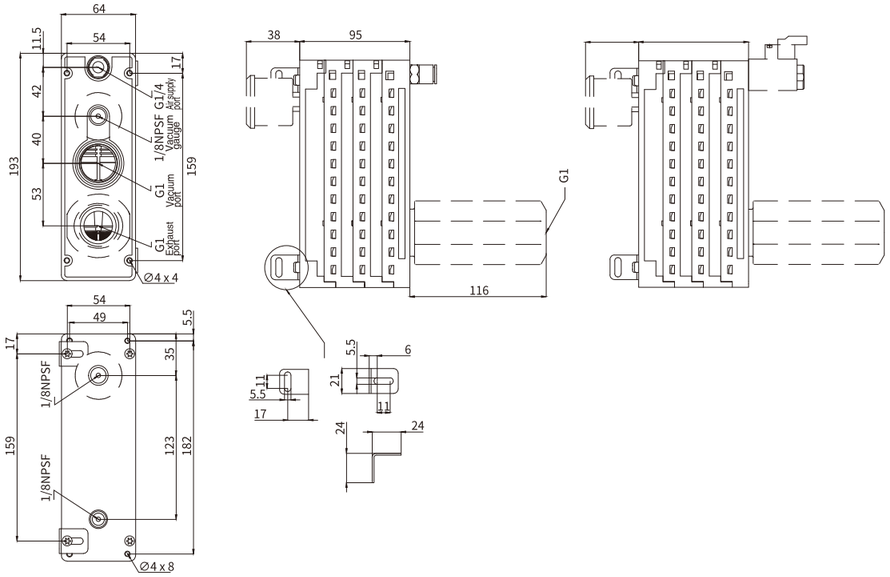


◎ Main Dimension

EVC75/100 (H/L)



EVC125/150 (H/L)



EBM

Vacuum Generator

Vacuum Flow：30 NL/min – 215 NL/min



EBM–A



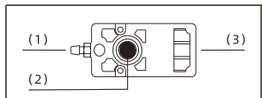
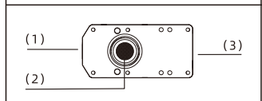
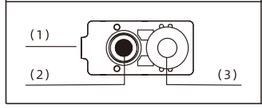
EBM–B



EBM–C

Application/Features

- Products using multistage vacuum tube, engraved widely used in many industries.
- Rich choice of vacuum degree,so it can cope with a variety of working conditions.
- Small size, light weight, but with large vacuum flow.

	A type baseboard	1、Air supply port 2、Vacuum port 3、Vent	Apply 05、10
	B type baseboard		Apply 05、10、20、30
	C type baseboard		Apply 05、10、20、30

How to Order?

Series No.	Specification	–	Baseboard Type	–	Sealing Material
EBM:EBM Series (vacuum degree：–84) EBX：EBX Series (vacuum degree：–91)	05：1 vacuum tubes 10：2 vacuum tubes 20：4 vacuum tubes 30：6 vacuum tubes		A：ϕ6pipe with pagoda connector, built–in muffler B：G1/8internal thread, built–in muffler C：internal thread, external muffler		N：Nitrile rubber (default) V：Fluororubber

Order Example: EBM series vacuum generator, 1 set of vacuum tube, ϕ6 gas pipe pagoda tip built–in muffler, NBR, Order code is: EBM05–A–V

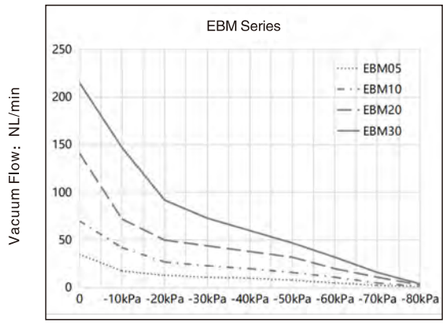
Performance Parameter

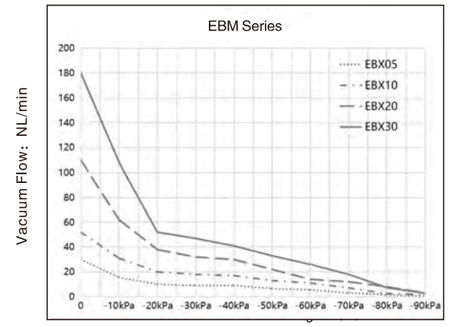
Specifications And Models	Supply Gas Pressure(MPa)	Maximum Vacuum Degree(–kPa)	Maximum Vacuum Flow (NL/min)	Gas Consumption(NL/min)	Recommended Diameter Of Air Supply Port (mm)	Recommended Pipe Diameter For Vacuum Port (mm)
EBM05	0.45	84	35	26	6	8
EBM10	0.45	84	70	52	6	10
EBM20	0.45	84	141	107	8	12
EBM30	0.6	84	215	155	8	12
EBX05	0.45	91	30	24	6	8
EBX10	0.45	91	52	49	6	10
EBX20	0.45	91	110	105	8	12
EBX30	0.6	91	180	154	8	12

EBM Series Vacuum Generator

Vacuum Flow Rate 0f Different Vacuum Degrees (-kpa) (NL/min)

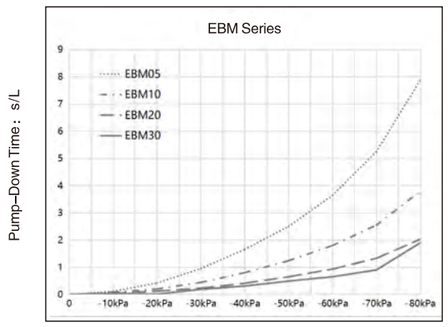
Specifications And Models	Air Supply Pressure (Mpa)	Gas Consumption (NL/min)	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree –Kpa
EBM05	0.45	26	35	17.5	13	11	10	8	5	2.5	0.8	––	84
EBM10	0.45	52	70	42	27	23	20	16	11	5	1.3	––	84
EBM20	0.45	107	141	72	50	44	38	32	20	11	3	––	84
EBM30	0.6	155	215	147	92	73	60	47	32	16	4.1	––	84
EBX05	0.45	24	30	15.5	10	9	9	6.5	5.5	3	1.5	0.5	91
EBX10	0.45	49	52	31	20	18	17	13	11	7	2.5	1.5	91
EBX20	0.45	105	110	62	38	32	30	22	14	12	8	3	91
EBX30	0.6	154	180	108	52	47	41	33	26	18	7.2	2.7	91

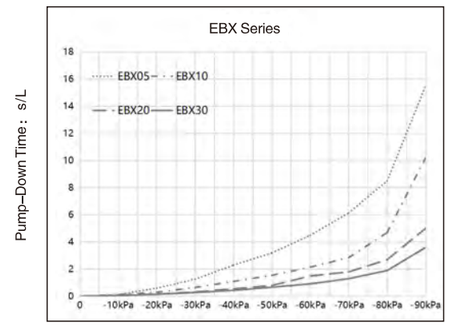




Suction Time Of Different Vacuum Degrees (-kpa) (S/L)

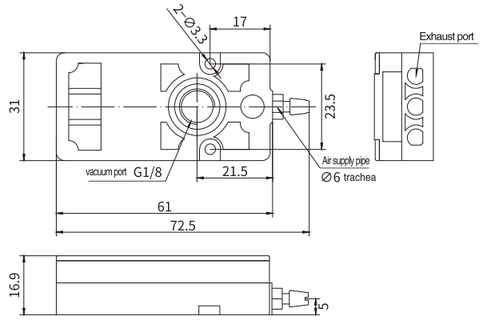
Specifications And Models	Air Supply Pressure (Mpa)	Gas Consumption (NL/min)	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree –Kpa
EBM05	0.45	26	0	0.11	0.42	0.95	1.66	2.5	3.65	5.25	7.89	––	84
EBM10	0.45	52	0	0.08	0.2	0.44	0.8	1.24	1.8	2.55	3.8	––	84
EBM20	0.45	107	0	0.04	0.12	0.23	0.41	0.65	0.93	1.33	2.03	––	84
EBM30	0.6	155	0	0.040	0.010	0.186	0.310	0.490	0.650	0.900	1.900	––	84
EBX05	0.45	24	0	0.13	0.6	1.26	2.3	3.2	4.5	6.15	8.5	15.5	91
EBX10	0.45	49	0	0.11	0.3	0.65	1.1	1.55	2.15	2.85	4.7	10.2	91
EBX20	0.45	105	0	0.09	0.16	0.32	0.55	0.8	1.5	1.8	2.7	5.0	91
EBX30	0.6	154	0	0.05	0.15	0.28	0.44	0.67	0.92	1.3	1.9	3.6	91





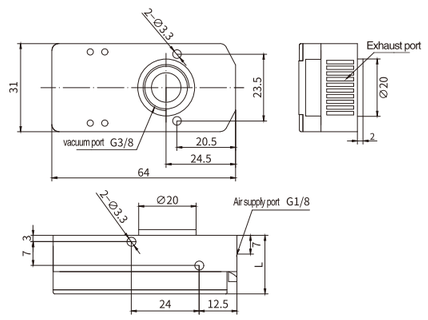
◎ Main Dimension

EBM/X (05、10) –A–□



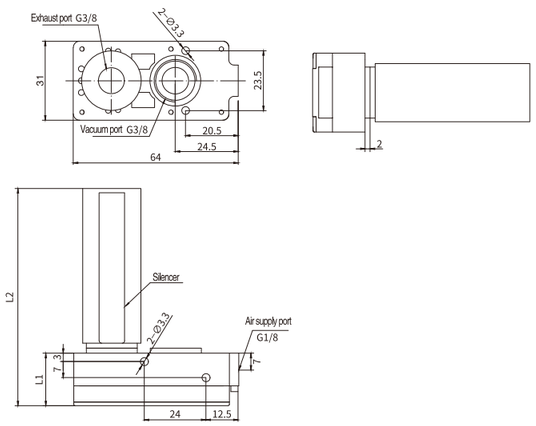
Specification	Jointed Sheet	Connecting Plate Specification	Air Supply Port Specifications	Vacuum Port Specification	Weight (g)
05	PA66	A	Ø6	G1/8	36
10	PA66		Ø6		35.5

EBM/X (05、10、20、30) –B–□



Specification	Jointed Sheet	Connecting Plate Specification	Air Supply Port Specifications	Vacuum Port Specification	L	Weight (g)
05	PA66	B	G1/8	G3/8	20.7	39.5
10	PA66				20.7	39
20	PA66				28	50
30	PA66				35	63

EBM/X (05、10、20、30) –C–□



Specification	Jointed Sheet	Connecting Plate Specification	Air Supply Port Specifications	Vacuum Port Specification	L1	L2	Weight (g)
05	PA66	C	G1/8	G3/8	20.7	87	55
10	PA66				20.7	87	54.5
20	PA66				28	94.2	67
30	PA66				35	101.5	81

EZX

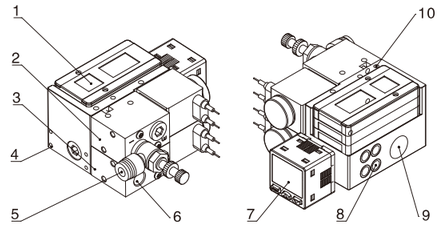
Integrated Vacuum Generator

Vacuum Flow：87 NL/min – 125 NL/min



◎ Application/Features

- Built–in big flow and high vacuum generator, integrate vacuum generator and vacuum break, controlled by high performance direct–acting solenoid valve, short response time.
- Standard configuration with vacuum flow control valve,with independent control port from the vacuum air supply port, double regulation by independent pressure and flow.
- Vacuum pressure regulating valve optional. Under the fixed air supply pressure, the vacuum pressure value could be adjusted manually. Could meet different vacuum pressure requirements for different working conditions.
- Digital display vacuum pressure switch is optional, variety output modes optional.



1. Vacuum generator body
2. Release valve
3. Supply valve
4. Threaded hole (4–M3)
5. Vacuum break port (Ø6)
6. Inlet port (G1/8)
7. Digital display vacuum pressure switch (optional)
8. Exhaust port
9. Vacuum port (G3/8)
10. Installation hole (2–Ø3.2)

◎ How to Order?

Series No.	Specification	—	Vacuum Pressure Adjusting Valve	—	Digital Display Vacuum Pressure Switch
EZX：EZX series	20: Type 20 vacuum tube 30: Type 30 vacuum tube		Blank: Blank adjusting valve A: with adjusting valve		Blank: Blank N: 2NPN+1 analog quantity(1–5V) P: 2PNP+1 analog quantity(1–5V)

Order Example: EZX series integrated vacuum generator, type 30 vacuum tube, with adjusting valve, 2PNP+1 analog quantity(1–5V) digital display vacuum pressure switch. The order code is: EZX30–A–N

◎ Performance Parameter

Specification and Models	Rated Air Supply Pressure (MPa)	Maxium Vacuum Degree (–kPa)	Maxium vacuum flow (NL/min)	Air comsumption (NL/min)	Air Supply Port (mm)	Vacuum Port (mm)	Valve Working Voltage
EZX20–	0.45	91	87	106	G1/8	G3/8	DC24V ± 10%
EZX30–	0.60	91	125	160	G1/8	G3/8	DC24V ± 10%

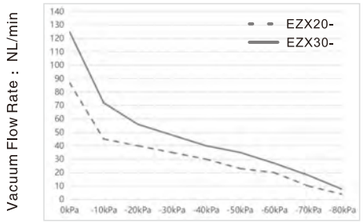
◎ Vacuum Flow Rate Of Different Vacuum Degrees (-kpa) (NL/min)

Specification and Models	Rated Air Supply Pressure(MPa)	Air Comsumption (NL/min)	0	10	20	30	40	50	60	70	80	Maxium Vacuum Degree(–kPa)
EZX20–	0.45	106	87	45	40	35	30	23	20	10	3.8	91
EZX30–	0.60	160	125	72	56	48	40	35	27	18	7.5	91

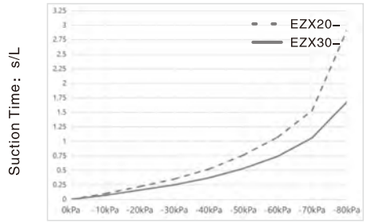
Suction Time Of Different Vacuum Degrees (-kpa) (S/L)

Specification and Models	Rated Air Supply Pressure(MPa)	Air comsumption (NL/min)	0	10	20	30	40	50	60	70	80	Maxium Vacuum Degree–kPa
EZX20–	0.45	106	0	0.10	0.22	0.35	0.52	0.76	1.07	1.53	2.90	91
EZX30–	0.60	160	0	0.07	0.16	0.25	0.37	0.53	0.74	1.06	1.67	91

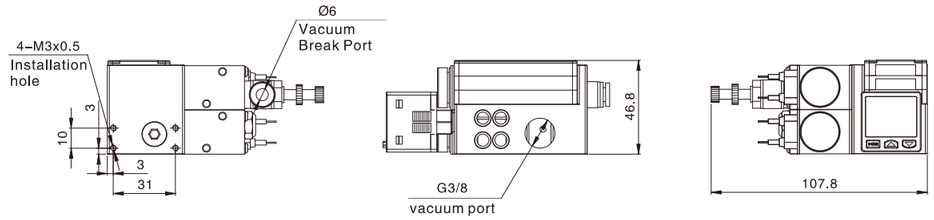
EZX–Vacuum Flow Rate Of Different Vacuum Degrees (–kpa) (NL/min)

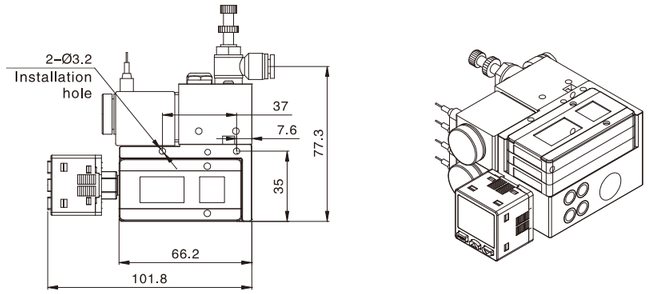


EZX– Suction Time Of Different Vacuum Degrees (–kpa) (s/L)



Main Dimension (mm)





EJM

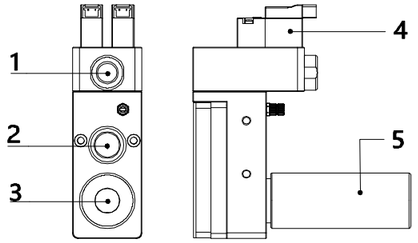
Vacuum Generator

Vacuum Flow: 70NL/min–140NL/min



Application/Features

- The product adopts multistage vacuum tube, can be widely used in a variety of industries.
- High vacuum flow rate and short response time.
- Centralized air supply, solenoid valve air supply, failure control mode.
- With external silencer, excellent noise reduction performance.



1、Gas mouth
2、Vacuum port
3、Exhaust port
4、Solenoid valve
5、Silencer

How to Order?

Series No.	Specification	–	Solenoid Valve Control mode	–	Solenoid Valve Type
EJM:EJM Series	10：2 vacuum tubes 20：4 vacuum tubes				

Code	Supply Valve	Destroy The Valve
D	●	●

Code	Supply Valve	Destroy The Valve
NC	NC	NC
NO	NO	NC

Order Example: EJM series vacuum generator, 1–gang vacuum hose, solenoid valve, controls: supply valve, destructive valve. The ordering code is: EJM10–D–NC

Performance Parameter

Specifications And Models	Air Supply Pressure (Mpa)	Maximum Vacuum: –kpa	Maximum Vacuum Flow NL/min	Gas Consumption NL/min	Recommended Diameter Of Air Supply Port (mm)	Recommended Diameter Of Vacuum Port (mm)
EJM 10–	0.45	84	70	52	8	10
EJM 20–	0.45	84	140	107	8	12

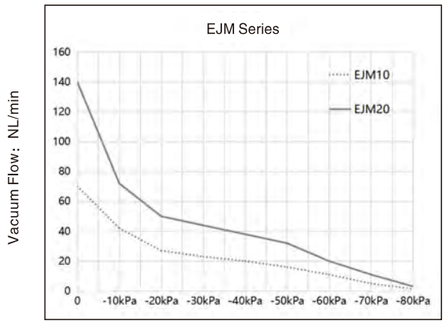
Vacuum Flow Rate Of Different Vacuum Degrees (-kpa) (NL/min)

Specifications And Models	Air Supply Pressure (Mpa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum: –kpa
EJM 10–	0.45	52	70	42	27	23	20	16	11	5	1.3	—	84
EJM 20–	0.45	107	140	72	50	44	38	32	20	11	3	—	84

Suction Time Of Different Vacuum Degrees (-kpa) (S/L)

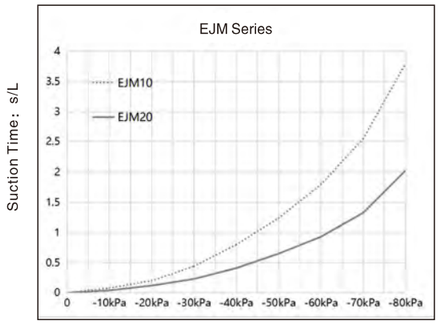
Specifications And Models	Air Supply Pressure (Mpa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum: –kpa
EJM 10–	0.45	52	0	0.08	0.2	0.44	0.8	1.24	1.8	2.55	3.8	—	84
EJM 20–	0.45	107	0	0.04	0.12	0.23	0.41	0.65	0.93	1.33	2.03	—	84

EJM Vacuum flow rate of different vacuum degrees (–kpa) (NL/min)



Vacuum Degree：–kPa

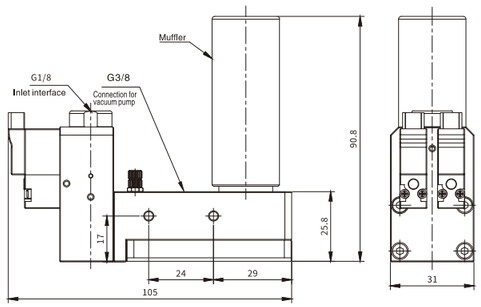
EJM Suction Time of Different Vacuum Degrees (–kPa)



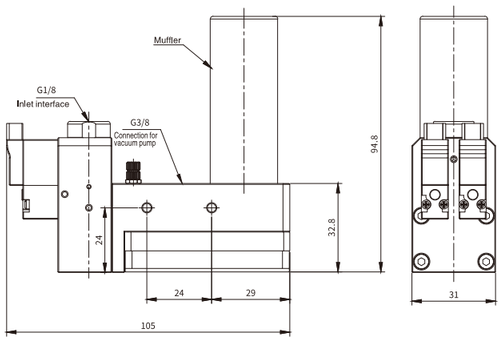
Vacuum Degree：–kPa

Main Dimension

EJM10–D–



EJM20–D–



EGX

Vacuum Generator

Vacuum Flow：180 NL/min – 360 NL/min

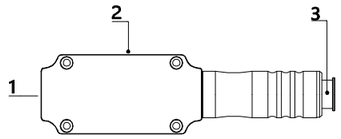


Application/Features

- Products using multistage vacuum tube, engraved widely used in many industries.
- High vacuum flow rate and short corresponding time.
- Rich number of vacuum interfaces, more convenient application.
- Built–in silencer structure, excellent noise reduction performance.

How to Order?

Series No.	–	Specification	Vacuum Tube Type
EGX:EGX Series		02：Two stage vacuum tube 03：Three–stage vacuum tube	H：–94 kPa L：–74 kPa



1、Air supply port
2、Vacuum port
3、Exhaust port

Order Example:

EGX series Vacuum generator, Bipolar vacuum tube, Vacuum tube type:–94KPa .
Ordering code: EGX–02H

Performance Parameter

Specifications And Models	Supply Gas Pressure (MPa)	Maximum Vacuum Degree (–kPa)	Maximum Vacuum Flow (NL/min)	Gas Consumption (NL/min)	Recommended Diameter Of Air Supply Port (mm)	Recommended Pipe Diameter For Vacuum Port(mm)
EGX–02H	0.45	94	190	120	8	10
EGX–02L	0.35	74	180	108	8	10
EGX–03H	0.45	94	360	120	8	10
EGX–03L	0.35	74	330	108	8	10

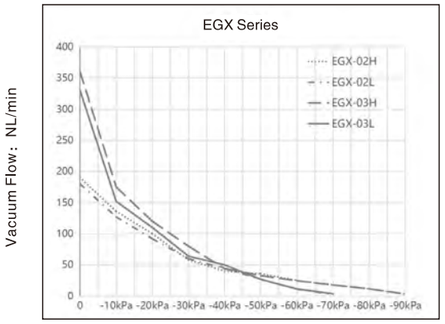
Vacuum Flow Rate Of Different Vacuum Degrees (-kpa) (NL/min)

Specifications And Models	Supply Gas Pressure(MPa)	Gas Consumption (NL/min)	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree (–kPa)
EGX–02H	0.45	120	190	136	100	58	40	36	25	17.8	11.7	3.1	94
EGX–02L	0.35	108	180	127	92.0	60.0	44.0	27.0	11.0	2.4	––	––	74
EGX–03H	0.45	120	360	175	12.0	80.0	44.0	32.7	24.5	17.8	11.6	3.2	94
EGX–03L	0.35	108	330	152	110	64.0	50.0	26.7	11.5	3.6	––	––	74

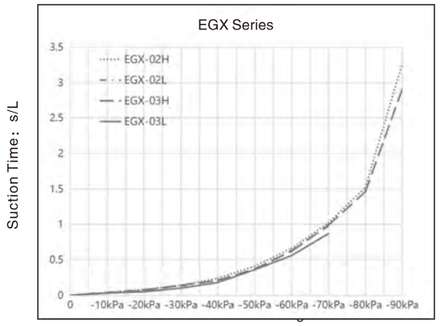
Suction Time Of Different Vacuum Degrees (-kpa) (s/L)

Specifications And Models	Supply Gas Pressure(MPa)	Gas Consumption (NL/min)	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree (–kPa)
EGX–02H	0.45	120	190	0.04	0.08	0.14	0.24	0.41	0.66	1.02	1.52	3.27	94
EGX–02L	0.35	108	180	0.04	0.08	0.13	0.21	0.37	0.63	0.98	––	––	74
EGX–03H	0.45	120	360	0.03	0.07	0.14	0.21	0.37	0.62	0.99	1.46	2.91	94
EGX–03L	0.35	108	330	0.03	0.05	0.10	0.18	0.36	0.56	0.87	––	––	74

EGX Vacuum Flow Rate Of Different Vacuum Degrees (–kpa) (NL/min)

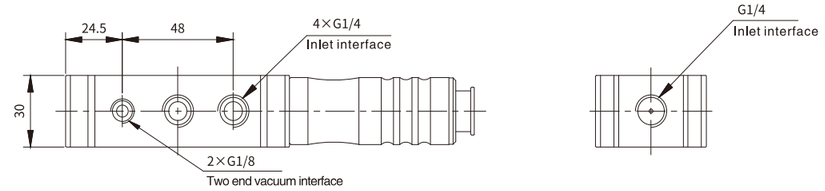


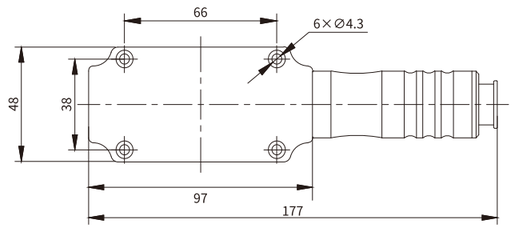
EGX Suction Time Of Different Vacuum Degrees (–kpa) (s/L)



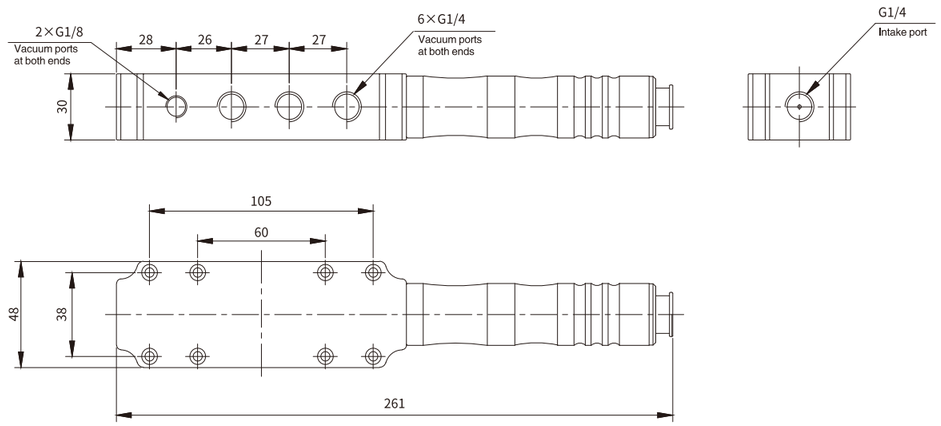
◎ Main Dimension

EGX–02H(L)





EGX–03H(L)



EZL1

Multistage Vacuum Generator



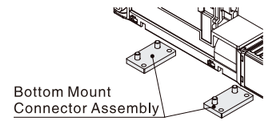
With Valve | Blank Valve | Vacuum Pressure Switch Specifications | With Vacuum pressure Detection Port | Exhaust Port Specifications

◎ How to Order?

Blank Valve

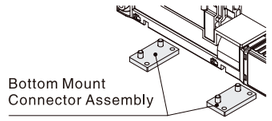
Series NO	Exhaust Type	–	Vacuum Pressure Detection part	Output Type	–	□
EZL112A：Multistage Vacuum Generator	No Mark: Muffler exhaust P:Rc1/2 Exhaust port PF:G1/2 Exhaust port PN:1/2––14NPT Exhaust port Note:Rc1/2 Exhaust port, 1/2–14NPT Exhaust port, are all customized product		Blank:Blank GN:Vacuum pressure detection port:(G1/8) G:Pressure Gauge D:Vacuum Pressure switch	N:NPNOpen collector，1 Output P:PNPOpen collector，1 Output A:NPNOpen collector，2 Output B:PNPOpen collector，2 Output		Blank:Blank B:Bottom mount connector assembly （ZL112A–AD1–A） Note: For compatibility with the 27 mm spacing of chassis screws in the previous EZL212 model. Essential for replacing the bottom–mounted EZL212 (2 pieces/set, with 4 screws). Side mounting holes are interchangeable Blank additional options.

Order Example: ETZL112A Multistage Vacuum Generator,G1/2 Exhaust Port type, vacuum pressure switchNPN open collector : 1 Output Bottom mount connector assembly （ZL112A–AD1–A），ERP code is:EZL112APF–DN–B



With Valve

Series NO	Exhaust Type	–	Supply Valve、Release Valve Combination	Rated Voltage	Wiring	□	–	Vacuum Pressure Detection Part	Output Type	–	□
EZL112A：Multistage Vacuum Generator	No Mark: Muffler exhaust P:Rc1/2 Exhaust port PF:G1/2 Exhaust port PN:1/2––14NPT Exhaust port Note:Rc1/2 Exhaust port, 1/2–14NPT Exhaust port, are all customized product		K1:Supply Valve(N.C.) Release Valve(N.C.) K2:Supply Valve (N.C)	5:DC24V 6:DC12V	Z: Solenoid valve with LED indicator and overload protection	Code: L — Plug Type with Wire: (Length 300mm)		Blank:Blank GN:Vacuum pressure detection port (G1/8) G:Pressure gauge D:Vacuum pressure switch	N:NPN Open collector, 1 Output P:PNP Open collector,1 Output A:NPN Open collector,2 Output B:PNP Open collector2 Output		Blank:Blank B:Bottom mount connector assembly （ZL112A–AD1–A） Note: For compatibility with the 27 mm spacing of chassis screws in the previous EZL212 model. Essential for replacing the bottom–mounted EZL212 (2 pieces/set, with 4 screws). Side mounting holes are interchangeable Blank additional options.



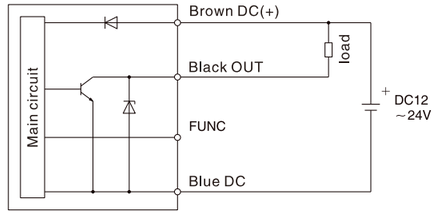
Order Example: ETZL112A Multistage Vacuum Generator,G1/2 Exhaust Port type,Supply Valve(N.C.)， Release Valve(N.C.)， Rated Voltage DC24V vacuum pressure switch,NPN open collector : 1 Output Bottom mount connector assembly （ZL112A–AD1–A) ERP code is:EZL112APF–K15Z–DN–B

Product Specifications

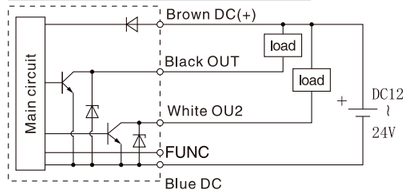
Model		EZL112A
Orifice(mm)		1.2
Supply pressure (MPa)		0.45
Vacuum pressure (kPa)		–84
Suction flow (Lmin(ANR))		100
Air consumption (Lmin(ANR))		57
Supply pressure range(MPa)		0.2–0.5
Working temperature (℃)		5–50(No condensation)
Use fluid		clean air
Vibration resistance [m/s²]	No pressure switch	30
	With pressure switch	20
Shock resistance [m/s²]	No pressure switch	150
	With pressure switch	100
Exhaust noise [dB(A)]		65

Internal Circuit and Wiring Example of Vacuum Pressure Switch

NPN for output specification N (1 output)

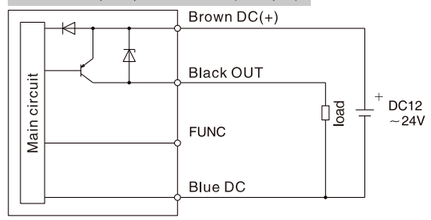


NPN for output specification A (2 output)

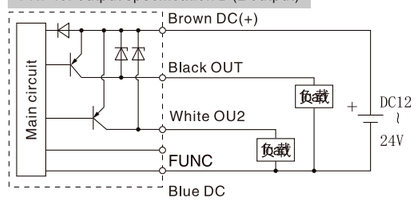


Max.28V， 80mA Residual voltage below 2V

PNP for output specification P (1 output)



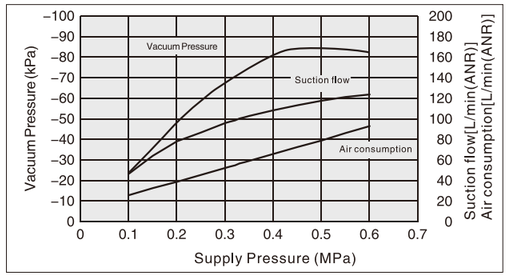
PNP for output specification B (2 output)



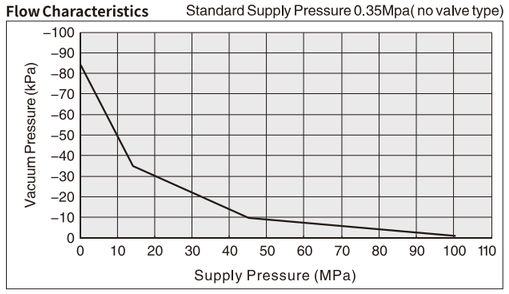
Max.28mA， 80mA Residual voltage below 2V

Exhaust characteristics, flow characteristics, time to vacuum (time value)

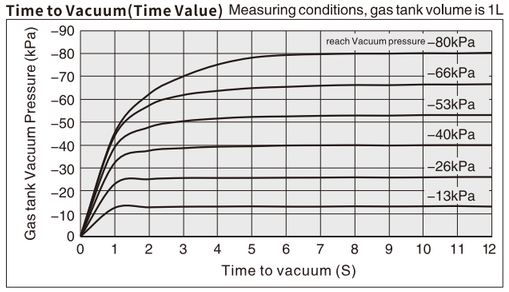
Exhaust Characteristics



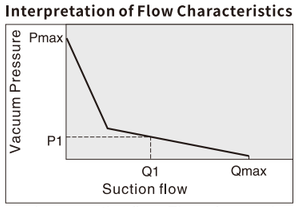
Flow Characteristics Standard Supply Pressure 0.35Mpa(no valve type)



Time to Vacuum(Time Value) Measuring conditions, gas tank volume is 1L



Interpretation of Flow Characteristics



The flow characteristics reflect the relationship between the vacuum degree of the vacuum generator and the suction flow rate. When the suction flow rate changes, the vacuum degree will also change. Generally speaking, it reflects the relationship of the vacuum generator under the standard operating pressure. In the left figure, Pmax represents the maximum vacuum pressure, and Qmax represents the maximum suction flow. The value used as a specification in samples etc. is this value. Changes in vacuum pressure are described on the right.

1：After blocking and sealing the suction port of the vacuum generator, the suction flow rate becomes 0 and the vacuum pressure becomes the highest Pmax
2：When the suction port is opened and air flows (air leakage), the suction flow rate increases and the vacuum pressure becomes lower. (P1 and Q1)
3：After further opening the suction port and fully opening it, the suction flow rate becomes the maximum (Qmax), and the vacuum pressure is almost 0 atmosphere. Similar to situations where the adsorption air permeability is high or the leakage is the highest, the vacuum pressure will hardly become high. It should be noted that

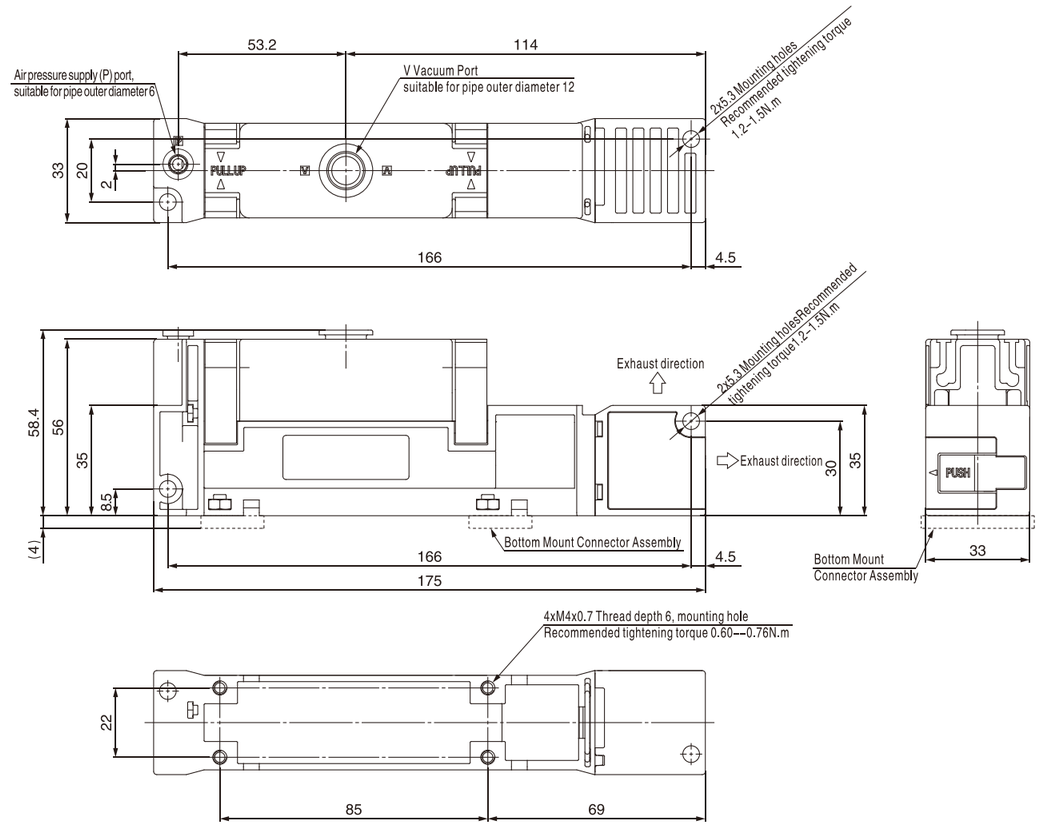
Interpretation of time to reach vacuum

This reflects the time it takes for the gas tank of the sealed container 1L to reach vacuum pressure determined by the adsorption conditions such as the workpiece from atmospheric pressure. In the case of EZL1, it takes about 7.0 seconds to reach the vacuum pressure –80kPa.

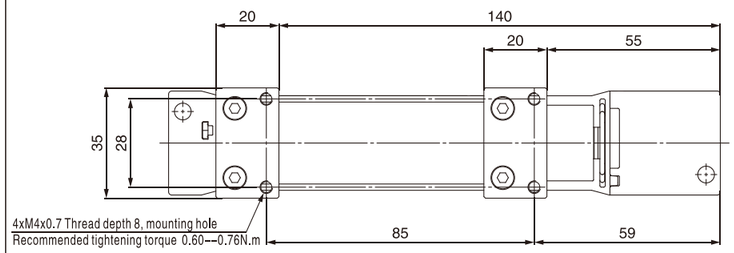
E•MC®

Dimensional Drawing

EZL112A(-B) Valve (Blank supply valve and release valve)



EZL112A-B with bottom mounted connector components

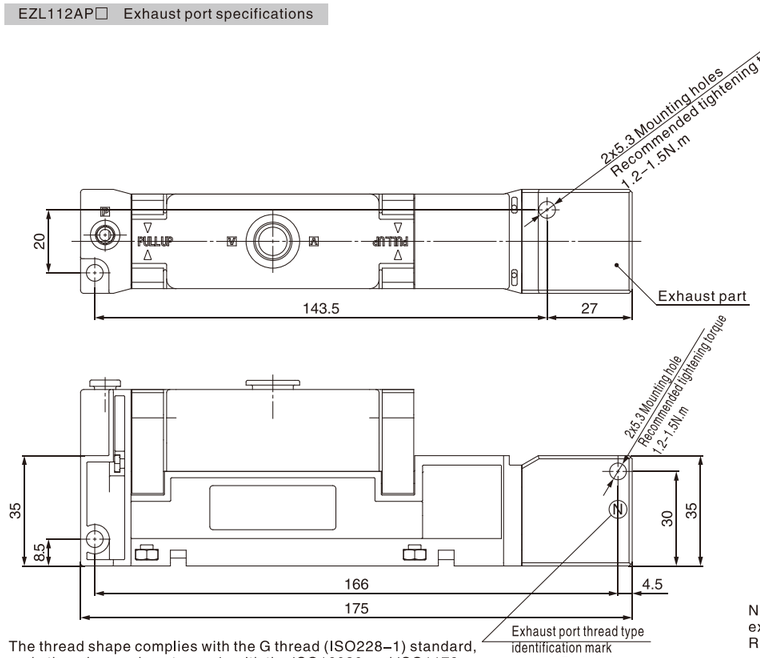


Circuit diagram

When installing the main body, please use the above recommended tightening torque. If excessive torque is used, the product may be damaged.

Dimensional Drawing

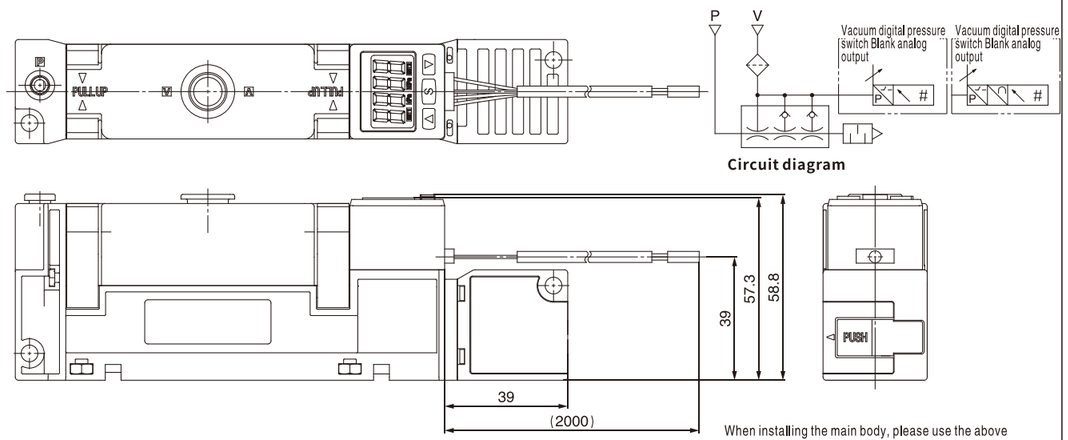
EZL112AP□ Exhaust port specifications



The thread shape complies with the G thread (ISO228–1) standard, and other shapes do not comply with the ISO16030 and ISO1179 standards. In addition, keep the length of the external thread part of the piping to less 9.

Note:When piping the exhaust port, fix the exhaust block instead of the product body. Recommended tightening torque:20–25N.m

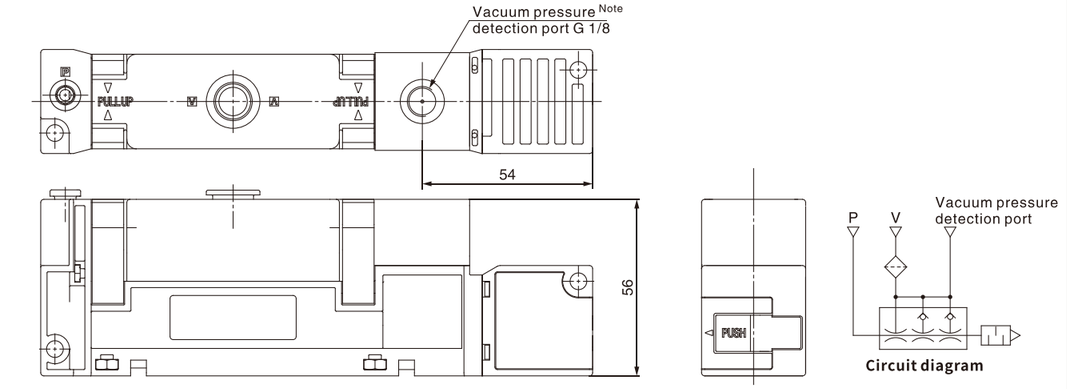
EZL112A–D□□□ With vacuum pressure switch specifications



When installing the main body, please use the above recommended tightening torque. If excessive torque is used, the product may be damaged.

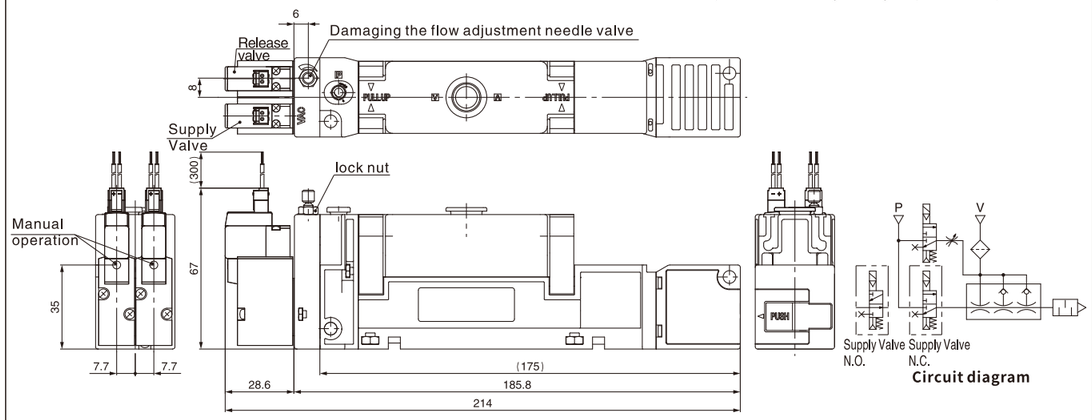
Dimensional Drawing

EZL112A–GN Specifications with vacuum pressure detection port

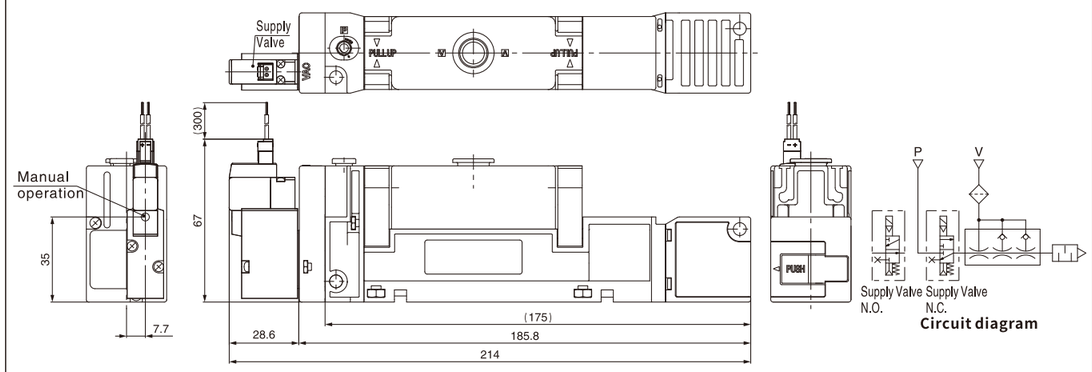


Note:When installing a pipe fitting, etc., on the vacuum pressure detection port, fix the clamping surfaces at a distance of 18 inches before proceeding. (Recommended tightening torque: 3–5N.m)

EZL112A–K1□L□□ Valve (With supply valve and release valve)



EZL112A–K2□L□□ Valve (With supply valve)



EZL3/EZL6

Multistage Vacuum Generator


EZL3


EZL□□06


Vacuum Pressure Switch Specifications


Supply Valve and Release Valve


EZL6

Blank Valve


EZL□□04

Connecting pipe specifications


Vacuum pressure gauge specifications


With vacuum pressure detection port


Exhaust Port Specifications

How to Order?

Blank Valve

Series NO	Maximum Suction Flow	Standard Supply Pressure	Vacuum (2/V) Port Size/Applicable Tube Outer Diameter of Supply (1/P) Port	Exhaust specifications	_	Vacuum Pressure Detection Part	Output Specifications	–	□

EZL: Multistage Vacuum Generator

3：300L/min(ANR)
6：600L/min(ANR)
Note:When connecting pipes and exhausting ports

M：0.35MPa
H：0.50MPa

Mark	2/V Vacuum Port	(1/P)supply port
06	Rc3/4	8(Metric system)
04	2XRc1/2(Branch pipe specifications)	
~~F06~~	G3/4①	
~~F04~~	2XG1/2①(Branch pipe specifications)	
~~N06~~	NPT3/4	5/16" Imperial
~~N04~~	2XNPT1/2(Branch pipe specifications	

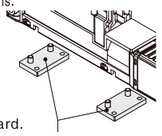
No Mark: Muffler exhaust
P:Rc1 Exhaust port
PF:G1 Exhaust port
PN: NPT 1

Blank:Blank
GN:Vacuum pressure detection port:(G)(Rc 1/8,G 1/8,NPT1/8)
G:Mechanical pressure gauge
D:Vacuum Pressure switch

N:NPN Open collector 1 Output
P:PNP Open collector 1 Output
A:NPN Open collector 2 Output
B:PNP Open collector 2 Output

Blank:Blank
B:Bottom mount connector assembly (ZL112A-AD1-A)

Note: For compatibility with the 27 mm spacing of chassis screws in the previous EZL212 model. Essential for replacing the bottom-mounted EZL212 (2 pieces/set, with 4 screws). Side mounting holes are interchangeable Blank additional options.


Bottom Mount Connector Assembly

Order Example:

EZL multi-stage vacuum generator, maximum suction flow 300L/min (ANR), standard supply pressure 0.35MPa, Vacuum (2/V) port Rc3/4, supply (1/P) port Rc3/4, exhaust port Rc1，vacuum pressure switch, NPN open collector, 1 output, bottom mounting connector assembly (ZL112A-AD1-A)。ERP code is:EZL3H06P-DN-B

Note1: The shape of the screw match with the G thread (ISO228-1) standard, and the other shapes do not reach the ISO standard.

With Valve

Series NO	Maximum Suction Flow	Standard Supply Pressure	Vacuum (2/V) Port Size/Applicable Tube Outer Diameter Of Supply (1/P) Port	Exhaust Specifications	_	Supply valve, release valve combination	Rated Voltage	Wire Lead-Out Mthod	Indicator Light and Overvoltage Protection Circuit	_	Vacuum Pressure Detection Part	Output Specifications	–	□

EZL: Multistage Vacuum Generator

3：300L/min(ANR)
6：600L/min(ANR)
Note:When connecting pipes and exhausting ports

M：0.35MPa
H：0.50MPa

Mark	2/V Vacuum Port	(1/P)supply port
06	Rc3/4	8(Metric system)
04	2XRc1/2(Branch pipe specifications)	
~~F06~~	G3/4①	
~~F04~~	2XG1/2①(Branch pipe specifications)	
~~N06~~	NPT3/4	5/16" Imperial
~~N04~~	2xNPT1/2(Branch pipe specifications)	

No Mark: Muffler exhaust
P:Rc1 Exhaust port
PF:G1 Exhaust port
PN: NPT 1

K1:Supply Valve(N.C.),Release Valve(N.C.)②
K2:Supply Valve(N.C.)
B1:Supply Valve(N.O.),Release Valve(N.C.)
B2:Supply Valve(N.O.)

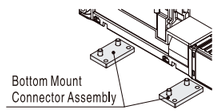
5:DC24V

Z:Non-locking push type with indicator light and overvoltage protection circuit

Blank:Blank
GN:Vacuum pressure detection port:(G)(Rc 1/8,G 1/8,NPT1/8)
G:Mechanical pressure gauge
D:Vacuum Pressure switch

N:NPN Open collector 1 Output
P:PNP Open collector 1 Output
A:NPN Open collector 2 Output
B:PNP Open collector 2 Output

Code	M type Plug
L	L:with Wire (Length 300mm)


Bottom Mount Connector Assembly

Blank:Blank
B:Bottom mount connector assembly (ZL112A-AD1-A)

Note: For compatibility with the 27 mm spacing of chassis screws in the previous EZL212 model. Essential for replacing the bottom-mounted EZL212 (2 pieces/set, with 4 screws). Side mounting holes are interchangeable Blank additional options.

Order Example: EZL multi-stage vacuum generator, maximum suction flow 300L/min (ANR), standard supply pressure 0.35MPa, vacuum (2/V) port Rc3/4, supply (1/P) port Rc3/4, port Exhaust Rc1. Supply valve (N.C), release valve (N.C.), rated voltage 5, wire lead-out method M-type socket type, with indicator light and overvoltage protection circuit non-locking push type, vacuum pressure switch, NPN open collector , 1 output, bottom mount connector assembly (ZL112A-AD1-A). ERP code is: EZL3H06P-K15DC24VLZ-DN-B

Note: 1. Screw shape match with G thread, other shapes do not match with ISO16030 and ISO1179 standards.
2. When selecting a pressure sensor with energy-saving function, only "K1" is available

EZL3/EZL6 Multistage Series Vacuum Generator

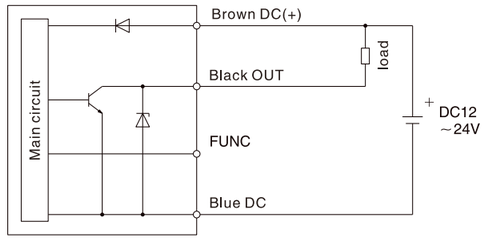
E•MC®

Specifications

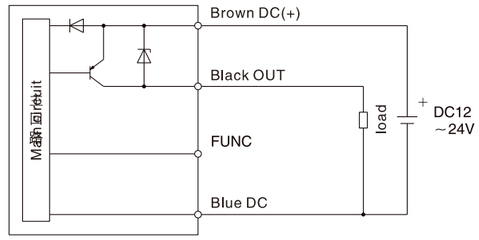
Model		EZL3M□□	EZL3H□□	EZL6M□□	EZL6H□□
Nozzle diameter [mm]		1.9	1.5	1.9X2	1.5X2
Supply Pressure [MPa]	Blank Valve	0.35	0.50	0.35	0.50
	with Valve			0.37	0.52
Vacuum Pressure [kPa]		–91	–93	–91	–93
Suction flow [Lmin(ANR)]		280		580	
Connection/vent exhaust specifications		300		600	
Air consumption [Lmin(ANR)]		150	135	300	270
Supply pressure range [MPa]		0.2~0.6			
Operating temperature range [℃]		5~50			
Use fluid		clean air			
Vibration resistant [m/s²]		20			
Impact resistance[m/s²]		100			
Exhaust noise [dB(A)]		68			

Internal Circuit and Wring Example of Vacuum Pressure Switch

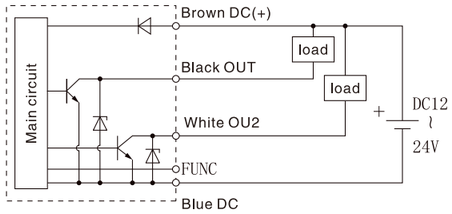
For output specification N NPN (1 output)



For output specification P PNP (1 output)

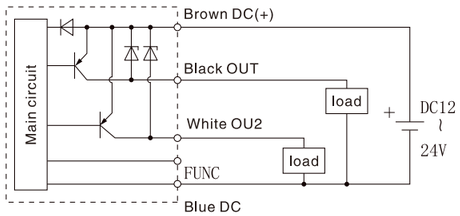


For output specification A NPN (2 output)



Max.28mA， 80mA Residual voltage below 2V

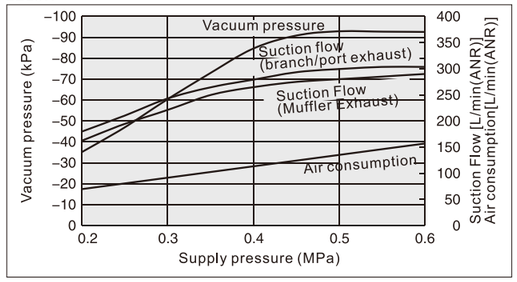
For output specification B PNP (2 output)



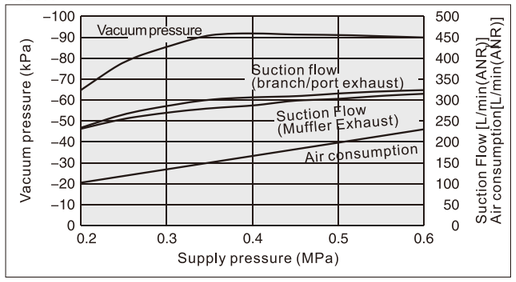
Max.28mA， 80mA Residual voltage below 2V

Exhaust Characteristics (Reference Value)

EZL3H



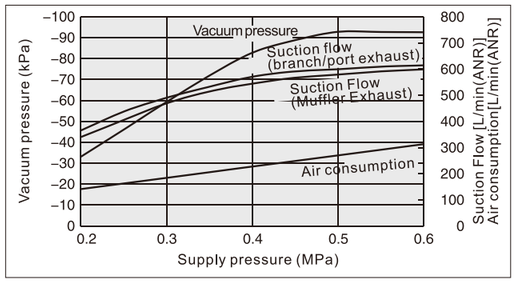
EZL3M



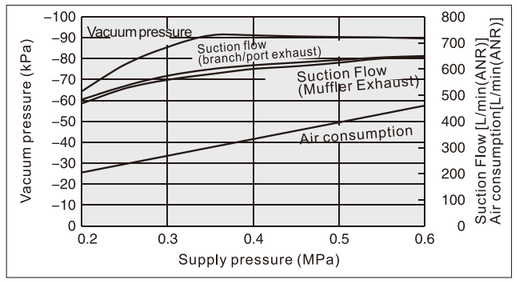
6 EZL3/EZL6

◎ Exhaust Characteristics (Reference Value)

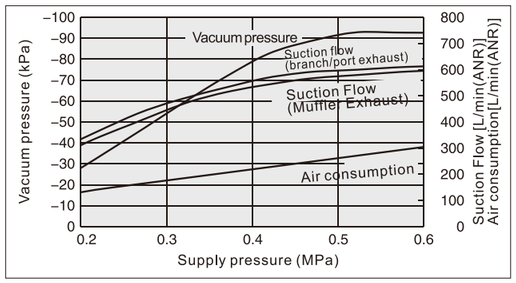
EZL6H



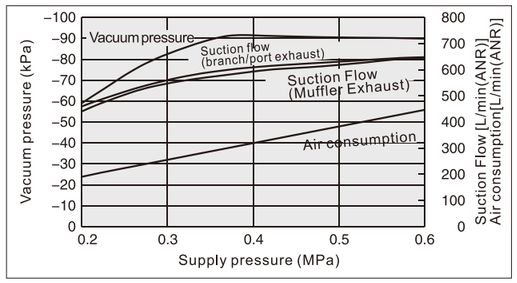
EZL6M



EZL6H(with valve)

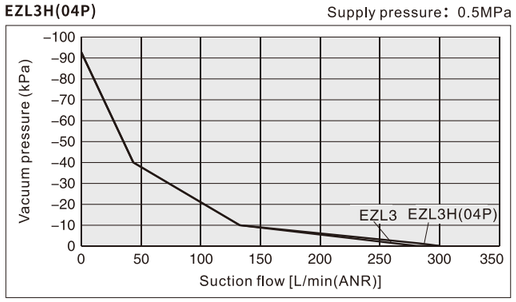


EZL6M(with valve)

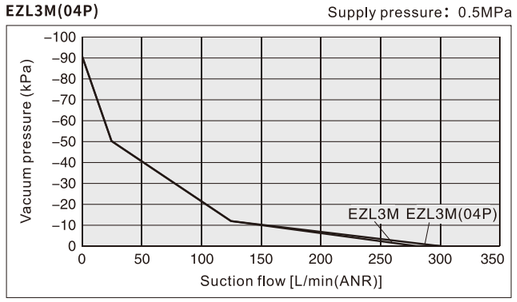


◎ Flow characteristics (reference value)

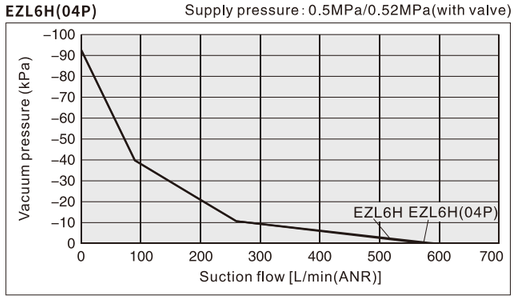
EZL3H(04P) Supply pressure：0.5MPa



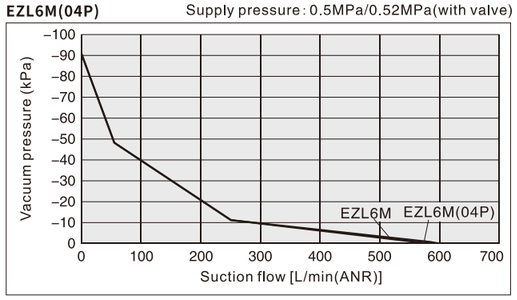
EZL3M(04P) Supply pressure：0.5MPa



EZL6H(04P) Supply pressure：0.5MPa/0.52MPa(with valve)



EZL6M(04P) Supply pressure：0.5MPa/0.52MPa(with valve)

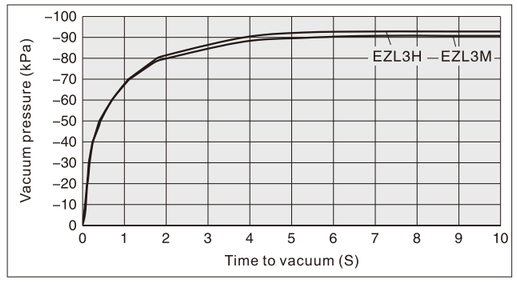


EZL3/EZL6 Multistage Series Vacuum Generator

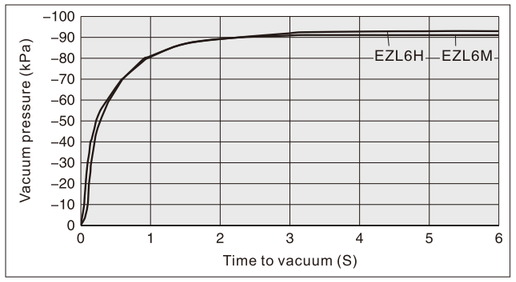
E·MC®

◎ Flow Characteristics (Reference Value)

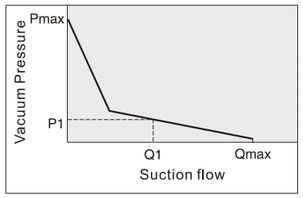
EZL3□ Gas tank volume:1L



EZL6□ Gas tank volume:1L



Interpretation of traffic characteristics



In the picture on the left, 9max represents the most rapid salt flow. The value used as a specification in a sample, etc. is this value. Changes in vacuum pressure are described on the right.

The flow characteristics reflect the relationship between the vacuum degree of the vacuum generator and the suction flow rate. When the suction flow rate changes, the vacuum degree will also change. Generally speaking, it reflects the relationship of vacuum generator under standard operating pressure.

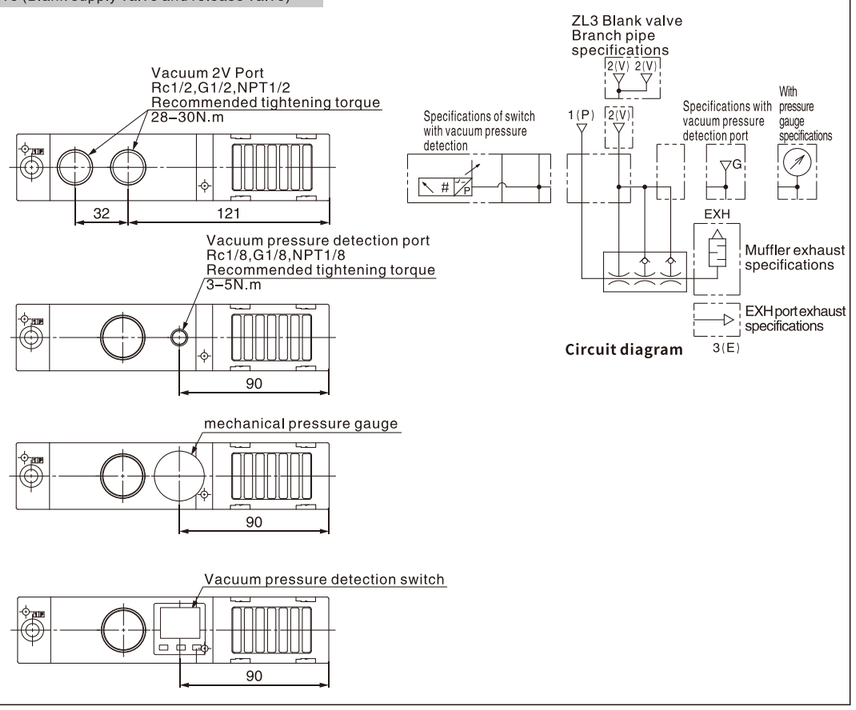
1:Blockage. After sealing the suction port of the vacuum generator, the suction flow rate becomes 0 and the vacuum pressure becomes the maximum (Pmax).
2:When the suction port is opened and air flows (air leakage), the suction flow rate increases and the vacuum pressure becomes lower. (Status of P1 and Q1)After opening the suction inlet fully, the suction flow rate becomes maximum (Qmax) and the vacuum pressure is almost 0
3: Gas–like adsorption When the air permeability is high or the leakage is the highest, the vacuum pressure will hardly become high, so you need to pay attention.

Interpretation of Time to Vacuum

This reflects the time it takes for a 1L airtight tank to reach vacuum pressure determined by the adsorption conditions such as the workpiece from atmospheric pressure. In the case of EZL3H, it takes approximately 4.0 seconds to reach the vacuum pressure – 90kPa.

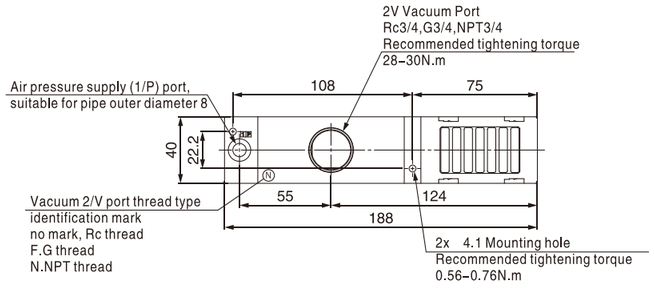
◎ Main Dimension

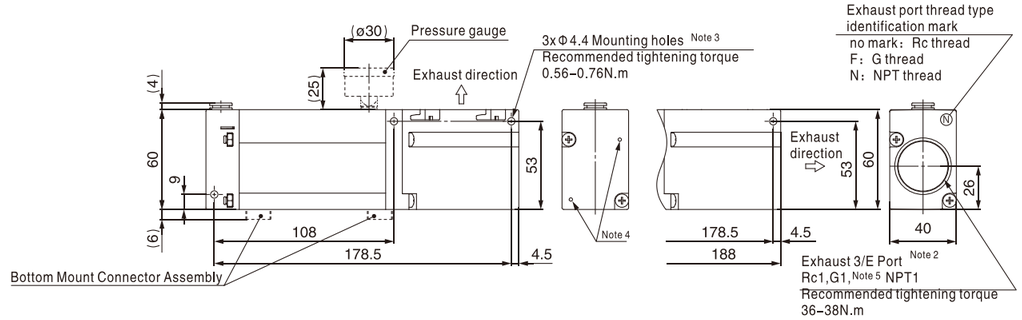
EZL3□□□□–□□–□ Valve (Blank supply valve and release valve)



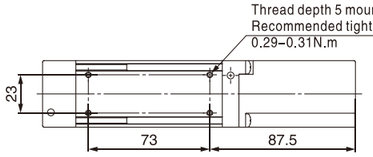
Main Dimension

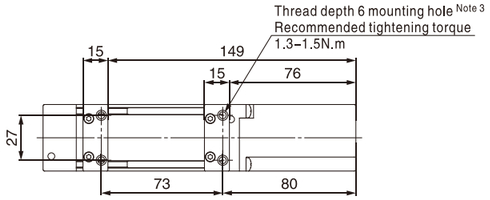
EZL3□□□□-□□-□ Valve (Blank supply valve and release valve)





Occasions with vent exhaust specifications





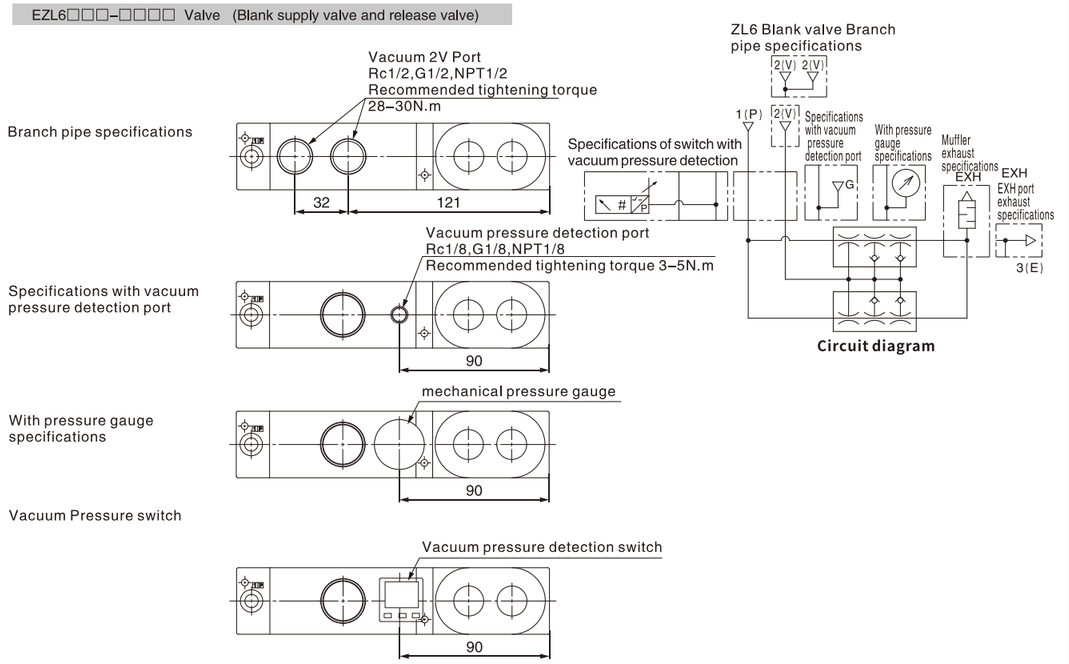
Note 1) When piping the vacuum port and vacuum pressure detection port, please Fix the main body made of aluminum alloy before piping.
Note 2) When piping the exhaust port, fix the exhaust block instead of the product body.In addition, the inner diameter of the piping is recommended to be 21.7 or more.
Note 3) When installing the main body, please use the recommended tightening torque above. If so Tightening with excessive torque may damage the product.
Note 4) This hole is necessary for forming parts. Not the exhaust port.
Note 5) The thread shape complies with G thread (ISO228–1) standard, other shapes are not. Comply with ISO16030 and ISO1179 standards. Also, connect the vacuum port.The length of the external thread part of the piping should be kept below 10.5, and the exhaust port.The length of the external thread part of the piping should be kept below 11.5.

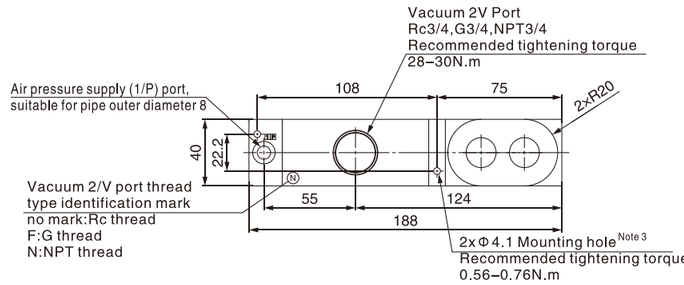
EZL3/EZL6 Multistage Series Vacuum Generator

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Main Dimension

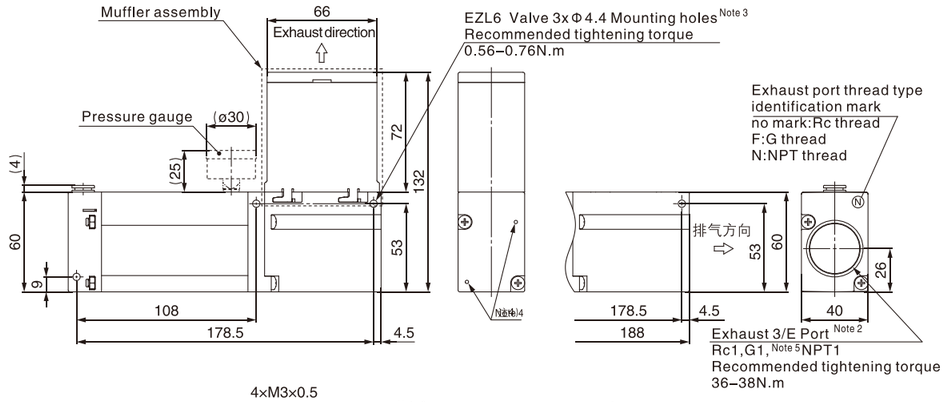
EZL6□□□-□□□□ Valve (Blank supply valve and release valve)





◎ Main Dimension

EZL6□□□□–□□ (Blank supply valve and release valve)

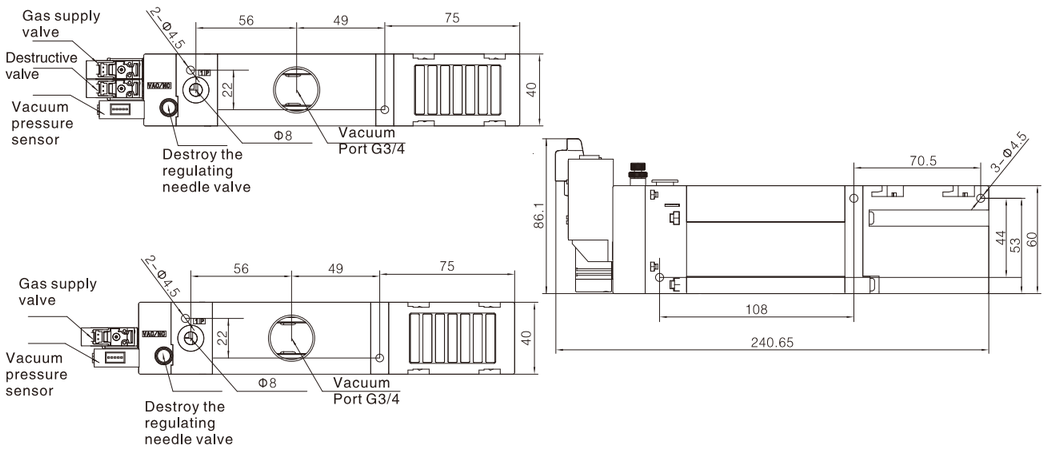


Occasions with vent exhaust specifications

Note 1) When piping the vacuum port and vacuum pressure detection port, first secure the aluminum alloy body before piping.
Note 2) When piping the exhaust port, fix the exhaust block instead of the product body. In addition, the inner diameter of the piping is recommended to be 21.7 or more.
Note 3) When installing the main body, please use the recommended tightening torque above. If excessive tightening torque is used, the product may be damaged.
Note 4) This hole is necessary for forming parts. Not the exhaust port.
Note 5) The thread shape complies with the G thread (ISO228–1) standard, and other shapes do not comply with the ISO16030 and ISO1179 standards. In addition, the length of the male piping thread portion of the vacuum port is maintained at 10.5 or less, and the length of the male piping thread portion of the exhaust port is maintained at 11.5 or less.

EZL3□□□–K15/K25 MZ–D (Blank Supply valve and release valve,Vacuum Pressure Switch)

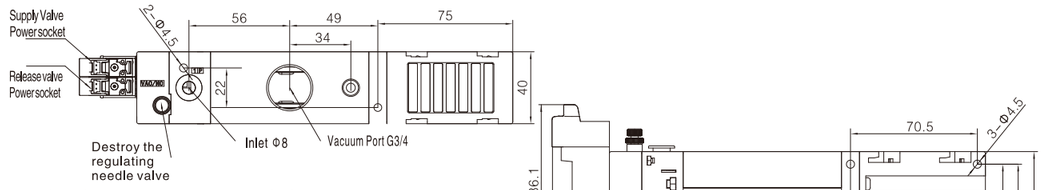
Supply valve and release valve,Vacuum Pressure Switch K15



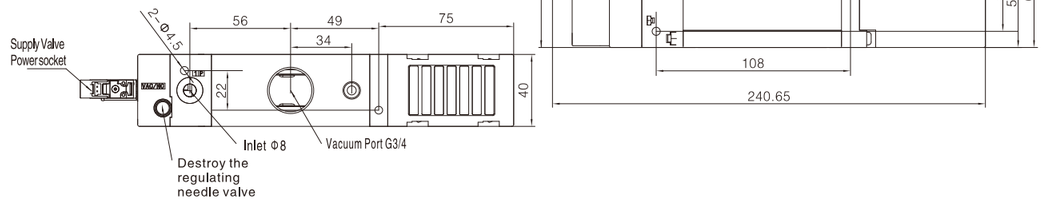
◎ Main Dimension

EZL3□□□–K15/K25 LZ–GN(Blank Supply valve and release valve,Vacuum Pressure Switch)

Supply valve and release valve,Vacuum Pressure Switch K15

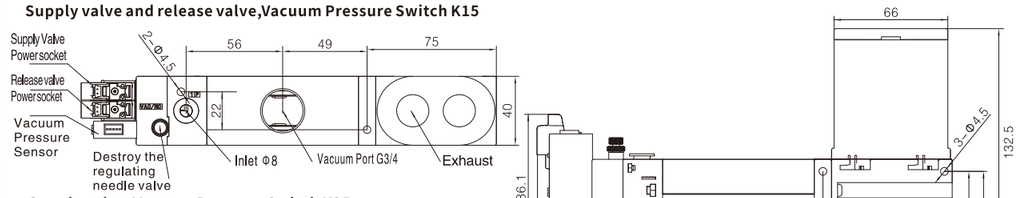


Supply valve ,Vacuum Pressure Switch K25

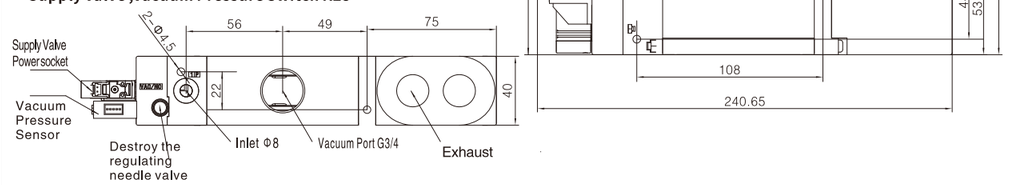


EZL6□□□–K15/K25 LZ–D(Blank Supply valve and release valve,Vacuum Pressure Switch)

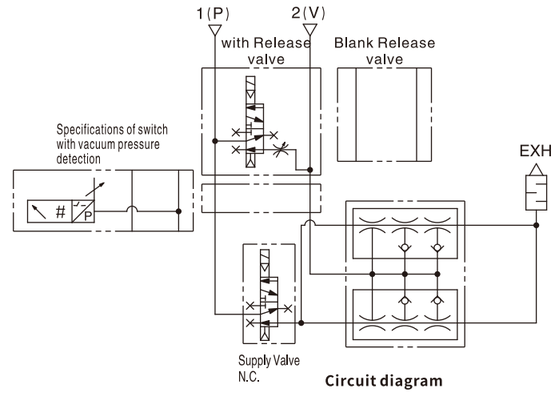
Supply valve and release valve,Vacuum Pressure Switch K15



Supply valve ,Vacuum Pressure Switch K25



EZL6 with Valve



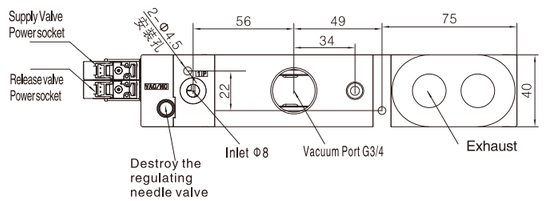
Circuit diagram

EZL6□□□–K25 MZ□–D□	With supply valve, vacuum pressure switch specifications
EZL6□□□–K25 MZ	With supply valve
PZL6□□□–K15 MZ	With supply valve, release valve specifications

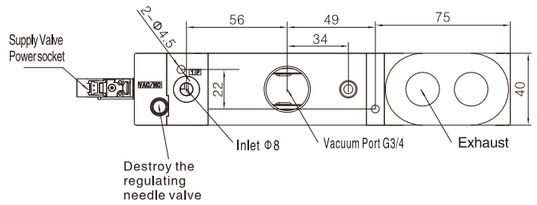
◎ Main Dimension

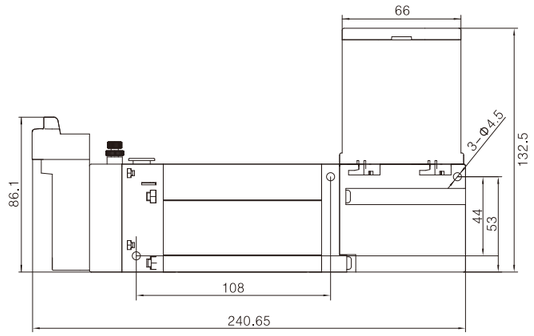
EZL6□□□–K15/K25 LZ–GN□ (Blank Supply valve and release valve,Vacuum detection port)

Supply valve and release valve,Vacuum detection port(K15)



Supply valve ,Vacuum Pressure Switch K25





E•MC®

ERL100

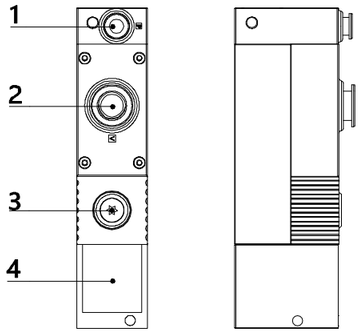
Vacuum Generator

Vacuum Flow：100 NL/min



◎ Applications/Features

- The product adopts multi–stage vacuum tube, which can be widely used in various industries.
- High vacuum flow and short response time.
- Centralized air supply, air supply and destruction control mode of solenoid valve.
- Comes with external muffler, excellent noise reduction performance.



1、Air supply port (insert φ6 gas pipe).
2、Vacuum port 1 (insert φ12 gas pipe) Vacuum pad port.
3、Vacuum port 2 (G1/8 female thread hole) vacuum detection port.
4、Exhaust vent.

◎ How to Order?

Series No.	—	Exhaust Specifications	—	Solenoid Valve Control	—	With Or Blank Vacuum
ERL100:ERL100 Series		Blank：Built–in muffler (default) P：Port exhaust				Blank：Blank (default) C：with Vacuum pressre gauge

Code	Supply Valve	Break Valve
Blank	Blank	Blank
K1	●	Blank
K2	●	●

Order Example: ERL series vacuum generator, port exhaust, supply valve control, with vacuum pressure rebound mark
The order code is ERL100–P–K1–C

◎ Performance Parameters

Model Specifications	Air Supply Pressure(MPa)	Maximum Vacuum –kPa	Maximum Vacuum Flow NL/min	Air Consumption NL/min	Recommended Diameter Of Air Supply Port (mm)	Recommended Diameter Of Vacuum Port (mm)
ERL100–	0.4	85	100	57	6	12

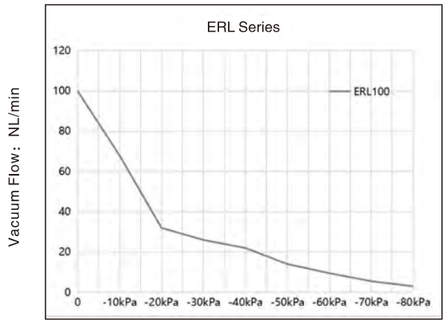
◎ Vacuum Flow Rate (NL/min) For Different Vacuum Degrees (-kPa)

Specifications and Models	Air Supply Pressure(MPa)	AirConsumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum –kPa
ERL100–	0.4	57	100	68	32	26	22	14	9.5	5.5	3	––	85

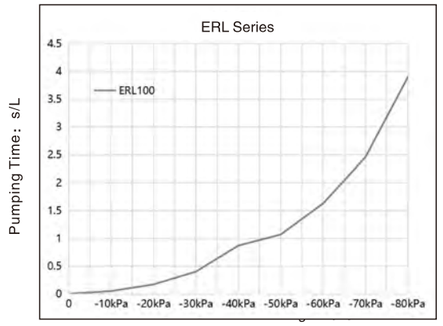
◎ Pumping Time (s/L) For Different Vacuum Degrees (-kPa)

Specifications and Models	Air Supply Pressure(MPa)	AirConsumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum –kPa
ERL100–	0.4	57	0	0.05	0.17	0.4	0.87	1.07	1.63	2.46	3.9	––	85

ERL Vacuum Flow Rate (NL/min) For Different Vacuum Degrees (–kPa)

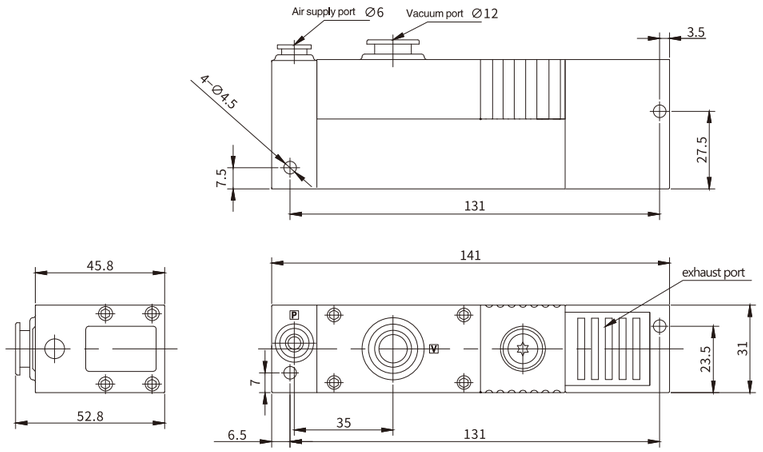


ERL Pumping Time (s/L) For Different Vacuum Degrees (–kPa)



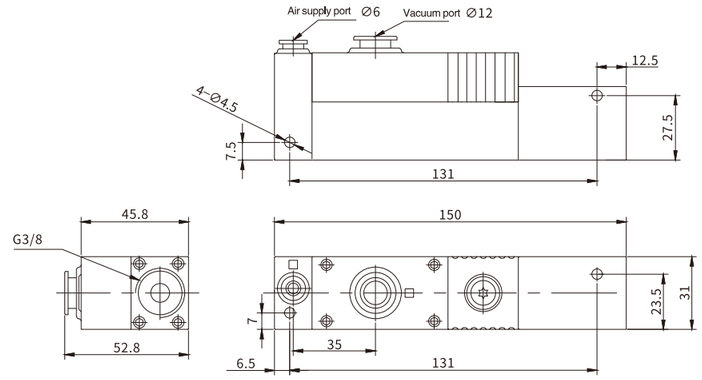
◎ Main Dimension

ERL100

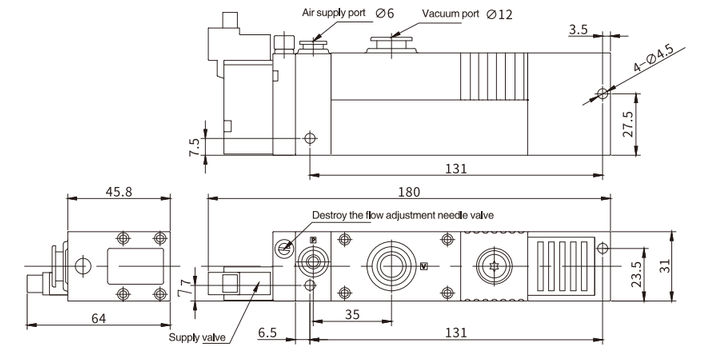


◎ Main Dimension

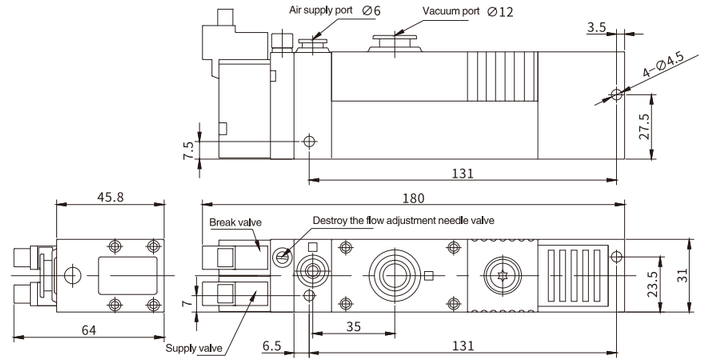
ERL100–P



ERL100–K1



ERL100–K2



ERL300

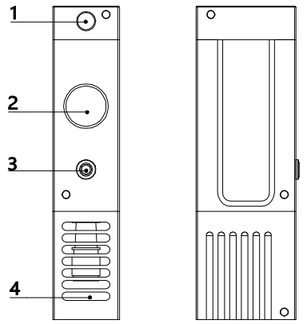
Vacuum Generator

Vacuum Flow：300NL/min



◎ Application/Features

- Products using multistage vacuum tube, engraved widely used in many industries.
- High vacuum flow rate and short corresponding time.
- Centralized air supply, optional air supply, destroy solenoid valve control.
- External silencer structure.



1、Air supply port (G1/4)
2、Vacuum port1 (G3/4) Vacuum suction cup port
3、Vacuum port 2 (G1/8) Vacuum monitoring port
4、Exhaust port

◎ How to Order?

Series No.	Vacuum Tube Type	—	Exhaust Method	—	Solenoid Valve Control	—	With Or Blank Vacuum
ERL300: ERL300 Series	H：–94 kPa L：–74 kPa		Blank：Built–in muffler (default) P：Port exhaust				Blank：Blank (default) C：with Vacuum pressre gauge

Code	Supply Valve	Break Valve
Blank	Blank	Blank
K1	●	Blank
K2	●	●

Order Example: ERL300 Series vacuum generator, exhaust specification, Exhaust port, supply valve control, with vacuum pressure gauge
The order code is ERL300H–P–K1–C

◎ Performance Parameters

Model Specifications	Air Supply Pressure(MPa)	Maximum Vacuum –kPa	Maximum Vacuum Flow NL/min	Air Consumption NL/min	Recommended Diameter Of Air Supply Port (mm)	Recommended Diameter Of Vacuum Port (mm)
ERL300H–	0.45	92	300	120	8	12
ERL300L–	0.35	74	300	108	8	12

ERL300 Series Vacuum Generator

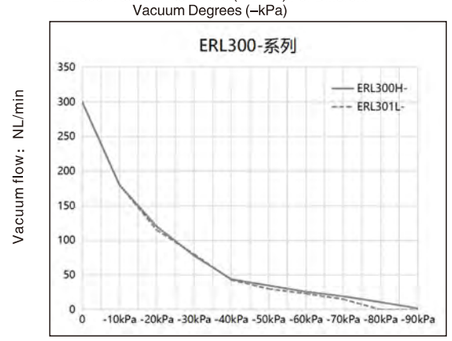
◎ Vacuum Flow Rate (NL/min) For Different Vacuum Degrees (-kPa)

Specifications and Models	Air Supply Pressure	Air Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum –kPa
ERL300H–	0.45	120	300	180	123	78	44	35	26	19	11	2	94
ERL300L–	0.35	108	300	180	115	80	43	30	23	15	––	––	74

◎ Pumping Time (s/L) For Different Vacuum Degrees (-kPa)

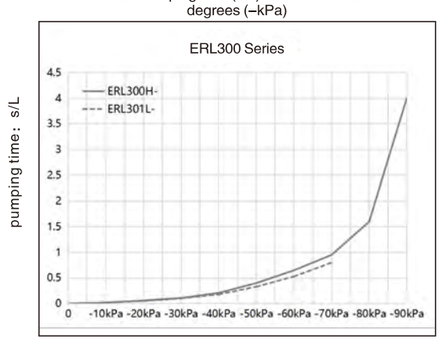
Specifications and Models	Air Supply Pressure	Air Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum –kPa
ERL300H–	0.45	120	0	0.02	0.06	0.11	0.21	0.40	0.65	0.95	1.60	4.00	94
ERL300L–	0.35	108	0	0.02	0.05	0.10	0.18	0.33	0.53	0.80	––	––	74

ERL300 Vacuum Flow Rate (NL/min) For Different Vacuum Degrees (–kPa)



degree of vacuum：–kPa

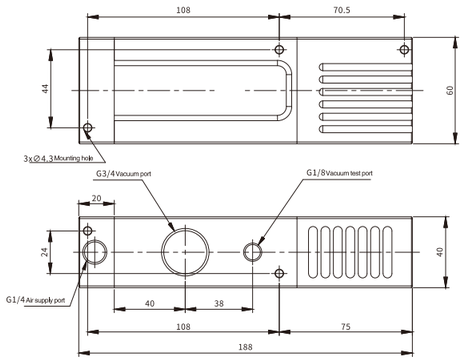
ERL300 Pumping time (s/L) for different vacuum degrees (–kPa)



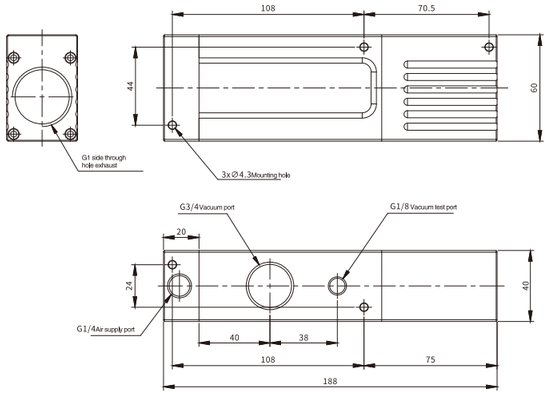
degree of vacuum：–kPa

◎ Main Dimension

ERL300–□ (Standard)



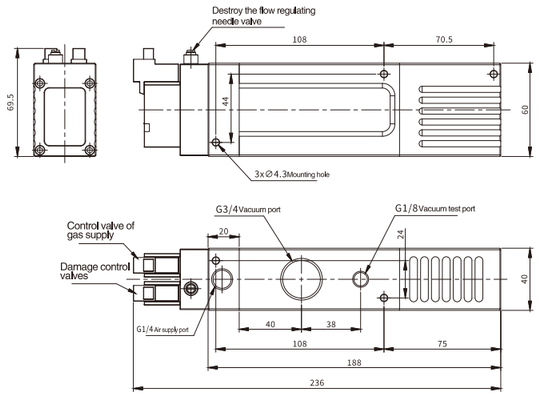
ERL300–□–P (Ventilation)



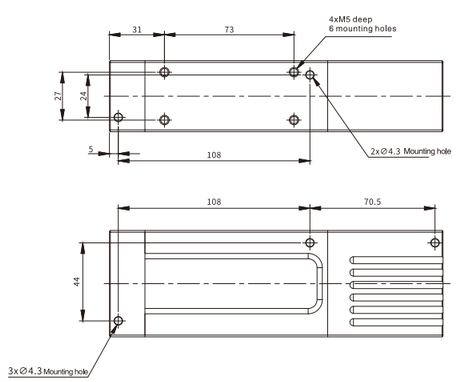
6
ERL300

◎ Main Dimension

ERL300–□–K2(Solenoid valve control)



ERL300–(Mounting dimension)



ERL600

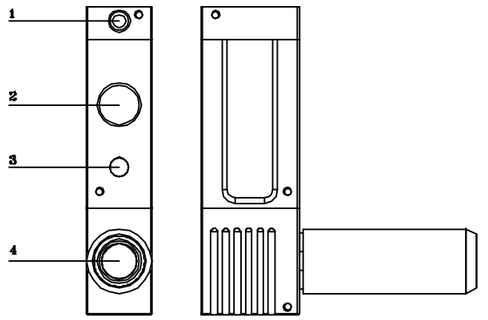
Vacuum Generator

Vacuum Flow：600NL/min



◎ Application/Features

- Products using multistage vacuum tube, engraved widely used in many industries.
- High vacuum flow rate and short corresponding time.
- Centralized air supply, optional air supply, destroy solenoid valve control.
- External silencer structure.



1、Air supply port(G1/4)
2、Vacuum port1 (G3/4) Vacuum suction cup port
3、Vacuum port 2 (G3/4) Vacuum monitoring port
4、Muffler exhaust port(G3/4)

◎ How to Order?

Series No.	Vacuum Tube Type	— Exhaust Method —	Solenoid Valve Control	— With Or Blank Vacuum
ERL600: ERL600 Series	H：–94 kPa L：–74 kPa	Blank：External muffler (default) P：Port exhaust		Blank：Blank (default) C: with Vacuum pressre gauge

Code	Supply Valve	Break Valve
Blank	Blank	Blank
K1	●	Blank
K2	●	●

Order Example: ERL600 Series vacuum generator, exhaust specification, Exhaust port, supply valve control, with vacuum pressure gauge.The order code is ERL600H–P–K1–C

◎ Performance Parameter

Specifications And Models	Supply Gas Pressure(MPa)	Maximum Vacuum Degree(–kPa)	Maximum Vacuum Flow(NL/min)	Gas Consumption (NL/min)	Recommended Diameter Of Air Supply Port (mm)	Recommended Pipe Diameter For Vacuum Port (mm)
ERL600H–	0.5	94	600	270	8	12
ERL600L–	0.5	74	600	270	8	12

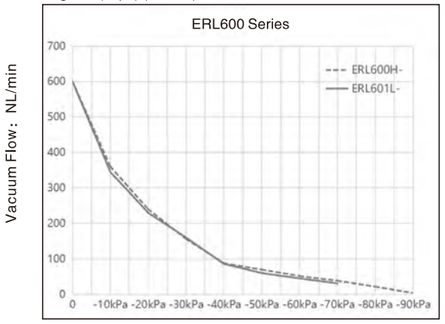
◎ Vacuum Flow Rate Of Different Vacuum Degrees (-kpa) (NL/min)

Specifications And Models	Supply Gas Pressure(MPa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree(–kPa)
ERL600H–	0.5	270	600	360	240	156	88	70	52	38	22	4	94
ERL600L–	0.5	270	600	345	230	160	86	60	45	31	––	––	74

◎ Suction Time Of Different Vacuum Degrees (-kpa) (s/L)

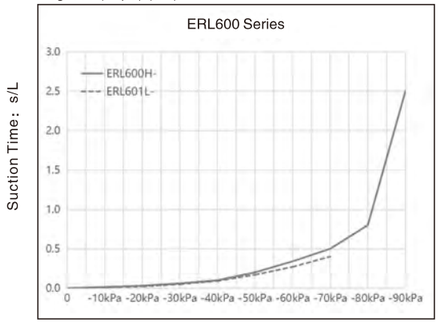
Specifications And Models	Supply Gas Pressure(MPa)	Gas Consumption NL/min	0	10	20	30	40	50	60	70	80	90	Maximum Vacuum Degree(–kPa)
ERL600H–	0.5	270	0	0.014	0.031	0.06	0.10	0.20	0.34	0.50	0.80	2.50	94
ERL600L–	0.5	270	0	0.01	0.02	0.05	0.09	0.17	0.27	0.40	––	––	74

ERL600 Vacuum Flow Rate Of Different Vacuum Degrees (–kpa) (NL/min)



Vacuum Degree：–kPa

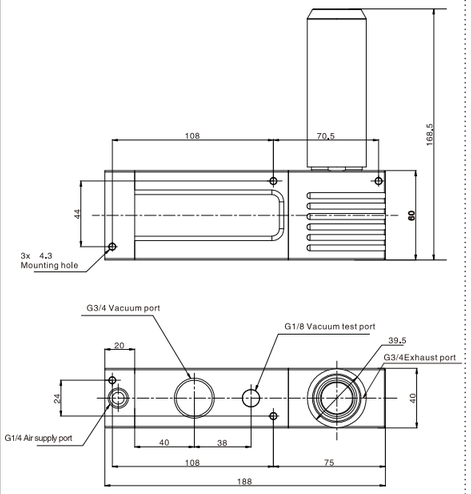
ERL600 Suction Time Of Different Vacuum Degrees (–kpa) (s/L)



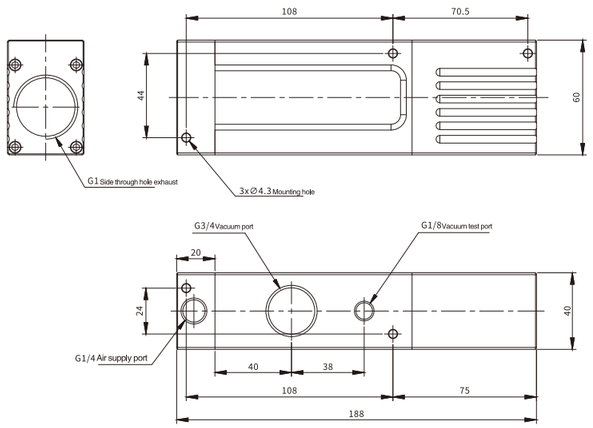
Vacuum Degree：–kPa

◎ Main Dimension

ERL600–□(Standard)

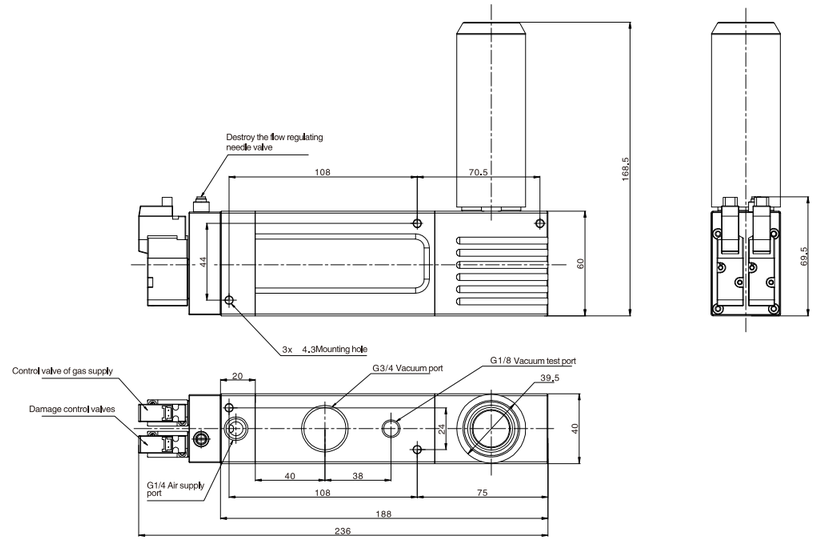


ERL600–□–P (Ventilation)

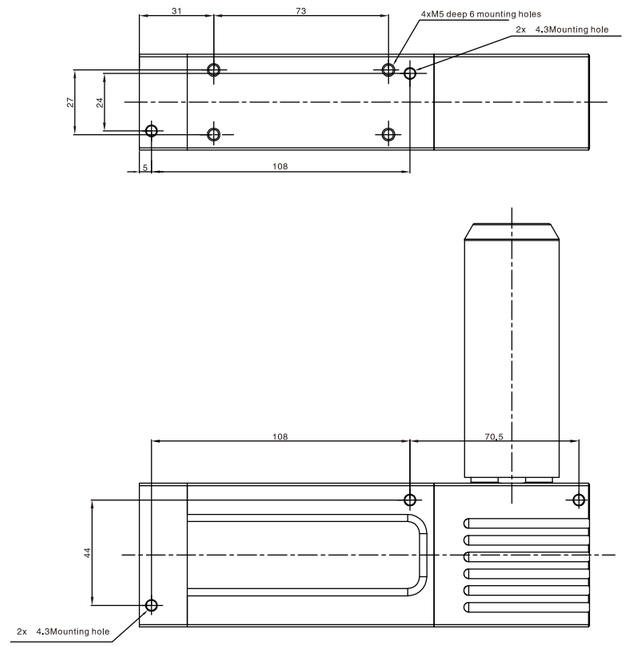


◎ Main Dimension

ERL600–□–K2(Solenoid valve control)

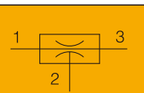


ERL600–(Mounting dimension)

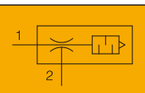


EZH

Vacuum Generator



Direct Piping Type



Box Type


Direct Piping Type


Box Type

How to Order?

Series No.	Nozzle Diameter	Type	Vacuum Level	A	—	Air Intake Port	—	Vacuum Port	—	Exhaust Port※2	Accessories (Standard Bracket)※1
EZH	05: Ø0.5 07: Ø0.7 10: Ø1 13: Ø1.3 15: Ø1.5 18: Ø1.8 20: Ø2	B: Box Type D: Pipe Type									

Code	Vacuum Level
S	–89kPa~–90kPa
L	–48kPa~–66kPa

Code	Size	Type
06	Ø6	Quick–Connect Coupling
08	Ø8	Quick–Connect Coupling
10	Ø10	Quick–Connect Coupling
01	Rc1/8	Threaded Connection
02	Rc 1/4	Threaded Connection
03	Rc 3/8	Threaded Connection
F01	G 1/8	Threaded Connection
F02	G 1/4	Threaded Connection
F03	G 3/8	Threaded Connection

Code	Size	Type
06	Ø6	Quick–Connect Coupling
10	Ø10	Quick–Connect Coupling
12	Ø12	Quick–Connect Coupling
01	Rc1/8	Threaded Connection
02	Rc1/4	Threaded Connection
03	Rc3/8	Threaded Connection
04	Rc1/2	Threaded Connection
F01	G1/8	Threaded Connection
F02	G1/4	Threaded Connection
F03	G3/8	Threaded Connection
F04	G1/2	Threaded Connection

Code	Size	Type
06	Ø6	Quick–Connect Coupling
08	Ø8	Quick–Connect Coupling
10	Ø10	Quick–Connect Coupling
12	Ø12	Quick–Connect Coupling
01	Rc1/8	Threaded Connection
02	Rc1/4	Threaded Connection
03	Rc3/8	Threaded Connection
04	Rc1/2	Threaded Connection
F01	G1/8	Threaded Connection
F02	G1/4	Threaded Connection
F03	G3/8	Threaded Connection
F04	G1/2	Threaded Connection

※1: Each accessory is not assembled with the product but is shipped in the same package.
※2: The inner diameter is not less than 65% of the size, and the length is not longer than 100cm.

Note: Only the tubular type generator is optional.

Code	Standard Bracket
Blank	●
N	—

Note: Only the tubular type generator is optional.

Order Example:

EZH Series Vacuum Generator, Φ1mm diameter nozzle, pipe type, –89kPa to –90kPa vacuum level, Φ6mm quick–connector for air intake, Φ6mm quick–connector for vacuum, Φ8mm quick–connector for exhaust.
Without standard bracket, its order code is: EZH10DSA–06–06–08N

Standard Bracket

Applicable Series	EZH05~10D□A	EZH13/15D□A	EZH18/20D□A
Model	EZH2–BK1A–1–A	EZH2–BK1A–2–A	EZH2–BK1A–3–A

Operating temp range	–5~50℃※A
Operating Fluid	Air
Suitable Pipe Materials	FEP, PFA, Nylon, Soft Nylon, Polyurethane
Operating Pressure Range	0.1~0.6MPa※B

※A: Not Frozen
※B: The supply pressure at the air intake port (P). The vacuum port (V) and exhaust port (E) must not be blocked simultaneously.

EZH Series Vacuum Generator

Performance Parameters

Main type	Model	Nozzle Diameter (mm)	Vacuum Pressure Reached※2(kPa)		Suction Flow Rate [L/min(ANR)]		Air Consumption [L/min(ANR)]	Weight※3(g)
			S Type	L Type	S Type	L Type		
Direct Piping Type (Without Silencer)	EZH05D□A	0.5	–90	–48	6	13	13	5
	EZH07D□A	0.7			12	28	27	5.2
	EZH10D□A	1			26	52	52	6.1
	EZH13D□A	1.3			40	78	88	12.4
	EZH15D□A	1.5		–66	58	78	117	13.4
	EZH18D□A	1.8			76	128	165	22.2
	EZH20D□A	2			90	155	201	23.3
Box Type (With Built–in Silencer)	EZH05B□A	0.5	–89	–48	6	13	13	12.3
	EZH07B□A	0.7			12	28	27	12.4
	EZH10B□A	1			26	52	52	13.6
	EZH13B□A	1.3			40	78	88	26.9
	EZH15B□A	1.5	–90	–66	58	78	117	28.7
	EZH18B□A	1.8			76	128	165	46.4
	EZH20B□A	2		–62	90	155	201	46.2

※1: The values indicated for each characteristic are theoretical and may vary depending on atmospheric pressure (climate, altitude, etc.).
※2: Values at a supply pressure of 0.45MPa
※2: Weight of the quick–disconnect type (excluding standard bracket)

Common Model Connection Sizes

Quick–Connect Coupling

Model		P	V	E
EZH05D□A– EZH07D□A–	06–06–06	Ø6	Ø6	Ø6
EZH10D□A–	06–06–08	Ø6	Ø6	Ø8
EZH13D□A– EZH15D□A–	08–10–10	Ø10	Ø10	Ø10
EZH18D□A– EZH20D□A–	10–12–12	Ø10	Ø12	Ø12

Model		P	V
EZH05B□A– EZH07B□A– EZH10B□A–	06–06	Ø6	Ø6
EZH13B□A– EZH15B□A–	08–10	Ø10	Ø10
EZH18B□A– EZH20B□A–	10–12	Ø10	Ø12

Threaded Connection

Model		P	V	E
EZH05D□A– EZH07D□A– EZH10D□A–	01–01–01 F01–F01–F01	Rc1/8 G1/8	Rc1/8 G1/8	Rc1/8 G1/8
EZH13D□A–	01-02-02 F01-F02-F02	Rc1/8 G1/8	Rc1/4 G1/4	Rc1/4 G1/4
EZH15D□A–	02–03–03 F02–F03–F03	Rc1/4 G1/4	Rc3/8 G3/8	Rc3/8 G3/8
EZH18D□A–	03–03–03 F03–F03–F03	Rc3/8 G3/8	Rc3/8 G3/8	Rc3/8 G3/8
EZH20D□A–	03–04–04 F03–F04–F04	Rc3/8 G3/8	Rc1/2 G1/2	Rc1/2 G1/2

Model		P	V
EZH05B□A– EZH07B□A– EZH10B□A–	01–01 F01–F01	Rc1/8 G1/8	Rc1/8 G1/8
EZH13B□A–	01–02 F01–F02	Rc1/8 G1/8	Rc1/4 G1/4
EZH15B□A–	02–03 F02–F03	Rc1/4 G1/4	Rc3/8 G3/8
EZH18B□A–	03–03 F03–F03	Rc3/8 G3/8	Rc3/8 G3/8
EZH20B□A–	03–04 F03–F04	Rc3/8 G3/8	Rc1/2 G1/2

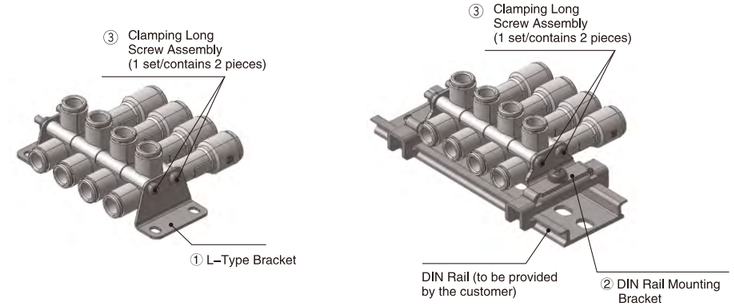
Threaded Connection + Quick–Connect Coupling

Model		P	V	E
EZH05D□A– EZH07D□A–	06–01–06 06–F01–06	Ø6	Rc1/8 G1/8	Ø6
EZH10D□A–	06–01–08 06–F01–08	Ø6	Rc1/8 G1/8	Ø8
EZH13D□A–	08–02–10 08–F02–10	Ø8	Rc1/4 G1/4	Ø10
EZH15D□A–	08–03–10 08–F03–10	Ø8	Rc3/8 G3/8	Ø10
EZH18D□A–	10–03–12 10–F03–12	Ø10	Rc3/8 G3/8	Ø12
EZH20D□A–	10–04–12 10–F04–12	Ø10	Rc1/2 G1/2	Ø12

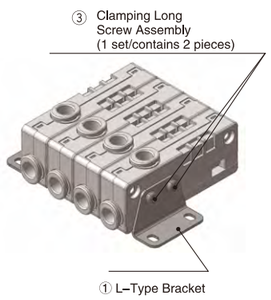
Model		P	V
EZH05B□A– EZH07B□A– EZH10B□A–	06–01 06–F01	Ø6	Rc1/8 G1/8
EZH13B□A–	08–02 08–F02	Ø8	Rc1/4 G1/4
EZH15B□A–	08–03 08–F03	Ø8	Rc3/8 G3/8
EZH18B□A–	10–03 10–F03	Ø10	Rc3/8 G3/8
EZH20B□A–	10–04 10–F04	Ø10	Rc1/2 G1/2

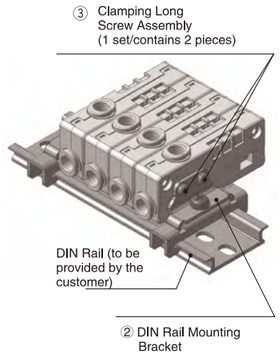
◎ L–Type/DIN Rail Mounting Bracket

Direct Piping Type



Direct Box Type





①L–Type Bracket

Model	Suitable Series	Remarks	Quantity
AST–10L	EZH05/07/10□□A	Applicable Thread：M3	1
AST–25L	EZH13/15□□A	Applicable Thread：M4	
AST–30L	EZH18/20□□A	Applicable Thread：M4	

②DIN Rail Mounting Bracket

Model	Suitable Series	Remarks	Quantity
AST–10D	EZH05/07/10□□A	Applicable Thread：M3	1
AST–25D	EZH13/15□□A	Applicable Thread：M4	
AST–30D	EZH18/20□□A	Applicable Thread：M4	

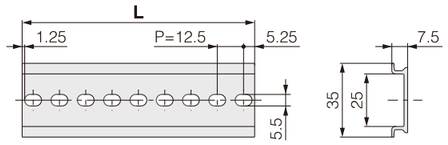
EAXT100 – DR – 5

1 ～ 40

L＝23 ～ L＝510.5

[L＝12.5×■＋10.5]

■ : Length 1～40



L–Type Dimension Table

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Length	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5
No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Length	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
No.	29	30	31	32	33	34	35	36	37	38	39	40		
Length	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5		

EZH Series Vacuum Generator

◎ L–Type/DIN Rail Mounting Bracket

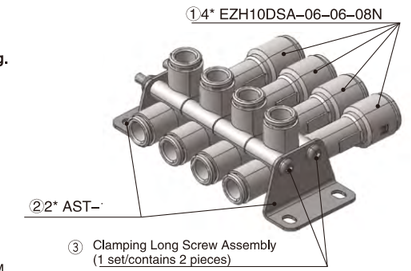
③Clamping long screw assembly※1

Model	Suitable Series	Positions	Component Contents※2		Product Diagram
			Screws	Accessories	
EZH2–TB101–A	EZH05□□A EZH07□□A EZH10□□A	1	2*M3x20	Hex Nut/M3 each 2; Flat Washers (for M3 use) *2 pieces	
EZH2–TB102–A		2	2*M3x35		
EZH2–TB103–A		3	2*M3x50		
EZH2–TB104–A		4	2*M3x65		
EZH2–TB106–A		6	2*M3x95		
EZH2–TB108–A		8	2*M3x125		
EZH2–TB201–A	EZH13□□A EZH15□□A	1	2*M4x30	Hex Nut/M4 each 2; Flat Washers (for M4 use) *2 pieces	
EZH2–TB202–A		2	2*M4x50		
EZH2–TB203–A		3	2*M4x70		
EZH2–TB204–A		4	2*M4x90		
EZH2–TB206–A		6	2*M4x130		
EZH2–TB208–A		8	2*M4x170		
EZH2–TB201–A※3	EZH18□□A EZH20□□A	1	2*M4x30		
EZH2–TB302–A		2	2*M4x55		
EZH2–TB303–A		3	2*M4x80		
EZH2–TB304–A		4	2*M4x100		
EZH2–TB306–A		6	2*M4x145		
EZH2–TB308–A		8	2*M4x185		

※1: When clamping is used for EZH generators, only the "Quick–Connect Specification" can be chosen. The "Threaded Connection Specification" cannot be used, as it will interfere with each other during clamping.
※2: The material of screws and nuts is carbon steel, with a surface treatment of trivalent chromate.
※3: The screws used for the 1–position specification EZH13/15□□A and EZH18/20□□A are common.

Order Example※

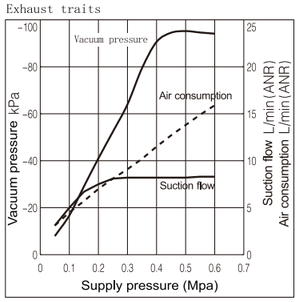
Four EZH10DSA units are installed using L–type brackets for clamping.
①4* EZH10DSA–06–06–08N
②2* AST–10L
③1* EZH2–TB104–A



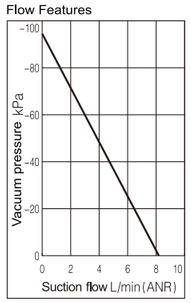
※：All products are not assembled.
The tightening torque for assembly is: M3: 0.315 ± 0.03N・M, M4: 0.76 ± 0.08N・M.

◎ Vacuum Exhaust & Flow Features

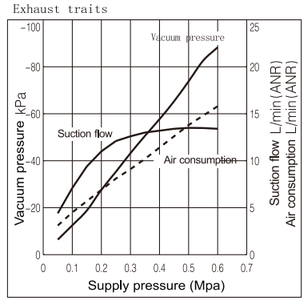
EZH05□SA



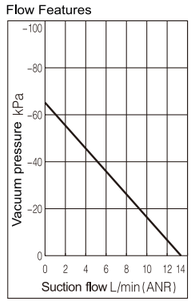
Flow Features



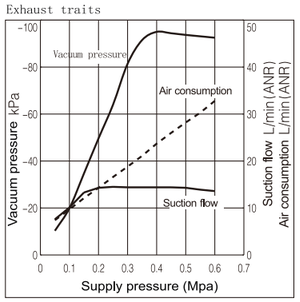
EZH05□LA



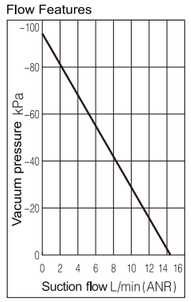
Flow Features



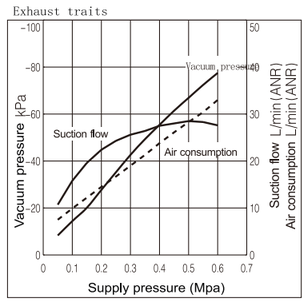
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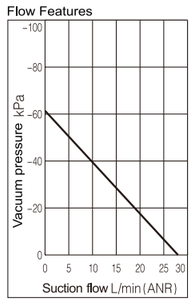
Flow Features



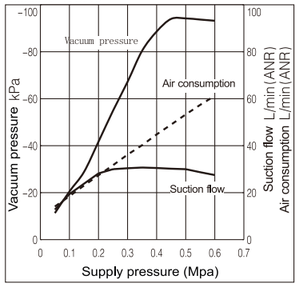
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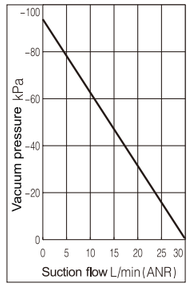
Flow Features



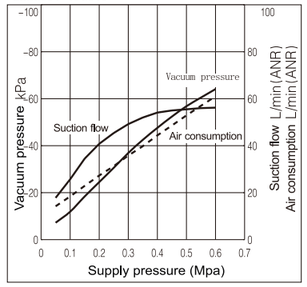
EZH10□SA



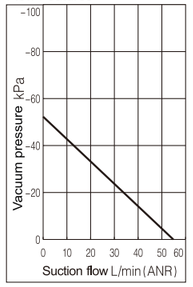
Flow Features



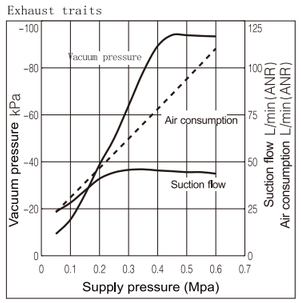
EZH10□LA



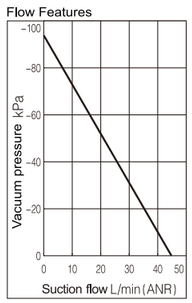
Flow Features



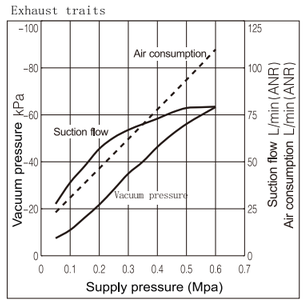
EZH13□SA



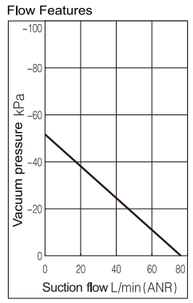
Flow Features



EZH13□LA



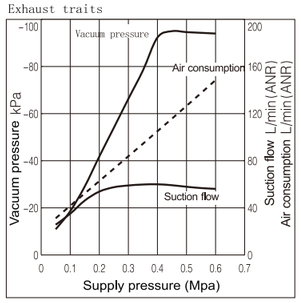
Flow Features



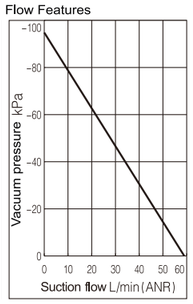
EZH Series Vacuum Generator

◎ Vacuum Exhaust & Flow Features

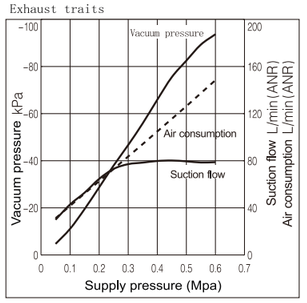
EZH15□SA



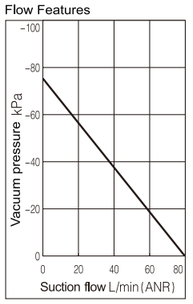
Flow Features



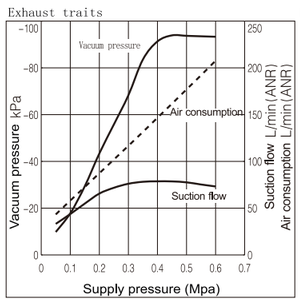
EZH15□LA



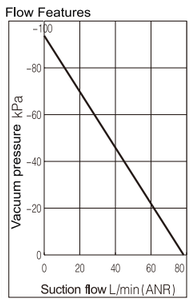
Flow Features



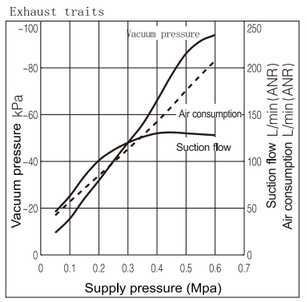
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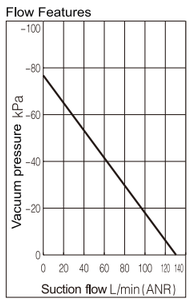
Flow Features



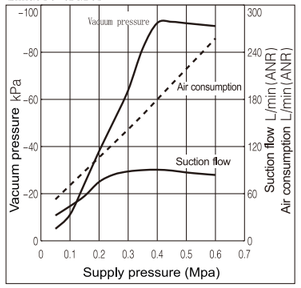
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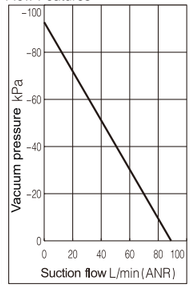
Flow Features



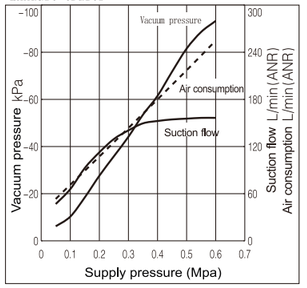
EZH20□SA



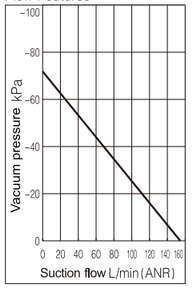
Flow Features



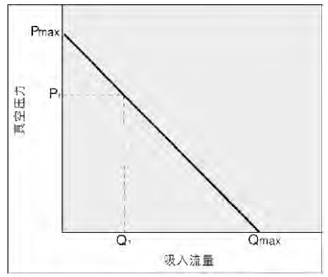
EZH20□LA



Flow Features



Flow characteristic diagram interpreted



Flow characteristics link a vacuum generator's vacuum pressure and suction flow.
When suction flow changes, vacuum pressure changes. The standard operating pressure relationship is usually used. In the diagram, Pmax is the maximum vacuum pressure, Qmax is the maximum suction flow. Specifications are based on these values. Here's how vacuum pressure changes:

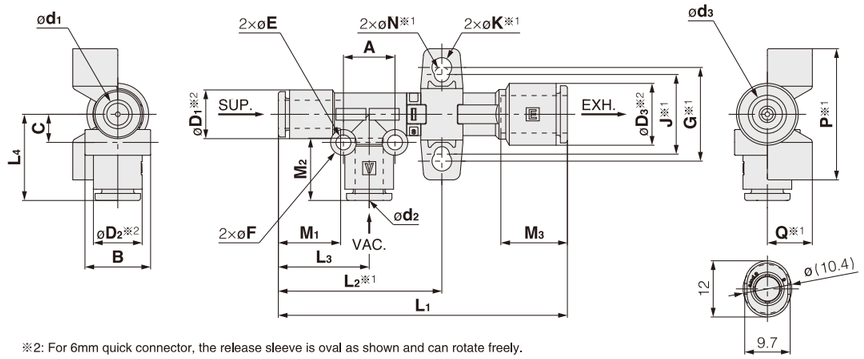
① A blocked suction inlet sets suction flow to 0, maximizing vacuum pressure (Pmax).
② Gradually opening the inlet allows air leakage, increasing suction flow and lowering vacuum pressure (to P1 and Q1).
③ Fully opening the inlet maximizes suction flow (Qmax), reducing vacuum pressure to nearly 0.

In short, suction flow changes affect vacuum pressure. No leaks mean maximum vacuum pressure.
As leakage increases, vacuum pressure decreases, hitting nearly 0 when leakage matches maximum suction flow.
Note that vacuum pressure won't rise much when handling porous or leaking workpieces.

◎ Dimensions

Direct piping type EZH□D□A–□–□–□

Quick connector



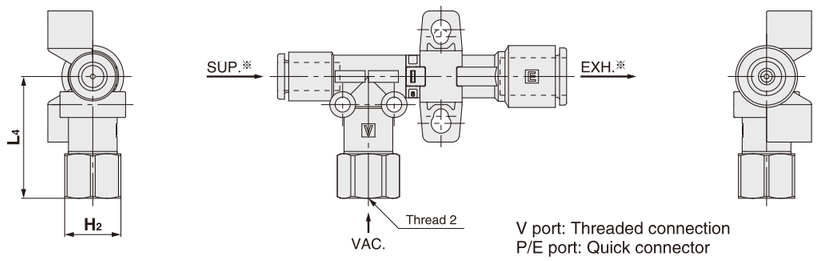
※2: For 6mm quick connector, the release sleeve is oval as shown and can rotate freely.

Model	D1	D2	D3	d1	d2	d3	M1	M2	M3	L1	L2※1	L3	L4
EZH05D□A–06–06–06	10.4	10.4	10.4	6	6	6	13.3	13.3	13.3	51.8	34.9	19.4	18.4
EZH07D□A–06–06–06										55			
EZH10D□A–06–06–08			14			8			14.2	61.7			
EZH13D□A–08–10–10	14.5	15.9	18	8	10	10	14.2	15.6	15.6	75	43.9	22.4	27
EZH15D□A–08–10–10										87	51.4		
EZH18D□A–10–12–12	18	18.5	20	10	12	12	15.6	17	17	110	60.9	28.4	28
EZH20D□A–10–12–12										116	62.2		

Model	A	B	C	E	F	G※1	J※1	K※1	N※1	P※1	Q※1
EZH05D□A–06–06–06	11	14	6	3.2	5.5	20	17	13.3	3.2	28	9.6
EZH07D□A–06–06–06											
EZH10D□A–06–06–08											
EZH13D□A–08–10–10	17	20	9	4.3	7.8	27	22	15.6	4.2	35	12
EZH15D□A–08–10–10											
EZH18D□A–10–12–12	22	22	10		Reference standard bracket dimensions drawing						
EZH20D□A–10–12–12											

※1：Dimensions for installing the standard bracket.

Thread + quick connector



V port: Threaded connection
P/E port: Quick connector

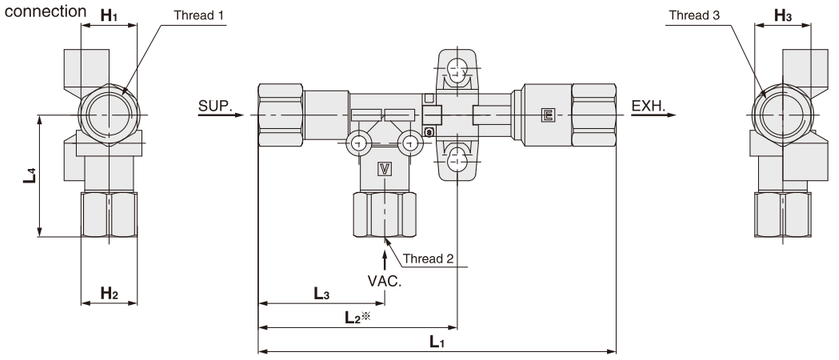
Model	H2	L4	Thread 2	Model	H2	L4	Thread 2
EZH05D□A–06–01–06	12	26	Rc1/8	EZH05D□A–06–F01–06	12	27	G1/8
EZH07D□A–06–01–06				EZH07D□A–06–F01–06			
EZH10D□A–06–01–08				EZH10D□A–06–F01–08			
EZH13D□A–08–02–10	17	38	Rc1/4	EZH13D□A–08–F02–10	17	38	G1/4
EZH15D□A–08–03–10	19	39	Rc3/8	EZH15D□A–08–F03–10	19	39	G3/8
EZH18D□A–10–03–12		40.5		EZH18D□A–10–F03–12		40.5	
EZH20D□A–10–04–12	24	46	Rc1/2	EZH20D□A–10–F04–12	24	46.1	G1/2

EZH Series Vacuum Generator

◎ Dimensions

Direct piping type EZH□D□A–□–□–□

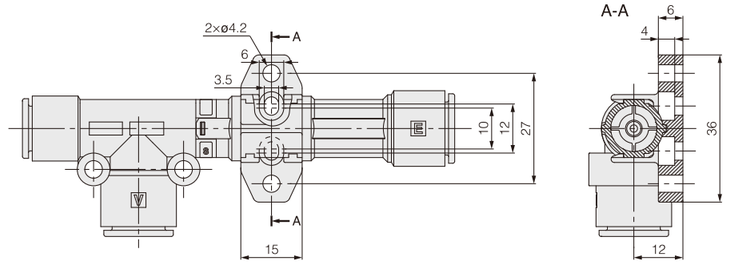
Threaded connection



Model	H1	H2	H3	L1	L2	L3	L4	Thread 1	Thread 2	Thread 3
EZH05D□A–01–01–01	12	12	12	67	42.5	27	26	Rc1/8	Rc1/8	Rc1/8
EZH07D□A–01–01–01				70.2						
EZH10D□A–01–01–01				76.4						
EZH13D□A–01–02–02		17	17	90.8	51	29.5	36.3		Rc1/4	Rc1/4
EZH15D□A–02–03–03	17	19	19	108.2	63.3	34.3	37.1	Rc1/4	Rc3/8	Rc3/8
EZH18D□A–03–03–03	19			131.1	73.6	41.1	39.1	Rc3/8		
EZH20D□A–03–04–04		24	24	142.6	74.9		44.1		Rc1/2	Rc1/2
EZH05D□A–F01–F01–F01	12	12	12	69	43.5	28	27	G1/8	G1/8	G1/8
EZH07D□A–F01–F01–F01				72.2						
EZH10D□A–F01–F01–F01				78.4						
EZH13D□A–F01–F02–F02		17	17	93	52	30.5	37.5		G1/4	G1/4
EZH15D□A–F02–F03–F03	17	19	19	112.1	65.3	36.3	39	G1/4	G3/8	G3/8
EZH18D□A–F03–F03–F03	19			134.4	75.5	43	40.5	G3/8		
EZH20D□A–F03–F04–F04		24	24	146.5	76.8		46.1		G1/2	G1/2

EZH18/20D□A–□–□–□

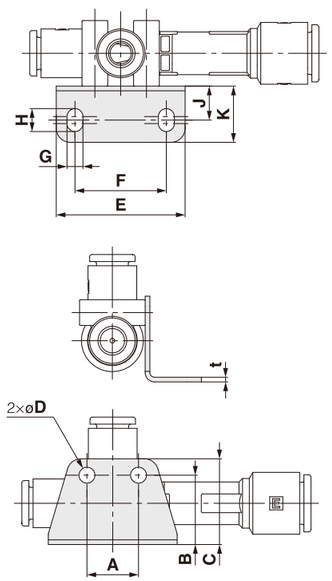
Standard bracket



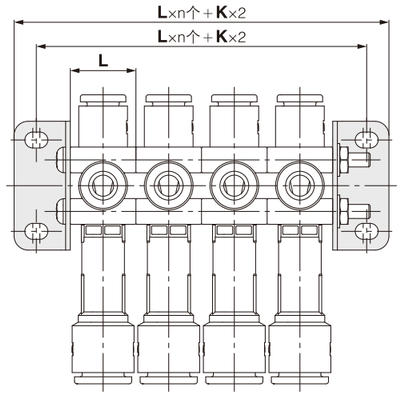
◎ Dimensions

EZH05~20D□A–□–□–□

L–bracket (single–sided)※1



L–bracket (double–sided) ※2



※1：Clamping screw assembly ordered separately.
※2：Clamping screw assembly ordered separately.

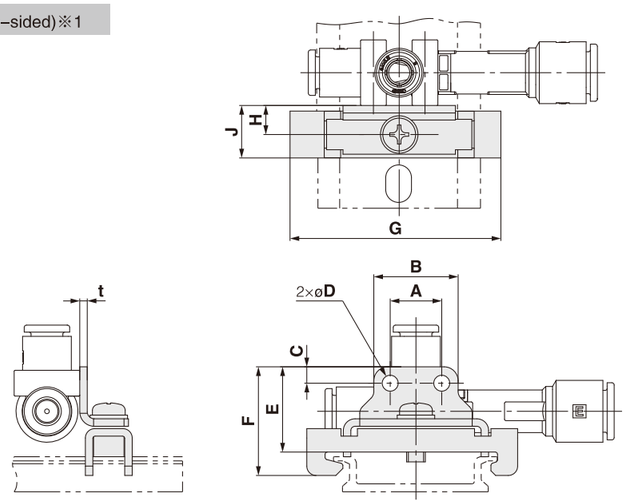
Note: EZH20D□A–□–04–□ and EZH20D□A–□–F04–□ models cannot be installed closely together (due to hexagonal interference from the threaded connection).

L–bracket (brackets on both sides)

Model	Suitable Series	A	B	C	D	E	F	G	H	J	K	L	t
AST–10L	EZH05/07/10D□A	11	14.8	18.3	3.4	27.5	19.5	3.4	4.9	7.3	12	14	1
AST–25L	EZH13/15D□A	17	19.6	24.6	4.5	38	28	4.5	6.5	9.5	15.5	20	1.2
AST–30L	EZH18/20D□A	22	24.8	29.8		43	33					22	1.4

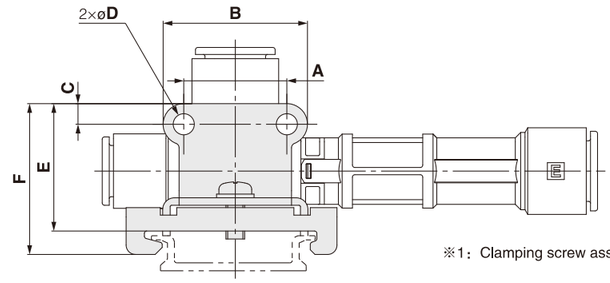
DIN rail bracket (single–sided)※1

EZH05~10D□A



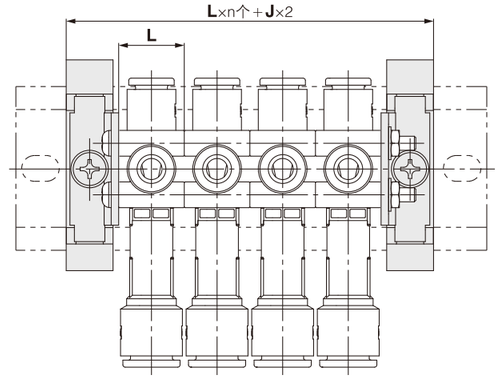
◎ Dimensions

EZH13~20D□A



※1：Clamping screw assembly ordered separately.

DIN rail bracket (double–sided)※2



※2：Clamping screw assembly ordered separately.

Note: EZH20D□A–□–04–□ and EZH20D□A–□–F04–□ models cannot be installed closely together (due to hexagonal interference from the threaded connection).

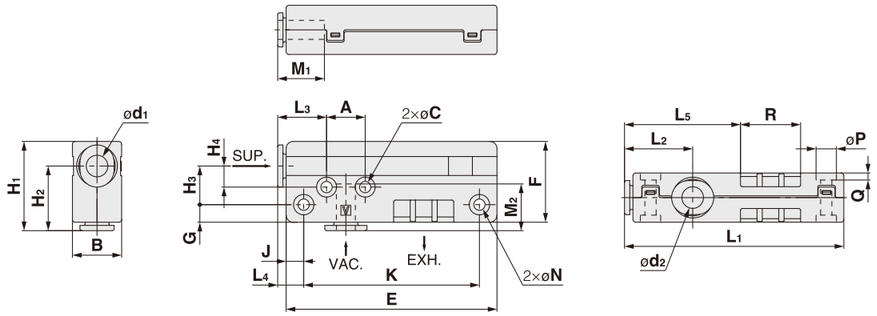
DIN rail bracket (brackets on both sides)

Model	Suitable Series	A	B	C	D	E	F	G	H	J	L	t
AST–10L	EZH05/07/10D□A	11	18	3.5	3.4	18.2	23.2	45	6.2	11.2	14	1.6
AST–25L	EZH13/15D□A	17	25.8	4.4	4.5	22	27				20	
AST–30L	EZH18/20D□A	22	30.8			27.2	32.2				22	

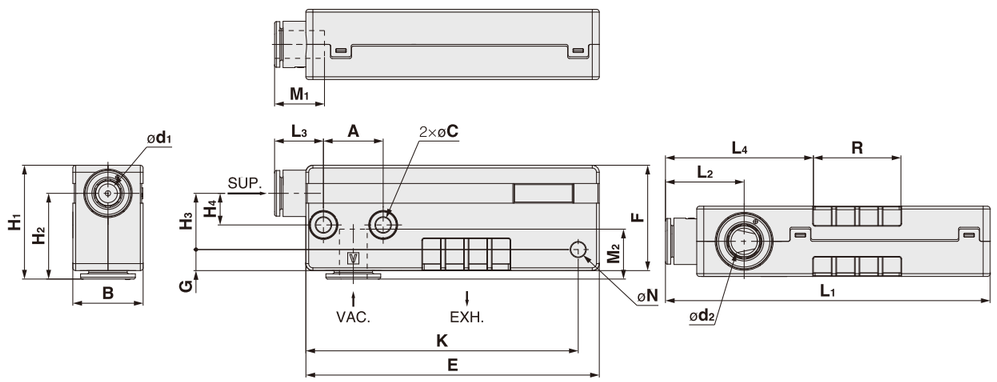
◎ Dimensions

Box Type EZH□B□A–□–□–□

Quick–Connect Coupling Connection
EZH05~13B□A



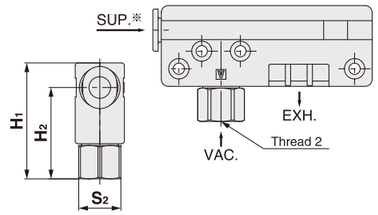
EZH15~20B□A



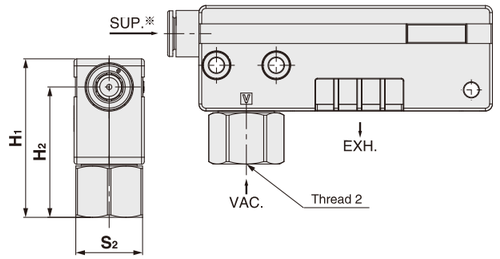
Model	d1	d2	M1	M2	L1	L2	L3	L4	L5	H1	H2	H3	H4	A	B	C	E	F	G	J	K	N	P	Q	R
EZH05B□A–06–06	6	6	13.3	13.3	59.4	19.4	13.9	7.4	33.1	25.4	18.4	11	6	11	14	3.2	57	23	5	5	47	3.2	5.8	2	15
EZH07B□A–06–06																									
EZH10B□A–06–06					62.4				33								60				50				17.1
EZH13B□A–08–10	8	10	14.2	15.6	77.4	22.4		9.4	37.6	35	27	16	9	17	20	4.3	75	30	6	7	61	4.2	7.5	3	24.9
EZH15B□A–08–10	8	10	14.2	15.6	92.4	22.4	13.9	42.1	—	35	27	16	9	17	20		83.5	30	6	—	77.5	4.2	—	—	24.9
EZH18B□A–10–12	10	12	15.6	17	132.4	28.4	17.4	50.1		37.4	26.4	17.7	10	22	22	4.3	121.7	35	7		114.7				26.9
EZH20B□A–10–12																									

◎ Dimensions

Thread + quick connector
EZH05~13B□A

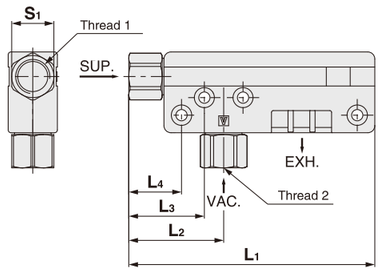


EZH15~20B□A

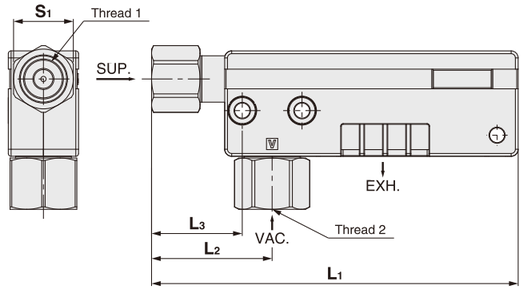


Model	S2	H1	H2	Thread 2	Model	S2	H1	H2	Thread 2
EZH05B□A–06–01	12	33	26	Rc1/8	EZH05B□A–06–F01	12	34	27	G1/8
EZH07B□A–06–01					EZH07B□A–06–F01				
EZH10B□A–06–01					EZH10B□A–06–F01				
EZH13B□A–08–02	17	44.3	36.3	Rc1/4	EZH13B□A–08–F02	17	45.5	37.5	G1/4
EZH15B□A–08–03	19	45.1	37.1	Rc3/8	EZH15B□A–08–F03	19	47	39	G3/8
EZH18B□A–10–03		50.1	39.1		EZH18B□A–10–F03		51.5	40.5	
EZH20B□A–10–04	24	55.1	44.1	Rc1/2	EZH20B□A–10–F04	24	57.1	46.1	G1/2

Threaded connection + threaded connection
EZH05~13B□A



EZH15~20B□A

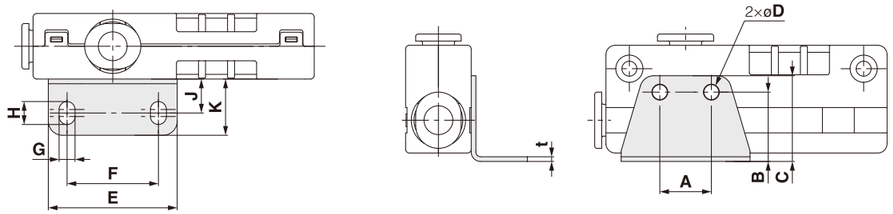


Threaded connection + threaded connection

Model	S	L1	L2	L3	L4	Thread 1	Thread 2
EZH05B□A–01–01	12	67	27	21.5	15	Rc1/8	Rc1/8
EZH07B□A–01–01							
EZH10B□A–01–01		70					
EZH13B□A–01–02		84.5	29.5	21	16.5		Rc1/4
EZH05B□A–F01–F01	12	68	28	22.5	16	G1/8	G1/8
EZH07B□A–F01–F01							
EZH10B□A–F01–F01		71					
EZH13B□A–F01–F02		85.5	30.5	22	17.5		G1/4
EZH15B□A–02–03	17	104.3	34.3	25.8	—	Rc1/4	Rc3/8
EZH18B□A–03–03	19	145.1	41.1	30.1		Rc3/8	
EZH20B□A–03–04							Rc1/2
EZH15B□A–F02–F03	17	106.3	36.3	27.8		G1/4	G3/8
EZH18B□A–F03–F03	19	147	43	32		G3/8	
EZH20B□A–F03–F04							G1/2

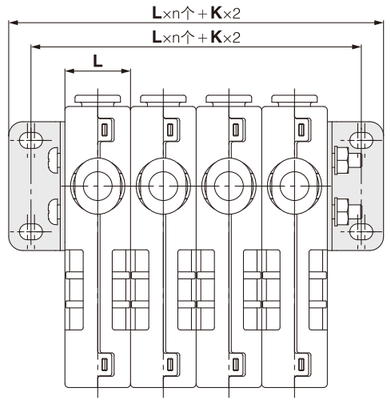
◎ Dimensions

L–bracket (single–sided)※1



※1：Clamping screw assembly ordered separately.

L–bracket (double–sided)※2



※2：Clamping screw assembly ordered separately.

Note: EZH20B□A–□–04–□and EZH20B□A–□–F04–□ models cannot be installed closely together (due to hexagonal interference from the threaded connection).

L–bracket (brackets on both sides)

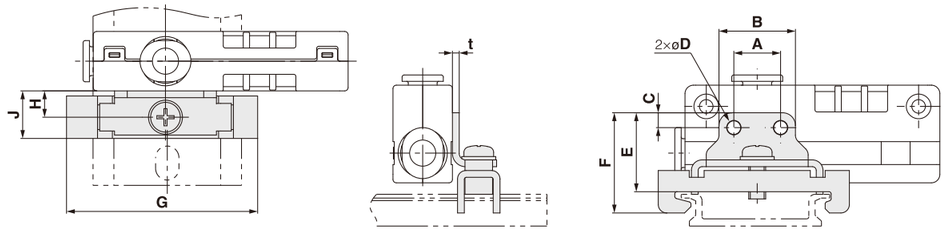
Model	Suitable Series	A	B	C	D	E	F	G	H	J	K	L	t
AST–10L	EZH05/07/10B□A	11	14.8	18.3	3.4	27.5	19.5	3.4	4.9	7.3	12	14	1
AST–25L	EZH13/15B□A	17	19.6	24.6	4.5	38	28	4.5	6.5	9.5	15.5	20	1.2
AST–30L	EZH18/20B□A	22	24.8	29.8		43	33					22	1.4

EZH Series Vacuum Generator

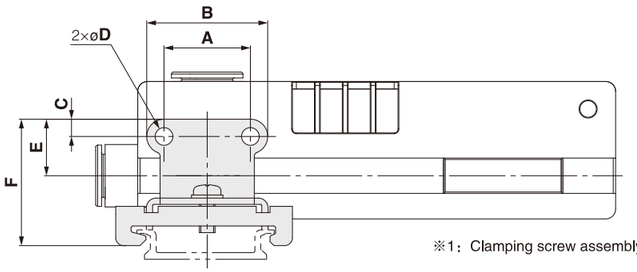
◎ Dimensions

DIN rail bracket (single-sided)□ 1

EZH05~10B□A

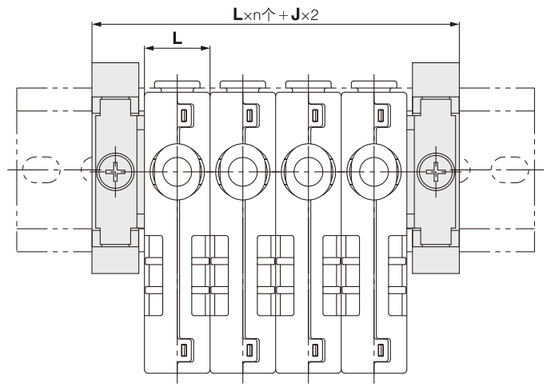


EZH13~20B□A



※1：Clamping screw assembly ordered separately.

DIN rail bracket (double–sided)□ 2



※2：Clamping screw assembly ordered separately.

Note: EZH20B□A–□–04–□and EZH20B□A–□–F04–□ models cannot be installed closely together (due to hexagonal interference from the threaded connection).

DIN rail bracket (brackets on both sides)

Model	Suitable Series	A	B	C	D	E	F	G	H	J	L	t
AST–10L	EZH05/07/10B□A	11	18	3.5	3.4	18.2	23.2	45	6.2	11.2	14	1.6
AST–25L	EZH13/15B□A	17	25.8	4.4	4.5	22	27				20	
AST–30L	EZH18/20B□A	22	30.8			27.2	32.2				22	

EZU

Vacuum Generator



◎ Application

- Compact piped design with quick connectors, mounts directly on vacuum suction hoses, no fixation needed, reducing installation costs and easy to maintain.
- Fast vacuum response, high vacuum level, large flow rate, stable performance.
- High–grade plastic molding, operable at –20° C to 80℃ (non–freezing) in hazardous and highly corrosive environments.

◎ How to Order?

Series No.	Nozzle Diameter	Vacuum Pressure Reached		A	Port Connection Diameter
EZU	03: Ø0.3 04: Ø0.4 05: Ø0.5 07: Ø0.7				

Code	Vacuum Pressure Reached	EZU03/04	EZU05/07
S	–85kPa(EZU03) –87kPa(EZU04)	●	—
	–90kPa	—	●
L	–48kPa	—	●

Code	Port Connection Diameter	EZU03/04	EZU05/07
Blank	Ø4Quick–Connect Coupling	●	—
	Ø6Quick–Connect Coupling	—	●
01	Rc1/8 Internal Thread	—	●

Order Example:

EZU Series Vacuum Generator, 0.5 diameter nozzle, –90kPa vacuum pressure reached, Rc1/8 internal thread port connection, its order code is: EZU05SA01

◎ Performance Parameters

Model	Nozzle Diameter (mm)	Vacuum Pressure Reached※1(kPa)		Maximum Suction Flow Rate※1 [L/min(ANR)]		Air Consumption※2 [L/min(ANR)]	Weight(g)	
		S Type	L Type	S Type	L Type		Quick-Connect	Threaded Connection
EZU03SA	Ø0.3	–85	——	1.8	——	3.7	2.4	
EZU04SA	Ø0.4	–87		3.2		7.4		
EZU05□A	Ø0.5	–90	–48	7	13	14	3.9	18.6
EZU07□A	Ø0.7			11	16	28	4.3	19.1

※1: The values indicated for each characteristic are reference values and may vary depending on atmospheric pressure (weather, altitude, etc.) or measurement methods.
※2: Values at standard supply pressure.

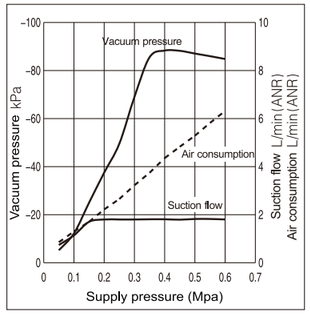
Operating temp range	–5~50℃ (not frozen)	
Operating Fluid	Air	
Suitable Pipe Materials	FEP, PFA, Nylon, Soft Nylon, Polyurethane	
Operating Pressure Range	0.1~0.6MPa	
Standard Supply Pressure	EZU03、04	0.35MPa
	EZU05、07	0.45MPa

EZU Series Vacuum Generator

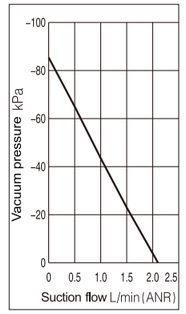
◎ Vacuum Exhaust & Flow Features

EZU03SA

Exhaust traits

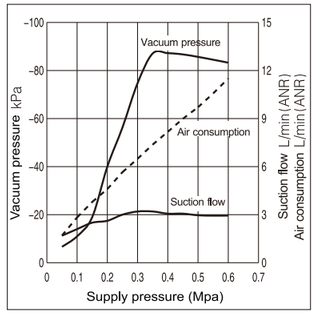


Flow Features (At 0.35MPa)

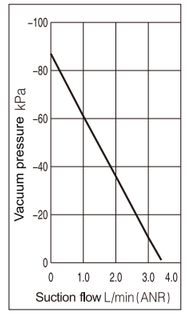


EZU04SA

Exhaust traits

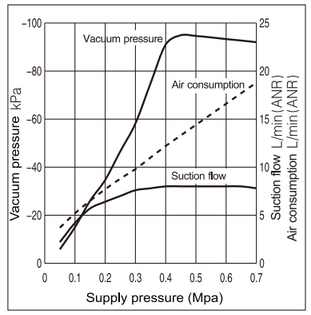


Flow Features (At 0.35MPa)

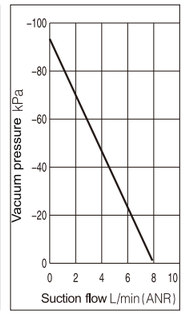


EZU05SA

Exhaust traits

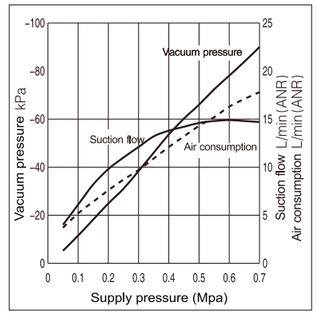


Flow Features (At 0.45MPa)

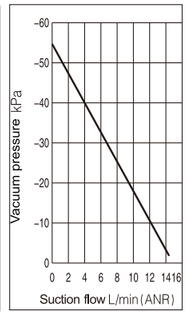


EZU05LA

Exhaust traits

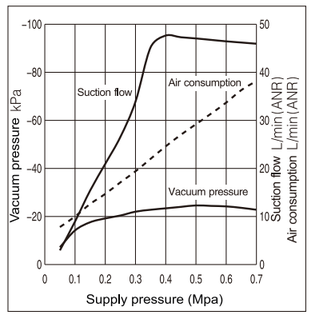


Flow Features (At 0.45MPa)

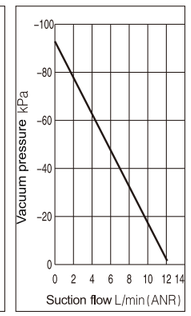


EZU07SA

Exhaust traits

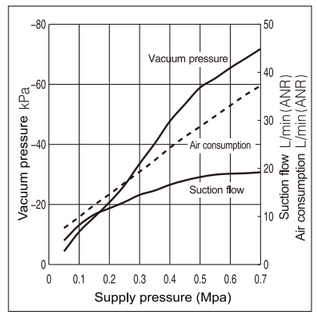


Flow Features (At 0.45MPa)

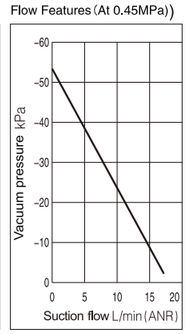


EZU07LA

Exhaust traits

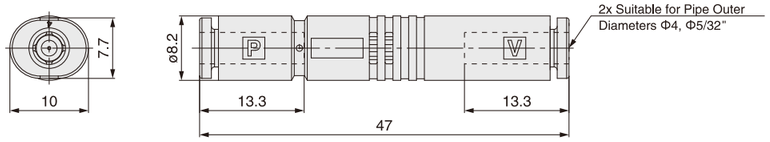


Flow Features (At 0.45MPa))

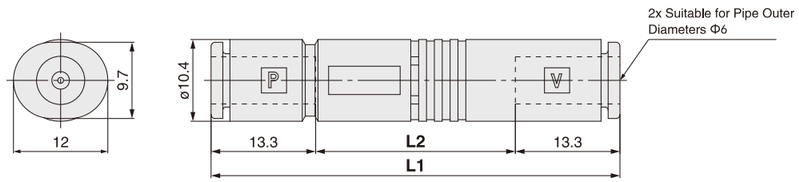


◎ L–Type/DIN Rail Mounting Bracket

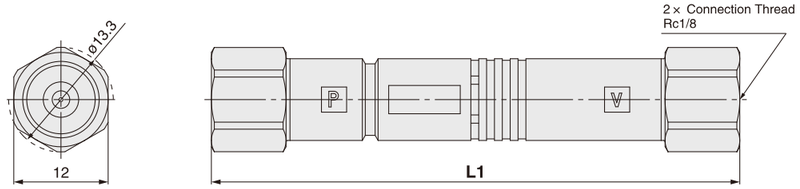
EZU03、04



EZU05、07



Model	L1	L2
EZU05□A	52	25.4
EZU07□A	59	32.4



Model	L1
EZU05□A01	67.2
EZU07□A01	74.2

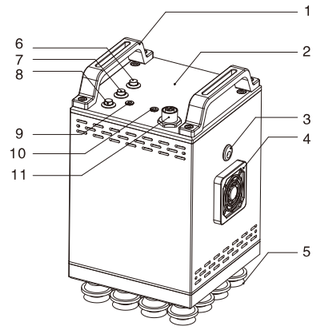
EVD

Electric Vacuum Execution Unit



◎ Product Features

- Electric vacuum generation, high vacuum,big flow.
- Integrated structure to combine Vacuum, vacuum break and suction pad.
- Built–in dual power conversion which can automatically start the built–in backup power supply,to ensure the workpiece not fall in the case of emergencies, the maximum sustainable pressure preservation 60min.
- Manual debugging and automatic control can be switched flexibly,making installation and debugging more convenient.
- Mainly used in mobile work platform,the end vacuum grab and handling under the condition of no compressed air supply.



1、Mounting bracket
2、Body
3、Charging port for Back–up power (standard specific charger)
4、Fan
5、Rubber suction cup (multi options)
6、Button for Backup power
7、Button for Break vacuum control(light on menas break)
8、Button for Main power (light on means power on)
9、Vacuum breaking indicator light (light on means vacuum breaking)
10、Vacuum working indicator light (light on means open vacuum)
11、M12–5 core control cable connection port

◎ How to order?

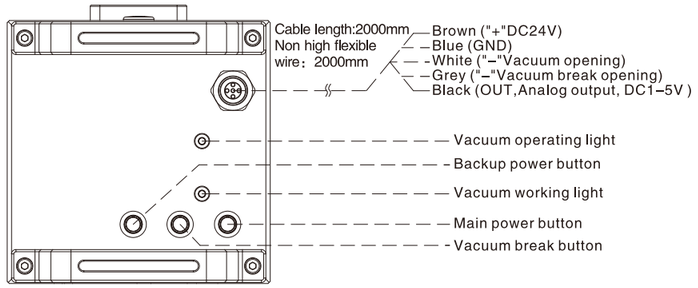
Series No.	Adsorption Plane Size	–	Suction Size	–	Backup Power Type
EVD：EVD series	120X120		B20 B40 M (Customization)		UPS: Built–in backup power ER: External backup power

Order Example: EVD series electric vacuum execution unit, adsorption surface size: 120x120；suction cup size :B20; with built–in backup power.
The order code is EVD120X120–B20–UPS

◎ Specifications

Working Voltage	Max Vacuum	B20 Max Adsorption Capacity	B40 Max Adsorption Capacity	Running Noise
DC24 ± 10% V	–85 kPa	18kg	25kg	⩽73 dB (A)
Pressure Sensor				
Measuring pressure: 0~–100kPa,Analog output:1–5V, Accuracy: ± 4%FS,Repeatability: ± 0.3% FS.				
Working current	Max vacuum flow	Ambient temperature and humidity	Vacuum setup time (0~–60kPa)	Dual power switch time
2.2A	45 NL/min	0~50 ℃, below 85%RH	0.5s	⩽15ms
Peak current	Net weight	Protection Class	Vacuum breaking time	Cable length
2.6A	2.8kg	IP40	0.2s	2000 ± 5mm

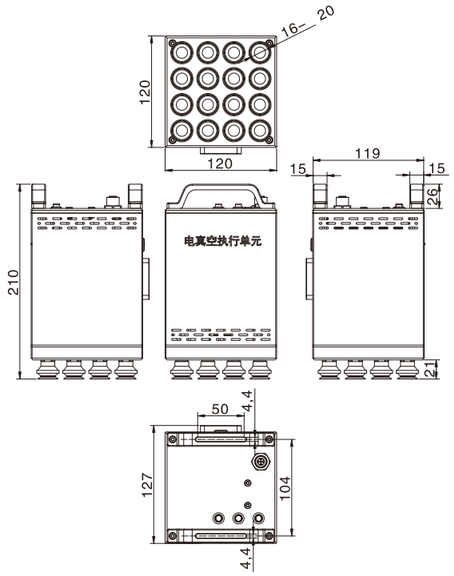
Instructions



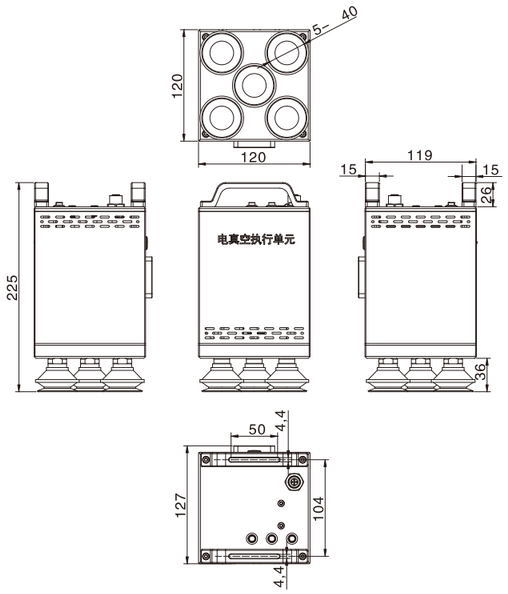
Note:
1、This product adopts vacuum adsorption grasp, please confirm whether the workpiece is suitable for this method before use. It is recommended that hard surface workpieces can be used.
2、The product has built–in lithium battery backup power supply,which has been turned off before delivery, and must be turned on before use.
3、Before wiring the product, please pay attention to the cable sequence, do not live operation.
4、The fan on the back is used for internal cooling of the product. Do not block the fan port during use.

Dimension(mm)

EVD120X120–B20–



EVD120X120–B40–



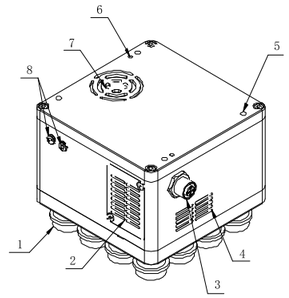
EVD-M

Electric Vacuum Execution unit



Product Features

- Electric vacuum generation, high vacuum,big flow;
- Integrated structure to combine Vacuum, vacuum break and suction pad.;
- Small in size and light in weight, it can be used for various different working conditions, such as the end of a collaborative robotic arm;
- Double mounting holes on the top and side, single cable interface, simple installation and wiring;
- aMainly used in mobile work platform,the end vacuum grab and handling underthe condition of no compressed air supply.。



1、Vacuum pad
2、Cooling air intake window
3、M12–5 core control cable connection port
4、Vent
5、M5 installation hole
6、Pin hole
7、Heat dissipation exhaust window
8、Pilot lamp

How to order?

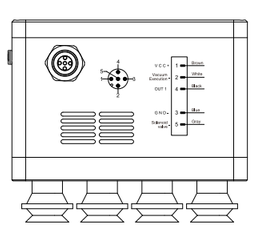
Series No.	Adsorption plane size	—	Suction size	—	Type
EVD：EVD Series	120X120		B20: ϕ20 B40: ϕ40 M15:Sponge thickness 15(customization)		M:MIDI

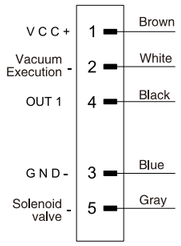
Order example: EVD Electric Vacuum Execution unit, adsorption plane size 120x120, suction pad size B20, MIDI
Order code is EVD120X120–B20–M

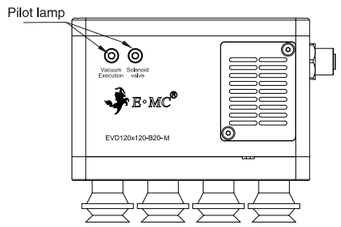
Specifications

Working voltage	DC24 ± 10%V	Working current	2.2A	Peak current	2.6A
MAX Vacuum	–85kPa	Max vacuum flow	45NL/min	Net Weight	1.6kg
B20 Max adsorption capacity	18kg	B40 Max adsorption capacity	25kg	M15 Max adsorption capacity	18kg
Running noise	≤73dB(A)	Vacuum setup time(0~60kPa)	0.5s	Vacuum breaking time	0.2s
Protection class	IP40	Ambient temperature and humidity	0 ~ 50℃, < 85%RH	Cable length	2000±5mm
Pressure sensor	Measuring pressure: 0~–100kPa, Analog output:1–5V, Accuracy: ±3%F.S., Repeatability: ± 0.3% F.S.				

Instructions







Note:

1、This product adopts vacuum adsorptiongrasp, please confirm whether theworkpiece is suitable for this methodbefore use.
It is recommended thathard surface workpieces can be used.

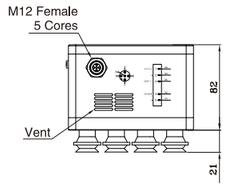
2、Before wiring the product, please payattention to the cable sequence, donot live operation;

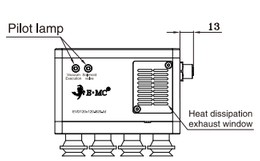
3、To prevent accidents during use, please do not block any ventilation windows;

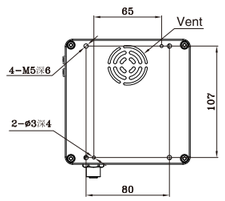
4. This MIDI model is economical and has no internal backup power supply.

Dimension(mm)

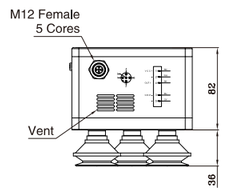
EVD120x120–B20–M

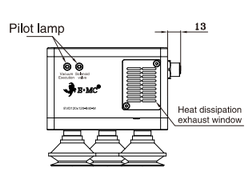


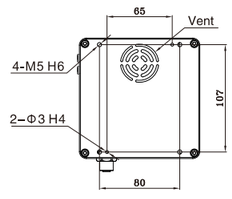




EVD120x120–B40–M

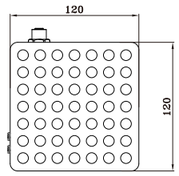


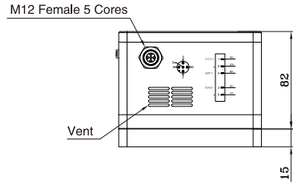


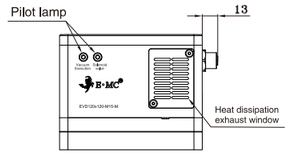


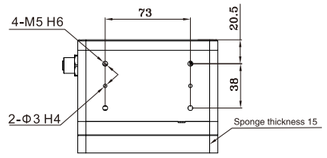
Dimension(mm)

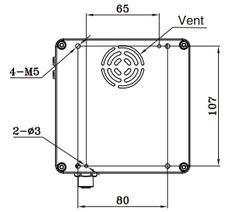
EVD120x120–M15–M











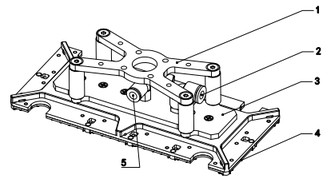
EVG

Bernoulli Vacuum Pad



Application/Features

- Use Bernoulli principle to realize vacuum adsorption.
- Multiple absorb surfaces to satisfy different applications.
- The body made of quality aluminum alloy and lightweight design.
- Unique design of air duct to reduce noise and air comsuption



1、Installation flange
2、Air supply port (1XØ6)
3、Body
4、Absorb surface
5、Vacuum break port (1XØ6)

How to Order?

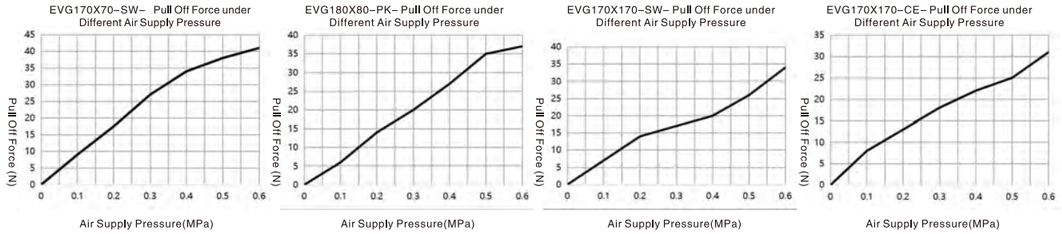
Series	Size of Absorb Surface	—	Material of Absorb Surface	—	Vacuum Breaking Fitting
EVG：EVG Series	170X70		SW：Silicone Rubber		06：elbow fitting（Φ6）
	180X70		PK：PEEK		ZSC：speed controller（Φ6）
	170X170		SW：Silicone Rubber		
	170X170		CE：Ceramics		

Order Example: Example EVG Bernoulli Vacuum Pad, Absorb surface170X70mm, Material of Absorb Surface: Textured silicone pad, elbow fitting for vacuum breaking, the part number is EVG170X70-SW-06

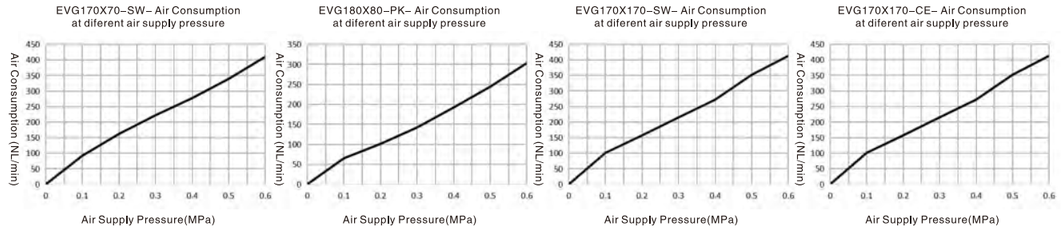
Technical Parameter

Model	Rated Air Supply Pressure(MPa)	Air Comsuption under Rated Pressure(NL/min)	Pull Off Force (N)	Air Inlet(mm)	Vacuum Breaking Port(mm)	Net Weight(g)
EVG170X70-SW-	0.25	194	22	1 x φ6	1 X φ6	240
EVG180X80-PK-	0.25	127	16	1 x φ6	1 X φ6	302
EVG170X170-SW-	0.25	184	15	1 x φ6	4 X φ6	381
EVG170X170-CE-	0.25	184	15	1 x φ6	4 X φ6	393

Pull Off Force under Different Air Supply Pressure(N)

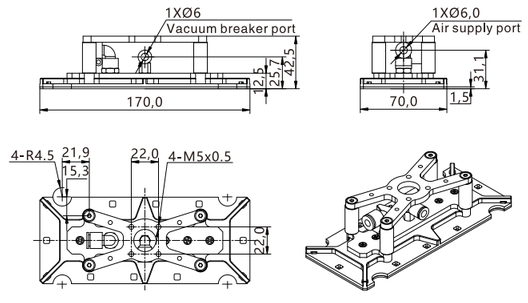


Air Consumption at Diferent Air Supply Pressure (NL/min)

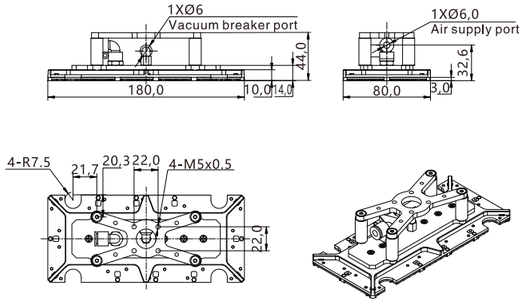


Main Dimension (mm)

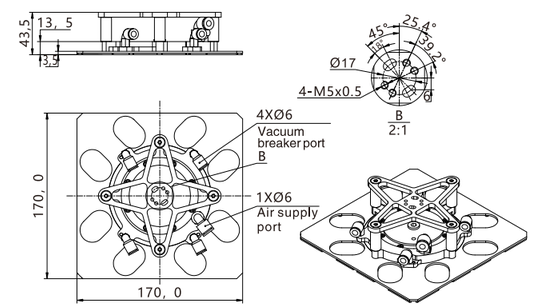
EVG170X70-SW-



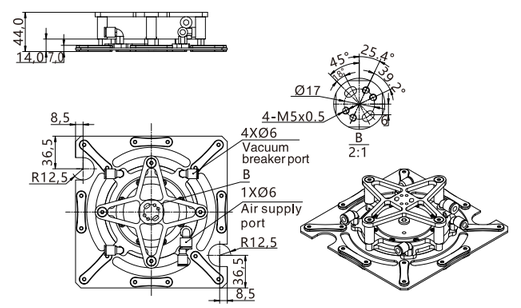
EVG180X80-PK-



EVG170X170-SW-



EVG170X170-CE-



ENT

Bernoulli Vacuum Pad



Application/Features

- The product uses the Bernoulli principle to generate the lifting force to adsorb the workpiece.
- The product relies on 3 small points to support the adsorption surface, which can greatly reduce the adsorption contact area.
- The product has the characteristics of large flow and low vacuum, and has obvious advantages over conventional suction cups for light,thin and hollow workpieces.

How to Order?

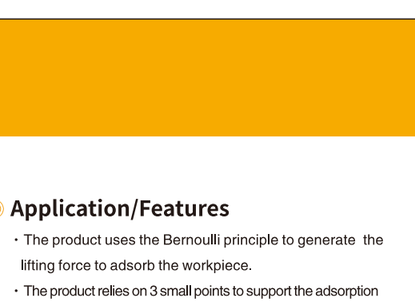
Series No.	Body Size	—	□	—	Flow type	—	Cushion Material
ENT:ENT Series	20: Ø20mm 30: Ø30mm 40: Ø40mm 60: Ø60mm 80: Ø80mm 100: Ø100mm 120: Ø120mm		Body Material: Aluminum Alloy		S: Standard flow		N: Nitrile rubber PK: PEEK(Mark-free)

Order Example: ENT Series Bernoulli Vacuum Generator, Body size 20mm, aluminum alloy, standard flow, Nitrile rubber.
Order code is: ENT20–S–N

Performance Parameter

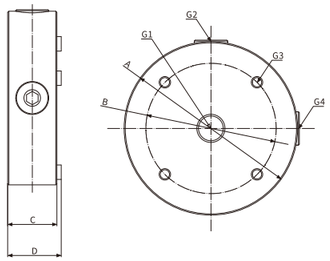
Model	Supply pressure (MPa)	Lifting Force (N)	Consumption Flow Rate(NL/min)	Operating Temperature(℃)	Weight(g)
ENT20	0.5	2	80	0-60	16
ENT30	0.5	4	100	0-60	29.8
ENT40	0.5	6.5	140	0-60	48.4
ENT60	0.5	13	200	0-60	128
ENT80	0.5	26	260	0-60	246
ENT100	0.5	46	350	0-60	366
ENT120	0.5	89	420	0-60	510

Construction



Main Dimension

ENT20~120

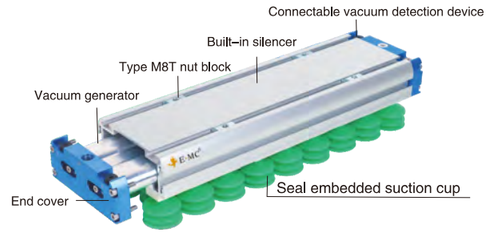


Model	A	B	C	D	G1	G2	G3	G4
ENT20	20	14	15	15.8	M5	M5	4-M3深6	M6
ENT30	30	22	17	17.8	M5	M5	4-M4深6	M6
ENT40	40	32	17	17.8	G1/8	G1/8	4-M4深6	G1/8
ENT60	60	45	17	17.8	G1/8	G1/8	4-M4深6	G1/8
ENT80	80	60	17	17.8	G1/8	G1/8	4-M4深6	—
ENT100	100	75	17	17.8	G1/8	G1/8	4-M4深6	—
ENT120	120	105	17	17.8	G1/8	G1/8	4-M4深6	—

Vacuum Gripper

The EGP-S-A vacuum gripper system-integrated insert vacuum generator, which can be individually configured and quickly disassembled according to changing working conditions.The system is modular in design and easy to maintain.Reserved interface, and functional components can be directly added to the gripper, the process has been optimized, environmental protection and energy saving.

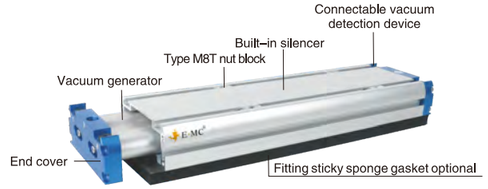
Built-in Plug-in Vacuum Generator
Performance optimization: Lower air consumption and greater vacuum flow for greater suction power.The silencer of the vacuum generator keep the noise level below 70dB(A).



Sponge Gripper

EGP-F-A sponge gripper system-integrated plug-in vacuum generator,which can be individually configured and quickly disassembled according to changing working conditions.The system is modular in design and easy to maintain.Reserved interface, can directly attach functional components on the gripper to optimize the process, environmental protection and energy saving.

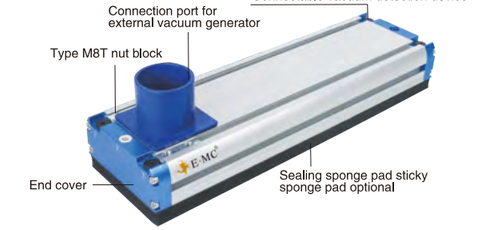
Built-in Plug-in Vacuum Generator
Performance optimization: Lower air consumption and greater vacuum flow for greater suction power.The silencer of the vacuum generator keep the noise level below 70dB(A).



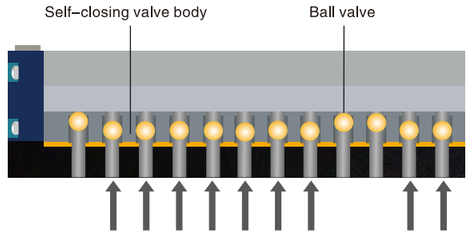
Gripper Introduction And Display

EGP-F-E: Suitable for external vacuum generator sponge gripper EGP-F-E adopts the same module design as EGP-F-A, and reserves external ports for external vacuum generator, so it is especially suitable for vacuum pumps and blowers.

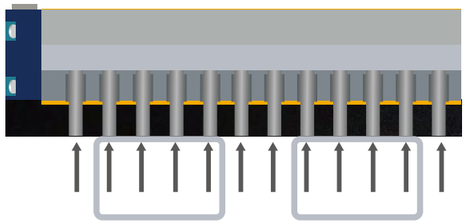
Connection Port For External Vacuum Generator
It can be used in conjunction with electrically driven vacuum generators (blower or vacuum pump).



Valve Body Technical Description

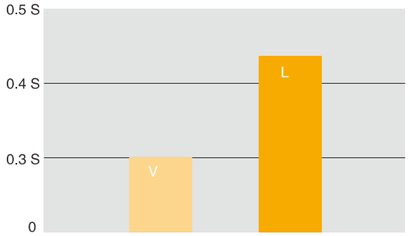


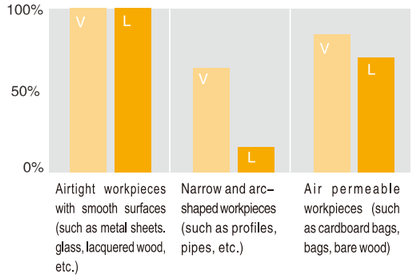
Self-closing Valve V
- A mechanical check valve is integrated inside the gripper. When the sponge hole does not completely cover the workpiece, the check valve will automatically close, reduce vacuum leakage, and keep the gripper normally absorbing the workpiece.
- Self-closing valve body. Enlarging the diameter allows more flow to pass through, used in high-speed grabbing and releasing occasions to meet the handling needs of workpieces with uneven surfaces



Flow Valve L
- Built-in flow valve,When the gripper does not touch the area of the workpiece,vacuum leaks are minimized.
- Suitable for overturning and high-speed handling.
- The diameter of the flow valve is optional.

Selection Guide





Application Features	Self–closing Valve	Fluid Valve
Airtight workpieces with smooth surfaces (such as metal sheets.glass, lacquered wood, etc.)	√	√
Air permeable workpieces (such as cardboard bags, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	√
Workpieces with small pick–up area,low suction hole coverage of grippers (such as pipe fittings, profiles)	√	
Minimize cycle time (accelerated blow release)	√	
Optimize energy efficiency	√	
Flip operation angle > 45° , any flip		√
Minimize interference caused by mismatch between pipe diameter and external vacuum generator (highly integrated)	√	
Easy installation, quick connection	√	
Minimized system costs (input costs include vacuum generation unit, hoses and controllers)	√	
Minimized operating costs (due to the choice of electric vacuum generator), especially when multiple grippers are used	√	
Handling highly air–permeable workpieces	√	√

Application Features	Sponge	Gripper
Rigid workpieces such as sheets, metal sea panels, profiles and pallets	√	√
Flexible workpieces such as cardboard boxes, bags, bags and pallets	√	√
Long and narrow workpieces and plates	√	√
Rough workpiece surface, with modeling lines	√	
Handling of small workpieces such as cans (open/closed), pop cans on the whole floor	√	

EGP130-F-A

Sponge Gripper(Built–In Vacuum Source



Product Features

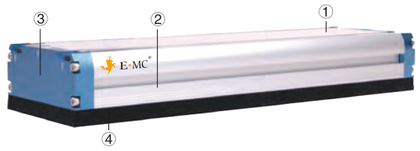
- Suitable for different industry products grabing, meet various specifications
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes
- Vacuum source uses a built–in plug–in vacuum generator, lower air consumption, greater vacuum flow, shorter vacuum build–up time
- Integrated plug–in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions
- Modular design for easy maintenance
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving
- The material is aluminum alloy, engineering plastic and carbon fiber composite material, which is high strength and light weight
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors
- Rubber gasket accessory for quick replacement

How to Order?

Series No.	Gripper Width—Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickeness Type	—	Vacuum Source
EGP: Vacuum gripper	130:130mm 190:190mm 262:262mm 316:316mm 352:352mm 442:442mm 550:550mm 640:640mm 712:712mm 838:838mm 910:910mm 1000:1000mm 1234:1234mm 1432:1432mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows oval hole 5F:Five rows oval hole 4F:Five rows round hole 1F:Two rows oval hole	10：10mm 15：15mm 20：20mm 30：30mm 10F10：With filter function 15F15：With filter function M：Traceless type		A:Built–in vacuum generator

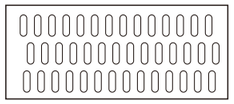
Order Example: EGP vacuum gripper,gripper width 130mm, gripper length 1234mm, self–closing valve, three rows oval hole, gasket thickness 20mm, built–in vacuum generator.EPR code is: EGP130–1234V–3F20–A

Product Structure

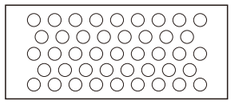


① Gripper body: the material is reinforced aluminum alloy
② Built–in valve body technology optional: self–closing valve, flow valve, high–speed valve
③ Built–in vacuum generator: low–consumption and energy–saving multi–stage injection technology
④ Suction–hole type optional: universal type, customized type

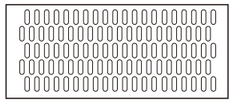
Suction-hole Type



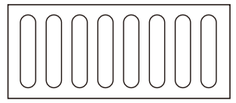
EGP130 standardized suction–hole type
Type:3F
universal type



EGP130 customized suction–hole type
Type:4F
Customized type



EGP130 customized suction–hole type
Type:5F
Customized type



EGP130 customized suction–hole type
Type:
Customized type

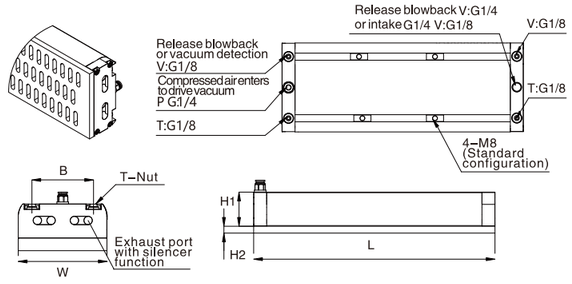
Performance Parameter

Model	Suction–hole Type	Hole number	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGP130-190V-3F□-A	3F	24	4~6	100	–60	350	336	2
EGP130-262V-3F□-A	3F	36	4~6	100	–60	350	393	2.5
EGP130-316V-3F□-A	3F	45	4~6	100	–60	350	491	2.7
EGP130-352V-3F□-A	3F	51	4~6	200	–60	700	557	2.9
EGP130-442V-3F□-A	3F	66	4~6	200	–60	700	721	3.3
EGP130-550V-3F□-A	3F	84	4~6	300	–60	1050	917	3.7
EGP130-640V-3F□-A	3F	99	4~6	300	–60	1050	1081	4.1
EGP130-712V-3F□-A	3F	111	4~6	300	–60	1050	1212	4.5
EGP130-838V-3F□-A	3F	132	4~6	300	–60	1050	1441	5.1
EGP130-910V-3F□-A	3F	144	4~6	400	–60	1400	1572	5.4
EGP130-1000V-3F□-A	3F	159	4~6	400	–60	1400	1736	5.7
EGP130-1234V-3F□-A	3F	198	4~6	600	–60	2100	2162	7.3
EGP130-1432V-3F□-A	3F	231	4~6	800	–60	2100	2522	8.6
EGP130-190 V-4F□-A	4F	30	4~6	100	–60	350	406	2
EGP130-295V- 4F□-A	4F	53	4~6	100	–60	350	490	2.6
EGP130-434V- 4F□-A	4F	83	4~6	200	–60	600	767	3.3
EGP130-572V- 4F□-A	4F	113	4~6	300	–60	1050	1044	3.8
EGP130-711V-4F□-A	4F	143	4~6	300	–60	1050	1321	4.5
EGP130-849 V-4F□-A	4F	173	4~6	400	–60	1400	1598	5.2
EGP130-988V- 4F□-A	4F	203	4~6	400	–60	1400	1875	5.6
EGP130-1126V-4F□-A	4F	233	4~6	600	–60	2100	2152	7.0
EGP130-1265V-4F□-A	4F	263	4~6	600	–60	2450	2429	7.4
EGP130-1403V-4F□-A	4F	293	4~6	600	–60	2450	2606	8.5
EGP130-1542V-4F□-A	4F	323	4~6	800	–60	2800	2983	9.1
EVGP130-262V-5F□-A	5F	60	4~6	100	–60	350	365	2.5
EVGP130-316V-5F□-A	5F	75	4~6	200	–60	600	456	2.7
EVGP130-352V-5F□-A	5F	85	4~6	200	–60	600	517	2.9
EVGP130-442V-5F□-A	5F	110	4~6	300	–60	1050	669	3.3
EVGP130-550V-5F□-A	5F	140	4~6	400	–60	1400	852	3.7
EVGP130-640V-5F□-A	5F	165	4~6	400	–60	1400	1004	4.1
EVGP130-712V-5F□-A	5F	185	4~6	400	–60	1400	1126	4.5
EVGP130-838V-5F□-A	5F	220	4~6	400	–60	1400	1339	5.1
EVGP130-910V-5F□-A	5F	245	4~6	600	–60	2100	1460	5.4
EVGP130-1000V-5F□-A	5F	265	4~6	600	–60	2450	1613	5.7
EVGP130-1234V-5F□-A	5F	330	4~6	800	–60	2800	2008	7.3
EVGP130-1432V-5F□-A	5F	385	4~6	800	–60	2800	2343	8.6

Main Dimension

Dimension：[mm]

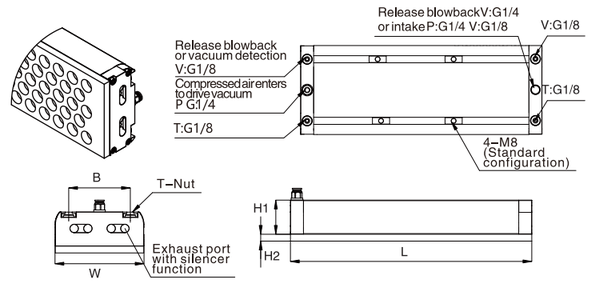
Model	B	H1	H2(□□)			W	L
EGP130-190V-3F□-A	90	50	10	15	20	130	190
EGP130-262V-3F□-A	90	50	10	15	20	130	262
EGP130-316V-3F□-A	90	50	10	15	20	130	316
EGP130-352V-3F□-A	90	50	10	15	20	130	352
EGP130-442V-3F□-A	90	50	10	15	20	130	442
EGP130-550V-3F□-A	90	50	10	15	20	130	550
EGP130-640V-3F□-A	90	50	10	15	20	130	640
EGP130-712V-3F□-A	90	50	10	15	20	130	712
EGP130-838V-3F□-A	90	50	10	15	20	130	838
EGP130-910V-3F□-A	90	50	10	15	20	130	910
EGP130-1000V-3F□-A	90	50	10	15	20	130	1000
EGP130-1234V-3F□-A	90	50	10	15	20	130	1234
EGP130-1432V-3F□-A	90	50	10	15	20	130	1432



Main Dimension

Dimension：[mm]

Model	B	H1	H2(□□)			W	L
EGP130-190 V- 4F□-A	90	50	10	15	20	130	190
EGP130-295V- 4F□-A	90	50	10	15	20	130	295
EGP130-434V- 4F□-A	90	50	10	15	20	130	434
EGP130-572V-4F□-A	90	50	10	15	20	130	572
EGP130-711V-4F□-A	90	50	10	15	20	130	711
EGP130-849V-4F□-A	90	50	10	15	20	130	849
EGP130-988V- 4F□-A	90	50	10	15	20	130	988
EGP130-1126V-4F□-A	90	50	10	15	20	130	1126
EGP130-1265V-4F□-A	90	50	10	15	20	130	1265
EGP130-1403V-4F□-A	90	50	10	15	20	130	1403
EGP130-1542V-4F□-A	90	50	10	15	20	130	1542



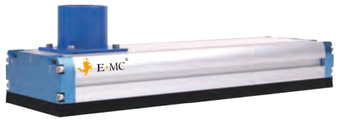
Dimension：[mm]

Model	B	H1	H2(□□)			W	L
EVGP130-262V-5F□-A	90	50	10	15	20	130	262
EVGP130-316V-5F□-A	90	50	10	15	20	130	316
EVGP130-352V-5F□-A	90	50	10	15	20	130	352
EVGP130-442V-5F□-A	90	50	10	15	20	130	442
EVGP130-550V-5F□-A	90	50	10	15	20	130	550
EVGP130-640V-5F□-A	90	50	10	15	20	130	640
EVGP130-712V-5F□-A	90	50	10	15	20	130	712
EVGP130-838V-5F□-A	90	50	10	15	20	130	838
EVGP130-910V-5F□-A	90	50	10	15	20	130	910
EVGP130-1000V-5F□-A	90	50	10	15	20	130	1000
EVGP130-1234V-5F□-A	90	50	10	15	20	130	1234
EVGP130-1432V-5F□-A	90	50	10	15	20	130	1432



EGP130-F-E

Sponge Gripper(External Vacuum Source)



Product Features

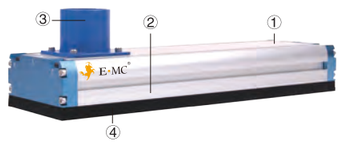
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps).
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T–type removable mounting slider，available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	Vacuum Source
EGP: Vacuum gripper	130:130mm		262:262mm 316:316mm 352:352mm 442:442mm 550:550mm 640:640mm 712:712mm 838:838mm 910:910mm 1000:1000mm 1234:1234mm 1432:1432mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows oval hole 5F:Five rows oval hole 4F:Five rows round hole 1F:Two rows oval hole	10：10mm 15：15mm 20：20mm 30：30mm 10F10：With filter function 15F15：With filter function M：Traceless type		E:Connection interface for external vacuum generator

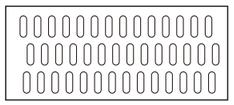
Order Example EGP vacuum gripper,gripper width 130mm, gripper length 1234mm, self–closing valve, three rows oval hole, gasket thickness 20mm, connection interface for external vacuum generator. EPR code is: EGP130–1234V–3F20–E

Product Structure

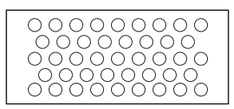


① Gripper body: the material is reinforced aluminum alloy
② Built–in valve body technology optional: self–closing valve, flow valve, high–speed valve
③ Connecting port for external vacuum generator
④ Suction–hole type optional: universal type, customized type

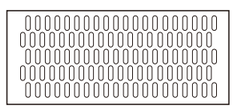
Suction-hole Type



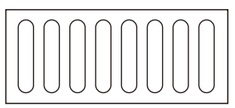
EGP130 standardized suction–hole type Type:3F universal type



EGP130 customized suction–hole type Type:4F Customized type



EGP130 customized suction–hole type Type:5F Customized type



EGP130 customized suction–hole type Type:1F Customized type

EGP130-F-E Sponge Gripper(External Vacuum Source)

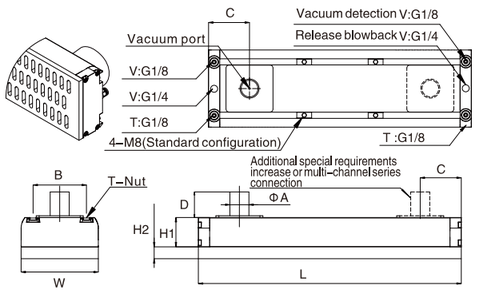
Performance Parameter

Model	Suction–hole Type	Hole number	Required Pumping Volume (L/min)	Vacuum Degree (kPa)	Suction Force N(–40kPa)	Weight (kg)
EGP130-262V-3F□-E	3F	36	110	40	262	2.2
EGP130-316V-3F□-E	3F	45	150	40	328	2.4
EGP130-352V-3F□-E	3F	51	220	40	371	2.6
EGP130-442V-3F□-E	3F	66	300	40	480	3
EGP130-550V-3F□-E	3F	84	390	40	611	3.4
EGP130-640V-3F□-E	3F	99	450	40	721	3.8
EGP130-712V-3F□-E	3F	111	510	40	808	4.2
EGP130-838V-3F□-E	3F	132	600	40	961	4.8
EGP130-910V-3F□-E	3F	144	680	40	1048	4.9
EGP130-1000V-3F□-E	3F	159	750	40	1157	5.2
EGP130-1234V-3F□-E	3F	198	900	40	1441	6.8
EGP130-1432V-3F□-E	3F	231	1050	40	1682	8.1
EGP130-295V-4F□-E	4F	53	150	40	326	2.6
EGP130-434V-4F□-E	4F	83	300	40	511	3.3
EGP130-572V-4F□-E	4F	113	400	40	696	3.8
EGP130-711V-4F□-E	4F	143	510	40	881	4.5
EGP130-849V-4F□-E	4F	173	600	40	1065	5.2
EGP130-988V-4F□-E	4F	203	750	40	1250	5.6
EGP130-1126V-4F□-E	4F	233	850	40	1435	7
EGP130-1256V-4F□-E	4F	263	950	40	1619	7.4
EGP130-1403V-4F□-E	4F	293	1050	40	1804	8.5
EGP130-1542V-4F□-E	4F	323	1250	40	1989	9.1
EGP130-262V-5F□-E	5F	60	110	40	191	2.2
EGP130-316V-5F□-E	5F	75	150	40	239	2.4
EGP130-352V-5F□-E	5F	85	220	40	271	2.6
EGP130-442V-5F□-E	5F	110	300	40	35o	3
EGP130-550V-5F□-E	5F	140	390	40	446	3.4
EGP130-640V-5F□-E	5F	165	450	40	526	3.8
EGP130-712V-5F□-E	5F	185	510	40	589	4.2
EGP130-838V-5F□-E	5F	220	600	40	701	4.8
EGP130-910V-5F□-E	5F	245	680	40	780	4.9
EGP130-1000V-5F□-E	5F	265	750	40	844	5.2
EGP130-1234V-5F□-E	5F	330	900	40	1051	6.8
EGP130-1432V-5F□-E	5F	385	1050	40	1226	8.1

Main Dimension

Dimension：[mm]

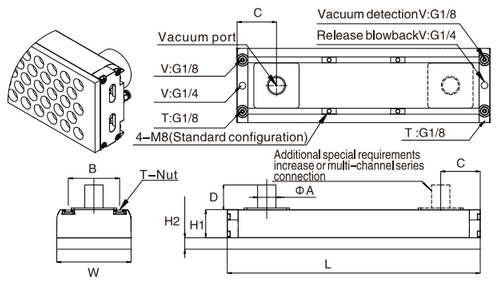
Model	A	B	C	D	H1	H2(□□)			W	L
EGP130-262V-3F□-E	60(32)	90	69	54	50	10	15	20	130	262
EGP130-316V-3F□-E	60(32)	90	69	54	50	10	15	20	130	316
EGP130-352V-3F□-E	60(32)	90	69	54	50	10	15	20	130	352
EGP130-442V-3F□-E	60(32)	90	69	54	50	10	15	20	130	442
EGP130-550V-3F□-E	60(32)	90	69	54	50	10	15	20	130	550
EGP130-640V-3F□-E	60(32)	90	69	54	50	10	15	20	130	640
EGP130-712V-3F□-E	60(32)	90	69	54	50	10	15	20	130	712
EGP130-838V-3F□-E	60(32)	90	69	54	50	10	15	20	130	838
EGP130-910V-3F□-E	60(32)	90	69	54	50	10	15	20	130	910
EGP130-1000V-3F□-E	60(32)	90	69	54	50	10	15	20	130	1000
EGP130-1234V-3F□-E	60(32)	90	69	54	50	10	15	20	130	1234
EGP130-1432V-3F□-E	60(32)	90	69	54	50	10	15	20	130	1432



◎ Main Dimension

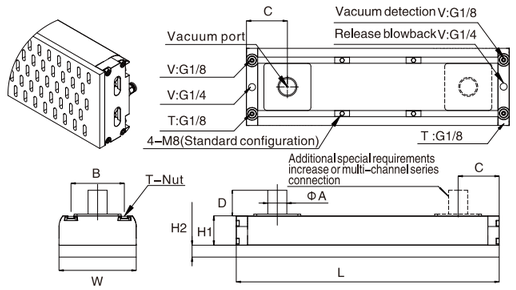
Dimension：[mm]

Model	A	B	C	D	H1	H2(□□)			W	L
EGP130-295V-4F□-E	60(32)	90	69	54	50	10	15	20	130	295
EGP130-434V-4F□-E	60(32)	90	69	54	50	10	15	20	130	434
EGP130-572V-4F□-E	60(32)	90	69	54	50	10	15	20	130	572
EGP130-711V-4F□-E	60(32)	90	69	54	50	10	15	20	130	711
EGP130-849V-4F□-E	60(32)	90	69	54	50	10	15	20	130	849
EGP130-988V-4F□-E	60(32)	90	69	54	50	10	15	20	130	988
EGP130-1126V-4F□-E	60(32)	90	69	54	50	10	15	20	130	1126
EGP130-1256V-4F□-E	60(32)	90	69	54	50	10	15	20	130	1256
EGP130-1403V-4F□-E	60(32)	90	69	54	50	10	15	20	130	1403
EGP130-1542V-4F□-E	60(32)	90	69	54	50	10	15	20	130	1542



Dimension：[mm]

Model	A	B	C	D	H1	H2(□□)			W	L
EGP130-262V-5F□-E	60(32)	90	69	54	50	10	15	20	130	262
EGP130-316V-5F□-E	60(32)	90	69	54	50	10	15	20	130	316
EGP130-352V-5F□-E	60(32)	90	69	54	50	10	15	20	130	352
EGP130-442V-5F□-E	60(32)	90	69	54	50	10	15	20	130	442
EGP130-550V-5F□-E	60(32)	90	69	54	50	10	15	20	130	550
EGP130-640V-5F□-E	60(32)	90	69	54	50	10	15	20	130	640
EGP130-712V-5F□-E	60(32)	90	69	54	50	10	15	20	130	712
EGP130-838V-5F□-E	60(32)	90	69	54	50	10	15	20	130	838
EGP130-910V-5F□-E	60(32)	90	69	54	50	10	15	20	130	910
EGP130-1000V-5F□-E	60(32)	90	69	54	50	10	15	20	130	1000
EGP130-1234V-5F□-E	60(32)	90	69	54	50	10	15	20	130	1234
EGP130-1432V-5F□-E	60(32)	90	69	54	50	10	15	20	130	1432



E•MC®

EGP130-FOAM

Sponge Gasket Accessory



◎ Product Features

- Sponge gasket comes with self–adhesive.
- Acheieve fast and easy replacement.
- No adhesive residue after replacement, no need to clean up the board.
- Compresses and rebounds quickly for short beat work.
- Filter function can be added under harsh dusty working conditions.

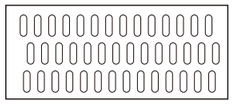
◎ How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	–	□
EGP: Sponge gasket	130:130mm		262:262mm 316:316mm 352:352mm 442:442mm 550:550mm 640:640mm 712:712mm 838:838mm 910:910mm 1000:1000mm 1234:1234mm 1432:1432mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows oval hole 5F:Five rows oval hole 4F:Five round oval hole 1F:Two rows oval hole	10：10mm 15：15mm 20：20mm 30：30mm 10F10：With filter function 15F15：With filter function M：Traceless type		FOAM: Sponge Gasket Accessory

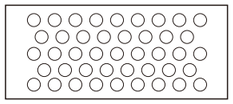
Order Example: EGP series sponge gasket accessory, gripper width 130mm, gripper length 1234mm, self–closing valve, three rows oval hole, gasket thickness 20mm, sponge gasket accessoryEPR code is:EGP130–1234V–3F20–F0AM

Note: Sponge is a consumable in this product, please replace it in time according to the actual working conditions, otherwise it will affect the adsorption effect of the product, use temperature: –10–80° C, do not touch strong acid, strong alkali and other corrosive gases or liquids; do not touch sharp objects

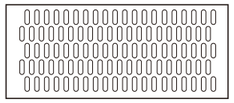
◎ Suction-hole Type



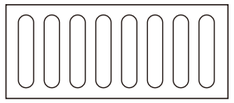
EGP130 standardized suction–hole type
Type:3F
universal type



EGP130 customized suction–hole type
Type:4F
Customized type



EGP130 customized suction–hole type
Type:5F
Customized type



EGP130 customized suction–hole type
Type:
Customized type

EGP130-S-A

Vacuum Gripper(Built–In Vacuum Source)



Product Features

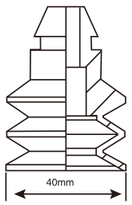
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source uses a built–in plug–in vacuum generator, lower air consumption, greater vacuum flow, shorter vacuum build–up time.
- Integrated plug–in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions.
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, engineering plastic and carbon fiber composite material, which is high strength and light weight.
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper Diameter Type	—	Vacuum Source
EGP: Vacuum gripper	130:130mm		295:295mm 434:434mm 572:572mm 711:711mm 849:849mm 988:988mm 1126:1126mm 1403:1403mm 1542:1542mm	V:Self–closing valve L:Flow valve S:High–speed valve		3:Three rows embedded module 5:Five rows embedded module	S40：Gripper diameter 40mm S20：Gripper diameter 20mm		A:Built–in vacuum generator

Order Example: EGP series vacuum gripper, gripper width 130mm, gripper length 1265mm, self–closing valve, three rows embedded module, gripper diameter 40mm, built–in vacuum generator.EPR code is:EGP130–1265V–3S40–A

Gripper Accessory Series No.

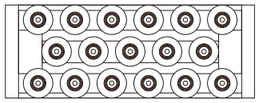


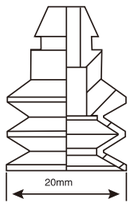
Gripper Accessory Series No: S40

Gripper diameter 40MM

Gripper uses 3 rows

Suction–hole Type:3



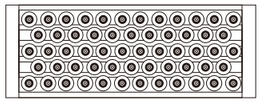


Gripper Accessory Series No: S20

Gripper diameter 20MM

Gripper uses 5 rows

Suction–hole Type:5



EGP130-S-A Vacuum Gripper(Built-In Vacuum Source)

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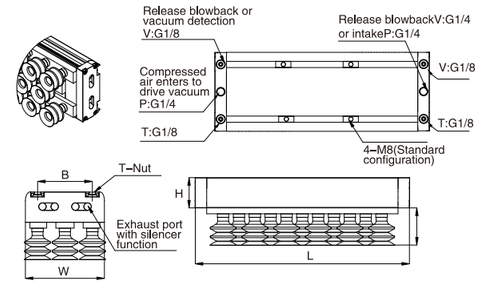
Performance Parameter

Model	Suction–hole Type	Gripper Type	Gripper Number	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGP130-295V-3S40-A	3	S40	17	4~6	200	–60	600	296	3
EGP130-434V-3S40-A	3	S40	26	4~6	200	–60	600	452	3.8
EGP130-572V-3540-A	3	S40	35	4~6	300	–60	1050	608	4.5
EGP130-711V-3S40-A	3	S40	44	4~6	300	–60	1050	765	5.3
EGP130-849V-3S40-A	3	S40	53	4~6	400	–60	1400	921	6.2
EGP130-988V-3S40-A	3	S40	62	4~6	400	–60	1400	1078	7.2
EGP130-1126V-3S40-A	3	S40	71	4~6	600	–60	2100	1234	8.1
EGP130-1265V-3S40-A	3	S40	80	4~6	600	–60	2100	1391	8.9
EGP130-1403V-3S40-A	3	S40	89	4~6	800	–60	2800	1547	9.7
EGP130-1542V-3S40-A	3	S40	98	4~6	800	–60	2800	1604	10.5
EGP130-295V-5S20-A	5	S20	53	4~6	200	–60	700	277	3
EGP130-434V-5S20-A	5	S20	83	4~6	200	–60	1050	434	3.8
EGP130-572V-5S20-A	5	S20	113	4~6	300	–60	1400	591	4.5
EGP130-711V-5S20-A	5	S20	143	4~6	300	–60	1400	747	5.3
EGP130-849V-5S20-A	5	S20	173	4~6	400	–60	2100	904	6.2
EGP130-988V-5S20-A	5	S20	203	4~6	400	–60	2100	1061	7.2
EGP130-1126V-5S20-A	5	S20	233	4~6	800	–60	2800	1218	8.1
EGP130-1265V-5S20-A	5	S20	263	4~6	800	–60	2800	1375	8.9
EGP130-1403V-5S20-A	5	S20	293	4~6	800	–60	2800	1531	9.7
EGP130-1542V-5S20-A	5	S20	323	4~6	800	–60	2800	1688	10.5

Main Dimension

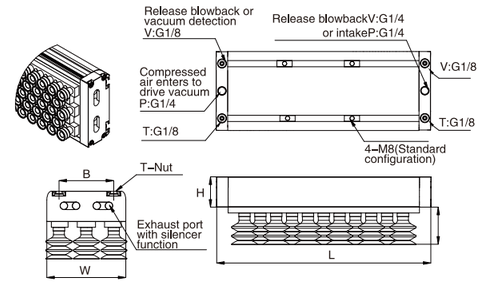
Dimension：[mm]

Model	B	H1	H2	W	L
EGP130-295V-3S40-A	90	50	33	130	295
EGP130-434V-3S40-A	90	50	33	130	434
EGP130-572V-3540-A	90	50	33	130	572
EGP130-711V-3S40-A	90	50	33	130	711
EGP130-849V-3S40-A	90	50	33	130	849
EGP130-988V-3S40-A	90	50	33	130	988
EGP130-1126V-3S40-A	90	50	33	130	1126
EGP130-1265V-3S40-A	90	50	33	130	1265
EGP130-1403V-3S40-A	90	50	33	130	1403
EGP130-1542V-3S40-A	90	50	33	130	1542



Dimension：[mm]

Model	B	H1	H2	W	L
EGP130-295V-5S20-A	90	50	33	130	295
EGP130-434V-5S20-A	90	50	33	130	434
EGP130-572V-5S20-A	90	50	33	130	572
EGP130-711V-5S20-A	90	50	33	130	711
EGP130-849V-5S20-A	90	50	33	130	849
EGP130-988V-5S20-A	90	50	33	130	988
EGP130-1126V-5S20-A	90	50	33	130	1126
EGP130-1265V-5S20-A	90	50	33	130	1265
EGP130-1403V-5S20-A	90	50	33	130	1403
EGP130-1542V-5S20-A	90	50	33	130	1542



EGP130-S-E

Vacuum Gripper(External Vacuum Source)



Product Features

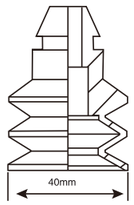
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self-closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps).
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T-type removable mounting slider，available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper Diameter Type	—	Vacuum Source
EGP: Vacuum gripper	130:130mm		295:295mm 434:434mm 572:572mm 711:711mm 849:849mm 988:988mm 1126:1126mm 1403:1403mm 1542:1542mm	V:Self-closing valve L:Flow valve S:High-speed valve		3:Three rows embedded module 5:Five rows embedded module	S40：Gripper diameter 40mm S20：Gripper diameter 20mm		E：Connection interface for external vacuum generator

Order Example: EGP series vacuum gripper, gripper width 130mm, gripper length 1265mm, self-closing valve, three rows embedded module, gripper diameter 40mm, connection interface for external vacuum generator. EPR code is:EGP130-1265V-3S40-E

Gripper Accessory Series No.

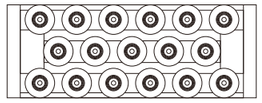


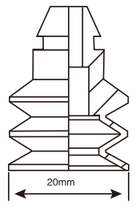
Gripper Accessory Series No: S40

Gripper diameter 40MM

Gripper uses 3 rows

Suction-hole Type:3



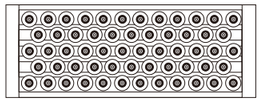


Gripper Accessory Series No: S20

Gripper diameter 20MM

Gripper uses 5 rows

Suction-hole Type:5



EGP130-S-E Vacuum Gripper(External Vacuum Source)

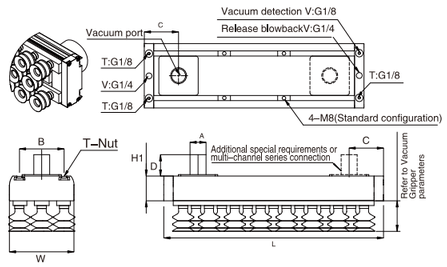
Performance Parameter

Model	Suction-hole Type	Gripper Type	Gripper Number	Required Pumping Volume (L/min)	Vacuum Degree (kPa)	Suction Force N(-40kPa)	Weight (kg)
EGP130-295V-3S40-E	3	S40	17	150	-40	296	2.8
EGP130-434V-3S40-E	3	S40	26	300	-40	452	3.6
EGP130-572V-3S40-E	3	S40	35	400	-40	608	4.3
EGP130-711V-3S40-E	3	S40	44	510	-40	765	5.1
EGP130-849V-3S40-E	3	S40	53	600	-40	921	6
EGP130-988V-3S40-E	3	S40	62	750	-40	1078	7
EGP130-1126V-3S40-E	3	S40	71	850	-40	1234	7.7
EGP130-1265V-3S40-E	3	S40	80	950	-40	1391	8.5
EGP130-1403V-3S40-E	3	S40	89	1050	-40	1547	9.3
EGP130-1542V-3S40-E	3	S40	98	1200	-40	1704	10.1
EGP130-295V-5S20-E	5	S20	53	150	-40	277	2.8
EGP130-434V-5S20-E	5	S20	83	300	-40	434	3.6
EGP130-572V-5S20-E	5	S20	113	400	-40	591	4.3
EGP130-711V-5S20-E	5	S20	143	510	-40	747	5.1
EGP130-849V-5S20-E	5	S20	173	600	-40	904	6
EGP130-988V-5S20-E	5	S20	203	750	-40	1061	7
EGP130-1126V-5S20-E	5	S20	233	850	-40	1218	7.7
EGP130-1265V-5S20-E	5	S20	263	950	-40	1375	8.5
EGP130-1403V-5S20-E	5	S20	293	1050	-40	1531	9.3
EGP130-1542V-5S20-E	5	S20	323	1250	-40	1688	10.1

Main Dimension

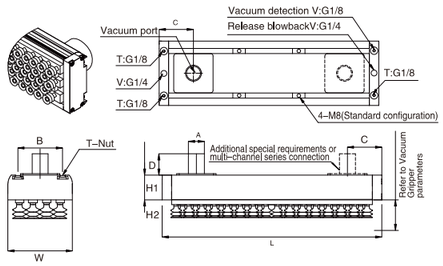
Dimension：[mm]

Model	A	B	C	D	H1	W	L
EGP130-295V-3S40-E	60(32)	90	69	54	50	130	295
EGP130-434V-3S40-E	60(32)	90	69	54	50	130	434
EGP130-572V-3S40-E	60(32)	90	69	54	50	130	572
EGP130-711V-3S40-E	60(32)	90	69	54	50	130	711
EGP130-849V-3S40-E	60(32)	90	69	54	50	130	849
EGP130-988V-3S40-E	60(32)	90	69	54	50	130	988
EGP130-1126V-3S40-E	60(32)	90	69	54	50	130	1126
EGP130-1265V-3S40-E	60(32)	90	69	54	50	130	1265
EGP130-1403V-3S40-E	60(32)	90	69	54	50	130	1403
EGP130-1542V-3S40-E	60(32)	90	69	54	50	130	1542



Dimension：[mm]

Model	A	B	C	D	H1	W	L
EGP130-295V-5S20-E	60(32)	90	69	54	50	130	295
EGP130-434V-5S20-E	60(32)	90	69	54	50	130	434
EGP130-572V-5S20-E	60(32)	90	69	54	50	130	572
EGP130-711V-5S20-E	60(32)	90	69	54	50	130	711
EGP130-849V-5S20-E	60(32)	90	69	54	50	130	849
EGP130-988V-5S20-E	60(32)	90	69	54	50	130	988
EGP130-1126V-5S20-E	60(32)	90	69	54	50	130	1126
EGP130-1265V-5S20-E	60(32)	90	69	54	50	130	1265
EGP130-1403V-5S20-E	60(32)	90	69	54	50	130	1403
EGP130-1542V-5S20-E	60(32)	90	69	54	50	130	1542



EGP60-F-A

Vacuum Gripper(Built–In Vacuum Source)



Product Features

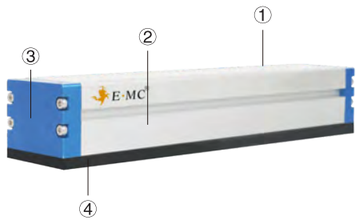
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source uses a built–in plug–in vacuum generator, lower air consumption, greater vacuum flow, shorter vacuum build–up time.
- Integrated plug–in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions.
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, engineering plastic and carbon fiber composite material, which is high strength and light weight.
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	Vacuum Source
EGP: Vacuum gripper	60:60mm		320:320mm 420:420mm 520:520mm 620:620mm 720:720mm 820:820mm 920:920mm 1020:1020mm 1120:1120mm 1220:1220mm 1320:1320mm 1420:1420mm 1520:1520mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows round hole 5F:Five round oval hole 1F:Two rows oval hole 2F:Two rows oval hole 4F:Two rows round hole	10:10mm 15:15mm 20:20mm 30:30mm 5F5:5mm With filter function 10F10:10mm With filter function 15F15:15mm With filter function M:Traceless type		A:Built–in vacuum generator

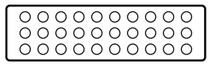
Order Example: EGP series vacuum gripper, gripper width 60mm, gripper length 520mm, self–closing valve, three rows round hole, gasket thickness 15mm, built–in vacuum source.EPR code is:EGP60–520V–3F15–A

Product Structure

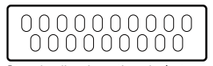


① Gripper body: the material is reinforced aluminum alloy
② Built–in valve body technology optional: self–closing valve, flow valve, high–speed valve
③ Built–in vacuum generator: low–consumption and energy–saving multi–stage injection technology
④ Suction–hole type optional: universal type, customized type

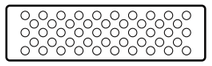
Suction-hole Type



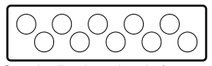
Standardized suction–hole type
Type:3F
Universal type



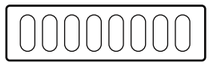
Standardized suction–hole type
Type:2F
Customized type



Standardized suction–hole type
Type:5F
Universal type



Standardized suction–hole type
Type:4F
Customized type



Standardized suction–hole type
Type:1F
Customized type

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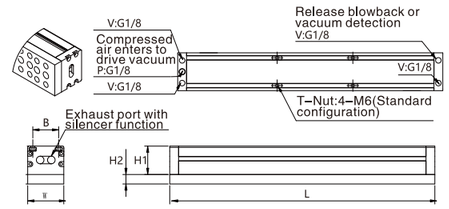
Performance Parameter

Model	Suction–hole Type	Hole number	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGP60-320V-3F□-A	3F	45	4~6	200	–60	700	223	1.4
EGP60-420V-3F□-A	3F	60	4~6	200	–60	700	297	1.6
EGP60-520V-3F□-A	3F	75	4~6	200	–60	700	371	1.8
EGP60-620V-3F□-A	3F	90	4~6	200	–60	700	446	2
EGP60-720V-3F□-A	3F	105	4~6	200	–60	700	520	2.3
EGP60-820V-3F□-A	3F	120	4~6	400	–60	1400	594	2.5
EGP60-920V-3F□-A	3F	135	4~6	400	–60	1400	669	2.7
EGP60-1020V-3F□-A	3F	150	4~6	400	–60	1400	743	3
EGP60-1120V-3F□-A	3F	165	4~6	400	–60	1400	817	3.2
EGP60-1220V-3F□-A	3F	180	4~6	400	–60	1400	892	3.4
EGP60-1320V-3F□-A	3F	195	4~6	400	–60	1400	966	3.7
EGP60-1420V-3F□-A	3F	210	4~6?	400	–60	1400	1140	3.9
EGP60-1520V-3F□-A	3F	225	4~6	400	–60	1400	1114	4.1
EGP60-320V-5F□-A	5F	73	4~6	200	–60	700	220	1.4
EGP60-420V-5F□-A	5F	98	4~6	200	–60	700	296	1.6
EGP60-520V-5F□-A	5F	123	4~6	200	–60	700	371	1.8
EGP60-620V-5F□-A	5F	148	4~6	200	–60	700	446	2
EGP60-720V-5F□-A	5F	173	4~6	200	–60	700	522	2.3
EGP60-820V-5F□-A	5F	198	4~6	400	–60	1400	597	2.5
EGP60-920V-5F□-A	5F	223	4~6	400	–60	1400	673	2.7
EGP60-1020V-5F□-A	5F	248	4~6	400	–60	1400	748	3
EGP60-1120V-5F□-A	5F	273	4~6	400	–60	1400	823	3.2
EGP60-1220V-5F□-A	5F	298	4~6	400	–60	1400	899	3.4
EGP60-1320V-5F□-A	5F	323	4~6	400	–60	1400	974	3.7
EGP60-1420V-5F□-A	5F	348	4~6	400	–60	1400	1050	3.9
EGP60-1520V-5F□-A	5F	373	4~6	400	–60	1400	1125	4.1

Main Dimension

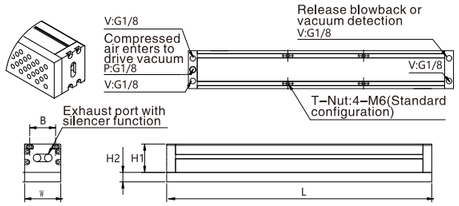
Dimension：[mm]

Model	B	H1	H2(□□)			W	L
EGP60-320V-3F□-A	44	45	10	15	20	60	320
EGP60-420V-3F□-A	44	45	10	15	20	60	420
EGP60-520V-3F□-A	44	45	10	15	20	60	520
EGP60-620V-3F□-A	44	45	10	15	20	60	620
EGP60-720V-3F□-A	44	45	10	15	20	60	720
EGP60-820V-3F□-A	44	45	10	15	20	60	820
EGP60-920V-3F□-A	44	45	10	15	20	60	920
EGP60-1020V-3F□-A	44	45	10	15	20	60	1020
EGP60-1120V-3F□-A	44	45	10	15	20	60	1120
EGP60-1220V-3F□-A	44	45	10	15	20	60	1220
EGP60-1320V-3F□-A	44	45	10	15	20	60	1320
EGP60-1420V-3F□-A	44	45	10	15	20	60	1420
EGP60-1520V-3F□-A	44	45	10	15	20	60	1520



Dimension：[mm]

Model	B	H1	H2(□□)			W	L
EGP60-320V-5F□-A	44	45	10	15	20	60	320
EGP60-420V-5F□-A	44	45	10	15	20	60	420
EGP60-520V-5F□-A	44	45	10	15	20	60	520
EGP60-620V-5F□-A	44	45	10	15	20	60	620
EGP60-720V-5F□-A	44	45	10	15	20	60	720
EGP60-820V-5F□-A	44	45	10	15	20	60	820
EGP60-920V-5F□-A	44	45	10	15	20	60	920
EGP60-1020V-5F□-A	44	45	10	15	20	60	1020
EGP60-1120V-5F□-A	44	45	10	15	20	60	1120
EGP60-1220V-5F□-A	44	45	10	15	20	60	1220
EGP60-1320V-5F□-A	44	45	10	15	20	60	1320
EGP60-1420V-5F□-A	44	45	10	15	20	60	1420
EGP60-1520V-5F□-A	44	45	10	15	20	60	1520



EGP60-F-E

Sponge Gripper(External Vacuum Source)



Product Features

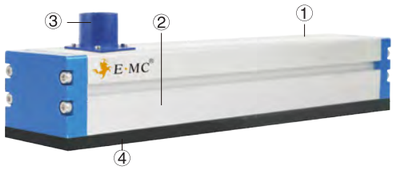
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps).
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	Vacuum Source
EGP: Vacuum gripper	60:60mm		320:320mm 420:420mm 520:520mm 620:620mm 720:720mm 820:820mm 920:920mm 1020:1020mm 1120:1120mm 1220:1220mm 1320:1320mm 1420:1420mm 1520:1520mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows round hole 5F:Five round oval hole 1F:Two rows oval hole 2F:Two rows oval hole 4F:Two rows round hole	10:10mm 15:15mm 20:20mm 30:30mm 5F5:5mmWith filter function 10F10:10mmWith filter function 15F15:15mmWith filter function M:Traceless type		E：Connection interface for external vacuum generator

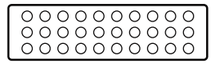
Order Example EGP series vacuum gripper, gripper width 60mm, gripper length 520mm, self–closing valve, three rows round hole,gasket thickness 15mm, external vacuum generator.EPR code is:EGP60–520V–3F15–E

Product Structure

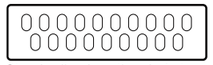


① Gripper body: the material is reinforced aluminum alloy
② Built–in valve body technology optional: self–closing valve, flow valve, high–speed valve
③ Connecting port for external vacuum generator
④ Suction–hole type optional: universal type, customized type

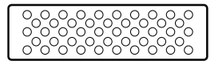
Suction-hole Type



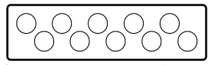
Standardized suction–hole type
Type:3F
Universal type



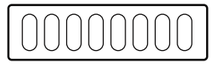
Standardized suction–hole type
Type:2F
Customized type



Standardized suction–hole type
Type:5F
Universal type



Standardized suction–hole type
Type:4F
Customized type



Standardized suction–hole type
Type:1F
Customized type

EGP60-F-E Vacuum Gripper(External Vacuum Source)

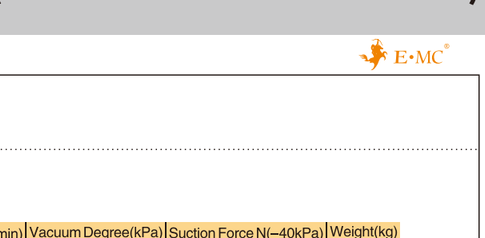
Performance Parameter

Model	Suction–hole Type	Hole number	Required Pumping Volume(min)	Vacuum Degree(kPa)	Suction Force N(–40kPa)	Weight(kg)
EGP60-320V-3F□-E	3F	45	150	–40	162	1
EGP60-420V-3F□-E	3F	60	300	–40	216	1.2
EGP60-520V-3F□-E	3F	75	390	–40	270	1.4
EGP60-620V-3F□-E	3F	90	450	–40	324	1.7
EGP60-720V-3F□-E	3F	105	510	–40	378	1.9
EGP60-820V-3F□-E	3F	120	510	–40	432	2.1
EGP60-920V-3F□-E	3F	135	600	–40	486	2.4
EGP60-1020V-3F□-E	3F	150	750	–40	540	2.6
EGP60-1120V-3F□-E	3F	165	900	–40	594	2.8
EGP60-1220V-3F□-E	3F	180	900	–40	648	3.1
EGP60-1320V-3F□-E	3F	195	900	–40	702	3.3
EGP60-1420V-3F□-E	3F	210	1050	–40	756	3.5
EGP60-1520V-3F□-E	3F	225	1250	–40	811	3.7
EGP60-320V-5F□-E	5F	73	150	–40	147	1
EGP60-420V-5F□-E	5F	98	300	–40	197	1.2
EGP60-520V-5F□-E	5F	123	390	–40	247	1.4
EGP60-620V-5F□-E	5F	148	450	–40	298	1.7
EGP60-720V-5F□-E	5F	173	510	–40	348	1.9
EGP60-820V-5F□-E	5F	198	510	–40	398	2.1
EGP60-920V-5F□-E	5F	223	600	–40	448	2.4
EGP60-1020V-5F□-E	5F	248	750	–40	499	2.6
EGP60-1120V-5F□-E	5F	273	900	–40	549	2.8
EGP60-1220V-5F□-E	5F	298	900	–40	599	3.1
EGP60-1320V-5F□-E	5F	323	900	–40	649	3.3
EGP60-1420V-5F□-E	5F	348	1050	–40	700	3.5
EGP60-1520V-5F□-E	5F	373	1250	–40	750	3.7

Main Dimension

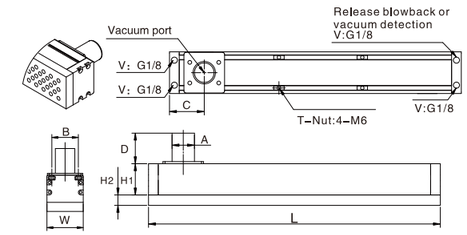
Dimension：[mm]

Model	A	B	C	D	H1	H2(□□)			W	L
EGP60-320V-3F□-E	60(32)	44	50	44	45	10	15	20	60	320
EGP60-420V-3F□-E	60(32)	44	50	44	45	10	15	20	60	420
EGP60-520V-3F□-E	60(32)	44	50	44	45	10	15	20	60	520
EGP60-620V-3F□-E	60(32)	44	50	44	45	10	15	20	60	620
EGP60-720V-3F□-E	60(32)	44	50	44	45	10	15	20	60	720
EGP60-820V-3F□-E	60(32)	44	50	44	45	10	15	20	60	820
EGP60-920V-3F□-E	60(32)	44	50	44	45	10	15	20	60	920
EGP60-1020V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1020
EGP60-1120V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1120
EGP60-1220V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1220
EGP60-1320V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1320
EGP60-1420V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1420
EGP60-1520V-3F□-E	60(32)	44	50	44	45	10	15	20	60	1520



Dimension：[mm]

Model	A	B	C	D	H1	H2(□□)			W	L
EGP60-320V-5F□-E	60(32)	44	50	44	45	10	15	20	60	320
EGP60-420V-5F□-E	60(32)	44	50	44	45	10	15	20	60	420
EGP60-520V-5F□-E	60(32)	44	50	44	45	10	15	20	60	520
EGP60-620V-5F□-E	60(32)	44	50	44	45	10	15	20	60	620
EGP60-720V-5F□-E	60(32)	44	50	44	45	10	15	20	60	720
EGP60-820V-5F□-E	60(32)	44	50	44	45	10	15	20	60	820
EGP60-920V-5F□-E	60(32)	44	50	44	45	10	15	20	60	920
EGP60-1020V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1020
EGP60-1120V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1120
EGP60-1220V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1220
EGP60-1320V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1320
EGP60.1420V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1420
EGP60-1520V-5F□-E	60(32)	44	50	44	45	10	15	20	60	1520



EGP60-FOAM

Sponge Gasket Accessory



Product Features

- Sponge gasket comes with self–adhesive.
- Acheieve fast and easy replacement.
- No adhesive residue after replacement, no need to clean up the board.
- Compresses and rebounds quickly for short beat work.
- Filter function can be added under harsh dusty working conditions.

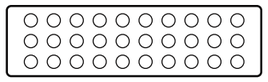
How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	□
EGP: Vacuum gripper	60:60mm		320:320mm 1020:1020mm 420:420mm 1120:1120mm 520:520mm 1220:1220mm 620:620mm 1320:1320mm 720:720mm 1420:1420mm 820:820mm 1520:1520mm 920:920mm	V:Self–closing valve L:Flow valve S:High–speed valve		3F:Three rows round hole 5F:Five round oval hole 1F:Two rows oval hole 2F:Two rows oval hole 4F:Two rows round hole	10:10mm 15:15mm 20:20mm 30:30mm 5F5:With filter function 10F10:With filter function 15F15:With filter function M:Traceless type		FOAM: Sponge Gasket Accessory

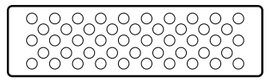
Order Example: EGP series vacuum gripper, gripper width 60mm, gripper length 520mm, self–closing valve, three rows oval hole, gasket thickness 15mm, sponge gasket accessory EPR code is:EGP60–520V–3F15–FOAM

Note: Sponge is a consumable in this product, please replace it in time according to the actual working conditions, otherwise it will affect the adsorption effect of the product, use temperature: –10–80° C, do not touch strong acid, strong alkali and other corrosive gases or liquids; do not touch sharp objects

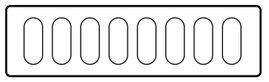
Suction-hole Type



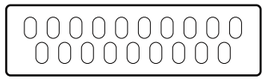
Standardized suction–hole type
Type:3F
Universal type



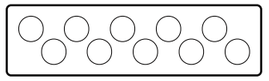
Standardized suction–hole type
Type:5F
Universal type



Standardized suction–hole type
Type:1F
Customized type



Standardized suction–hole type
Type:2F
Customized type



Standardized suction–hole type
Type:4F
Customized type

E•MC®

EGP60-S-A

Vacuum Gripper(Built–In Vacuum Source)



Product Features

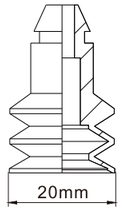
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used..
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source uses a built–in plug–in vacuum generator, lower air consumption, greater vacuum flow, shorter vacuum build–up time.
- Integrated plug–in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions.
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, engineering plastic and carbon fiber composite material, which is high strength and light weight.
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper diameter	—	Vacuum Source
EGP: Vacuum gripper	60:60mm		285:285mm 816:816mm 355:355mm 909:909mm 401:401mm 1001:1001mm 516:516mm 1117:1117mm 608:608mm 1209:1209mm 701:701mm 1301:1301mm	V:Self–closing valve L:Flow valve S:High–speed valve		3:Three rows embedded module	S20：Gripper diameter 20mm		A:Built–in vacuum generator

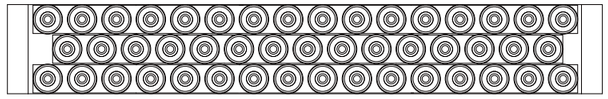
Order Example: EGP series vacuum gripper, gripper width 60mm, suction length 520mm, self–closing valve, three rows embedded module, gripper diameter 20mm, built–in vacuum generator.EPR code is:EGP60–520V–3S20–A

Gripper Accessory Series No.



Gripper Accessory Series No: 20

Gripper diameter 20mm
Gripper uses 3 rows
Suction–hole Type：3



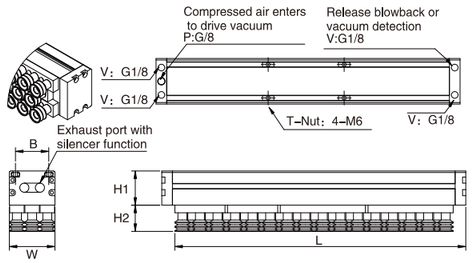
Performance Parameter

Model	Suction-hole Type	Gripper Type	Gripper Number	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(-60kPa)	Weight (kg)
EGP60-285V-3S20-A	3	S20	32	4~6	200	-60	700	167	1
EGP60-355V-3S20-A	3	S20	41	4~6	200	-60	700	214	1.5
EGP60-401V-3S20-A	3	S20	47	4~6	200	-60	700	246	1.6
EGP60-516V-3S20-A	3	S20	62	4~6	200	-60	700	324	1.9
EGP60-608V-3S20-A	3	S20	74	4~6	200	-60	700	387	2.2
EGP60-701V-3S20-A	3	S20	86	4~6	200	-60	700	449	2.4
EGP60-816V-3S20-A	3	S20	101	4~6	400	-60	1400	528	2.7
EGP60-909V-3S20-A	3	S20	113	4~6	400	-60	1400	591	2.9
EGP60-1001V-3S20-A	3	S20	125	4~6	400	-60	1400	653	3.2
EGP60-1117V-3S20-A	3	S20	140	4~6	400	-60	1400	732	3.5
EGP60-1209V-3S20-A	3	S20	152	4~6	400	-60	1400	794	3.7
EGP60-1301V-3S20-A	3	S20	164	4~6	400	-60	1400	857	3.9

Main Dimension

Dimension：[mm]

Model	B	H1	H2	W	L
EGP60-285V-3S20-A	44	45	35	60	285
EGP60-355V-3S20-A	44	45	35	60	355
EGP60-401V-3S20-A	44	45	35	60	401
EGP60-516V-3S20-A	44	45	35	60	516
EGP60-608V-3S20-A	44	45	35	60	608
EGP60-701V-3S20-A	44	45	35	60	701
EGP60-816V-3S20-A	44	45	35	60	816
EGP60-909V-3S20-A	44	45	35	60	909
EGP60-1001V-3S20-A	44	45	35	60	1001
EGP60-1117V-3S20-A	44	45	35	60	1117
EGP60-1209V-3S20-A	44	45	35	60	1209
EGP60-1301V-3S20-A	44	45	35	60	1301



EGP60-S-E

Vacuum Gripper(External Vacuum Source)



Product Features

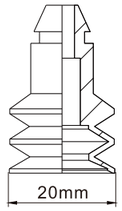
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self-closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps)
- Modular design for easy maintenance.
- The interface is reserved, and functional components can be directly added to the gripper to optimize the process, protect the environment and save energy.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T-type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper Diameter	—	Vacuum Source
EGP: Vacuum gripper	60:60mm		285:285mm 355:355mm 401:401mm 516:516mm 608:608mm 701:701mm 816:816mm 909:909mm 1001:1001mm 1117:1117mm 1209:1209mm 1301:1301mm	V:Self-closing valve L:Flow valve S:High-speed valve		3:Three rows embedded module	S20：Gripper diameter 20mm		E：Connection interface for external vacuum generator

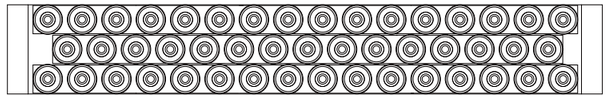
Order Example EGP series vacuum gripper, gripper width 60mm, gripper length 520mm, self-closing valve, three rows embedded module, gripper diameter 20mm, external vacuum generator. EPR code is:EGP60-520V-3S20-E

Gripper Accessory Series No.



Gripper Accessory Series No: 20

Gripper diameter 20mm
Gripper uses 3 rows
Suction-hole Type：3



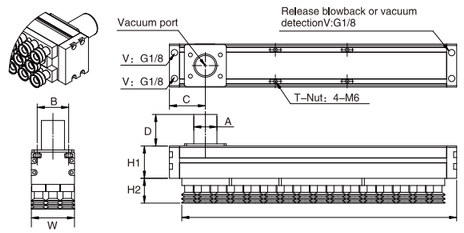
Performance Parameter

Model	Suction–hole Type	Gripper Type	Gripper Number	Required Pumping Volume (L/min)	Vacuum Degree (kPa)	Suction Force N(–40kPa)	Weight (kg)
EGP60–285V–3520–E	3	S20	41	160	–40	167	1
EGP60–355V–3S20–E	3	S20	47	200	–40	214	1.1
EGP60–401V–3S20–E	3	S20	56	220	–40	246	1.3
EGP60–516V–3S20–E	3	S20	62	300	–40	324	1.6
EGP60–608V–3S20–E	3	S20	74	340	–40	387	1.8
EGP60–701V–3S20–E	3	S20	86	400	–40	449	2
EGP60–816V–3S20–E	3	S20	101	460	–40	528	2.3
EGP60–909V–3S20–E	3	S20	113	520	–40	591	2.6
EGP60–1001V–3S20–E	3	S20	125	600	–40	653	2.8
EGP60–1117V–3S20–E	3	S20	140	650	–40	732	3.1
EGP60–1209V–3S20–E	3	S20	152	700	–40	794	3.3
EGP60–1301V–3S20–E	3	S20	164	750	–40	857	3.6

Main Dimension

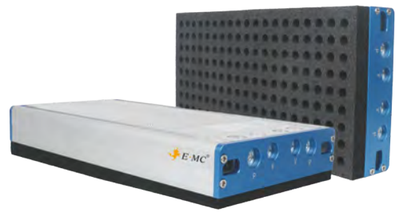
Dimension：[mm]

Model	A	B	C	D	H1	H2	W	L
EGP60-285V-3520-E	60(32)	44	50	44	45	35	60	285
EGP60-355V-3S20-E	60(32)	44	50	44	45	35	60	355
EGP60-401V-3S20-E	60(32)	44	50	44	45	35	60	401
EGP60-516V-3S20-E	60(32)	44	50	44	45	35	60	516
EGP60-608V-3S20-E	60(32)	44	50	44	45	35	60	608
EGP60-701V-3S20-E	60(32)	44	50	44	45	35	60	701
EGP60-816V-3S20-E	60(32)	44	50	44	45	35	60	816
EGP60-909V-3S20-E	60(32)	44	50	44	45	35	60	909
EGP60-1001V-3S20-E	60(32)	44	50	44	45	35	60	1001
EGP60-1117V-3S20-E	60(32)	44	50	44	45	35	60	1117
EGP60-1209V-3S20-E	60(32)	44	50	44	45	35	60	1209
EGP60-1301V-3S20-E	60(32)	44	50	44	45	35	60	1301



EGP200-F-A

Sponge Gripper(Built–In Vacuum Source)



Product Features

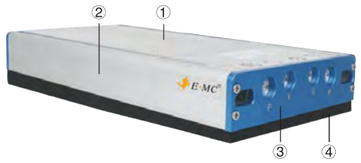
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self-closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- The vacuum source uses a built-in plug-in vacuum generator, lower air consumption, greater vacuum flow, and shorter vacuum build-up time.
- Integrated plug-in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions.
- Modular design for easy maintenance.
- The interface is reserved, and functional components can be directly added to the gripper, the process has been optimized, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T-type removable mounting slider，available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	Vacuum Source
EGP: Vacuum gripper	200:200mm		300:300mm 800:800mm 400:400mm 900:900mm 500:500mm 1000:1000mm 600:600mm 1100:1100mm 700:700mm 1200:1200mm	V:Self–closing valve L:Flow valve S:High–speed valve		P20 P30	10:10 15:15 20:20 30:30 10F10:With filter function 15F15:With filter function M:Traceless type		A:Built–in vacuum generator

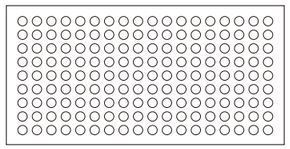
Order Example: EGP series vacuum gripper, gripper width 200mm, gripper length 100mm, self–closing valve, suctioin–hole type P20,gasket thickness 20mm, built–in vacuum source accessory.EPR code is:EGP200–1000V–P2020–A

Product Structure

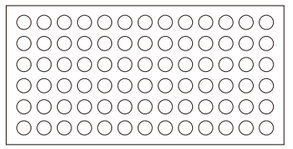


①Gripper body: material is reinforced aluminum alloy
②Built–in valve technology is optional: Self–closing valve; Flow valve; High–speed valve
③Built–in vacuum gnerator：low consumption and energy efficient multi–stage injection technology
④Suction–hole Type is optional: universal type,customised type

Suction-hole Type



EGP200 standardised suction–hole type
Type：P20
Universal type



EGP200 standardised suction–hole type
Type：P30
Universal type

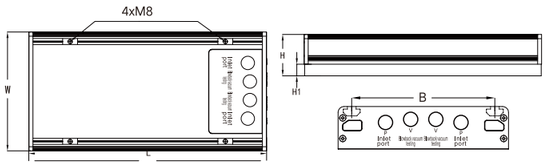
Performance Parameter

Model	Suction–hole Type	Supply Gas Pressure (MPa)	Hole number	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–65kPa)	Weight (kg)
EGP200-300V-P20□-A	P20	0.4~0.6	171	300	–65	1050	966	3.2
EGP200-400V-P20□-A	P20	0.4~0.6	216	300	–65	1050	1221	3.8
EGP200-500V-P20□-A	P20	0.4~0.6	261	400	–65	1400	1475	4.4
EGP200-600V-P20□-A	P20	0.4~0.6	306	400	–65	1400	1730	5
EGP200-700V-P20□-A	P20	0.4~0.6	351	400	–65	1400	1984	5.6
EGP200-800V-P20□-A	P20	0.4~0.6	396	500	–65	1750	2238	6.2
EGP200-900V-P20□-A	P20	0.4~0.6	441	500	–65	1750	2493	6.8
EGP200-1000V-P20□-A	P20	0.4~0.6	486	600	–65	2100	2747	7.4
EGP200-1100V-P20□-A	P20	0.4~0.6	531	600	–65	2100	3001	8
EGP200-1200V-P20□-A	P20	0.4~0.6	576	600	–65	2100	3256	8.6
EGP200-260V-P30□-A	P30	0.4~0.6	78	200	–65	700	784	3
EGP200-410V-P30□-A	P30	0.4~0.6	108	200	–65	700	1085	3.9
EGP200-560V-P30□-A	P30	0.4~0.6	138	300	–65	1050	1387	4.8
kEGP200-710V-P30□-A	P30	0.4~0.6	168	300	–65	1050	1688	5.6
EGP200-860V-P30□-A	P30	0.4~0.6	198	400	–65	1400	1990	6.5
EGP200-1010V-P30□-A	P30	0.4~0.6	228	400	–65	1400	2291	7.4
EGP200-1160V-P30□-A	P30	0.4~0.6	258	400	–65	1400	2592	8.3

Main Dimension

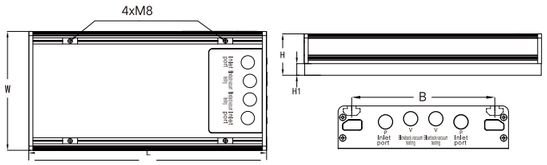
Dimension[mm]

Model	B	L	W	H	H1		
EGP200-300V-P20□-A	168	300	200	70	10	20	30
EGP200-400V-P20□-A	168	400	200	70	10	20	30
EGP200-500V-P20□-A	168	500	200	70	10	20	30
EGP200-600V-P20□-A	168	600	200	70	10	20	30
EGP200-700V-P20□-A	168	700	200	70	10	20	30
EGP200-800V-P20□-A	168	800	200	70	10	20	30
EGP200-900V-P20□-A	168	900	200	70	10	20	30
EGP200-1000V-P20□-A	168	1000	200	70	10	20	30
EGP200-1100V-P20□-A	168	1100	200	70	10	20	30
EGP200-1200V-P20□-A	168	1200	200	70	10	20	30



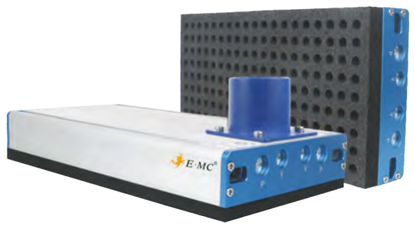
Dimension[mm]

Model	B	L	W	H	H1		
EGP200-260V-P30□-A	168	260	200	70	10	20	30
EGP200-410V-P30□-A	168	410	200	70	10	20	30
EGP200-560V-P30□-A	168	560	200	70	10	20	30
EGP200-710V-P30□-A	168	710	200	70	10	20	30
EGP200-860V-P30□-A	168	860	200	70	10	20	30
EGP200-1010V-P30□-A	168	1010	200	70	10	20	30
EGP200-1160V-P30□-A	168	1160	200	70	10	20	30



EGP200-F-E

Sponge Gripper(External Vacuum Source)



Product Features

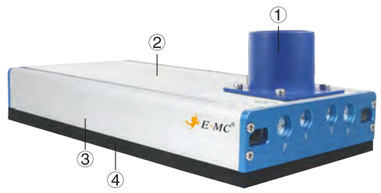
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self–closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps).
- Modular design for easy maintenance.
- The interface is reserved, functional components can be directly added to the gripper, optimize the process, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T–type removable mounting slider， available for fixing grippers as well as for mounting or mounting sensors.
- Rubber gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	Vacuum Source
EGP: Vacuum gripper	200:200mm		300:300mm 800:800mm 400:400mm 900:900mm 500:500mm 1000:1000mm 600:600mm 1100:1100mm 700:700mm 1200:1200mm	V:Self–closing valve L:Flow valve S:High–speed valve		P20 P30	10:10 15:15 20:20 30:30 10F10:With filter function 15F15:With filter function M:Traceless type		E:Connection interface for external vacuum generator

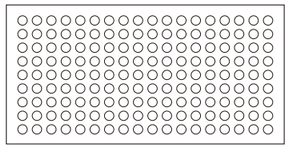
Order Example: EGP series vacuum gripper, gripper width 200mm, gripper length 100mm, self–closing valve, suctioin–hole type P20,gasket thickness 20mm, connection interface for external vacuum generator.EPR code is:EGP200–1000V–P2020–E

Product Structure

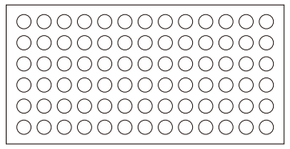


① Connection port for external vacuum generator.
② Gripper body: The material is made of reinforced aluminum alloy.
③ Built–in valve technology is optional: Self–closing valve Flow valve High–speed valve.
④ Suction–hole Type is optional: universal type,customised type.

Suction-hole Type



EGP200 standardised suction–hole type
Type：P20
Universal type



EGP200 standardised suction–hole type
Type：P30
Universal type

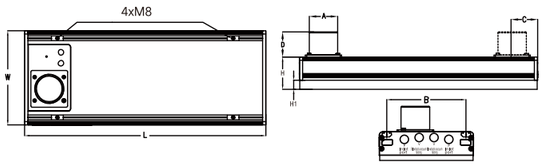
Performance Parameter

Model	Suction–hole Type	Supply Gas Pressure (MPa)	Hole Number	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–65kPa)	Weight (kg)
EGP200-300V-P20□-E	P20	0.4~0.6	126	300	–40	1050	712	3.2
EGP200-400V-P20□-E	P20	0.4~0.6	171	300	–40	1050	966	3.8
EGP200-500V-P20□-E	P20	0.4~0.6	216	400	–40	1400	1221	4.4
EGP200-600V-P20□-E	P20	0.4~0.6	261	400	–40	1400	1475	5
EGP200-700V-P20□-E	P20	0.4~0.6	306	400	–40	1400	1730	5.6
EGP200-800V-P20□-E	P20	0.4~0.6	351	500	–40	1750	1984	6.2
EGP200-900V-P20□-E	P20	0.4~0.6	396	500	–40	1750	2238	6.8
EGP200-1000V-P20□-E	P20	0.4~0.6	441	600	–40	2100	2493	7.4
EGP200-1100V-P20□-E	P20	0.4~0.6	486	600	–40	2100	2747	8
EGP200-1200V-P20□-E	P20	0.4~0.6	531	600	–40	2100	3001	8.6
EGP200-260V-P30□-E	P30	0.4~0.6	48	200	–40	700	482	3
EGP200-410V-P30□-E	P30	0.4~0.6	78	200	–40	700	784	3.9
EGP200-560V-P30□-E	P30	0.4~0.6	108	300	–40	1050	1085	4.8
EGP200-710V-P30□-E	P30	0.4~0.6	138	300	–40	1050	1387	5.6
EGP200-860V-P30□-E	P30	0.4~0.6	168	400	–40	1400	1688	6.5
EGP200-1010V-P30□-E	P30	0.4~0.6	198	400	–40	1400	1990	7.4
EGP200-1160V-P30□-E	P30	0.4~0.6	228	400	–40	1400	2291	8.3

Main Dimension

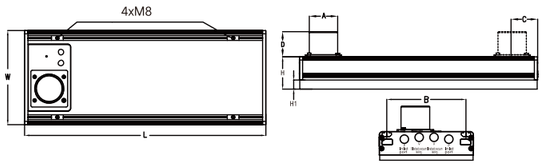
Dimension[mm]

Model	A	B	C	D	L	W	H	H1	
EGP200-300V-P20□-E	60 (32)	168	69	54	300	200	70	10	20	30
EGP200-400V-P20□-E	60(32)	168	69	54	400	200	70	10	20	30
EGP200-500V-P20□-E	60 (32)	168	69	54	500	200	70	10	20	30
EGP200-600V-P20□-E	60 (32)	168	69	54	600	200	70	10	20	30
EGP200-700V-P20□-E	60(32)	168	69	54	700	200	70	10	20	30
EGP200-800V-P20□-E	60 (32)	168	69	54	800	200	70	10	20	30
EGP200-900V-P20□-E	60 (32)	168	69	54	900	200	70	10	20	30
EGP200-1000V-P20□-E	60 (32)	168	69	54	1000	200	70	10	20	30
EGP200-1100V-P20□-E	60 (32)	168	69	54	1100	200	70	10	20	30
EGP200-1200V-P20□-E	60 (32)	168	69	54	1200	200	70	10	20	30



Dimension[mm]

Model	A	B	C	D	L	W	H	H1	
EGP200-260V-P30□-E	60 (32)	168	69	54	260	200	70	10	20	30
EGP200-410V-P30□-E	60(32)	168	69	54	410	200	70	10	20	30
EGP200-560V-P30□-E	60 (32)	168	69	54	560	200	70	10	20	30
EGP200-710V-P30□-E	60 (32)	168	69	54	710	200	70	10	20	30
EGP200-860V-P30□-E	60(32)	168	69	54	860	200	70	10	20	30
EGP200-1010V-P30□-E	60 (32)	168	69	54	1010	200	70	10	20	30
EGP200-1160V-P30□-E	60 (32)	168	69	54	1160	200	70	10	20	30



E•MC®

EGP200-FOAM

Sponge Gasket Accessory



Product Features

- Sponge gasket comes with self-adhesive.
- Acheieve fast and easy replacement.
- No adhesive residue after replacement, no need to clean up the board.
- Compresses and rebounds quickly for short beat work.
- Filter function can be added under harsh dusty working conditions.

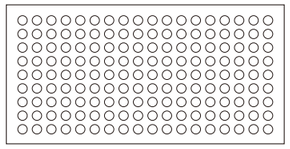
How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gasket Thickness Type	—	□
EGP: Vacuum gripper	200:200mm		300:300mm 400:400mm 500:500mm 600:600mm 700:700mm 800:800mm 900:900mm 1000:1000mm 1100:1100mm 1200:1200mm	V:Self–closing valve L:Flow valve S:High–speed valve		P20 P30	10:10mm 15:15mm 20:20mm 30:30mm 10F10:With filter function 15F15:With filter function M:Traceless type		FOAM: Sponge Gasket Accessory

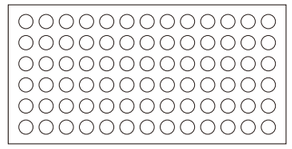
Order Example: EGP series vacuum gripper, gripper width 200mm, gripper length 1000mm, self–closing valve, suctioin–hole type P20, gasket thickness 15mm, sponge gasket accessory. EPR code is:EGP200–1000V–P2015–FOAM

Note: Sponge is a consumable in this product, please replace it in time according to the actual working conditions, otherwise it will affect the adsorption effect of the product, use temperature: –10–80° C, do not touch strong acid, strong alkali and other corrosive gases or liquids; do not touch sharp objects.

Suction-hole Type



EGP200 standardised suction–hole type
Type：P20
Universal type



EGP200 standardised suction–hole type
Type：P30
Universal type

EGP200-S-A

Vacuum Gripper(Built–In Vacuum Source)



Product Features

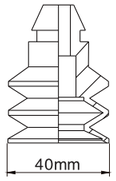
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self-closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- The vacuum source uses a built-in plug-in vacuum generator, lower air consumption, greater vacuum flow, and shorter vacuum build-up time.
- Integrated plug-in vacuum generating device, which can be individually configured and quickly disassembled according to changing working conditions.
- Modular design for easy maintenance.
- The interface is reserved, and functional components can be directly added to the gripper, the process has been optimized, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T-type removable mounting slider，available for fixing grippers as well as for mounting or mounting sensors.
- Rubber sealing gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper Diameter Type	—	Vacuum Source
EGP: Vacuum gripper	200:200mm		273:273mm 458:458mm 550:550mm 643:643mm 735:735mm 828:828mm 920:920mm 1012:1012mm 1243:1243mm 1428:1428mm	V:Self–closing valve L:Flow valve S:High–speed valve		5：Five rows embedded module 9：Nine rows embedded module	S40：Gripper diameter 40 S20：Gripper diameter 20		A：Built–in vacuum generator

Order Example: EGP series vacuum gripper, gripper width 200mm, gripper length 400mm, self–closing valve, five rows embedded module, gripper diameter 40mm, built–in vacuum generator.EPR code is:EGP200–4000V–5S40–A

Gripper Accessory Series No.

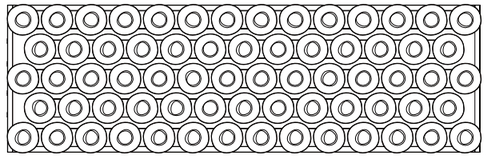


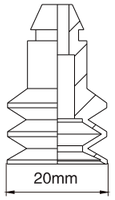
Gripper Accessory Series No: S40

Gripper diameter 40MM

Gripper uses 5 rows

Suction–hole Type:5



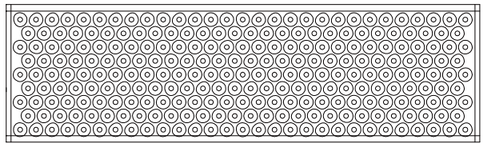


Gripper Accessory Series No: S20

Gripper diameter 20MM

Gripper uses 9 rows

Suction–hole Type:9



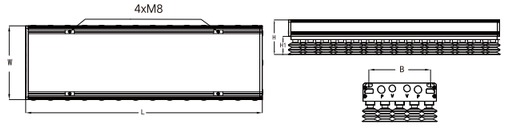
Performance Parameter

Model	Suction–hole Type	Gripper Type	Supply Gas Pressure(MPa)	Gripper Number	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGP200–273V–5S40–A	5	S40	0.4~0.6	28	100	–60	350	418	3.3
EGP200–458V–5S40–A	5	S40	0.4~0.6	48	300	–60	1050	716	4.4
EGP200–550V–5S40–A	5	S40	0.4~0.6	58	400	–60	1400	866	5
EGP200–643V–5S40–A	5	S40	0.4~0.6	68	400	–60	1400	1015	5.5
EGP200–735V–5S40–A	5	S40	0.4~0.6	78	400	–60	1400	1164	6.1
EGP200–828V–5S40–A	5	S40	0.4~0.6	88	400	–60	1400	1313	6.7
EGP200–920V–5S40–A	5	S40	0.4~0.6	98	500	–60	1750	1462	7.2
EGP200–1012V–5S40–A	5	S40	0.4~0.6	108	S00	–60	1750	1612	7.7
EGP200–1243V–5S40–A	5	S40	0.4~0.6	133	600	–60	2100	1985	9.1
EGP200–1428V–5S40–A	5	S40	0.4~0.6	153	600	–60	2100	2283	10.2
EGP200–273V–9S20–A	9	S20	0.4~0.6	95	200	–60	700	475	3.3
EGP200–458V–9S20–A	9	S20	0.4~0.6	167	300	–60	1050	835	4.4
EGP200–550V–9S20–A	9	S20	0.4~0.6	203	400	–60	1400	1015	5
EGP200–643V–9S20–A	9	S20	0.4~0.6	239	400	–60	1400	1195	5.5
EGP200–735V–9S20–A	9	S20	0.4~0.6	275	500	–60	1750	1375	6.1
EGP200–828V–9S20–A	9	S20	0.4~0.6	311	600	–60	2100	1555	6.7
EGP200–920V–9S20–A	9	S20	0.4~0.6	347	600	–60	2100	1735	7.2
EGP200–1012V–9S20–A	9	S20	0.4~0.6	383	600	–60	2100	1915	7.7
EGP200–1243V–9S20–A	9	S20	0.4~0.6	473	800	–60	2800	2365	9.1
EGP200–1428V–9S20–A	9	S20	0.4~0.6	545	800	–60	2800	2725	10.2

Main Dimension

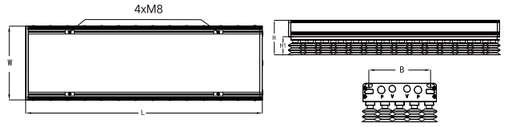
Dimension：[mm]

Model	B	L	W	H	H1
EGP200-458V-5S40-A	168	458	200	105	55
EGP200-550V-5S40-A	168	550	200	105	55
EGP200-643V-5S40-A	168	643	200	105	55
EGP200-735V-5S40-A	168	735	200	105	55
EGP200-828V-5S40-A	168	828	200	105	55
EGP200-920V-5S40-A	168	920	200	105	55
EGP200-1012V-5S40-A	168	1012	200	105	55
EGP200-1243V-5S40-A	168	1243	200	105	55
EGP200-1428V-5S40-A	168	1428	200	105	55



Dimension：[mm]

Model	B	L	W	H	H1
EGP200-273V-9S20-A	168	273	200	105	55
EGP200-458V-9S20-A	168	458	200	105	55
EGP200-550V-9S20-A	168	550	200	105	55
EGP200-643V-9S20-A	168	643	200	105	55
EGP200-735V-9S20-A	168	735	200	105	55
EGP200-828V-9S20-A	168	828	200	105	55
EGP200-920V-9S20-A	168	920	200	105	55
EGP200-1012V-9S20-A	168	1012	200	105	55
EGP200-1243V-9S20-A	168	1243	200	105	55
EGP200-1428V-9S20-A	168	1428	200	105	55



EGP200-S-E

Vacuum Gripper(External Vacuum Source)



Product Features

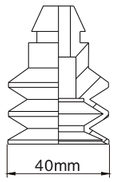
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard or customized gripper, suction of different sizes can be freely combined and used.
- Optional self-closing valve technology can solve workpieces with large vacuum leakage, uneven surface, different sizes and geometric shapes.
- Vacuum source can be connected to an external vacuum generator, suitable for using with electrically driven vacuum devices (blowers or vacuum pumps).
- Modular design for easy maintenance.
- The interface is reserved, and functional components can be directly added to the gripper, the process has been optimized, environmental protection and energy saving.
- The material is aluminum alloy, factory plastic and carbon fiber composite material, which has the characteristics of high strength and light weight.
- Easy to install,with T-type removable mounting slider，available for fixing grippers as well as for mounting or mounting sensors.
- Rubber sealing gasket accessory for quick replacement.

How to Order?

Series No.	Gripper Width	—	Gripper Length	Valve Technology	—	Suction-hole Type	Gripper Diameter Type	—	Vacuum Source
EGP: Vacuum gripper	200:200mm		273:273mm 458:458mm 550:550mm 643:643mm 735:735mm 828:828mm 920:920mm 1012:1012mm 1243:1243mm 1428:1428mm	V:Self–closing valve L:Flow valve S:High–speed valve		5：Five rows embedded module 9：Nine rows embedded module	S40：Gripper diameter 40 S20：Gripper diameter 20		E:Connection interface for external vacuum generator

Order Example EGP series vacuum gripper, gripper width 200mm, gripper length 400mm, self–closing valve, five rows embedded module, gripper diameter 40mm, connection interface for external vacuum generator. EPR code is:EGP200–4000V–5S40–E

Gripper Accessory Series No.

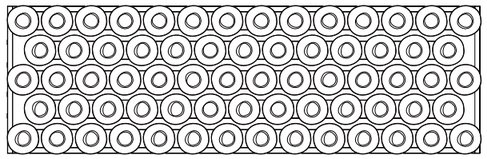


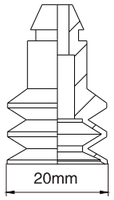
Gripper Accessory Series No: S40

Gripper diameter 40MM

Gripper uses 5 rows

Suction–hole Type:5



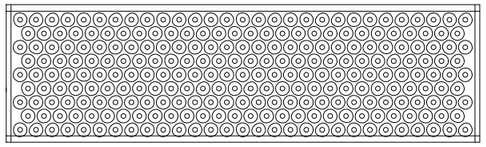


Gripper Accessory Series No: S20

Gripper diameter 20MM

Gripper uses 9 rows

Suction–hole Type:9



EGP200-S-E Vacuum Gripper(External Vacuum Source)

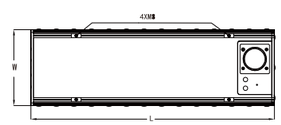
Performance Parameter

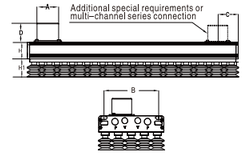
Model	Suction–hole Type	Gripper Type	Supply Gas Pressure (MPa)	Gripper Number	Gas Consumption (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGP200–273V–5S40–E	5	S40	0.4~0.6	28	100	–40	350	418	3.3
EGP200–458V–5S40–E	5	S40	0.4~0.6	48	300	–40	1050	716	4.4
EGP200–550V–5S40–E	5	S40	0.4~0.6	58	400	–40	1400	866	5
EGP200–643V–5S40–E	5	S40	0.4~0.6	68	400	–40	1400	1015	5.5
EGP200–735V–5S40–E	5	S40	0.4~0.6	78	400	–40	1400	1164	6.1
EGP200–828V–5S40–E	5	S40	0.4~0.6	88	400	–40	1400	1313	6.7
EGP200–920V–5S40–E	5	S40	0.4~0.6	98	500	–40	1750	1462	7.2
EGP200–1012V–5S40–E	5	S40	0.4~0.6	108	500	–40	1750	1612	7.7
EGP200–1243V–5S40–E	5	S40	0.4~0.6	133	600	–40	2100	1985	9.1
EGP200–1428V–5S40–E	5	S40	0.4~0.6	153	600	–40	2100	2283	10.2
EGP200–273V–9S20–E	9	S20	0.4~0.6	95	200	–40	700	475	3.3
EGP200–458V–9S20–E	9	S20	0.4~0.6	167	300	–40	1050	835	4.4
EGP200–550V–9S20–E	9	S20	0.4~0.6	203	400	–40	1400	1015	5
EGP200–643V–9S20–E	9	S20	0.4~0.6	239	400	–40	1400	1195	5.5
EGP200–735V–9S20–E	9	S20	0.4~0.6	275	500	–40	1750	1375	6.1
EGP200–828V–9S20–E	9	S20	0.4~0.6	311	600	–40	2100	1555	6.7
EGP200–920V–9S20–E	9	S20	0.4~0.6	347	600	–40	2100	1735	7.2
EGP200–1012V–9S20–E	9	S20	0.4~0.6	383	600	–40	2100	1915	7.7
EGP200–1243V–9S20–E	9	S20	0.4~0.6	473	800	–40	2800	2365	9.1
EGP200–1428V–9S20–E	9	S20	0.4~0.6	545	800	–40	2800	2725	10.2

Main Dimension

Dimension[mm]

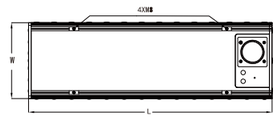
Model	A	B	C	D	L	W	H	H1
EGP200-273V-5S40-E	60 (32)	168	69	54	273	200	105	55
EGP200-458V-5S40-E	60(32)	168	69	54	458	200	105	55
EGP200-550V-5S40-E	60 (32)	168	69	54	550	200	105	55
EGP200-643V-5S40-E	60 (32)	168	69	54	643	200	105	55
EGP200-735V-5S40-E	60(32)	168	69	54	735	200	105	55
EGP200-828V-5S40-E	60 (32)	168	69	54	828	200	105	55
EGP200-920V-5S40-E	60 (32)	168	69	54	920	200	105	55
EGP200-1012V-5S40-E	60 (32)	168	69	54	1012	200	105	55
EGP200-1243V-5S40-E	60 (32)	168	69	54	1243	200	105	55
EGP200-1428V-5S40-E	60 (32)	168	69	54	1428	200	105	55

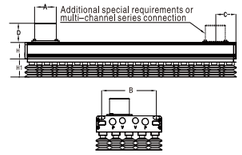




Dimension[mm]

Model	A	B	C	D	L	w	H	H1
EGP200-273V-9S20-E	60 (32)	168	69	54	273	200	105	55
EGP200-458V-9S20-E	60(32)	168	69	54	458	200	105	55
EGP200-550V-9S20-E	60 (32)	168	69	54	550	200	105	55
EGP200-643V-9S20-E	60 (32)	168	69	54	643	200	105	55
EGP200-735V-9S20-E	60(32)	168	69	54	735	200	105	55
EGP200-828V-9S20-E	60 (32)	168	69	54	828	200	105	55
EGP200-920V-9S20-E	60 (32)	168	69	54	920	200	105	55
EGP200-1012V-9S20-E	60 (32)	168	69	54	1012	200	105	55
EGP200-1243V-9S20-E	60 (32)	168	69	54	1243	200	105	55
EGP200-1428V-9S20-E	60 (32)	168	69	54	1428	200	105	55





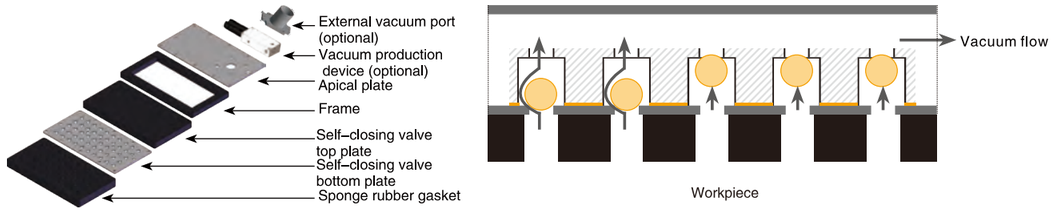
Introduction of Vacuum Gripper System

E・MC Technology can provide you with a complete vacuum handling system according to your vacuum handling project needs.Focus on technological innovation and product performance stability and optimize the overall solution to ensure the economy and efficiency of optimization services, providing a full range of services to meet your different project needs.

Through professionally trained sales engineers and R&D managers, we can provide you with various fast consultations and solutions to meet your various requirements.E・MC provides you with a complete set of standard products,and can also design special customized grippers according to the special requirements of customers.

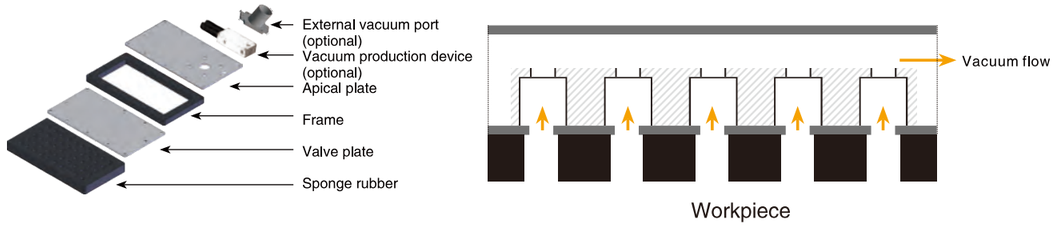
Self-Closing Valve Gripper

・Each hole has a built–in independent vacuum chamber self–closing valve (non–return valve).
・After the vacuum is established, maintain satable vacuum degree.
・The holes that do not touch the workpiece can be automatically closed to reduce vacuum leakage.
・No need for any adjustments, automatic identification of workpieces, strong compatibility.

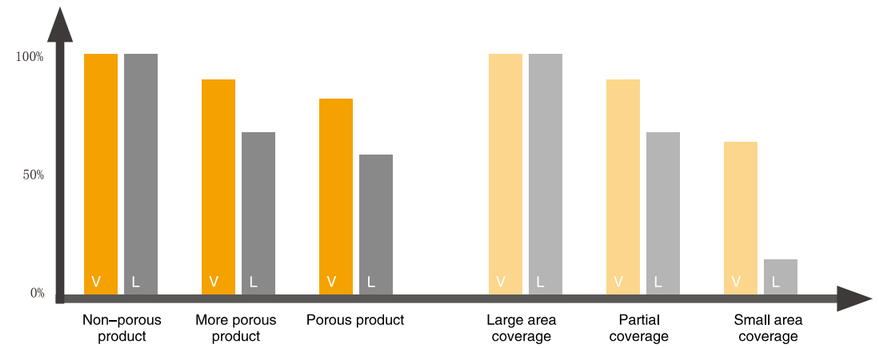


Flow Valve Gripper (L)

・Internally designed flow valves of different sizes (restrictor valves).
・Light weight, thinner body.
・Allows for higher gripping speeds and fast vacuum build–up.
・The gripper can work at any angle of 360 degrees, suitable for flipping motion.
・Lower cost process construction.

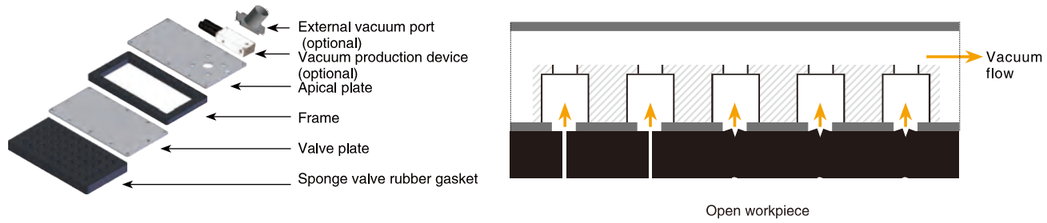


Grabbing Ability Comparison



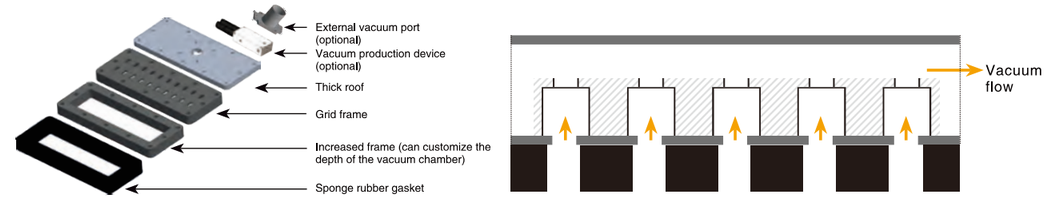
Sponge Valve Gripper (F)

・Use the sealing performance of the sponge itself to form an independent vacuum chamber self–closing valve (one–way valve).
・The holes that do not touch the workpiece can be automatically closed to reduce vacuum flow leakage.
・Suitable for open products (bottles and cans) or workpieces with large surface unevenness.



Bag Cavity Gripper (B)

・Rely on the large flow of vacuum source and the sealing performance of the vacuum gripper rubber gasket to form a vacuum.
・Handling soft bag.
・Handling shrink–wrapped products



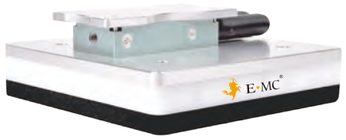
Features

・EG non–standard customized vacuum gripper system, with self–closing valve technology can automatically detect and close the position that is not in contact with the workpiece, or flow valve technology can reduce vacuum leakage and make up for vacuum with large flow pumping, so that we can use the same gripper can handle various working conditions blank readjustment or program changes.
・Suitable gaskets can be configured according to the actual situation to provide good bonding effect, long service life and strong sealing performance.
・Self–closing valve cavity structure is designed inside the gripper (hole shape, hole spacing, and hole quantity can be designed and arranged according to the working conditions to maximize compatibility.)
・Vacuum source configuration can choose high efficiency, energy saving, low consumption and large flow of multi–stage jet technology vacuum generator. Alternatively, the electric drive vacuum source can be added through the external vacuum port, and the twin turbine high–pressure air pump or vacuum pump can be selected. Increase working speed while reducing energy consumption.
・The system can be equipped with vacuum valve control, vacuum detection sensor and falling part detection sensor, mechanical heavy–duty floating flange, including installation accessories and pipe joint accessories, providing a full range of supporting services for the automation system.

Application Feature	Self–closing valve	Flow Valve
Minimize interference caused by mismatch between pipe diameter and external vacuum generating device (highly integrated)	●	
Easy to install, quick to connect	●	
Minimized system costs (input costs include vacuum generating unit, hoses and controllers)	●	
Minimized operating costs (due to the choice of electric vacuum generator), especially when several grippers are used	●	
Handling highly air–permeable workpieces	●	●

Application Characteristic	Sponge	Gripper
Rigid workpieces such as plates, sheet metal, profiles and pallets	●	●
Flexible workpieces such as cardboard boxes, bags, bags and pallets	●	●
Long and narrow workpieces and plates	●	●
The surface of the workpiece is rough and has modeling lines	●	
Full layer handling of small workpieces such as tins (open/closed), cans	●	

EGS
Vacuum Gripper



Product Features

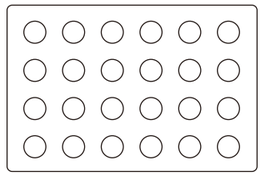
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard grippers or design of customized grippers according to actual application conditions.
- The vacuum source can be a built–in vacuum generator or an external vacuum source through the vacuum connection port.
- The gripper body is made of materials: high–strength steel, aluminum alloy, engineering plastics, and carbon fiber composite materials.
- Sponge gasket accessory for quick replacement.

How to Order?

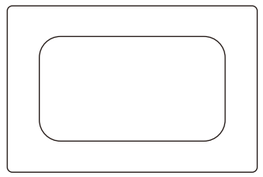
Series No.	Suction-hole Type	Gripper Width	X	Gripper Length	Valve Technology	Gasket Thickness Type	Vacuum Source
EG: Vacuum gripper	S:Standardized type B:Customized type	80:80mm 120:120mm 150:150mm 180:180mm 200:200mm 250:250mm 350:350mm		80:80mm 120:120mm 150:150mm 180:180mm 200:200mm 250:250mm 350:350mm	V:Self–closing valve L:Flow valve S:High–speed valve	10:10mm 15:15mm 20:20mm 30:30mm 10F10:With filter function 15F15:With filter function M:Traceless type	A：Built–in vacuum generator E：Connection interface for external vacuum generator

Order Example EG series vacuum gripper, standard suction–hole, gripper width 80mm, gripper length 120mm, self–closing valve, gasket thickness 15mm, connection port for external vacuum generating device.EPR code is:EGR100V15E

Suction-hole Type



EGS standardized suction–hole type
Type:S
Standardized type



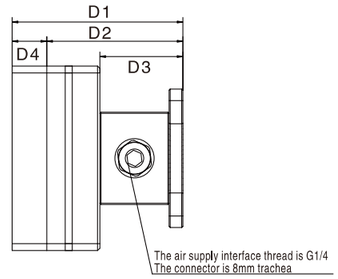
EGB standardized suction–hole type
Type:B
Customized type

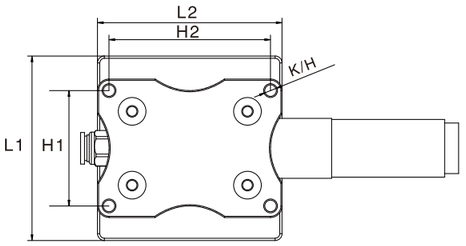
Performance Parameter

Model	Suction–hole Type	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Maximum Vacuum Degree(kPa)	Maximum Vacuum Flow(L/min)	Suction Force N(–60kPa)	Weight (kg)
EGS80–80	S	4~5	100	60	200	83	0.6
EGS80–120	S	4~5	100	60	200	113	0.7
EGS80–160	S	4~5	100	60	200	151	0.8
EGS120–180	S	4~5	100	60	350	170	1
EGS120–120	S	4~5	200	60	700	271	1.2
EGS120–200	S	4~5	200	60	700	305	1.7
EGS120–280	S	4~5	200	60	700	441	1.9
EGS200–200	S	4~5	300	60	1050	S50	2.3
EGS120x70	S	4~5	100	40	350	144	0.6
EGS150x100	S	4~5	100	40	350	264	0.8
EGS200X120	S	4~5	100	40	350	336	1.2
EGS250x250	S	4~5	200	40	700	1156	3.3
EGS350x200	S	4~5	200	40	700	1296	3.6

EGS Series Vacuum Gripper

Main Dimension





Dimension：[mm]

Model	L1	L2	D1	D2	D3	D4			H2	H1	H	J	K
EGS80-80	80	80	156	59	23	10	15	20	70	50	6	60	M6
EGS80-120	80	120	176	59	23	10	15	20	70	50	6	60	M6
EGS80-160	80	160	196	59	23	10	15	20	70	50	6	60	M6
EGS120-180	120	120	176	59	23	10	15	20	70	50	6	60	M6
EGS120-120	120	180	206	59	23	10	15	20	70	50	6	60	M6
EGS120-200	120	200	254	61	23	10	15	20	154	74	8	90	M8
EGS120-280	120	280	294	61	23	10	15	20	154	74	8	90	M8
EGS200-200	200	200	254	61	23	10	15	20	154	74	8	90	M8
EGS120x70	70	120	245	69.5	25	15	20	25	22	22	8	33	M6
EGS150x100	100	150	260	69.5	25	15	20	25	22	22	8	33	M6
EGS200x120	200	120	245	69.5	25	15	20	25	22	22	8	33	M6
EGS250x250	250	250	279	73	35	15	20	25	154	74	8	90	M8
EGS350x200	200	350	329	76	35	15	20	25	154	74	8	90	M8

EGR
Vacuum Gripper



Product Features

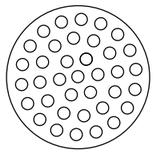
- Suitable for different industry products grabing, meet various specifications.
- Flexible selection of standard grippers or design of customized grippers according to actual application conditions.
- Vacuum source can be a built-in vacuum generator or an external vacuum source through the vacuum connection port.
- Gripper body is made of materials: high-strength steel, aluminum alloy, engineering plastics, and carbon fiber composite materials. Sponge gasket accessory for quick replacement.

How to Order?

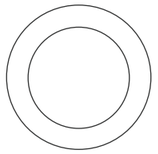
Series No.	Suction-hole Type	Gripper Diameter	Valve Technology	Gasket Thickness Type	Vacuum Source
EG: Vacuum gripper	R:Standardized type B:Customized type	100:100mm 150:150mm 180:180mm 200:200mm	V:Self–closing valve L:Flow valve S:High–speed valve	10:10mm 15:15mm 20:20mm 30:30mm 10F10:With filter function 15F15:With filter function M:Traceless type	A：Built–in vacuum generator E：Connection interface for external vacuum generator

Order Example EG series vacuum gripper, standard suction–hole, gripper diameter 100mm, self–closing valve, gasket thickness 15mm, connection port for external vacuum generating device. EPR code is:EGR100V15E

Suction-hole Type



EGR standardized suction–hole type
Type:R
Standardized type

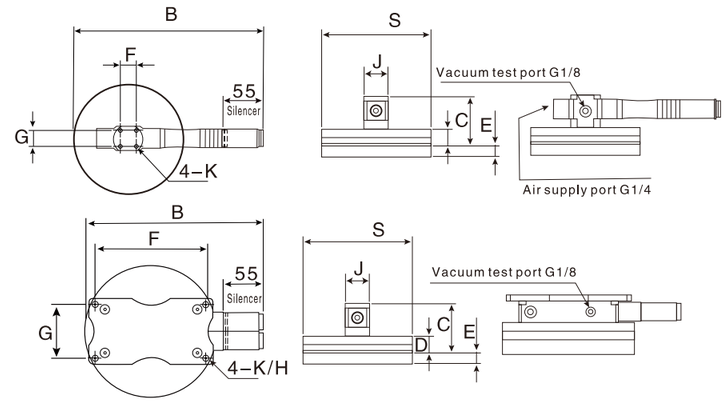


EGR standardized suction–hole type
Type:B
Customized type

Performance Parameter

Model	Suction–hole Type	Supply Gas Pressure(Bar)	Required Pumping Volume (L/min)	Vacuum Degree (kPa)	Vacuum Flow (L/min)	Suction Force N(–60kPa)	Weight (kg)
EGR100	R	4~5	100	60	350	129	0.6
EGR150	R	4~5	100	60	350	251	0.9
EGR180	R	4~5	200	60	700	414	1.7
EGR200	R	4~5	200	60	700	414	1.9
EGR100	R	4~5	100	40	350	113	0.6
EGR150	R	4~5	100	40	350	314	0.9
EGR180	R	4~5	200	40	700	531	1.6
EGR200	R	4~5	200	40	700	707	1.8

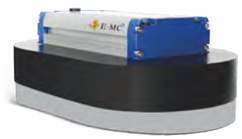
Main Dimension



Dimension：[mm]

Model	S	B	C	E			F	G	H	J	K
EGR100	100	235	67.5	10	15	20	22	22	-	33	M6
EGR150	150	260	67.5	10	15	20	22	22	-	33	M6
EGR180	180	244	61	10	15	20	154	74	8	90	M8
EGR200	200	254	61	10	15	20	154	74	8	90	M8
EGR100	100	235	74.5	15	20	25	22	22	-	33	M6
EGR150	150	260	74.5	15	20	25	22	22	-	33	M6
EGR180	180	244	68	15	20	25	154	74	8	90	M8
EGR200	254	254	68	15	20	25	154	74	8	90	M8

EGB
Vacuum Gripper



Product Features

- Adapt to bagged workpieces with different filling levels. It is aimed at the automatic handling of bags such as powder bags, feed bags, cement bags, rice bags, woven bags, kraft paper bags, plastic bags, etc.
- Vacuum source can be a built-in vacuum generator or an external vacuum source through the vacuum connection port.
- Gripper body is made of stainless steel, and the rubber gasket accessory can be quickly replaced.

How to Order?

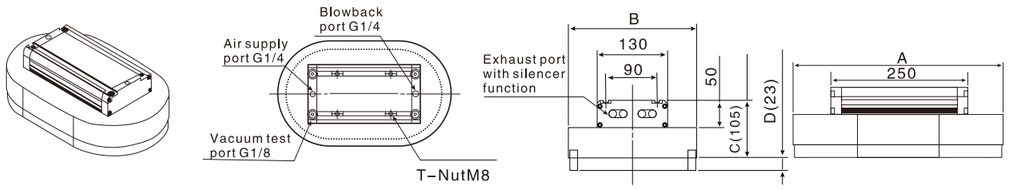
Series No.	Suction-hole Type	Gripper Length X Gripper Width		—	Vacuum Source
EGB: Vacuum gripper	E:Oval cavity	250:250mm	150:150mm		A：Built–in vacuum generator E：Connection port of the external vacuum air production device
		300:300mm	200:200mm		
		380:380mm	230:230mm		
		450:450mm	255:255mm		

Order Example EGB series vacuum gripper, oval cavity suction–hole, gripper length 250mm, gripper width 150mm, connected to the connection port of the external vacuum air production device. EPR code is:EGBE250X150–E

Performance Parameter

Model	Supply Gas Pressure(Bar)	Gas Consumption (L/min)	Maximum Vacuum Degree(kPa)	Maximum Vacuum Flow(L/min)	Maximum Vacuum Flow N(–60kPa)	Suction Force	Weight (kg)
EGBE450X255–A	5~6	400	60	1400	1020	3	8.2
EGBE380X230–A	5~6	400	60	1400	780	3	7
EGBE300X200–A	5~6	400	60	1400	480	3	5
EGBE250X150–A	5~6	400	60	1400	270	3	4

Main Dimension



Dimension：[mm]

Model	A	B
EGBE450X255-A	450	255
EGBE380X230-A	380	230
EGBE300X200-A	300	200
EGBE250X150-A	250	150

KE5



Features

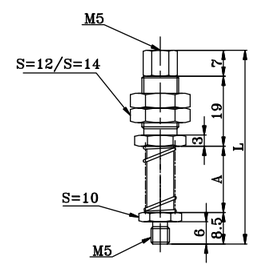
- The external damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	□	—	Guide Bush Male Thread
KE：External damping spring	5：M5	10：10mm stroke 20：20mm stroke 25：25mm stroke	Blank：Blank–standard V：Female thread		A10：M10×1

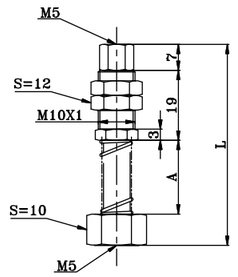
Order Example: KE series Spring Plungers, suction cup connection M5, lifting heights stroke 10mm, standard thread, guide bush male thread M10X1. Order code is: KE510–A10

Main Dimension



KE510–A10
① ②

①Lifting Heights	②Guide Bush Size	A	L
10	A10(A12)	18	52.5
20	A10(A12)	28	62.5



KE510–V–A10
①

①Lifting Heights	A	L
10	20	54.5
20	30	64.5
25	35	69.5

KI5



Features

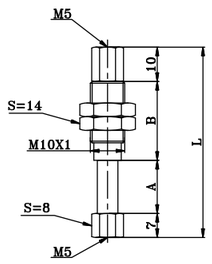
- The built–in damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KI：Internal spring	5：M5	06：6mm stroke 07：7mm stroke 10：10mm stroke 12：12mm stroke 15：15mm stroke 20：20mm stroke 25：25mm stroke		Blank：standard V：female thread F：Non–rotation		A10：M10×1

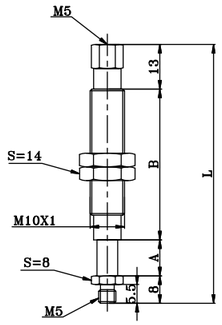
Order Example: KI Internal Spring Plungers, suction cup connection M5, lifting heights stroke 10mm, standard specification, guide bush male thread M10X1. Order code is: KI510–A10

Main Dimension



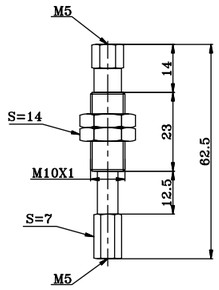
KI5 15–V–A10
①

①Lifting Heights	A	B	L
07	7.5	19	43.5
15	15.5	23	55.5
20	20.5	36	73.5
25	25.5	41.5	84



KI5 10–A10
①

①Lifting Heights	A	B	L
06	6.8	15	42.5
10	10.5	44	75.5
25	25.5	44	90.5



KI5 12–F–V–A10

KE18



Features

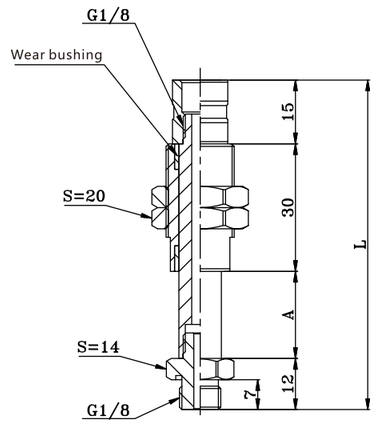
- The external damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KE：External damping spring	18：G1/8	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke		Blank：standard V：female thread		A16：M16X1 A18：M18X1

Order Example: KE External Damping Spring Plungers, suction cup connection G1/8, lifting heights stroke 10mm, standard thread, guide bush male thread M16X1. Order code is: KE1810–A16

Main Dimension



KE18 10–□–A16
① ②

①Lifting Heights	②Blank Default /V	A	L
10	Conventional fittings/internal thread fittings	20.5	77.5
20		35.5	92.5
30		50.5	107.5
50		70.5	127.5

KI18



Features

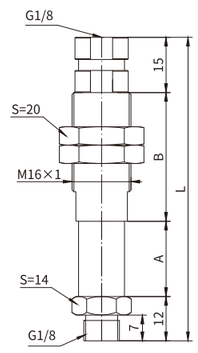
- The built–in damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KI：Internal spring	18：G1/8	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke		Blank：standard V：Female thread F：Non rotary L：Lateral port		A16：M16X1 A18：M18X1

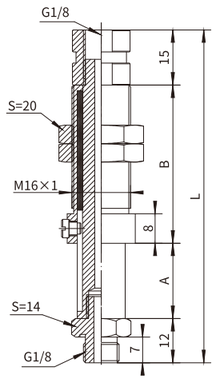
Order Example: KI Internal Spring Plungers, suction cup connection G1/8, lifting heights stroke 10mm, standard specification, guide bush male thread M16X1. Order code is: KI1810–A16

Main Dimension



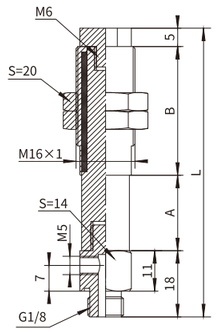
KI18 10–□–A16
① ②

①Lifting Heights	②Blank Default / V	A	B	L
10	Conventional fittings/internal thread fittings	10.5	25	62.5
20		20.5	35	82.5
30		30.5	45	102.5
50		50.5	65	142.5



KI18 10–F–A16
①

①Lifting Heights	A	B	L
10	10.5	33	70.5
20	20.5	43	90.5
30	30.5	53	110.5
50	50.5	73	150.5



KI18 10–L–A16
①

①Lifting Heights	A	B	L
10	10.5	25	58.5
20	20.5	35	78.5
30	30.5	45	98.5
50	50.5	65	138.5

KE14



Features

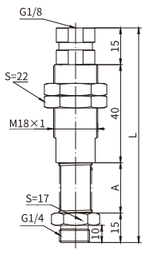
- The external damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.
- Optional anti–rotation function.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KE：External damping spring	14：G1/4	10：10mm stroke 20：20mm stroke 25：25mm stroke 30：30mm stroke 50：50mm stroke 70：70mm stroke 75：75mm stroke		Blank：standard V：Female thread F：Non rotary		A18：M18X1 A20：M20X1.5

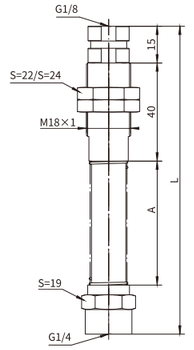
Order Example: KE External Damping Spring Plungers, suction cup connection G1/4, lifting heights stroke 10mm, standard specification, guide bush male thread M18X1. Order code is: KE1410–A18

Main Dimension



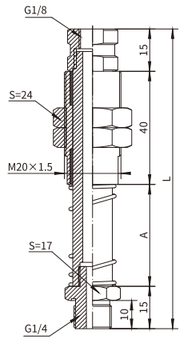
KE14 10–A18
①

①Lifting Heights	A	L
10	20.5	90.5
20	35.5	105.5
30	50.5	120.5
50	70.5	140.5



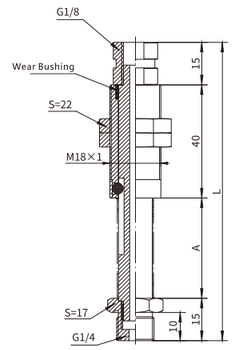
KE14 10–V–A18
① ②

①Lifting Heights	②Guide Bush Size	A	L
10	A18/20	20.5	90.5
20	A18/20	35.5	105.5
30	A18/20	50.5	120.5
50	A18/20	70.5	140.5



KE14 10–A20
①

①Lifting Heights	A	L
10	20.5	90.5
20	35.5	105.5
30	50.5	120.5
50	70.5	140.5
70	90.5	160.5



KE14 10–F–A18
①

①Lifting Heights	A	L
10	20.5	90.5
20	35.5	105.5
30	50.5	120.5
50	70.5	140.5

KI14



Features

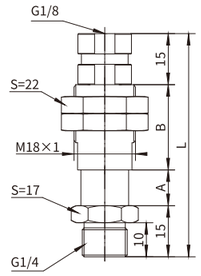
- The built–in damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KI：Internal spring	14：G1/4	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke		Blank：standard V：Female thread F：Non rotary		A18：M18X1 A20：M20X1.5

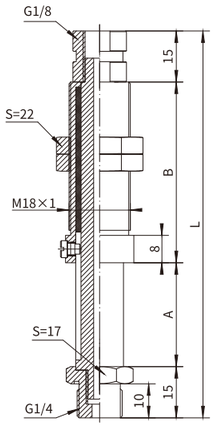
Order Example: KI Internal Spring Plungers, suction cup connection G1/4, lifting heights stroke 10mm, standard specification, guide bush male thread M18X1. Order code is: KI1410-A18

Main Dimension



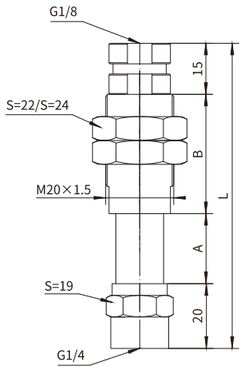
KI14 10–A18
①

①Lifting Heights	A	B	L
10	10.5	25	65.5
20	20.5	35	85.5
30	30.5	45	105.5
50	50.5	75	155.5



KI14 10–F–A18
①

①Lifting Heights	A	B	L
10	10.5	25	73.5
20	20.5	35	93.5
30	30.5	45	113.5
50	50.5	75	163.5



KI14 10–V–A18
① ②

①Lifting Heights	②Guide Bush Size	A	B	L
10	A18/20	10.5	25	73.5
20	A18/20	20.5	35	93.5
30	A18/20	30.5	45	113.5
50	A18/20	50.5	75	163.5

KE38



Features

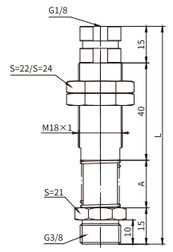
- The external damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.
- Optional anti–rotation function.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KE：External damping spring	38：G3/8	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke 70：70mm stroke 75：75mm stroke 100：100mm stroke		Blank：standard V：Female thread F：Non rotary		A18：M18X1 A20：M20X1.5

Order Example: KE External Damping Spring Plungers, suction cup connection G3/8, lifting heights stroke 10mm, standard specification, guide bush male thread M18X1. Order code is: KE3810–A18

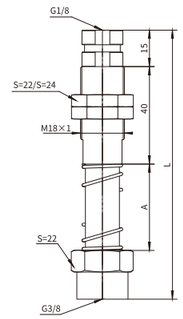
Main Dimension



KE38 10–A18
① ②

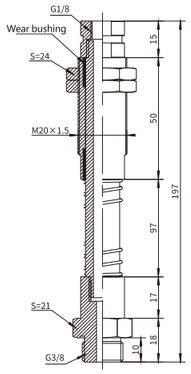
①Lifting Heights	②Guide Bush Size	A	L
10	A18/A20	20.5	90.5
20	A18/A20	35.5	105.5
30	A18/A20	50.5	120.5
50	A18/A20	70.5	140.5
70	A20	90.5	150.5
100	A20	130.5	200.5

A20 has wear-resistant bushing



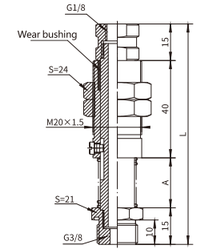
KE38 10–V–A18
① ②

①Lifting Heights	②Guide Bush Size	A	L
10	A18/A20	20.5	95.5
20	A18/A20	35.5	110.5
30	A18/A20	50.5	125.5
50	A18/A20	70.5	145.5



KE38 70–A20

①Lifting Heights	A	L
10	20.5	90.5
20	35.5	105.5
30	50.5	120.5
50	70.5	140.5



KE38 10–F–A20
①

①Lifting Heights	A	L
10	20.5	90.5
20	35.5	105.5
30	50.5	120.5
50	70.5	140.5

KI38



Features

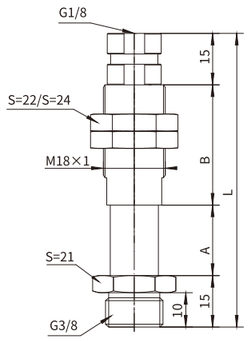
- The built–in damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	□	–	Guide Bush Male Thread
KI：Internal spring	38：G3/8	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke		Blank：standard V：Female thread F：Non rotary		A18：M18X1 A20：M20X1.5

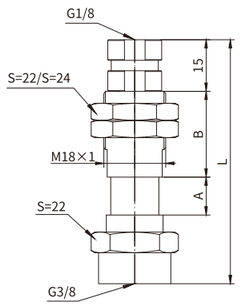
Order Example: KI Internal Spring Plungers, suction cup connection G3/8, lifting heights stroke 10mm, standard specification, guide bush male thread M18X1. Order code is: KI3810–A18

Main Dimension



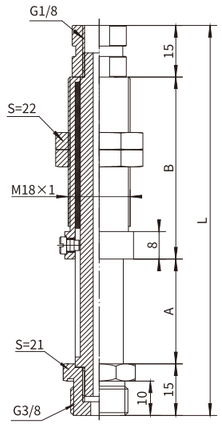
KI38 10–A18
① ②

①Lifting Heights	②Guide Bush Size	A	B	L
10	A18/A20	10.5	25	65.5
20	A18/A20	20.5	35	85.5
30	A18/A20	30.5	45	105.5
50	A18/A20	50.5	75	155.5



KI38 10–V–A18
① ②

①Lifting Heights	②Guide Bush Size	A	B	L
10	A18/A20	11	25	71
20	A18/A20	21	35	91
30	A18/A20	31	45	111
50	A18/A20	51	75	161



KI38 10–F–A18
① ②

①Lifting Heights	②Guide Bush Size	A	B	L
10	A18/A20	10.5	33	73.5
20	A18/A20	20.5	43	93.5
30	A18/A20	30.5	53	113.5
50	A18/A20	50.5	83	163.5

KE12



Features

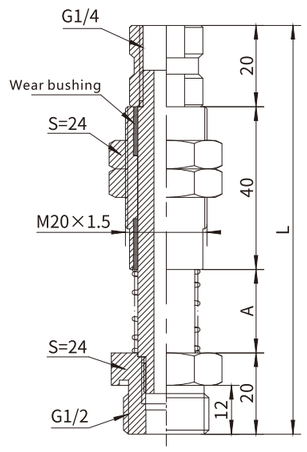
- The external damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	Guide Bush Male Thread
KE：External damping spring	12：G1/2	10：10mm stroke 20：20mm stroke 25：25mm stroke 30：30mm stroke 50：50mm stroke 75：75mm stroke		A20：M20X1.5 A30：M20X2

Order Example: KE External Damping Spring Plungers, suction cup connection G1/2, lifting heights stroke 10mm, guide bush male thread M20X1.5. Order code is: KE1210–A20

Main Dimension



KE12 10–A20
①

①Lifting Heights	A	L
10	20.5	100.5
20	35.5	115.5
30	50.5	130.5
50	70.5	150.5

KI12



Features

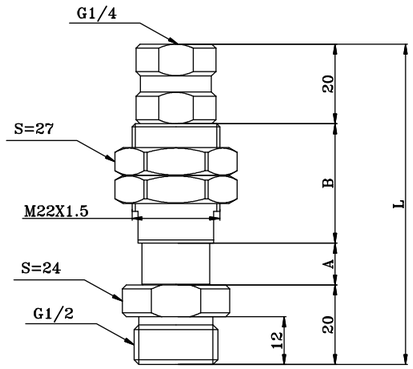
- The built–in damping spring has very good compensation for different heights when conveying workpieces.
- Large range of connection threads and lifting heights enables use for a wide variety of applications and suction pads.
- Spring damping and soft contact with sensitive workpieces.
- Abrasion resistant guide rod, longer life.

How to Order?

Series No.	Suction Cup Connection	Lifting Heights	–	Guide Bush Male Thread
KI：Internal spring	12：G1/2	10：10mm stroke 20：20mm stroke 30：30mm stroke 50：50mm stroke		A22：M22X1.5

Order Example: KI Internal Spring Plungers, suction cup connection G1/2, lifting heights stroke 10mm, guide bush male thread M22X15. Order code is: KI1210–A22

Main Dimension



KI12 10–A22
①

①Lifting Heights	A	B	L
10	10.5	30	80.5
20	20.5	35	95.5
30	30.5	50	120.5
50	50.5	70	160.5

FR
Vacuum Filter



Product Features

- It can effectively prevent solid particles or dust from being sucked into the vacuum pump or vacuum system, reduce the wear of the pump, improve the feasibility of the pump operation, lengthen the pump life, and effectively protect the components of the vacuum system (such as vacuum valve, vacuum meter, etc.)
- All–steel structure, sturdy and durable, suitable for heavy load requirements of industrial use, using seamless stretched metal shell, with copper welded joints, high air tightness, large scale space, easy to clean, easy to replace the filter element, fast inlet and outlet using Threaded connection,can be matched with special nozzles according to customer requirements,sealed with O–rings, the maximum vacuum value is lower than 1Pa Standard configuration of paper filter element, nominal filtration rating reaches 99% (10 μ m rating), passing gas temperature–15~90 ℃ .
- Different nominal flow specifications are available.

How to Order?

Series No.	Nominal Flow
FR：FR Series	002：32m /h 002–1：42m /h 003：100m /h 004：120m /h 006：300m /h

Order Example: FR Series Vacuum Filter, Nominal flow 32m³/h. Order code is: FR002

Performance Overview

- Suit for dusty environments with filter precision reaches 99%.
- It can effectively filter the air and protect vacuum protect devices(such as vacuum pumps and blowers).

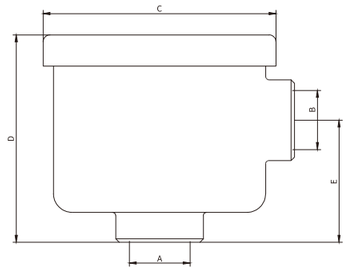
Specifications

Model No	FR002	FR002-1	FR003	FR004	FR006
Rated Theorym³/h	32	42	120	100	300
A Inch Size	G1/2"	G3/4"	G1-1/4"	G1-1/4"	G2"
B Inch size	G1/2"	G3/4"	G1-1/4"	G1-1/4"	G2"
C	Ø101	Ø101	Ø185	Ø146	Ø222
D	90	90	170	140	258
G	53	53	115	70	125
Weight (Kg)	1	1	2.3	1.4	6.9
Filter Consumption Material	FR002-LX	FR002-LX	FR003-LX	FR004-LX	FR006-LX
Outer Diameter (D)	Ø65	Ø65	Ø128	Ø98	Ø150
Internal Diameter(d)	Ø38	Ø38	Ø64	Ø60	Ø88
Height(H)	69	69	125	70	222

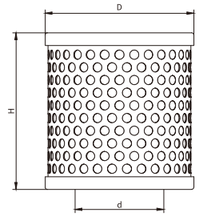
Dimension A、B is pipe thread G: US-NP UK-BSP

Main Dimension

Filter dimensions



Air filter size



FB
Vacuum Filter



Product Features

- Filter the dust and other impurities sucked in from the air intake.
- You could check the element inside through transparent bowl.
- Filter element can be replaced.
- Reduce the risk of interruption or stoppage of vacuum pump and vacuum ejectors.
- Different nominal flow specifications are available.
- Press and rotate assembly for easy disassembly and installation.

Performance Overview

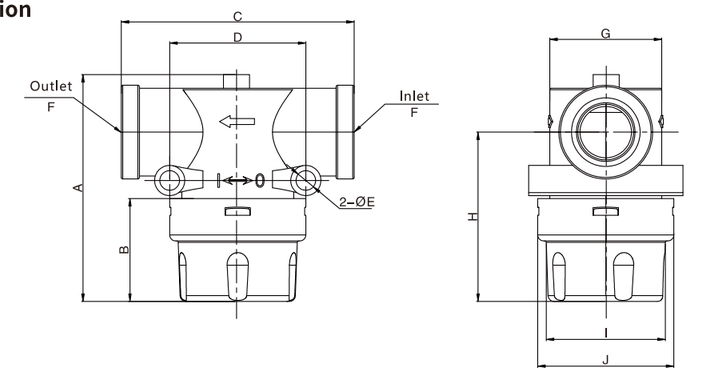
- Suit for vacuum systems with moderate and light pollution levels.
- It can be used as pre–filtration, filter different degrees of dust effectively.

How to Order?

Series No.	—	Thread Size	Filter Material
FB：FB Series		10：G3/8 female thread 15：G1/2 female thread 20：G3/4 female thread	Blank：PE（Nominal filtration rating 10μm）

Order Example: FB Series Vacuum Filter, G3/8 female thread, PE filter material. Order code is: FB–10

Main Dimension



Model	A	B	C	D	E	F	G	H	I	J
FB-10	75	34	77	45	6	G3/8	51	56	39	45
FB-15	141	91	97.5	60	6	G1/2	71	117	57.5	69.5
FB-20	141	91	97.5	60	6	G3/4	71	117	57.5	69.5

Performance Parameters

Model No.	Pressure Range (kPa)	Material	Temperature Range (℃)	Filter Precision (μm)	Nominal Flow (NL/min)	IInternal Vacuum Capacity(cm²)	Filter Area (cm²)	Weight (g)
FB-10	-100~0	PA-noumenon	-20~80	10	150	45	0.003	70
FB-15		PC-filter bowl			900	195	0.010	168
FB-20		PE-filter element			900	205	0.010	170

Filter Element Specification

	FB10-LX	FB15-LX	FB20-LX
Weight(g)	7	26	26
Filter Area(m²)	0.003	0.010	0.010
Nominal Filtration Rating(μm)	10	10	10

FD
Vacuum Filter



Product Features

- Small volume,light weight, with mounting bracket.
- Quick connector type, easy to configure.
- Filter element can be replaced,standard model with bracket.
- With a fast assembly and disassembly structure, the filter element can be replaced without tools.
- Through–type,inlet and outlet stand in same line,easy to install.
- Suit for vacuum systems with moderate and light pollution levels.

How to Order?

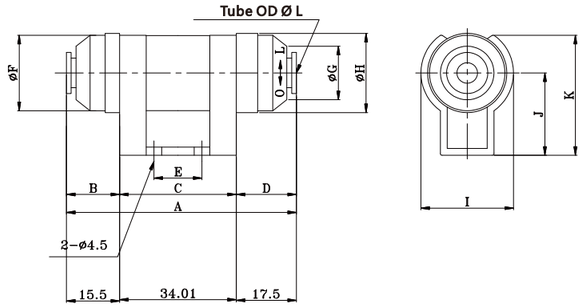
Series No.	Vacuum Flow Rate	—	IN、OUT Hose OD	□
FD：FD Series	100：maximum flow rate 20NL/min		04：Ø4 06：Ø6	Blank: without bracket B: With bracket
	200：maximum flow rate 50NL/min		06：Ø6 08：Ø8	

Order Example: FD Series Vacuum Filter, maximum flow rate 20NL/min, hose outer diameter Φ4(ZPC100), without bracket. Order code is: FD100–04

Performance Parameters

Model No.	FD100-04B	FD100-06B	FD200-06B	FD200-08B
Adjusting Tube OD（mm）	Ø4	Ø6	Ø6	Ø8
Flow Rate（NL/min）	10	20	30	50
Fluid	Air、Nitrogen			
Operating Pressure Range（kPa）	-100~0			
Nominal Filtration Rating（μm）	10			
Ambient and Fluid Temperature（℃）	0~60（No freezing）			
Proof Pressure（bar）	1.5			
Tube Material	Nylon、Soft nylon、PU tube、Extremely soft PU tube			
Filter Element	FD-100-LX		FD-200-LX	

Main Dimension



Model No.	A	B	C	D	E	F	G	H	I	J	K	L
FD100-04B	53.2	9.1	30	14.1	10	18	11.6	19.5	23	20	29	4
FD100-06B	53.2	9.1	30	14.1	10	18	11.6	19.5	23	20	29	6
FD200-06B	67	15.5	34	17.5	14	22	15.6	23.1	27	24	35	6
FD200-08B	67	15.5	34	17.5	14	22	15.6	23.1	27	24	35	8

FC
Vacuum Filter



Performance Parameters

Model No.	FC54-B	FC56-B	FC76-B	FC78-B	FC710-B	FC712-B
Tube Diameter (mm)	Ø4	Ø6	Ø6	Ø8	Ø10	Ø12
Flow Rate Under Positive Pressure (NL/min)	40	130	140	280	320	370
Flow Rate Under Negative Pressure (NL/min)	10	75	80	110	120	140
Fluid	Air、Nitrogen					
Operating Pressure Range	-0.1MPa~1.0MPa					
Nominal Filtration Rating (μm)	5					
Working Temperature (℃)	0~60 (No freezing)					
Proof Pressure (MPa)	1.2					
Tube Material	Nylon、Soft nylon、PU tube、Extremely soft PU tube					
Filter Element	FC5-LX		FC7-LX			

How to Order?

Series No.	Filter Specifications	Tube OD	—	Bracket
FC： FC Series	5：Filter area 790mm 7：Filter area 1280mm	4：Ø4 6：Ø6 8：Ø8 10：Ø10 12：Ø12		B: With bracket

Order Example: FC Series Vacuum Filter, filter area 790㎟, for 4mm tube, with bracket.
Order code is: FC54–B

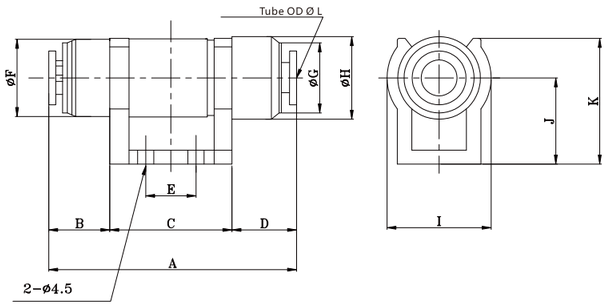
Product Features

- Small volume,light weight with mounting bracket.
- Quick connector type, easy to cconnect with pipe.
- Quick assembly and disassembly structure, filter element can be replaced without tools.
- Transparent bowl,arrows indicate the direction of air flow,can visualize the contamination level of the filter.
- Can be used in positive or negative pressure system.
- Suit for positive pressure and vacuum systems at moderate and light pollution levels.

Type

Type/Tube Diameter	4	6	8	10	12	Bracket
FC5	•	•	—	—	—	•
FC7	—	•	•	•	•	•

Main Dimension



Model No.	A	B	C	D	E	F	G	H	I	J	K	L
FC54-B	55. 5	8	30	10	10	17	13	19	23	20	29	4
FC56-B	55. 5	8	30	10	10	17	13	19	23	20	29	6
FC76-B	67	10.5	34	12	14	21.5	15.5	23	29	24	35	6
FC78-B	69. 5	12	34	13	14	21.5	16	23	29	24	35	8
FC710-B	78. 5	17	34	18	14	21.5	19.5	23	29	24	35	10
FC712-B	78. 5	17	34	18	14	21.5	21	23	29	24	35	12

VP
One-Way Valve



Product Features

- Adopt built–in spring structure, rotation can be realized in all directions.
- With various specification and type, could meet many installation size requirements.
- Product built–in filter device, prevent product clogging effectively.

How to Order?

Series No.	Specification	—	Vacumm Ejector Side Thread Specification	—	Pad Side Thread Specification
VP：VP Series	03：Aperture port size0.3mm (without the G1/8 thread) 05：Aperture port size0.5mm 07：Aperture port size0.7mm 10：Aperture port size1.0mm (without the M5 thread)		A05M：External thread M5x0.8 A05F：Internal thread M5x0.8 A18M：External thread G1/8 A18F：Internal thread G1/8		B05M：External thread M5x0.8 B05F：Internal thread M5x0.8 B18M：External thread G1/8 B18F：Internal thread G1/8

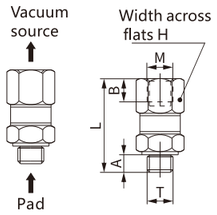
Order Example: VP Series One–Way Valve, aperture port size 0.3mm(without the G1/8 thread), vacuum ejector side thread M5X0.8, pad side internal thread M5X0.8. Order code is: VP03–A05M–B05F

Note：Both thread sides can only choose the same specifications, but do not limit the female and male thread.
Example:VP03-A18M-B18F。

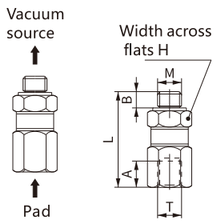
Performance Parameters

Throttle Diameter (mm)	0.3	0.5	0.7	0.5	0.7	1.0
Fluid	Air					
Maximum Operating Working Pressure (MPa)	0~0.7					
Maximum Operating Vacuum Pressure Range (kPa)	-100~0					
Ambient and Fluid Temperatures(℃)	0~60 (No freezing)					
Nominal Filtration Rating (μm)	40					
Minimum Flow Rate (NL/min)	3	5	8	5	8	16

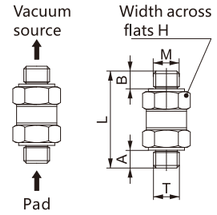
Main Dimension



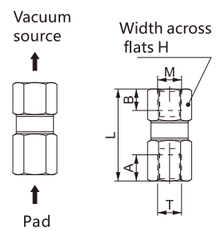
Model No.	M(mm)	T(mm)	L(mm)	A(mm)	B(mm)	H(mm)	Weight(g)
VP03-A05F-B05M	M5x0.8	M5x0.8	18.1	3.4	4.5	8	6
VP05-A05F-B05M							
VP07-A05F-B05M							
VP05-A18F-B18M	G1/8	G1/8	27.6	5.1	8	13	23
VP07-A18F-B18M							
VP10-A18F-B18M							



Model No.	M(mm)	T(mm)	L(mm)	B(mm)	A(mm)	H(mm)	Weight(g)
VP03-A05M-B05F	M5x0.8	M5x0.8	20	3.4	5.5	8	7
VP05-A05M-B05F							
VP07-A05M-B05F							
VP05-A18M-B18F	G1/8	G1/8	28.5	5.1	8	13	24
VP07-A18M-B18F							
VP10-A18M-B18F							



Model No.	M(mm)	T(mm)	L(mm)	B(mm)	A(mm)	H(mm)	Weight(g)
VP03-A05M-B05M	M5x0.8	M5x0.8	18.8	3.4	3.4	8	6
VP05-A05M-B05M							
VP07-A05M-B05M							
VP05-A18M-B18M	G1/8	G1/8	26.2	5.1	5.1	13	22
VP07-A18M-B18M							
VP10-A18M-B18M							



Model No.	M(mm)	T(mm)	L(mm)	B(mm)	A(mm)	H(mm)	Weight(g)
VP03-A05F-B05F	M5x0.8	M5x0.8	19.3	5.5	5.5	8	7
VP05-A05F-B05F							
VP07-A05F-B05F							
VP05-A18F-B18F	G1/8	G1/8	30	8	8	13	24
VP07-A18F-B18F							
VP10-A18F-B18F							

VK
One-Way Valve



Product Features

- The product adopts valve ball structure,used in vertical movement condition.
- With various specification and type, could meet many installation size requirements.
- Product built–in filter device, prevent product clogging effectively.

How to Order?

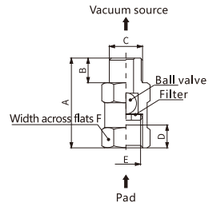
Series No.	–	Thread Specification	Vacumm Ejector Side Thread Specification
VK：VK Series		G18：G1/8 G14：G1/4 G38：G3/8 G12：G1/2	M：Male thread F：Female thread

Order Example: VK Series One–Way Valve, G1/8 port size, male thread. Order code is: VK–G18M

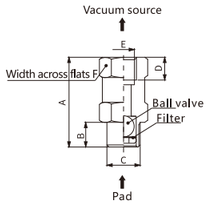
Performance Parameters

Model No.	Suction Flow Required Under -30kPa(NL/min)	Suction Flow Required Under -60kPa(NL/min)	Maximum Blowing Flow When the Supply Air Breaks the Vacuum Under 0.5MPa(NL/min)
VK-G18M	2.9	3.4	310
VK-G18F	7.3	8.0	310
VK-G14M	8.1	9.0	340
VK-G14F	1.2	1.3	340
VK-G38M	2.3	2.5	590
VK-G38F	2.9	3.4	590
VK-G12M	7.3	8.0	790
VK-G12F	8.1	9.0	790

Main Dimension



Model No.	A	B	C	D	E	F	Weight(g)
VK-G18M	34	8.5	G1/8	8.5	G1/8	14	11.2
VK-G14M	36	11	G1/4	11	G1/4	17	17.5
VK-G38M	39	12	G3/8	12	G3/8	22	30.3
VK-G12M	41	14	G1/2	14	G1/2	27	47.4



Model No	A	B	C	D	E	F	Weight(g)
VK-G18F	34	8.5	G1/8	8.5	G1/8	14	11.2
VK-G14F	36	10	G1/4	11	G1/4	17	17.5
VK-G38F	39	10	G3/8	12	G3/8	22	30.3
VK-G12F	41	12	G1/2	14	G1/2	27	47.4

VT
Flow Control Valve



Product Features

- Adopt small orifice throttling mode，realize vacuum tube diameter reduction function.
- Suit for maintain the system vacumm by reducing separate Pad's flow rate.
- Installed in any position and direction in the system.

How to Order?

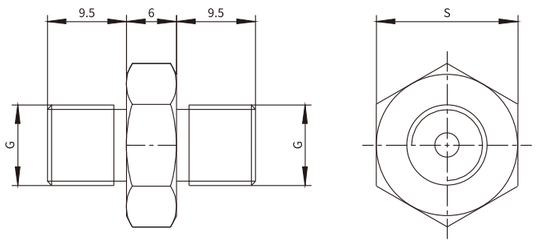
Series No.	Throttle Hole Specification		—	Thread Specification
VT：VT Series	25：ϕ0.25mm 40：ϕ0.40mm 60：ϕ0.60mm 80：ϕ0.80mm	100：ϕ1.00mm 120：ϕ1.20mm 150：ϕ1.50mm 200：ϕ2.00mm		G18M：G1/8 Male thread G14M：G1/4 Male thread

Order Example: VT Series Flow Control Valve, throttle hole 0.25mm, G1/8 male thread. Order code is: VT25–G18M

Performance Parameters

Model No.	Suction Flow Required Under -30kPa(NL/min)	Suction Flow Required Under -60kPa(NL/min)	G18M Weight (g)	G14M Weight (g)
VT25-□	0.2	0.3	6.0	8.0
VT40-□	1.0	1.2	6.0	8.0
VT60-□	3.1	3.2	6.0	8.0
VT80-□	5.0	5.2	6.0	8.0
VT100-□	7.7	8.5	6.0	8.0
VT120-□	12.5	12.8	6.0	8.0
VT150-□	22.2	23.5	6.0	8.0
VT200-□	34.0	36.5	6.0	8.0

Main Dimension



Model No.	G	S (mm)
VT□-G18M	G1/8	14
VT□-G14M	G1/4	17

SZB
Universal Corrugated Suction Cups



Product Features

- 1.5 Fold corrugated suction cups.
- Seal lip soft and taper.
- Bottom with support structure.
- Top with clamps.
- Complete size specifications.
- Compensate the height difference of the workpiece, and have a good buffer effect when contacting the workpiece.
- The workpiece with uneven surface has good sealing.
- Handling thin–walled workpieces will not cause permanent deformation.
- Prevent the suction cup and the suction cup joint from loosening or falling off.
- Suitable for various sizes and shapes of the workpiece.
- Suitable for handling workpiece with uneven surface, such as carton, cardboard, curved workpiece, pipe, etc.
- Suitable for handling fragile workpieces, such as electronic components, injection parts, etc.
- Suitable for handling smooth wood, smooth steel plate, etc.

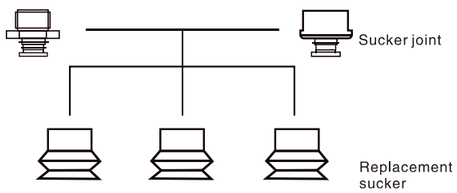
How to order?

Series NO.	Size Specification	Sucker Material	—	Connection Specification
SZB：SZB Series	5：Φ5mm 6：Φ6mm 8：Φ8mm 10：Φ10mm 12：Φ12mm 15：Φ15mm 17：Φ17mm 20：Φ20mm 30：Φ30mm 40：Φ40mm 50：Φ50mm 75：Φ75mm 110：Φ110mm 150：Φ150mm	N: nitrile rubber S: Silicone rubber WS: White silicone rubber CS: conductive silicone rubber		Blank: single sucker M5M: M5x0.8 external thread G1M: G1/8 external thread G2M: G114 external thread G3M: G3/8 external thread G1F: G1/8 internal thread G2F: G1/4 internal thread G3F: G3/8 internal thread G4F: G1/2 internal thread

Ordering Example: SZB series universal corrugated suction cup, size specification 30, Buqing rubber, connection specification: G1/8 external thread.Its order code is: SZB30N-G1M

Model Number	Connection specification M-external thread	F- Internal thread
SZB5□	SZB6□-M5M	-
SZB6□	SZB8□-M5M	-
SZB8□	SZB10□-M5M	-
SZB10□	SZB12□-M5M	-
SZB12□	SZB15□-M5M	-
SZB15□	SZB17□-G1M	-
SZB17□	SZB20□-G1M	SZB17□-G1F
SZB20□	SZB30□-G1M	SZB20□-G1F
SZB30□	SZB40□-G1M	SZB30□-G1F
SZB40□	SZB50□-G2M	SZB40□-G1F
SZB50□	SZB50□-G3M SZB50□–G5M	SZB50□-G2F SZB50□-G3F
SZB75□	-	SZB75□-G2F
SZB110□	-	SZB110□-G4F
SZB150□	-	SZB150□-G4F

Structure



1.5 Corrugated structure design, large compression stroke. Suction cup and joint split structure design, can be replaced separately wearing parts.

In the same series, replacement suckers and suckers couplings can be combined on request.

Performance Parameter

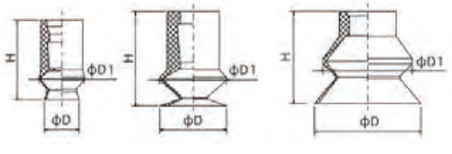
Model Number	Pulling Force(N)	Internal Volume(cm³)	Minimum rate of workpiece(mm)	Weight (g)	Recommended hose(mm)	Minimum package(pcs)
SZB5	0.8	<0.1	8	0.3	4	10
SZB6	1.2	<0.1	8	0.5	4	10
SZB8	2.1	<0.1	10	0.4	4	10
SZB10	3.2	0.4	12	0.9	4	10
SZB12	4.7	0.8	15	1.5	6	10
SZB15	7.4	0.5	20	1.5	6	10
SZB17	9.5	1.1	25	1	6	10
SZB20	18	1.2	30	3	6	5
SZB30	33	14	35	7.5	6	5
SZB40	60	18	50	13	6	5
SZB50	92	26	80	24	8	1
SZB75	210	96	60	68	8	1
SZB110	412	314	120	178	12	1
SZB150	740	798	160	439.5	12	1

Note: Measuring vacuum –60kPa workpiece surface is smooth and clean. The above pull–out force data do not include the safety factor.
Depending on the surface condition of the workpiece, the value may change.
It is recommended that the vacuum tube be as short as possible, with the length not exceeding 2m.

SZB series Universal Corrugated Suction Cups

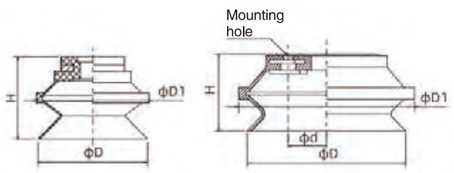
E•MC®

Main Dimension（mm）



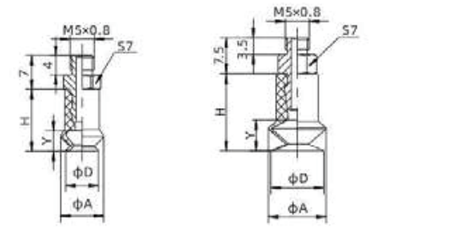
SZB6　SZB5–15　SZB17

Model/Size	D	D1	H
SZB5□	5.8	6.2	9.2
SZB6□	7	9	13.5
SZB8□	8.8	9.6	11.9
SZB10□	11	12	16
SZB12□	12	14	16.5
SZB15□	15.5	17.5	19.5
SZB17□	18.5	16.6	15.6



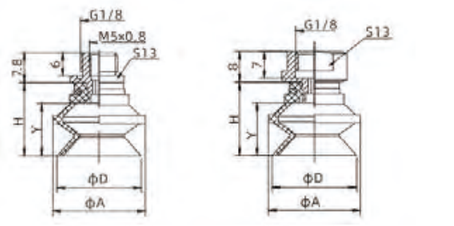
SZB20–50　SZB75–150

Model/Size	D	D1	H	d	Mounting hole
SZB20□	22	24	19	-	-
SZB30□	34	36	26	-	-
SZB40□	43	46	28	-	-
SZB50□	53	58	35	-	-
SZB75□	78	83	37	35	4-Φ6.5
SZB110□	115	124	54	55	8-Φ6
SZB150□	155	166	71	70.5	8-Φ6



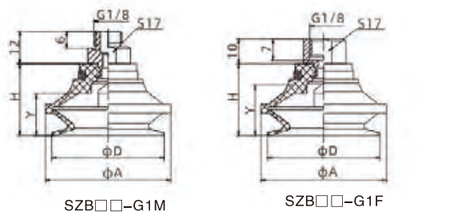
SZB6□–M5M　SZB□□–M5M

Model/Size	D	A	H	Y
SZB5□–M5M	5.8	6.2	9.2	3.6
SZB6□–M5M	7	9	13.5	4.5
SZB8□–M5M	8.8	9.6	11.9	6.5
SZB10□–M5M	11	12	16	7
SZB12□–M5M	12	14	16.5	5.5
SZB15□–M5M	15.5	17.5	19.5	10



SZB□□–G1M　SZB□□–G1F

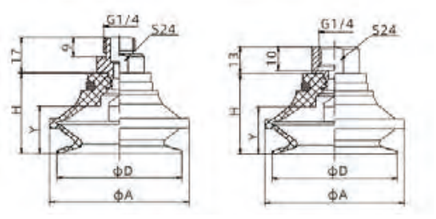
Model/Size	D	A	H	Y
SZB17□–G1M	18.5	16.6	15.6	10.5
SZB17□–G1F	18.5	16.6	15.6	10.5
SZB20□–G1M	22	24	19	9
SZB20□–G1F	22	24	19	9



SZB□□–G1M　SZB□□–G1F

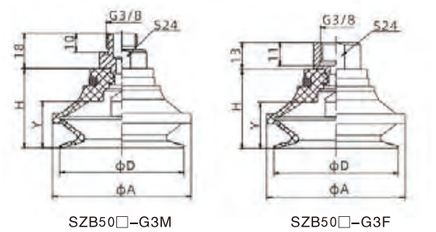
Model/Size	D	A	H	Y
SZB30□–G1M	34	36	26	19
SZB30□–G1F	34	36	26	19
SZB40□–G1M	43	46	28	20
SZB40□–G1F	43	46	28	20

Main Dimension（mm）



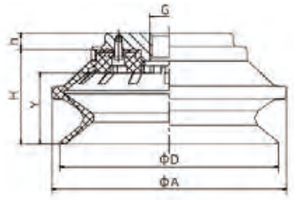
SZB50□–G2M　SZB50□–G2F

Model/Size	D	A	H	Y
SZB50□–G2M	53	58	35	20
SZB50□–G2F	53	58	35	20



SZB50□–G3M　SZB50□–G3F

Model/Size	D	A	H	Y
SZB50□–G3M	53	58	35	20
SZB50□–G3F	53	58	35	20



SZB75–150

Model/Size	D	A	H	h	G	Y
SZB75□–G2F	78	83	37	13	G1/4	27
SZB110□–G4F	115	124	54	9	G1/2	38.5
SZB150□–G4F	155	166	71	10	G1/2	44.5

Parts Selection Specification

Model	Type specification M– External thread	F–Internal thread	Adapter
Sucker joint	PJS-M5M-SC1	-	SZB6
	PJS-M5M-SF2	-	SZB5、8
	PJS-M5M-SF3	-	SZB10、12、15
	PJS-G1M-SF1	PJS-G1F-SF1	SZB17、20
	PJS-G1M-SF2	PJS-G1F-SF2	SZB30、40
	PJS-G2M-SF3	PJS-G2F-SF3	SZB50
	PJS-G3M-SF3	PJS-G3F-SF3	SZB50
	-	PJS-G2F-SF75	SZB75
	-	PJS-G4F-SF110	SZB110
	-	PJS-G4F-SF150	SZB150

6
SZB

SZF
Commonly Used Flat Pad



Product Features

- It has very good structural design.
- There is a support structure at the bottom of the product.
- The volume inside the pad is small.
- Handling thin–walled workpieces will not cause irreversible deformation.
- This pad has small size and strong adsorption force.
- Shorter work period
- Workpieces of various sizes and shapes are suitable for this pad.
- This pad can be used to carry smooth or slightly rough flat workpiece, such as: wood,steel,plywood,plastic board
- This pad can be used to carry electronic components.Its material is anti–static, so it can effectively prevent the damage of static electricity to electronic products.

How to order?

Series NO. Size Specification Sucker Material — Connection Specification

SZF: SZF Series

15: Φ15mm 75: Φ75mm
20: Φ20mm 110: Φ110mm
25: Φ25mm 150: Φ150mm
30: Φ30mm 200: Φ200mm
40: Φ40mm 300: Φ300mm
50: Φ50mm

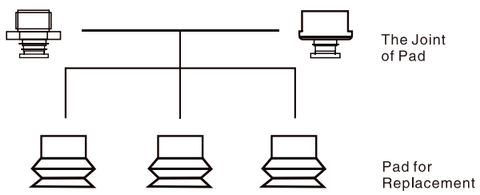
N: nitrile rubber
S: Silicone rubber
WS: White silicone rubber
CS: conductive silicone rubber

Blank:Pad only
M5M:M5X0.8 male thread
G1M:G1/8 male thread
G2M:G114 male thread
G3M:G3/8 male thread
G1F: G1/8 female thread
G2F: G1/4 female thread
G3F: G3/8 female thread
G4F: G1/2 female thread
G6F: G3/4 female thread

Order Example: SZF serie commonly used flat pad, pad diameter Φ50,nitrile rubber, thread type:G1/4 female thread,ERP coude is: SZF50N-G2F

Model Number	Connection specification M-external thread	F- Internal thread
SZF15□	SZF15□–M5M	-
SZF20□	SZF20□–G1M	SZF20□-G1F
SZF25□	SZF25□–G1M	SZF25□-G1F
SZF30□	SZF30□–G1M	SZF30□-G1F
SZF40□	SZF40□–G1M	SZF40□-G1F
SZF50□	SZF50□–G2M SZF50□–G3M	SZF50□-G2F
SZF75□	-	SZF75□-G2F
SZF110□	-	SZF110□-G4F
SZF150□	-	SZF150□-G4F
SZF200□	-	SZF200□-G4F
-	-	SZF300□-G6F

Structure



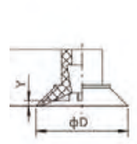
Split structure design of pad and joint, could to replace wearing parts separately.
The diameter of the pad is 50–150mm, and it can be optionally equipped with a contact induction valve to prevent accidental vacuum leakage.
In the same series, replacement suckers and joint can be combined on request.

Specifications

Model Number	Pulling Force(N)	Internal Volume(cm³)	Weight (g)	Recommended hose(mm)	Minimum package(pcs)
SZF15	8	0.5	0.7	6	10
SZF20	14.5	0.8	1.4	6	5
SZF25	22	1.2	1.8	6	5
SZF30	32	1.5	2.6	6	5
SZF40	60	3	5.2	6	5
SZF50	88	7	11.5	6	1
SZF75	200	20	47.2	8	1
SZF110	430	60	116	10	1
SZF150	795	160	344.2	10	1
SZF200	1500	550	732.2	12	1
SZF300	3200	730	2700	12	1

Note: The measured vacuum is 60kPa, and the workpiece surface is smooth and clean.The pull–out force in the table does not include the safety factor.
The value may vary depending on the surface condition of the workpiece.
It is recommended that the connected vacuum pipe be as short as possible, and the length should not exceed 2m.

Main Dimension (mm)

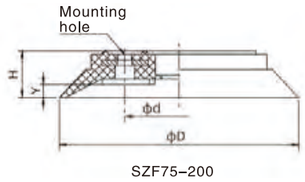


SZF15



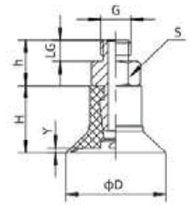
SZF20–50

Model/Size	D	H	Y
SZF15□	16.5	11	0.8
SZF20□	22	8	1
SZF25□	27	9	1
SZF30□	32	10	1.2
SZF40□	42	13	1.2
SZF50□	53	17.5	3.2



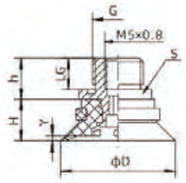
SZF75–200

Model/Size	D	H	d	Y	Mounting hole
SZF75□	77	13	35	4	4-Φ6.5
SZF110□	112	20	55	6	8-Φ6
SZF150□	152	26	70	8	8-Φ6
SZF200□	200	45	40	20	4-Φ9

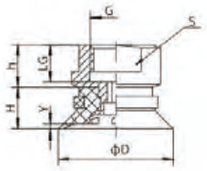


SZF15□–M5M Mounting hole

Model/Size	D	H	G	LG	h	S	Y
SZF15□-M5M	16.5	11	M5 x 0.8	3.5	7.5	7	0.8

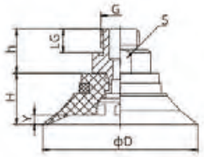


SZF20–30 Mounting hole

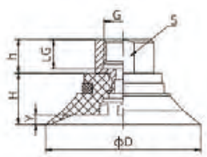


SZF20–30
Female Thread Connection

Model/Size	D	H	G	LG	h	S	Mounting hole
SZF20□-G1M	22	8	G1/8	6	7.8	13	1
SZF20□-G1F	22	8	G1/8	7	8	13	1
SZF25□-G1M	27	9	G1/8	6	7.8	13	1
SZF25□-G1F	27	9	G1/8	7	8	13	1
SZF30□-G1M	32	10	G1/8	6	7.8	13	1.2
SZF30□-G1F	32	10	G1/8	7	8	13	1.2



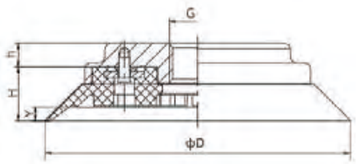
SZF40–50 Mounting hole



SZF40–50
Female Thread Connection

Model/Size	D	H	G	LG	h	S	Mounting hole
SZF40□-G1M	42	13	G1/8	6	12	17	1.2
SZF40□-G1F	42	13	G1/8	7	10	17	1.2
SZF50□-G2M	53	17.5	G1/4	9	17	24	3.2
SZF50□-G2F	53	17.5	G1/4	10	13	24	3.2
SZF50□-G3M	53	17.5	G3/8	10	18	24	3.2
SZF50□-G3F	53	17.5	G3/8	11	13	24	3.2

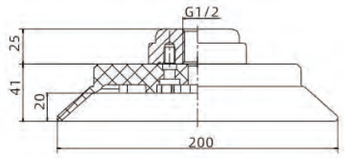
Main Dimension（mm）



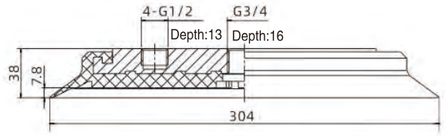
SZF75–150
Female Thread Connection

Model/Size	D	H	G	h	Y
SZF75□-G2F	77	13	G1/4	13	4
SZF110□-G4F	112	20	G1/2	9	6
SZF150□-G4F	152	26	G1/2	10	8

Pad with Joint



SZF200
Female Thread Connection



SZF300
Female Thread Connection

SZP
Vacuum Pad



How to Order?

Series No.	Pad Diameter	Pad Type	Pad Material	—	Lock Ring
SZP: SZP Series	02: Ø2 10: Ø10 25: Ø25 04: Ø4 13: Ø13 32: Ø32 06: Ø6 16: Ø16 40: Ø40 08: Ø8 20: Ø20 50: Ø50		N: NBR S : Silicone rubber		No: with lock ring X19: without lock ring *10 or above

Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Order Example: SZP Series Vacuum Pad, pad diameter φ10, flat type, NBR, without locking. Order code is: SZP10UN-X19

Lock Ring Represent

Series No.	Suitbale Pad Diameter
SZPL: SZPL Series	1: Ø10-Ø16 2: Ø20-Ø32 3: Ø40-Ø50

Order Example:
SZPL Series Lock Ring, suitable for pad diameter φ10. Order code is: SZPL1

Pad Type

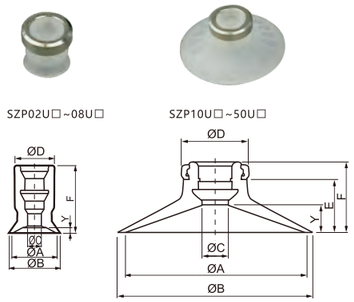
Pad material features: ◉ Good ○ OK × Not available

Material/Features	Hardness HS±5°	Operating Working Temperature Rage (°C)	Gasoline Resistance Oil benzene Resistance	Oil benzene Resistance	Alkali Resistance	Acid Resistance	Weather Asistance	Ozone Resistance	Wear Resistance	Water Resistance	Solvent Resistance
NBR	50°	0~120	◉	×	○	○	×	×	◉	○	×
Silicone Rubber	40°	-30~200	×	×	○	×	◉	◉	×	○	×

Type	Features	Pad Diameter Size				Materail
		Ø2-Ø8	Ø10-Ø16	Ø20-Ø32	Ø40-Ø50	
Flat Type (U) 	The workpiece surface is flat and no deform.	●	●	●	●	NBR Adsorb hard shell paper, plywood,iron plate and other general workpiece.
Flat Type with Ribs (C) 	The workpiece is easy to deform and reliably detach.		●	●	●	Silicone rubber Adsorb semiconductor, metal forming products, thin workpiece, food workpiece.
Bellows Type (B) 	No mounting buffer space and the suction surface is tilted.		●	●	●	PUR Adsorb hard shell paper, plywood, iron plate.
Deep Type (D) 	The workpiece surface is curve.		●	●	●	FKM Adsorb pharmaceutical workpiece.

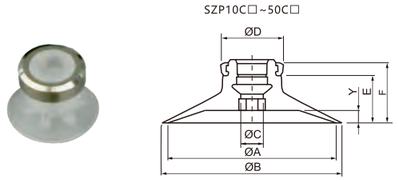
◎ Pad Type

Flat Type（U）



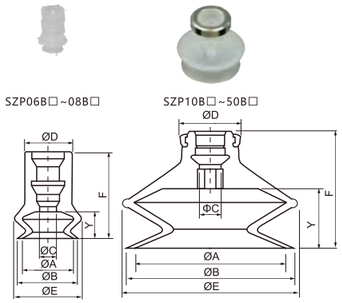
Model No.	ØA	ØB	ØC	ØD	E	F	Y
SZP02U□	2	2.6	1.2	7	—	12	0.8
SZP04U□	4	4.8	1.6	7	—	12	0.8
SZP06U□	6	7	2.5	7	—	12	0.8
SZP08U□	8	9	2.5	7	—	12	1
SZP10U□	10	12	5	13	7.7	12	3
SZP13U□	13	15	5	13	7.7	12	3
SZP16U□	16	18	5	13	8.2	12	3.5
SZP20U□	20	23	5	15	9.5	14	4
SZP25U□	25	28	5	15	9.5	14	4
SZP32U□	32	35	5	15	10	14.5	4.5
SZP40U□	40	43	7	18	13.7	18.5	6.5
SZP50U□	50	53	7	18	14.7	19.5	7.5

Flat Type with Ribs（C）



Model No.	ØA	ØB	ØC	ØD	E	F	Y
SZP10C□	10	12	4	13	7.7	12	1.7
SZP13C□	13	15	4	13	7.7	12	1.8
SZP16C□	16	18	4	13	8.2	12.5	1.2
SZP20C□	20	23	4	15	9.5	14	1.7
SZP25C□	25	28	4	15	9.5	14	1.8
SZP32C□	32	35	4	18	10	14.5	2.3
SZP40C□	40	43	7	18	13.7	18.5	3.3
SZP50C□	50	53	7	18	14.7	19.5	3.8

Bellows Type（B）



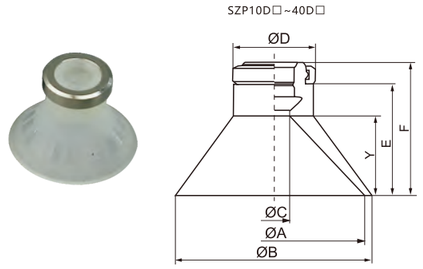
Model No.	ØA	ØB	ØC	ØD	E	F	Y
SZP06B□	6	7	2.5	7	9.1	13	4
SZP08B□	8	9	2.5	7	10.1	13	4
SZP10B□	10	12	4	13	13.8	16	5.5
SZP13B□	13	15	4	13	19	18.5	7.5
SZP16B□	16	18	4	13	21	20	8.5
SZP20B□	20	23	4	15	25	23.5	10.5
SZP25B□	25	28	4	15	28	24	10.5
SZP32B□	32	35	4	18	37	29	14
SZP40B□	40	43	7	18	48	34	16
SZP50B□	50	53	7	18	57	38	19

SZP Serie Vacuum Pad

6
SZP

◎ Pad Type

Deep Type（D）



Model No.	ØA	ØB	ØC	ØD	E	F	Y
SZP10D□	10	12	4	13	10.7	15	6
SZP16D□	16	18	4	13	11.7	16	7
SZP25D□	25	28	4	15	15.5	20	10
SZP40D□	40	43	7	18	24.2	29	17

SZP
Anti-static Vacuum Pad



How to Order?

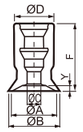
Series No.	Pad Diameter	Pad Type	Pad material
SZP：SZP Series	06：Ø6 08：Ø8 10：Ø10 13：Ø13	Code / Pad type U / Flat type B / Bellows type	GN: Anti–static NBR GS: Anti–static silicone rubber

Order Example:

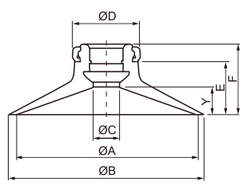
SZP series anti–static vacuum pad, pad diameter is ϕ6, flat type, anti–static NBR.
Order code is SZP06UGN.

Main Dimensions

SZP06U□–08U□

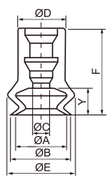


SZP10U□–13U□

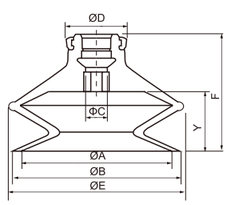


Model	ØA	ØB	ØC	ØD	E	F	Y
SZP06U□	6	7	2.5	7	–	12	0.8
SZP08U□	8	9	2.5	7	–	12	1
SZP10U□	10	12	5	13	7.7	12	3
SZP13U□	13	15	5	13	7.7	12	3

SZP06B□–08B□



SZP10B□–13B□



Model	ØA	ØB	ØC	ØD	E	F	Y
SZP06B□	6	7	2.5	7	9.1	13	4
SZP08B□	8	9	2.5	7	10.1	13	4
SZP10B□	10	12	4	13	13.8	16	5.5
SZP13B□	13	15	4	13	19	18.5	7.5

SZP Series Anti-static Vacuum Pad

How to order?

Series No.	Pad Diameter	Pad Type	Pad material
SZP2： SZP2 Series	①Pad diameter / Sandblasting specifications B04 / Ø4 / · B06 / Ø6 / · Sandblasting specifications: Increase the detachment of the workpiece	Code / Pad type MU / Flat type	GN: Anti–static NBR GS: Anti–static silicone rubber

Order Example:

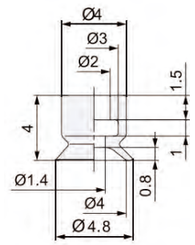
SZP2 series anti–static vacuum pad, pad diameter is ϕ6, flat type, anti–static NBR.
Order code is SZP–B06MUGN.

Dimensions

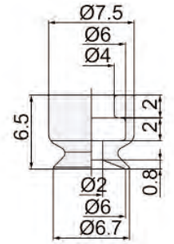


SZP2 Series

SZP2–B04MU□



SZP2–B06MU□



How to order?

Series No.	Pad Diameter	Pad Type	Pad material
SZP3: SZP3 Series	06：Ø6 08：Ø8	Code / Pad type B / Bellows type	GN: Anti–static NBR GS: Anti–static silicone rubber

Order Example:

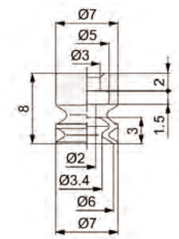
SZP3 series anti–static vacuum pad, pad diameter is ϕ6, bellows type, anti–static silicone rubber.
Order code is SZP3–06BGS.

Dimensions

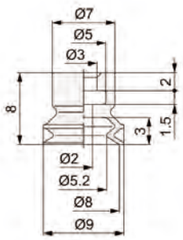


SZP3 Series

SZP3–06B□



SZP3–08B□



SZP
Mark-free Pad



Product Features

- Pad which reduces the number of adsorption marks left on workpieces by the rubber;
- The pad is made from mark–free NBR,and the NBR is then specially treated to minimize the transfer of rubber constituents to workpieces.

How to Order?

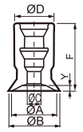
Series No.	Pad Diameter	Pad Type	Pad material	—	Lock ring
SZP: SZP Series	06：Ø6 10：Ø10 16：Ø16 25：Ø25 40：Ø40	Code | Pad type U | Flat type	LH: Mark–free		Blank: with lock ring X19: without lock ring

Order Example:

SZP series mark–free vacuum pad, pad diameter is ϕ16, plat type, mark–free, without lock ring
Order code is SZP16ULH–X19

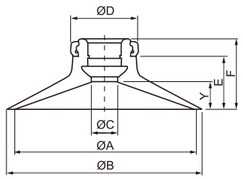
Main Dimensions

SZP06ULH



Model	ØA	ØB	ØC	ØD	E	F	Y
SZP06ULH	6	7	2.5	7	–	12	0.8
SZP10ULH	10	12	5	13	7.7	12	3
SZP16ULH	16	18	5	13	8.2	12.5	3.5
SZP25ULH	25	28	5	15	9.5	14	4
SZP40ULH	40	43	7	18	13.7	18.5	6.5

SZP10ULH–40ULH



SZP3E Series Mark-free Pad



How to order?

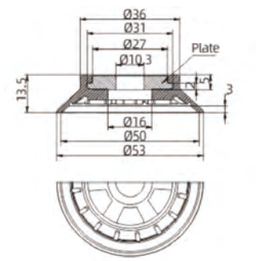
Series No.	—	Pad Diameter	Pad Type	Pad material	—	Plate
SZP3E：SZP3E Series		50：Ø50 63：Ø63 80：Ø80 100：Ø100 125：Ø125	Code | Pad type UM | Flat type with ribs	LH: Mark–free		Blank: without plate P: with plate

Order Example:

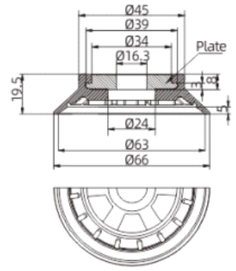
SZP3E series mark–free vacuum pad, pad diameter is ϕ50, plat type with ribs, mark–free, with plate.
Order code is SZP3E–50UMLH–P

Main Dimensions

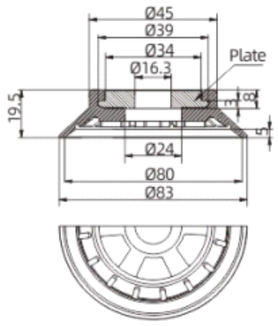
SZP3E–50UMLH–□



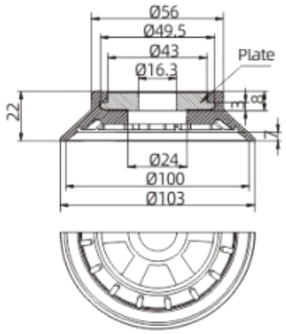
SZP3E–63UMLH–□



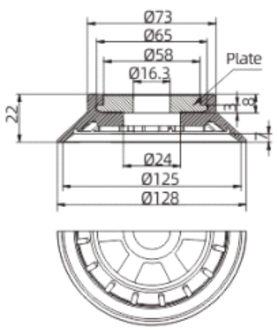
SZP3E–83UMLH–□



SZP3E–100UMLH–□



SZP3E–125UMLH–□



SZP

Traceless Resin Accessories



◎ Product Features

- No traces of suction marks (rubber components) remain on the workpiece，because the organ–type rubber suction cups are fitted with attachments made of PEEK material, thus avoiding contact between the workpiece and the rubber material and preventing the rubber components from spilling out ;
- The rubber component of the suction cup is attached to the workpiece ;
- SZP series organ type (Ø6~Ø32) is the most suitable ;

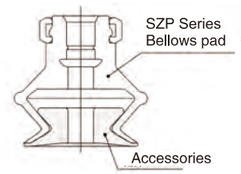
◎ How to Order?

Series No.	—	Applicable pad	Material
SZP 2: SZP 2 Series		06：SZP06B□ 10：SZP10B□ 16：SZP16B□ 20：SZP20B□ 25：SZP25B□ 32：SZP32B□	PK：PEEK

Order Example:

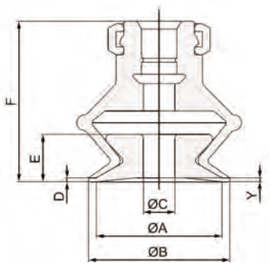
SZP series traceless resin accessories, suit for SZP06B, material is PEEK
Order code is SZP2–06PK

◎ Application



- This accessories can only be mounted inside EMC’s standard bellows pads
- Clean the product before using the accessories.
  This product is not cleaned after production.
  If the product is used in the condition , residual material may be left on workpieces.Clean before use

◎ Main Dimensions



Model	Applicable pad models	A	B	C	D	E	F	Y
SZP2–06PK	SZP06B□	6	7	1.6	0.5	3	13.5	0.5
SZP2–10PK	SZP10B□	10	12	3.5		3.5	16.5	
SZP2–16PK	SZP16B□	16	18	4		6	20.5	
SZP2–20PK	SZP20B□	20	22	8	1	8.5	24.5	1
SZP2–25PK	SZP25B□	25	27	10			25	
SZP2–32PK	SZP32B□	32	34			11.5	30	



SZPT
without Buffer



How to Order?

Series No.	Pad Diameter	Pad Type	Pad Material	—	Vacuum Port

SZPT: SZPT Series

02: Ø2 10: Ø10 25: Ø25
04: Ø4 13: Ø13 32: Ø32
06: Ø6 16: Ø16 40: Ø40
08: Ø8 20: Ø20 50: Ø50

N: NBR
S: Silicone rubber

Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Code	Port	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
A5	Male Thread	M5X0.8	•	•		
A6		M6X1	•	•	•	•
A8		M8X1			•	•
B4	Female Thread	M4X0.7	•			
B5		M5X0.8	•	•	•	
B6		M6X1		•	•	•
B8		M8X1.25			•	•
B01		Rc1/8		•	•	•

Order Example: SZPT Series Vacuum Pad without Buffer, pad diameter φ10, flat type, NBR, vacuum port M5X0.8 male thread.
Order code is: SZPT10UN-A5

Adapter Model Represent



Series No.	Suitbale Pad Diameter	—	Vacuum Port

SZPT: SZPT Series

1: Ø2~Ø8
2: Ø10~Ø16
3: Ø20~Ø32
3: Ø40~Ø50

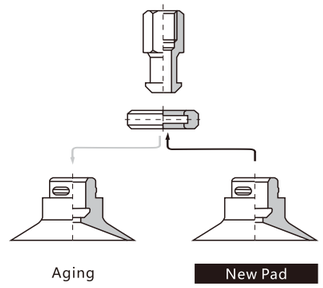
Code	Port	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
A5	Male Thread	M5X0.8	•	•		
A6		M6X1	•	•	•	•
A8		M8X1			•	•
B4	Female Thread	M4X0.7	•			
B5		M5X0.8	•	•	•	
B6		M6X1		•	•	•
B8		M8X1.25			•	•
B01		Rc1/8		•	•	•

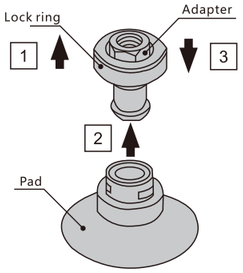
Order Example: SZPT Series Adapter, suitable for pad diameterφ10, vacuum port M5X0.8 male thread. Order code is: SZPT1-A5

Pad Replacement

Pads are rubber parts and aging is inevitable. The aging speed depends on factors such as use way, environment and temperature. Regular maintenance shall be carried out and immediate replacement shall occur in the event of any damage like splitting, tearing or wear. Do not damage the outer surface of the Pad when replacing it.

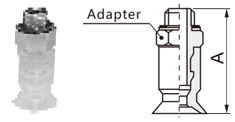
1.Snap the lock ring up and release the adapter.
2.Pull the adapter out of the old Pad.
3.Insert the new Pad into the latch ring, confirm that the Pad is fixed in place, and then insert the adapter.





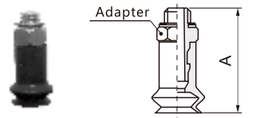
Pad Type

Flat Type (U) Ø2,Ø4,Ø6,Ø8



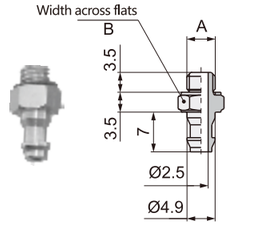
Model No.	A	Adapter
SZPT02U□-A5	19	SZPT1-A5
SZPT02U□-A6	20	SZPT1-A6
SZPT04U□-A5	19	SZPT1-A5
SZPT04U□-A6	20	SZPT1-A6
SZPT06U□-A5	19	SZPT1-A5
SZPT06U□-A6	20	SZPT1-A6
SZPT08U□-A5	19	SZPT1-A5
SZPT08U□-A6	20	SZPT1-A6

Bellows Type (B) Ø6,Ø8



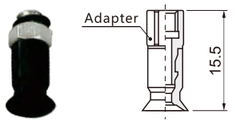
Model No.	A	Adapter
SZPT06B□-A5	20	SZPT1-A5
SZPT06B□-A6	21	SZPT1-A6
SZPT08B□-A5	20	SZPT1-A5
SZPT08B□-A6	21	SZPT1-A6

Adapter Model



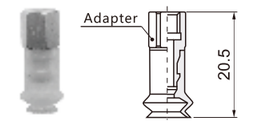
Model No.	A	B
SZPT1-A5	M5X0.8	7
SZPT1-A6	M6X1.0	8

Flat Type (U) Ø2,Ø4,Ø6,Ø8



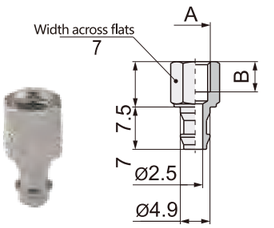
Model No.	Adapter
SZPT02U□-B4	SZPT1-B4
SZPT02U□-B5	SZPT1-B5
SZPT04U□-B4	SZPT1-B4
SZPT04U□-B5	SZPT1-B5
SZPT06U□-B4	SZPT1-B4
SZPT06U□-B5	SZPT1-B5
SZPT08U□-B4	SZPT1-B4
SZPT08U□-B5	SZPT1-B5

Bellows Type (B) Ø6,Ø8



Model No.	Adapter
SZPT06B□-B4	SZPT1-B4
SZPT06B□-B5	SZPT1-B5
SZPT08B□-B4	SZPT1-B4
SZPT08B□-B5	SZPT1-B5

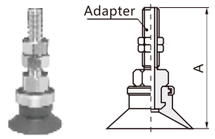
Adapter Model



Model No.	A	B
SZPT1-B4	M4X0.7	4
SZPT1-B5	M5X0.8	5

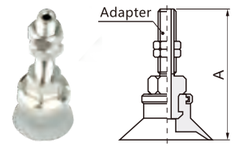
Pad Type

Flat Type (U) Ø10,Ø13,Ø16



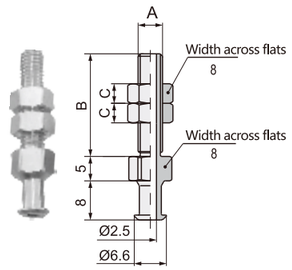
Model No.	A	Adapter
SZPT10U□-A5	38	SZPT2-A5
SZPT10U□-A6	43	SZPT2-A6
SZPT13U□-A5	38	SZPT2-A5
SZPT13U□-A6	43	SZPT2-A6
SZPT16U□-A5	38.5	SZPT2-A5
SZPT16U□-A6	43.5	SZPT2-A6

Flat Type with Ribs (C) Ø10,Ø13,Ø16



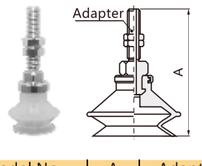
Model No.	A	Adapter
SZPT10C□-A5	38	SZPT2-A5
SZPT10C□-A6	43	SZPT2-A6
SZPT13C□-A5	38	SZPT2-A5
SZPT13C□-A6	43	SZPT2-A6
SZPT16C□-A5	38.5	SZPT2-A5
SZPT16C□-A6	43.5	SZPT2-A6

Adapter Model



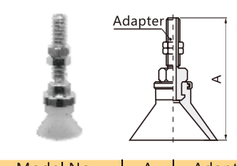
Model No.	A	B	C
SZPT2-A5	M5X0.8	21	4
SZPT2-A6	M6X1.0	26	3

Bellows Type (B) Ø10,Ø13,Ø16



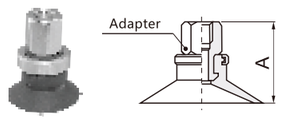
Model No.	A	Adapter
SZPT10B□-A5	42	SZPT2-A5
SZPT10B□-A6	47	SZPT2-A6
SZPT13B□-A5	44.5	SZPT2-A5
SZPT13B□-A6	49.5	SZPT2-A6
SZPT16B□-A5	46	SZPT2-A5
SZPT16B□-A6	51	SZPT2-A6

Deep Type (D) Ø10,Ø16



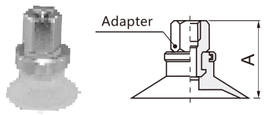
Model No.	A	Adapter
SZPT10D□-A5	41	SZPT2-A5
SZPT10D□-A6	46	SZPT2-A6
SZPT16D□-A5	42	SZPT2-A5
SZPT16D□-A6	47	SZPT2-A6

Flat Type (U) Ø10,Ø13,Ø16



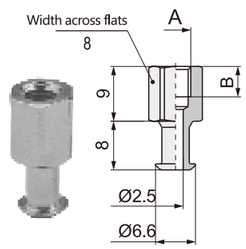
Model No.	A	Adapter
SZPT10U□-B5	21	SZPT2-B5
SZPT10U□-B6	21	SZPT2-B6
SZPT10U□-B01	27	SZPT2-B01
SZPT13U□-B5	21	SZPT2-B5
SZPT13U□-B6	21	SZPT2-B6
SZPT13U□-B01	27	SZPT2-B01
SZPT16U□-B5	21.5	SZPT2-B5
SZPT16U□-B6	21.5	SZPT2-B6
SZPT16U□-B01	27.5	SZPT2-B01

Flat Type with Ribs (C) Ø10,Ø13,Ø16



Model No.	A	Adapter
SZPT10C□-B5	21	SZPT2-B5
SZPT10C□-B6	21	SZPT2-B6
SZPT10C□-B01	27	SZPT2-B01
SZPT13C□-B5	21	SZPT2-B5
SZPT13C□-B6	21	SZPT2-B6
SZPT13C□-B01	27	SZPT2-B01
SZPT16C□-B5	21.5	SZPT2-B5
SZPT16C□-B6	21.5	SZPT2-B6
SZPT16C□-B01	27.5	SZPT2-B01

Adapter Model

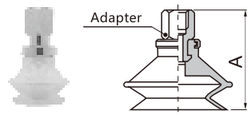


Model No.	A	B
SZPT2-B5	M5X0.8	5
SZPT2-B6	M6X1.0	6

SZPT Series without Buffer

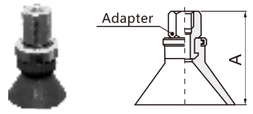
Pad Type

Bellows Type (B) Ø10,Ø13,Ø16



Model No.	A	Adapter
SZPT10B□-B5	25	SZPT2-B5
SZPT10B□-B6	25	SZPT2-B6
SZPT10B□-B01	31	SZPT2-B01
SZPT13B□-B5	27.5	SZPT2-B5
SZPT13B□-B6	27.5	SZPT2-B6
SZPT13B□-B01	33.5	SZPT2-B01
SZPT16B□-B5	29	SZPT2-B5
SZPT16B□-B6	29	SZPT2-B6
SZPT16B□-B01	35	SZPT2-B01

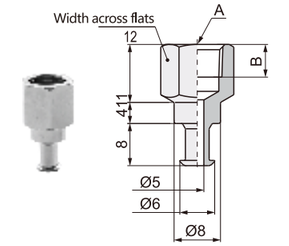
Deep Type (D) Ø10,Ø16



Model No.	A	Adapter
SZPT10D□-B5	24	SZPT2-B5
SZPT10D□-B6	24	SZPT2-B6
SZPT10D□-B01	30	SZPT2-B01
SZPT16D□-B5	25	SZPT2-B5
SZPT16D□-B6	25	SZPT2-B6
SZPT16D□-B01	31	SZPT2-B01

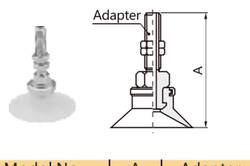
Adapter Model

Rc1/8



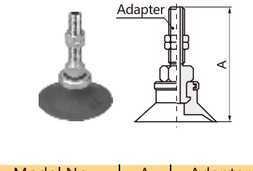
Model No.	A	B
SZPT2-B01	Rc1/8	6.2

Flat Type (U) Ø20,Ø25,Ø32



Model No.	A	Adapter
SZPT20U□-A6	45	SZPT3-A6
SZPT20U□-A8	40	SZPT3-A8
SZPT25U□-A6	45	SZPT3-A6
SZPT25U□-A8	40	SZPT3-A8
SZPT32U□-A6	45.5	SZPT3-A6
SZPT32U□-A8	40.5	SZPT3-A8

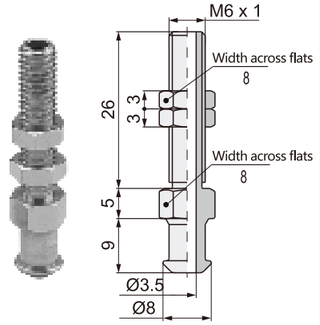
Flat Type with Ribs (C) Ø20,Ø25,Ø32



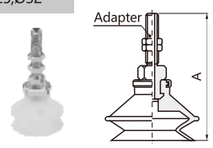
Model No.	A	Adapter
SZPT20C□-A6	45	SZPT3-A6
SZPT20C□-A8	40	SZPT3-A8
SZPT25C□-A6	45	SZPT3-A6
SZPT25C□-A8	40	SZPT3-A8
SZPT32C□-A6	45.5	SZPT3-A6
SZPT32C□-A8	40.5	SZPT3-A8

Adapter Model

SZPT3-A6

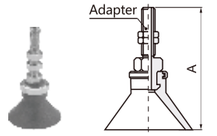


Bellows Type (B) Ø20,Ø25,Ø32



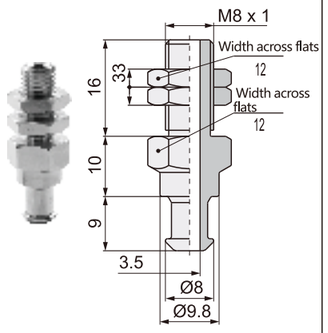
Model No.	A	Adapter
SZPT20B□-A6	54.5	SZPT3-A6
SZPT20B□-A8	49.5	SZPT3-A8
SZPT25B□-A6	55	SZPT3-A6
SZPT25B□-A8	50	SZPT3-A8
SZPT32B□-A6	60	SZPT3-A6
SZPT32B□-A8	55	SZPT3-A8

Deep Type (D) Ø25



Model No.	A	Adapter
SZPT25D□-A6	51	SZPT3-A6
SZPT25D□-A8	46	SZPT3-A8

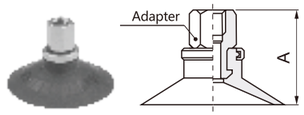
SZPT3-A8



6
SZPT without Buffer

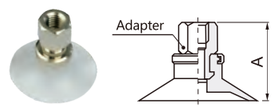
◎ Pad Type

Flat Type (U) Ø20,Ø25,Ø32



Model No.	A	Adapter
SZPT20U□-B5	23	SZPT3-B5
SZPT20U□-B6	23	SZPT3-B6
SZPT20U□-B8	29	SZPT3-B8
SZPT20U□-B01	29	SZPT3-B01
SZPT25U□-B5	23	SZPT3-B5
SZPT25U□-B6	23	SZPT3-B6
SZPT25U□-B8	29	SZPT3-B8
SZPT25U□-B01	29	SZPT3-B01
SZPT32U□-B5	23.5	SZPT3-B5
SZPT32U□-B6	23.5	SZPT3-B6
SZPT32U□-B8	29.5	SZPT3-B8
SZPT32U□-B01	29.5	SZPT3-B01

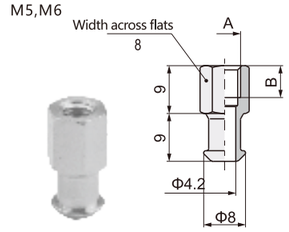
Flat Type with Ribs (C) Ø20,Ø25,Ø32



Model No.	A	Adapter
SZPT20C□-B5	23	SZPT3-B5
SZPT20C□-B6	23	SZPT3-B6
SZPT20C□-B8	29	SZPT3-B8
SZPT20C□-B01	29	SZPT3-B01
SZPT25C□-B5	23	SZPT3-B5
SZPT25C□-B6	23	SZPT3-B6
SZPT25C□-B8	29	SZPT3-B8
SZPT25C□-B01	29	SZPT3-B01
SZPT32C□-B5	23.5	SZPT3-B5
SZPT32C□-B6	23.5	SZPT3-B6
SZPT32C□-B8	29.5	SZPT3-B8
SZPT32C□-B01	29.5	SZPT3-B01

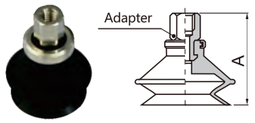
Adapter Model

M5,M6



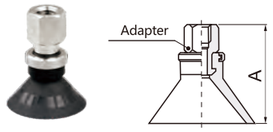
Model No.	A	B
SZPT3-B5	M5X0.6	5
SZPT3-B6	M6X1.0	6

Bellows Type (B) Ø20,Ø25,Ø32



Model No.	A	Adapter
SZPT20B□-B5	32.5	SZPT3-B5
SZPT20B□-B6	32.5	SZPT3-B6
SZPT20B□-B8	38.5	SZPT3-B8
SZPT20B□-B01	38.5	SZPT3-B01
SZPT25B□-B5	32.5	SZPT3-B5
SZPT25B□-B6	32.5	SZPT3-B6
SZPT25B□-B8	38.5	SZPT3-B8
SZPT25B□-B01	38.5	SZPT3-B01
SZPT32B□-B5	38	SZPT3-B5
SZPT32B□-B6	38	SZPT3-B6
SZPT32B□-B8	44	SZPT3-B8
SZPT32B□-B01	44	SZPT3-B01

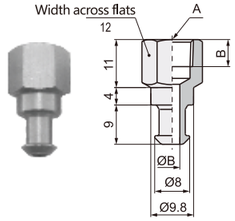
Deep Type (D) Ø25



Model No.	A	Adapter
SZPT25D□-B5	29	SZPT3-B5
SZPT25D□-B6	29	SZPT3-B6
SZPT25D□-B8	35	SZPT3-B8
SZPT25D□-B01	35	SZPT3-B01

Adapter Model

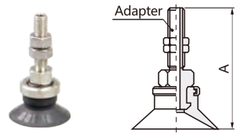
M8, Rc1/8



Model No.	A	B
SZPT3-B8	M8X1.25	3.5
SZPT3-B01	Rc1/8	6.2

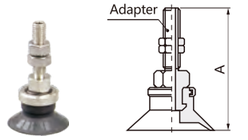
◎ Pad Type

Flat Type (U) Ø40,Ø50



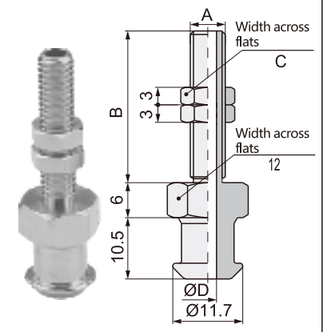
Model No.	A	Adapter
SZPT40U□-A6	50.5	SZPT4-A6
SZPT40U□-A8	40.5	SZPT4-A8
SZPT50U□-A6	51.5	SZPT4-A6
SZPT50U□-A8	41.5	SZPT4-A8

Flat Type with Ribs (C) Ø40,Ø50



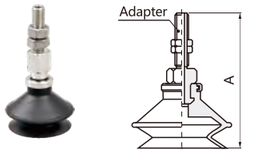
Model No.	A	Adapter
SZPT40C□-A6	50.5	SZPT4-A6
SZPT40C□-A8	40.5	SZPT4-A8
SZPT50C□-A6	51.5	SZPT4-A6
SZPT50C□-A8	41.5	SZPT4-A8

Adapter Model



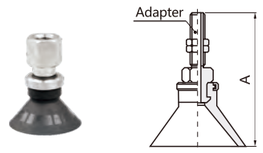
Model No.	A	B	C	D
SZPT4-A6	M6X1	26	8	3
SZPT4-A8	M8X1	16	12	4.5

Bellows Type (B) Ø40,Ø50



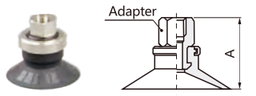
Model No.	A	Adapter
SZPT40B□-A6	66	SZPT3-A6
SZPT40B□-A8	56	SZPT3-A8
SZPT50B□-A6	70	SZPT3-A6
SZPT50B□-A8	60	SZPT3-A8

Deep Type (D) Ø40



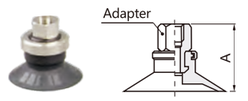
Model No.	A	Adapter
SZPT40D□-A6	61	SZPT3-A6
SZPT40D□-A8	51	SZPT3-A8

Flat Type (U) Ø40,Ø50



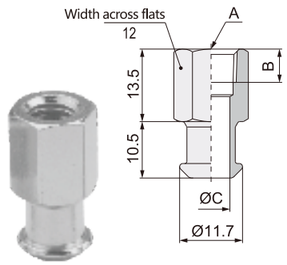
Model No.	A	Adapter
SZPT40U□-B6	32	SZPT4-B6
SZPT40U□-B8	32	SZPT4-B8
SZPT40U□-B01	32	SZPT4-B01
SZPT50U□-B6	33	SZPT4-B6
SZPT50U□-B8	33	SZPT4-B8
SZPT50U□-B01	33	SZPT4-B01

Flat Type with Ribs (C) Ø40,Ø50



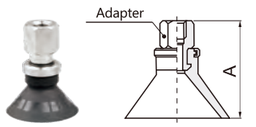
Model No.	A	Adapter
SZPT40C□-B6	32	SZPT4-B6
SZPT40C□-B8	32	SZPT4-B8
SZPT40C□-B01	32	SZPT4-B01
SZPT50C□-B6	33	SZPT4-B6
SZPT50C□-B8	33	SZPT4-B8
SZPT50C□-B01	33	SZPT4-B01

Adapter Model



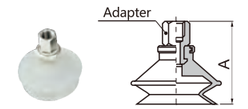
Model No.	A	B	C
SZPT4-B6	M6X1.0	6	4.9
SZPT4-B8	M8X1.25	8	7.5
SZPT4-B01	Rc1/8	6.2	7

Deep Type (D) Ø40



Model No.	A	Adapter
SZPT40D□-B6	29	SZPT4-B6
SZPT40D□-B8	35	SZPT4-B8
SZPT40D□-B01	35	SZPT4-B01

Bellows Type (B) Ø40,Ø50



Model No.	A	Adapter
SZPT40B□-B6	32.5	SZPT4-B6
SZPT40B□-B8	38.5	SZPT4-B8
SZPT40B□-B01	38.5	SZPT4-B01
SZPT50B□-B6	32.5	SZPT4-B6
SZPT50B□-B8	38.5	SZPT4-B8
SZPT50B□-B01	38.5	SZPT4-B01

SZPT
with Buffer



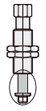
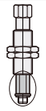
How to Order?

Series No.	Pad Diameter	Pad Type	Pad Material	Buffer Type	Buffer Stroke	—	Vacuum Port	—	Mounting

SZPT: SZPT Series

02:Ø2 16:Ø16
04:Ø4 20:Ø20
06:Ø6 25:Ø25
08:Ø8 32:Ø32
10:Ø10 40:Ø40
13:Ø13 50:Ø50

N: NBR
S: Silicone rubber

Code	Buffer Type	
Rotating J		Cylindrical stainless steel buffer bar in the process of handling the workpiece will be deflected, suitable for handling without directional work.
Non-Rotating K		Hexagonal stainless steel buffer bar in the handling process of workpiece deflection, suitable for handling direction requirements of the workpiece .

Code	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
6	•		
10	•	•	•
15	•		
20		•	•
25	•		
30		•	•
40		•	
50		•	•

Code	Thread Diameter	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
A8	M8×1.0	•		
A10	M10×1.0		•	
A14	M14×1.0			•

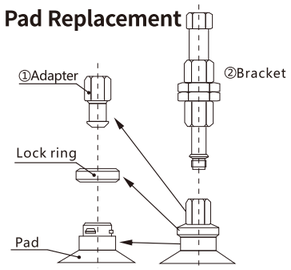
Code	Symbol	Thread Diameter Port Size	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
B3	Male Thread	M30.5	•		
B5		M50.8	•	•	•
B01		Rc1/8			•
N4	Barb Fitting	Ø4 nylon tube	•		
N6		Ø6 nylon tube		•	•
U4		Ø4 Pu tube	•		
U6		Ø6 Pu tube		•	•
04	Quick Fitting	Ø4 tube	•	•	
06		Ø6 tube	•	•	•
08		Ø8 tube			•

Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Spring Reactive Force (N)		
Pad Diameter	At 0 Stroke	At Full Stroke
Ø2~Ø8	0.8N	1.2N
Ø10~Ø32	1.0N	3.0N
Ø40~Ø50	2.0N	5.0N

Order Example: SZPT Series Vacuum Pad With Buffer, pad diameter Φ10, flat type, NBR, non-rotating, buffer stroke 20mm, vacuum port M5X0.8 male thread,mounting thread M10x1.0. Order code is: SZPT10UNK20-B5-A10

Pad Replacement



Pad Model SZP T 13 UN K10 - 06 - A10

Symbol	Pad Diameter	Mounting Thread
2	10, 16	B5
3	20, 32	
4	40, 50	B8

Symbol	Thread Diameter
1	A8
2	A10
3	A14

Symbol	Pad Diameter
1	02, 08
2	10, 16
3	20, 32
4	40, 50

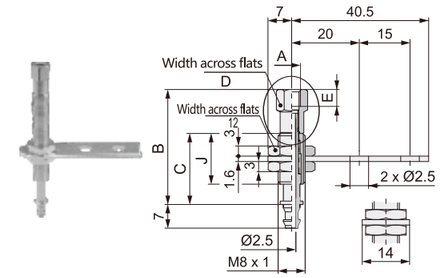
①Adapter SZP T 2 - B5

②Bracket SZP B 2 - K10 - 06

①+② SZP T 2 - K10 - 06 - A0

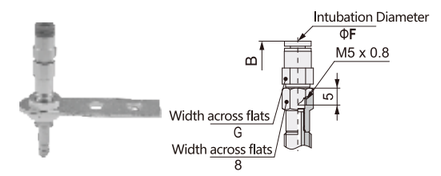
Bracket Model

Vacuum Inlet: Female Thread



Model No.	A	B	C	D	E	J
SZPT1J6-B3-A8	M3X0.5	32	21	6	3	15
SZPT1J6-B5-A8	M5X0.8	34	21	8	5	
SZPT1J10-B3-A8	M3X0.5	65	54	6	3	45
SZPT1J10-B5-A8	M5X0.8	67	54	8	5	
SZPT1J15-B3-A8	M3X0.5	70	59	6	3	
SZPT1J15-B5-A8	M5X0.8	72	59	8	5	
SZPT1J25-B3-A8	M3X0.5	80	69	6	3	
SZPT1J25-B5-A8	M5X0.8	82	69	8	5	

Vacuum Inlet: One-Touch Type



Model No.	B	C	F	G	J
SZPT1J6-04-A8	47.9	21	4	8	15
SZPT1J6-06-A8	48.7	21	6	10	
SZPT1J10-04-A8	80.9	54	4	8	45
SZPT1J10-06-A8	81.7	54	6	10	
SZPT1J15-04-A8	85.9	59	4	8	
SZPT1J15-06-A8	86.7	59	6	10	
SZPT1J25-04-A8	95.9	69	4	8	
SZPT1J25-06-A8	96.7	69	6	10	

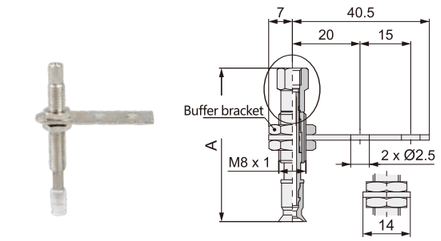
Vacuum Inlet: Barb Type



Model No.	B	C	H	J
SZPT1J6-N4-A8	35	21	2.8	15
SZPT1J6-U4-A8	35	21	3.4	
SZPT1J10-N4-A8	68	54	2.8	45
SZPT1J10-U4-A8	68	54	3.4	
SZPT1J15-N4-A8	73	59	2.8	
SZPT1J15-U4-A8	73	59	3.4	
SZPT1J25-N4-A8	83	69	2.8	
SZPT1J25-U4-A8	83	69	3.4	

Flat Type (U) ○Pad: 02, 04, 06, 08

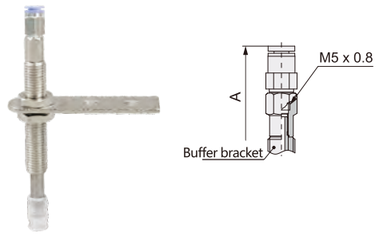
Vacuum Inlet: Female Thread



Model No.	A	缓冲Bracket
SZPT○U□J6-B3-A8	44	SZPT1J6-B3-A8
SZPT○U□J6-B5-A8	46	SZPT1J6-B5-A8
SZPT○U□J10-B3-A8	77	SZPT1J10-B3-A8
SZPT○U□J10-B5-A8	79	SZPT1J10-B5-A8
SZPT○U□J15-B3-A8	82	SZPT1J15-B3-A8
SZPT○U□J15-B5-A8	84	SZPT1J15-B5-A8
SZPT○U□J25-B3-A8	92	SZPT1J25-B3-A8
SZPT○U□J25-B5-A8	94	SZPT1J25-B5-A8

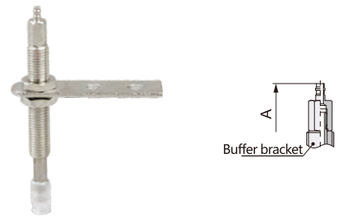
◎ Flat Type（U）○Pad：02，04，06，08

Vacuum Inlet：One-Touch Type



Model No.	A	Buffer Bracket
SZPT○U□J6-04-A8	44	SZPT1J6-04-A8
SZPT○U□J6-06-A8	46	SZPT1J6-06-A8
SZPT○U□J10-04-A8	77	SZPT1J10-04-A8
SZPT○U□J10-06-A8	79	SZPT1J10-06-A8
SZPT○U□J15-04-A8	82	SZPT1J15-04-A8
SZPT○U□J15-06-A8	84	SZPT1J15-065-A8
SZPT○U□J25-04-A8	92	SZPT1J25-04-A8
SZPT○U□J25-06-A8	94	SZPT1J25-06-A8

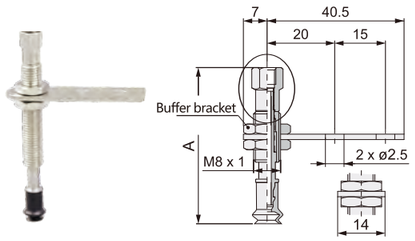
Vacuum Inlet：Barb Type



Model No.	A	Buffer Bracket
SZPT○U□J6-N4-A8	47	SZPT1J6-N4-A8
SZPT○U□J6-U6-A8	47	SZPT1J6-U4-A8
SZPT○U□J10-N4-A8	80	SZPT1J10-N4-A8
SZPT○U□J10-U6-A8	80	SZPT1J10-U4-A8
SZPT○U□J15-N4-A8	85	SZPT1J15-N4-A8
SZPT○U□J15-U6-A8	85	SZPT1J15-U4-A8
SZPT○U□J25-N4-A8	95	SZPT1J25-N4-A8
SZPT○U□J25-U6-A8	95	SZPT1J25-U4-A8

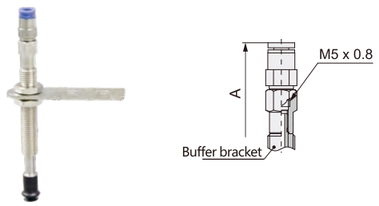
◎ Bellows Type（B）○Pad：06，08

Vacuum Inlet：Female Thread



Model No.	A	Buffer Bracket
SZPT○B□J6-B3-A8	45	SZPT1J6-B3-A8
SZPT○B□J6-B5-A8	47	SZPT1J6-B5-A8
SZPT○B□J10-B3-A8	78	SZPT1J10-B3-A8
SZPT○B□J10-B5-A8	80	SZPT1J10-B5-A8
SZPT○B□J15-B3-A8	83	SZPT1J15-B3-A8
SZPT○B□J15-B5-A8	84	SZPT1J15-B5-A8
SZPT○B□J25-B3-A8	93	SZPT1J25-B3-A8
SZPT○B□J25-B5-A8	95	SZPT1J25-B5-A8

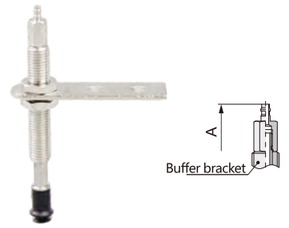
Vacuum Inlet：One-Touch Type



Model No.	A	Buffer Bracket
SZPT○B□J6-04-A8	44	SZPT1J6-04-A8
SZPT○B□J6-06-A8	46	SZPT1J6-06-A8
SZPT○B□J10-04-A8	77	SZPT1J10-04-A8
SZPT○B□J10-06-A8	79	SZPT1J10-06-A8
SZPT○B□J15-04-A8	82	SZPT1J15-04-A8
SZPT○B□J15-06-A8	84	SZPT1J15-06-A8
SZPT○B□J25-04-A8	92	SZPT1J25-04-A8
SZPT○B□J25-06-A8	94	SZPT1J25-06-A8

◎ Bellows Type（B）○Pad：06，08

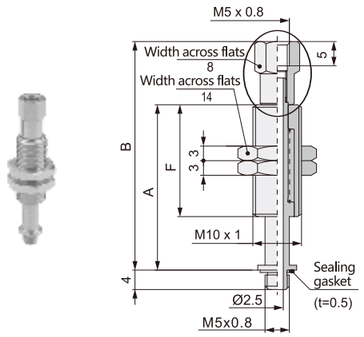
Vacuum Inlet：Barb Type



Model No.	A	Buffer Bracket
SZPT○B□J6-N4-A8	44	SZPT1J6-N4-A8
SZPT○B□J6-U4-A8	46	SZPT1J6-U4-A8
SZPT○B□J10-N4-A8	77	SZPT1J10-N4-A8
SZPT○B□J10-U4-A8	79	SZPT1J10-U4-A8
SZPT○B□J15-N4-A8	82	SZPT1J15-N4-A8
SZPT○B□J15-U4-A8	84	SZPT1J15-U4-A8
SZPT○B□J25-N4-A8	92	SZPT1J25-N4-A8
SZPT○B□J25-U4-A8	94	SZPT1J25-U4-A8

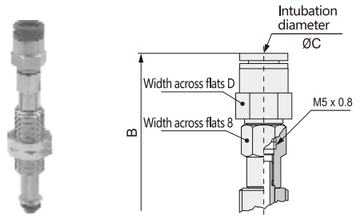
◎ SZPB2 Vertical Vacuum Port

Vacuum Inlet：Female Thread



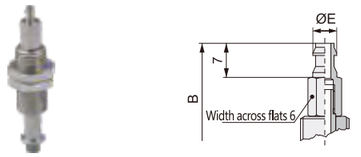
Model No.	A	B	F
SZPB2J10-B5	34	47	23
SZPB2J20-B5	72	85	51
SZPB2J30-B5	82	95	
SZPB2J40-B5	118	131	77
SZPB2J50-B5	128	141	

Vacuum Inlet：One-Touch Type



Model No.	A	B	C	D	F
SZPB2J10-04	34	60.9	4	8	23
SZPB2J10-06	34	61.7	6	10	
SZPB2J20-04	72	98.9	4	8	51
SZPB2J20-06	72	99.7	6	10	
SZPB2J30-04	82	108.9	4	8	
SZPB2J30-06	82	109.7	6	10	
SZPB2J40-04	118	144.9	4	8	77
SZPB2J40-06	118	145.7	6	10	
SZPB2J50-04	128	154.9	4	8	
SZPB2J50-06	128	155.7	6	10	

Vacuum Inlet：Barb Type

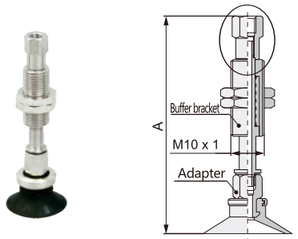


Model No.	A	B	E	F
SZPB2J10-N6	34	49	4.5	23
SZPB2J10-U6	34	49	4.95	
SZPB2J20-N6	72	87	4.5	51
SZPB2J20-U6	72	87	4.95	
SZPB2J30-N6	82	97	4.5	
SZPB2J30-U6	82	97	4.95	
SZPB2J40-N6	118	133	4.5	77
SZPB2J40-U6	118	133	4.95	
SZPB2J50-N6	128	143	4.5	
SZPB2J50-U6	128	143	4.95	

SZPT Series with Buffer

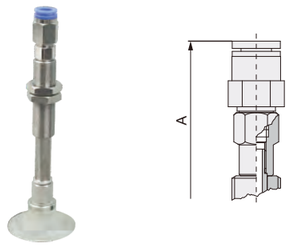
◎ Flat Type（U）○ Pad：10,13,16,20,25,32

Vacuum Inlet： Female Thread



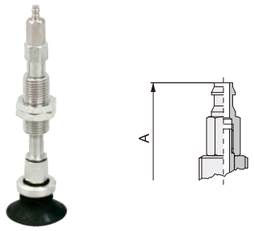
Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○U□J10-B5-A10	68.5	68.5	69	70.5	70.5	71	SZPB2J10-B5
SZPT○U□J20-B5-A10	106.5	106.5	107	108.5	108.5	109	SZPB2J20-B5
SZPT○U□J30-B5-A10	116.5	116.5	117	118.5	118.5	119	SZPB2J30-B5
SZPT○U□J40-B5-A10	152.5	152.5	153	154.5	154.5	155	SZPB2J40-B5
SZPT○U□J50-B5-A10	162.5	162.5	163	164.5	164.5	165	SZPB2J50-B5
Adapter	SZPT2-B5			SZPT3-B5			

Vacuum Inlet： One-Touch Type



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○U□J10-04-A10	82.5	82.5	83	84.5	84.5	85	SZPB2J10-04
SZPT○U□J10-06-A10	83.5	83.5	84	85.5	85.5	86	SZPB2J10-06
SZPT○U□J20-04-A10	120.5	120.5	121	122.5	122.5	123	SZPB2J20-04
SZPT○U□J20-06-A10	121.5	121.5	122	123.5	123.5	124	SZPB2J20-06
SZPT○U□J30-04-A10	130.5	130.5	131	132.5	132.5	133	SZPB2J30-04
SZPT○U□J30-06-A10	131.5	131.5	132	133.5	133.5	134	SZPB2J30-06
SZPT○U□J40-04-A10	166.5	166.5	167	168.5	168.5	169	SZPB2J40-04
SZPT○U□J40-06-A10	167.5	167.5	168	169.5	169.5	170	SZPB2J40-06
SZPT○U□J50-04-A10	176.5	176.5	1747	178.5	178.5	179	SZPB2J50-04
SZPT○U□J50-06-A10	177.5	177.5	177	179.5	179.5	180	SZPB2J50-06
Adapter	SZPT2-B5			SZPT3-B5			

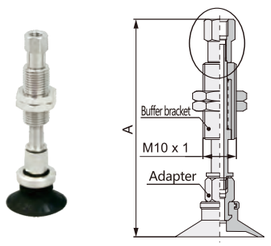
Vacuum Inlet： Barb Type



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○U□J10-N6-A10	70.5	70.5	71	72.5	72.5	73	SZPB2J10-N6
SZPT○U□J10-U6-A10	70.5	70.5	71	72.5	72.5	73	SZPB2J10-U6
SZPT○U□J20-N6-A10	108.5	108.5	109	110.5	110.5	111	SZPB2J20-N6
SZPT○U□J20-U6-A10	108.5	108.5	109	110.5	110.5	111	SZPB2J20-U6
SZPT○U□J30-N6-A10	118.5	118.5	119	120.5	120.5	121	SZPB2J30-N6
SZPT○U□J30-U6-A10	118.5	118.5	119	120.5	120.5	121	SZPB2J30-U6
SZPT○U□J40-N6-A10	154.5	154.5	155	156.5	156.5	157	SZPB2J40-N6
SZPT○U□J40-U6-A10	154.5	154.5	155	156.5	156.5	157	SZPB2J40-U6
SZPT○U□J50-N6-A10	164.5	164.5	165	166.5	166.5	167	SZPB2J50-N6
SZPT○U□J50-U6-A10	164.5	164.5	165	166.5	166.5	167	SZPB2J50-U6
Adapter	SZPT2-B5			SZPT3-B5			

◎ Flat Type with Ribs（C）○Pad：10,13,16,20,25,32

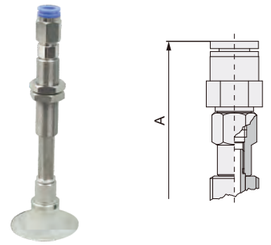
Vacuum Inlet： Female Thread



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○C□J10-B5-A10	68.5	68.5	69	70.5	70.5	71	SZPB2J10-B5
SZPT○C□J20-B5-A10	106.5	106.5	107	108.5	108.5	109	SZPB2J20-B5
SZPT○C□J30-B5-A10	116.5	116.5	117	118.5	118.5	119	SZPB2J30-B5
SZPT○C□J40-B5-A10	152.5	152.5	153	154.5	154.5	155	SZPB2J40-B5
SZPT○C□J50-B5-A10	162.5	162.5	163	164.5	164.5	165	SZPB2J50-B5
Adapter	SZPT2-B5			SZPT3-B5			

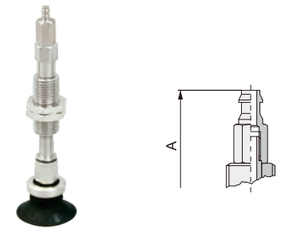
◎ Flat Type with Ribs（C）○Pad：10,13,16,20,25,32

Vacuum Inlet： One-Touch Type



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○C□J10-04-A10	82.5	82.5	83	84.5	84.5	85	SZPB2J10-04
SZPT○C□J10-06-A10	83.5	83.5	84	85.5	85.5	86	SZPB2J10-06
SZPT○C□J20-04-A10	120.5	120.5	121	122.5	122.5	123	SZPB2J20-04
SZPT○C□J20-06-A10	121.5	121.5	122	123.5	123.5	124	SZPB2J20-06
SZPT○C□J30-04-A10	130.5	130.5	131	132.5	132.5	133	SZPB2J30-04
SZPT○C□J30-06-A10	131.5	131.5	132	133.5	133.5	134	SZPB2J30-06
SZPT○C□J40-04-A10	166.5	166.5	167	168.5	168.5	169	SZPB2J40-04
SZPT○C□J40-06-A10	167.5	167.5	168	169.5	169.5	170	SZPB2J40-06
SZPT○C□J50-04-A10	176.5	176.5	1747	178.5	178.5	179	SZPB2J50-04
SZPT○C□J50-06-A10	177.5	177.5	177	179.5	179.5	180	SZPB2J50-06
Adapter	SZPT2-B5			SZPT3-B5			

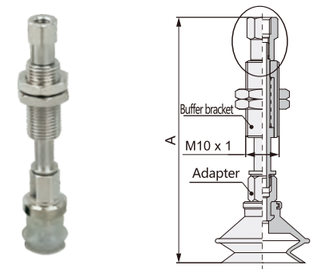
Vacuum Inlet： Barb Type



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○C□J10-N6-A10	70.5	70.5	71	72.5	72.5	73	SZPB2J10-N6
SZPT○C□J10-U6-A10	70.5	70.5	71	72.5	72.5	73	SZPB2J10-U6
SZPT○C□J20-N6-A10	108.5	108.5	109	110.5	110.5	111	SZPB2J20-N6
SZPT○C□J20-U6-A10	108.5	108.5	109	110.5	110.5	111	SZPB2J20-U6
SZPT○C□J30-N6-A10	118.5	118.5	119	120.5	120.5	121	SZPB2J30-N6
SZPT○C□J30-U6-A10	118.5	118.5	119	120.5	120.5	121	SZPB2J30-U6
SZPT○C□J40-N6-A10	154.5	154.5	155	156.5	156.5	157	SZPB2J40-N6
SZPT○C□J40-U6-A10	154.5	154.5	155	156.5	156.5	157	SZPB2J40-U6
SZPT○C□J50-N6-A10	164.5	164.5	165	166.5	166.5	167	SZPB2J50-N6
SZPT○C□J50-U6-A10	164.5	164.5	165	166.5	166.5	167	SZPB2J50-U6
Adapter	SZPT2-B5			SZPT3-B5			

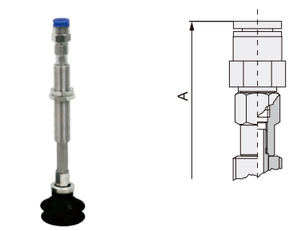
◎ Bellows Type（B）○Pad：10,13,16,20,25,32

Vacuum Inlet： Female Thread



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○B□J10-B5-A10	72.5	75	76.5	80	80.5	85.5	SZPB2J10-B5
SZPT○B□J20-B5-A10	110.5	113	114.5	118.5	118.5	123.5	SZPB2J20-B5
SZPT○B□J30-B5-A10	120.5	123	124.5	28.5	128.5	133.5	SZPB2J30-B5
SZPT○B□J40-B5-A10	156.5	159	160.5	164.5	164.5	169.5	SZPB2J40-B5
SZPT○B□J50-B5-A10	166.5	169	170.5	174.5	174.5	179.5	SZPB2J50-B5
Adapter	SZPT2-B5			SZPT3-B5			

Vacuum Inlet： One-Touch Type



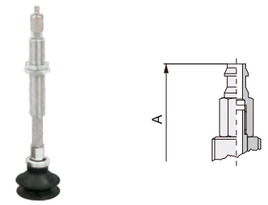
Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○B□J10-04-A10	86.5	89	90.5	94	94.5	99.5	SZPB2J10-04
SZPT○B□J10-06-A10	87.5	90	91.5	95	95.5	100.5	SZPB2J10-06
SZPT○B□J20-04-A10	124.5	127	128.5	132	132.5	137.5	SZPB2J20-04
SZPT○B□J20-06-A10	125.5	128	129.5	133	133.5	138.5	SZPB2J20-06
SZPT○B□J30-04-A10	134.5	137	138.5	142	142.5	147.5	SZPB2J30-04
SZPT○B□J30-06-A10	135.5	138	139.5	143	143.5	148.5	SZPB2J30-06
SZPT○B□J40-04-A10	170.5	173	174.5	178	178.5	183.5	SZPB2J40-04
SZPT○B□J40-06-A10	171.5	174	175.5	179	179.5	184.5	SZPB2J40-06
SZPT○B□J50-04-A10	180.5	183	184.5	188	188.5	193.5	SZPB2J50-04
SZPT○B□J50-06-A10	181.5	184	185.5	189	189.5	194.5	SZPB2J50-06
Adapter	SZPT2-B5			SZPT3-B5			

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SZPT with Buffer

◎ Bellows Type（B）○Pad：10,13,16,20,25,32

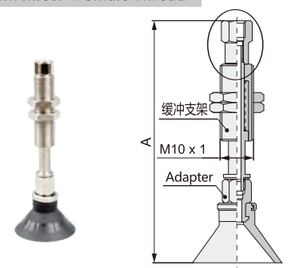
Vacuum Inlet：Barb Type



Model No.	○Pad A						Buffer Bracket
	10	13	16	20	25	32	
SZPT○B□J10-N6-A10	74.5	77	78.5	82	82.5	87.5	SZPB2J10-N6
SZPT○B□J10-U6-A10	74.5	77	78.5	82	82.5	87.5	SZPB2J10-U6
SZPT○B□J20-N6-A10	112.5	115	116.5	120	120.5	125.5	SZPB2J20-N6
SZPT○B□J20-U6-A10	112.5	115	116.5	120	120.5	125.5	SZPB2J20-U6
SZPT○B□J30-N6-A10	122.5	125	126.5	130	130.5	135.5	SZPB2J30-N6
SZPT○B□J30-U6-A10	122.5	125	126.5	130	130.5	135.5	SZPB2J30-U6
SZPT○B□J40-N6-A10	158.5	161	162.5	166	166.5	171.5	SZPB2J40-N6
SZPT○B□J40-U6-A10	158.5	161	162.5	166	166.5	171.5	SZPB2J40-U6
SZPT○B□J50-N6-A10	168.5	171	172.5	176	176.5	181.5	SZPB2J50-N6
SZPT○B□J50-U6-A10	168.5	171	172.5	176	176.5	181.5	SZPB2J50-U6
Adapter	SZPT2-B5			SZPT3-B5			

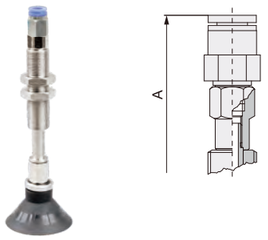
◎ Deep Type（D）○Pad：10,16,25

Vacuum Inlet：Female Thread



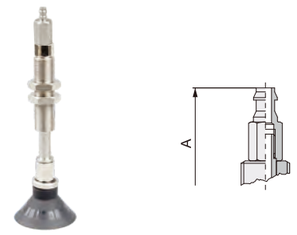
Model No.	○Pad A			Buffer Bracket
	10	16	25	
SZPT○D□J10-B5-A10	71.5	72.5	76.5	SZPB2J10-B5
SZPT○D□J20-B5-A10	109.5	110.5	114.5	SZPB2J20-B5
SZPT○D□J30-B5-A10	119.5	120.5	124.5	SZPB2J30-B5
SZPT○D□J40-B5-A10	155.5	156.5	160.5	SZPB2J40-B5
SZPT○D□J50-B5-A10	165.5	166.5	170.5	SZPB2J50-B5
Adapter	SZPT2-B5		SZPT3-B5	

Vacuum Inlet：One-Touch Type



Model No.	○Pad A			Buffer Bracket
	10	16	25	
SZPT○D□J10-04-A10	85.5	86.5	90.5	SZPB2J10-04
SZPT○D□J10-06-A10	86.5	87.5	91.5	SZPB2J10-06
SZPT○D□J20-04-A10	123.5	124.5	128.5	SZPB2J20-04
SZPT○D□J20-06-A10	124.5	125.5	129.5	SZPB2J20-06
SZPT○D□J30-04-A10	133.5	134.5	138.5	SZPB2J30-04
SZPT○D□J30-06-A10	134.5	135.5	139.5	SZPB2J30-06
SZPT○D□J40-04-A10	169.5	170.5	174.5	SZPB2J40-04
SZPT○D□J40-06-A10	170.5	179.5	175.5	SZPB2J40-06
SZPT○D□J50-04-A10	179.5	180.5	184.5	SZPB2J50-04
SZPT○D□J50-06-A10	180.5	181.5	185.5	SZPB2J50-06
Adapter	SZPT2-B5		SZPT3-B5	

Vacuum Inlet：Barb Type

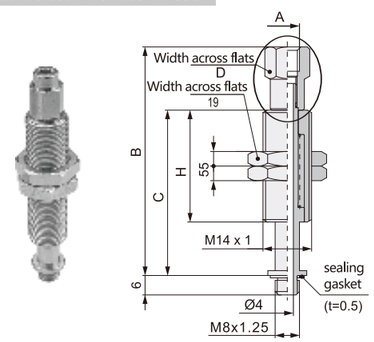


Model No.	○Pad A			Buffer Bracket
	10	16	25	
SZPT○D□J10-N-6A10	73.5	74.5	78.5	SZPB2J10-N6
SZPT○D□J10-U6-A10	73.5	74.5	78.5	SZPB2J10-U6
SZPT○D□J20-N6-A10	111.5	112.5	116.5	SZPB2J20-N6
SZPT○D□J20-U6-A10	111.5	112.5	116.5	SZPB2J20-U6
SZPT○D□J30-N6-A10	121.5	122.5	126.5	SZPB2J30-N6
SZPT○D□J30-U6-A10	121.5	122.5	126.5	SZPB2J30-U6
SZPT○D□J40-N6-A10	157.5	158.5	162.5	SZPB2J40-N6
SZPT○D□J40-U6-A10	157.5	158.5	162.5	SZPB2J40-U6
SZPT○D□J50-N6-A10	167.5	168.5	172.5	SZPB2J50-N6
SZPT○D□J50-U6-A10	167.5	168.5	172.5	SZPB2J50-U6
Adapter	SZPT2-B5		SZPT3-B5	

SZPT Series with Buffer

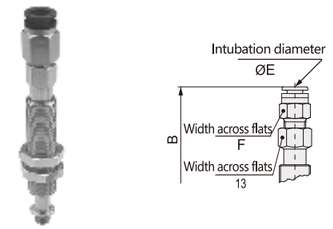
◎ SZPB3 Vertical Vacuum Inlet Buffer Bracket

Vacuum Inlet：Female Thread



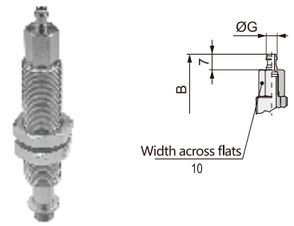
Model No.	A	B	C	D	H
SZPB3J10-B5	M5X0.8	77	62	10	50
SZPB3J10-B01	RC1/8	78.5	62	12	
SZPB3J20-B5	M5X0.8	81	72	10	
SZPB3J20-B01	RC1/8	84	72	12	
SZPB3J30-B5	M5X0.8	91	82	10	
SZPB3J30-B01	RC1/8	94	82	12	
SZPB3J50-B5	M5X0.8	136	127	10	75
SZPB3J50-B01	RC1/8	139	127	12	

Vacuum Inlet：One-Touch Type



Model No.	B	C	E	F	H
SZPB3J10-06	77	62	6	12	50
SZPB3J10-08	78.5	62	8	14	
SZPB3J20-06	81	72	6	12	
SZPB3J20-08	84	72	8	14	
SZPB3J30-06	91	82	6	12	
SZPB3J30-08	94	82	8	14	
SZPB3J50-06	136	127	6	12	75
SZPB3J50-08	139	127	8	14	

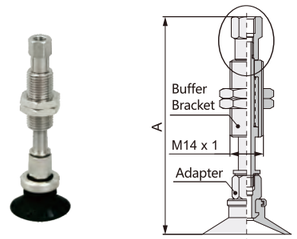
Vacuum Inlet：Barb Type



Model No.	B	C	G	H
SZPB3J10-N6	77	62	4.5	50
SZPB3J10-U6	78.5	62	4.95	
SZPB3J20-N6	81	72	4.5	
SZPB3J20-U6	84	72	4.95	
SZPB3J30-N6	91	82	4.5	
SZPB3J30-U6	94	82	4.95	
SZPB3J50-N6	136	127	4.5	75
SZPB3J50-U6	139	127	4.95	

◎ Flat Type（U）○Pad：40,50

Vacuum Inlet：Female Thread



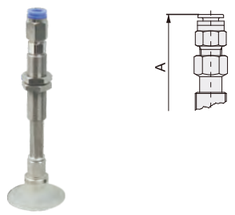
Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○U□J10-B5-A14	109.5	111	SZPB3J10-B5
SZPT○U□J10-B01-A14	110.5	112	SZPB3J10-B01
SZPT○U□J20-B5-A14	113.5	116.5	SZPB3J20-B5
SZPT○U□J20-B01-A14	114.5	117.5	SZPB3J20-B01
SZPT○U□J30-B5-A14	123.5	126.5	SZPB3J30-B5
SZPT○U□J30-B01-A14	124.5	127.5	SZPB3J30-B01
SZPT○U□J50-B5-A14	168.5	171.5	SZPB3J50-B5
SZPT○U□J50-B01-A14	169.5	172.5	SZPB3J50-B01
Adapter	SZPT4-B8		

6 SZPT with Buffer

SZPT Series with Buffer

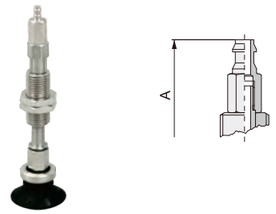
◎ Flat Type（U）○Pad：40,50

Vacuum Inlet：One-Touch Type



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○U□J10-06-A14	129.5	130.5	SZPB3J10-06
SZPT○U□J10-08-A14	135	136	SZPB3J10-08
SZPT○U□J20-06-A14	124.4	125.4	SZPB3J20-06
SZPT○U□J20-08-A14	129.4	130.4	SZPB3J20-08
SZPT○U□J30-06-A14	134.4	135.4	SZPB3J30-06
SZPT○U□J30-08-A14	139.4	140.4	SZPB3J30-08
SZPT○U□J50-06-A14	179.4	180.4	SZPB3J50-06
SZPT○U□J50-08-A14	184.4	185.4	SZPB3J50-08
Adapter	SZPT4-B8		

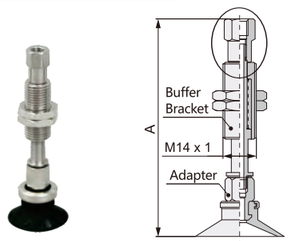
Vacuum Inlet：Barb Type



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○U□J10-N6-A14	113.5	114.5	SZPB3J10-N6
SZPT○U□J10-U6-A14	113.5	114.5	SZPB3J10-U6
SZPT○U□J20-N6-A14	116.5	117.5	SZPB3J20-N6
SZPT○U□J20-U6-A14	116.5	117.5	SZPB3J20-U6
SZPT○U□J30-N6-A14	126.5	127.5	SZPB3J30-N6
SZPT○U□J30-U6-A14	126.5	127.5	SZPB3J30-U6
SZPT○U□J50-N6-A14	171.5	172.5	SZPB3J50-N6
SZPT○U□J50-U6-A14	171.5	172.5	SZPB3J50-U6
Adapter	SZPT4-B8		

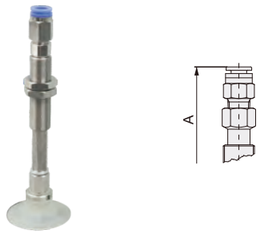
◎ Flat Type with Ribs（C）○Pad：40,50

Vacuum Inlet：Female Thread



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○C□J10-B5-A14	109.5	111	SZPB3J10-B5
SZPT○C□J10-B01-A14	110.5	112	SZPB3J10-B01
SZPT○C□J20-B5-A14	113.5	116.5	SZPB3J20-B5
SZPT○C□J20-B01-A14	114.5	117.5	SZPB3J20-B01
SZPT○C□J30-B5-A14	123.5	126.5	SZPB3J30-B5
SZPT○C□J30-B01-A14	124.5	127.5	SZPB3J30-B01
SZPT○C□J50-B5-A14	168.5	171.5	SZPB3J50-B5
SZPT○C□J50-B01-A14	169.5	172.5	SZPB3J50-B01
Adapter	SZPT4-B8		

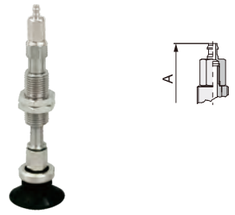
Vacuum Inlet：One-Touch Type



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○C□J10-06-A14	129.5	130.5	SZPB3J10-06
SZPT○C□J10-08-A14	135	136	SZPB3J10-08
SZPT○C□J20-06-A14	124.4	125.4	SZPB3J20-06
SZPT○C□J20-08-A14	129.4	130.4	SZPB3J20-08
SZPT○C□J30-06-A14	134.4	135.4	SZPB3J30-06
SZPT○C□J30-08-A14	139.4	140.4	SZPB3J30-08
SZPT○C□J50-06-A14	179.4	180.4	SZPB3J50-06
SZPT○C□J50-08-A14	184.4	185.4	SZPB3J50-08
Adapter	SZPT4-B8		

◎ Flat Type with Ribs（C）○Pad：40,50

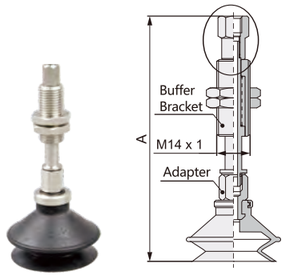
Vacuum Inlet：Barb Type



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○C□J10-N6-A14	113.5	114.5	SZPB3J10-N6
SZPT○C□J10-U6-A14	113.5	114.5	SZPB3J10-U6
SZPT○C□J20-N6-A14	116.5	117.5	SZPB3J20-N6
SZPT○C□J20-U6-A14	116.5	117.5	SZPB3J20-U6
SZPT○C□J30-N6-A14	126.5	127.5	SZPB3J30-N6
SZPT○C□J30-U6-A14	126.5	127.5	SZPB3J30-U6
SZPT○C□J50-N6-A14	171.5	172.5	SZPB3J50-N6
SZPT○C□J50-U6-A14	171.5	172.5	SZPB3J50-U6
Adapter	SZPT4-B8		

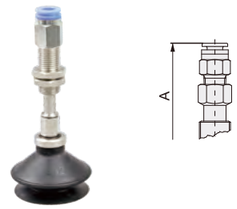
◎ Bellows Type（B）○Pad：40,50

Vacuum Inlet：Female Thread



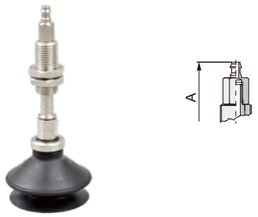
Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○B□J10-B5-A14	125	126.5	SZPB3J10-B5
SZPT○B□J10-B01-A14	129	130.5	SZPB3J10-B01
SZPT○B□J20-B5-A14	129	132	SZPB3J20-B5
SZPT○B□J20-B01-A14	133	136	SZPB3J20-B01
SZPT○B□J30-B5-A14	139	142	SZPB3J30-B5
SZPT○B□J30-B01-A14	143	146	SZPB3J30-B01
SZPT○B□J50-B5-A14	184	187	SZPB3J50-B5
SZPT○B□J50-B01-A14	188	197	SZPB3J50-B01
Adapter	SZPT4-B8		

Vacuum Inlet：One-Touch Type



Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○B□J10-06-A14	145	149	SZPB3J10-06
SZPT○B□J10-08-A14	150.5	154.5	SZPB3J10-08
SZPT○B□J20-06-A14	139.5	143.9	SZPB3J20-06
SZPT○B□J20-08-A14	144.9	148.9	SZPB3J20-08
SZPT○B□J30-06-A14	149.9	153.9	SZPB3J30-06
SZPT○B□J30-08-A14	154.9	158.9	SZPB3J30-08
SZPT○B□J50-06-A14	194.9	198.9	SZPB3J50-06
SZPT○B□J50-08-A14	199.9	203.9	SZPB3J50-08
Adapter	SZPT4-B8		

Vacuum Inlet：Barb Type

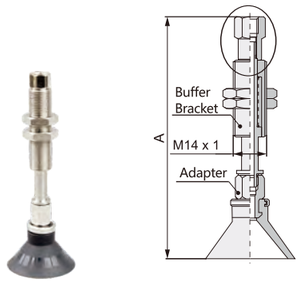


Model No.	○Pad A		Buffer Bracket
	40	50	
SZPT○B□J10-N6-A14	129	133	SZPB3J10-N6
SZPT○B□J10-U6-A14	129	133	SZPB3J10-U6
SZPT○B□J20-N6-A14	132	136	SZPB3J20-N6
SZPT○B□J20-U6-A14	132	136	SZPB3J20-U6
SZPT○B□J30-N6-A14	142	146	SZPB3J30-N6
SZPT○B□J30-U6-A14	142	146	SZPB3J30-U6
SZPT○B□J50-N6-A14	187	191	SZPB3J50-N6
SZPT○B□J50-U6-A14	187	191	SZPB3J50-U6
Adapter	SZPT4-B8		

6
SZPT with Buffer

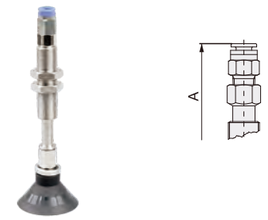
◎ **Deep Type（D）○Pad：40**

Vacuum Inlet： Female Thread



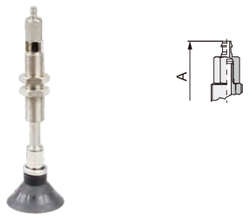
Model No.	A	Buffer Bracket
SZPT40D□J10-B5-A14	120	SZPB3J10-B5
SZPT40D□J10-B01-A14	121.5	SZPB3J10-B01
SZPT40D□J20-B5-A14	124	SZPB3J20-B5
SZPT40D□J20-B01-A14	127	SZPB3J20-B01
SZPT40D□J30-B5-A14	134	SZPB3J30-B5
SZPT40D□J30-B01-A14	137	SZPB3J30-B01
SZPT40D□J50-B5-A14	179	SZPB3J50-B5
SZPT40D□J50-B01-A14	182	SZPB3J50-B01
Adapter	SZPT4-B8	

Vacuum Inlet： One-Touch Type



Model No.	A	Buffer Bracket
SZPT40D□J10-06-A14	140	SZPB3J10-06
SZPT40D□J10-08-A14	145.5	SZPB3J10-08
SZPT40D□J20-06-A14	134.9	SZPB3J20-06
SZPT40D□J20-08-A14	139.9	SZPB3J20-08
SZPT40D□J30-06-A14	144.9	SZPB3J30-06
SZPT40D□J30-08-A14	149.9	SZPB3J30-08
SZPT40D□J50-06-A14	189.9	SZPB3J50-06
SZPT40D□J50-08-A14	194.9	SZPB3J50-08
Adapter	SZPT4-B8	

Vacuum Inlet： Barb Type



Model No.	A	Buffer Bracket
SZPT40D□J10-N6-A14	124	SZPB3J10-N6
SZPT40D□J10-U6-A14	124	SZPB3J10-U6
SZPT40D□J20-N6-A14	127	SZPB3J20-N6
SZPT40D□J20-U6-A14	127	SZPB3J20-U6
SZPT40D□J30-N6-A14	137	SZPB3J30-N6
SZPT40D□J30-U6-A14	137	SZPB3J30-U6
SZPT40D□J50-N6-A14	182	SZPB3J50-N6
SZPT40D□J50-U6-A14	182	SZPB3J50-U6
Adapter	SZPT4-B8	

SZPR
without Buffer



◎ **How to Order?**

Series No.	Pad Diameter	Pad Type	Pad Material	—	Vacuum Port	—	Mounting

SZPR: SZPR Series

02: Ø2 16: Ø16
04: Ø4 20: Ø20
06: Ø6 25: Ø25
08: Ø8 32: Ø32
10: Ø10 40: Ø40
13: Ø13 50: Ø50

N: NBR
S: Silicone rubber

Code	Port	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
04	quick fitting	Ø4 tube	•	•	•	
06		Ø6 tube	•	•	•	•
08		Ø8 tube			•	•

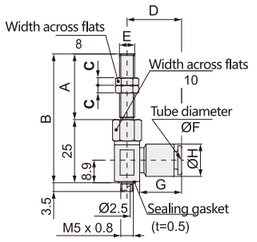
Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Code	Port	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
A5	Male Thread	M5X0.8	•	•		
A6		M6X1	•	•	•	•
A8		M8X1			•	•
B4	Female Thread	M4X0.7	•			
B5		M5X0.8	•	•	•	
B6		M6X1		•	•	•
B8		M8X1.25			•	•
B01		Rc1/8		•	•	•

Order Example: SZPR Series Vacuum Pad without Buffer, pad diameter φ10, flat type, NBR, for 4mm tube, mounting male thread M5x0.8.
Order code is: SZPR10UN-04-A5

◎ **SZPRS Mounting： Male Thread**

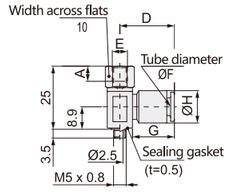




Model No.	A	B	C	D	E	F	G	H
SZPRS-04-A5	21	46	4	20.6	M5X0.8	4	15.6	10.4
SZPRS-06-A5	21	46	4	21.6	M5X0.8	6	16.6	12.8
SZPRS-04-A6	26	51	3	20.6	M6X1.0	4	15.6	10.4
SZPRS-06-A6	26	51	3	21.6	M6X1.0	6	16.6	12.8

◎ **SZPRS Mounting： Female Thread**

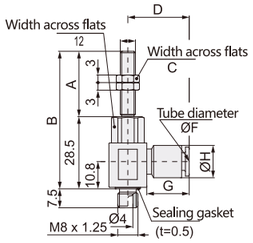




Model No.	A	D	E	F	G	H
SZPRS-04-B4	4	20.6	M4X0.7	4	15.6	10.4
SZPRS-06-B4	5	21.6	M4X0.7	6	16.6	12.8
SZPRS-04-B5	6	20.6	M5X0.8	4	15.6	10.4
SZPRS-06-B5	4	21.6	M5X0.8	6	16.6	12.8
SZPRS-04-B6	5	20.6	M6X1.0	4	15.6	10.4
SZPRS-06-B6	6	21.6	M6X1.0	6	16.6	12.8

◎ SZPRL Mounting: Male Thread

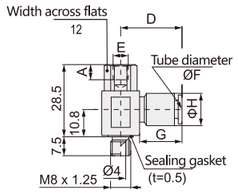




Model No.	A	B	C	D	E	F	G	H
SZPRL-04-A6	26	54.5	8	23.3	M6X1.0	4	15.6	10.4
SZPRL-06-A6	26	54.5	8	24.3	M6X1.0	6	16.6	12.8
SZPRL-08-A6	26	54.5	8	26.2	M6X1.0	4	18.7	15.2
SZPRL-04-A8	16	44.5	12	23.3	M8X1.0	6	15.6	10.4
SZPRL-06-A8	16	44.5	12	24.3	M8X1.0	4	16.6	12.8
SZPRL-08-A8	16	44.5	12	26.2	M8X1.0	6	18.7	15.2

◎ SZPRL Mounting: Female Thread

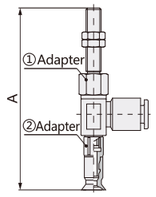




Model No.	A	D	E	F	G	H
SZPRL-04-B5	5	23.3	M5X0.8	4	15.6	10.4
SZPRL-06-B5	6	24.3	M5X0.8	6	16.6	12.8
SZPRL-08-B5	8	26.2	M5X0.8	8	18.7	15.2
SZPRL-04-B6	5	23.3	M6X1.0	4	15.6	10.4
SZPRL-06-B6	6	24.3	M6X1.0	6	16.6	12.8
SZPRL-08-B6	8	26.2	M6X1.0	8	18.7	15.2
SZPRL-04-B6	5	23.3	M8X1.0	4	15.6	10.4
SZPRL-06-B6	6	24.3	M8X1.0	6	16.6	12.8
SZPRL-08-B6	8	26.2	M8X1.0	8	18.7	15.2

◎ Flat Type（U）○Pad：02，04，06，08

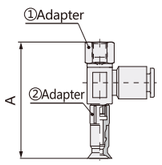




Mounting：Male Thread

Model No.	○PadA	①Adapter	②Adapter
SZPR○U□-04-A5	66.5	SZPRS-04-A5	SZPT1-B5
SZPR○U□-06-A5	70.5	SZPRS-06-A5	
SZPR○U□-04-A6	66.5	SZPRS-04-A6	
SZPR○U□-06-A6	70.5	SZPRS-06-A6	



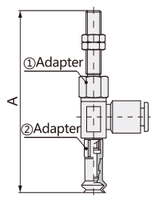


Mounting：Female Thread

Model No.	○PadA	①Adapter	②Adapter
SZPR○U□-04-B4	44.5	SZPRS-04-B4	SZPT1-B5
SZPR○U□-06-B4		SZPRS-06-B4	
SZPR○U□-04-B5		SZPRS-04-B5	
SZPR○U□-06-B5		SZPRS-06-B5	

◎ Bellows Type（B）○Pad：06，08

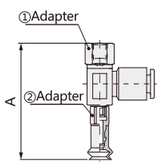




Mounting：Male Thread

Model No.	○PadA	①Adapter	②Adapter
SZPR○B□-04-A5	66.5	SZPRS-04-A5	SZPT1-B5
SZPR○B□-06-A5	66.5	SZPRS-06-A5	
SZPR○B□-04-A6	71.5	SZPRS-04-A6	
SZPR○B□-06-A6	71.5	SZPRS-06-A6	





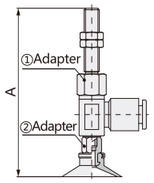
Mounting：Female Thread

Model No.	○PadA	①Adapter	②Adapter
SZPR○B□-04-B4	44.5	SZPRS-04-B4	SZPT1-B5
SZPR○B□-06-B4		SZPRS-06-B4	
SZPR○B□-04-B5		SZPRS-04-B5	
SZPR○B□-06-B5		SZPRS-06-B5	

SZPR Series without Buffer

◎ Flat Type（U）○Pad：10,13,16

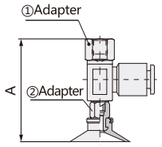




Mounting：Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○U□-04-A5	67	67	67.5	SZPRS-04-A5	SZPT2-B5
SZPR○U□-06-A5	67	67	67.5	SZPRS-06-A5	
SZPR○U□-04-A6	72	72	72.5	SZPRS-04-A6	
SZPR○U□-06-A6	72	72	72.5	SZPRS-06-A6	



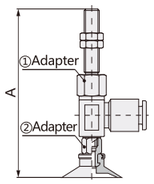


Mounting：Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○U□-04-B5	46	46	46.5	SZPRS-04-B5	SZPT2-B5
SZPR○U□-06-B5				SZPRS-06-B5	
SZPR○U□-04-B6				SZPRS-04-B6	
SZPR○U□-06-B6				SZPRS-06-B6	

◎ Flat Type with Ribs（C）○Pad：10,13,16

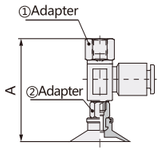




Mounting：Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○C□-04-A5	67	67	67.5	SZPRS-04-A5	SZPT2-B5
SZPR○C□-06-A5	67	67	67.5	SZPRS-06-A5	
SZPR○C□-04-A6	72	72	72.5	SZPRS-04-A6	
SZPR○C□-06-A6	72	72	72.5	SZPRS-06-A6	



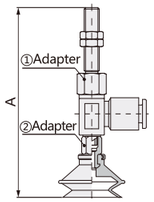


Mounting：Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○C□-04-B5	46	46	46.5	SZPRS-04-B5	SZPT2-B5
SZPR○C□-06-B5				SZPRS-06-B5	
SZPR○C□-04-B6				SZPRS-04-B6	
SZPR○C□-06-B6				SZPRS-06-B6	

◎ Bellows Type（B）○Pad：10，13，16

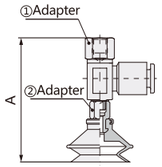




Mounting：Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○B□-04-A5	71	73.5	75	SZPRS-04-A5	SZPT2-B5
SZPR○B□-06-A5	71	73.5	75	SZPRS-06-A5	
SZPR○B□-04-A6	76	78.5	80	SZPRS-04-A6	
SZPR○B□-06-A6	76	78.5	80	SZPRS-06-A6	



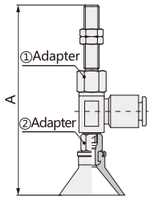


Mounting：Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	10	13	16		
SZPR○B□-04-B5	50	52.5	54	SZPRS-04-B5	SZPT2-B5
SZPR○B□-06-B5				SZPRS-06-B5	
SZPR○B□-04-B6				SZPRS-04-B6	
SZPR○B□-06-B6				SZPRS-06-B6	

◎ Deep Type （D）○Pad：10，16

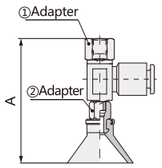




Mounting： Male Thread

Model No.	○Pad A		①Adapter	②Adapter
	10	16		
SZPR○D□-04-A5	70	71	SZPRS-04-A5	SZPT2-B5
SZPR○D□-06-A5	70	71	SZPRS-06-A5	
SZPR○D□-04-A6	75	76	SZPRS-04-A6	
SZPR○D□-06-A6	75	76	SZPRS-06-A6	



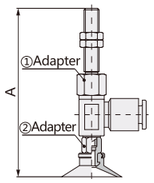


Mounting： Female Thread

Model No.	○Pad A		①Adapter	②Adapter
	10	16		
SZPR○D□-04-B5	49	50	SZPRS-04-B5	SZPT2-B5
SZPR○D□-06-B5			SZPRS-06-B5	
SZPR○D□-04-B6			SZPRS-04-B6	
SZPR○D□-06-B6			SZPRS-06-B6	

◎ Flat Type （U）○Pad：20,25,32

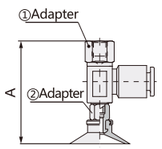




Mounting： Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○U□-04-A6	83.5	83.5	84	SZPRL-04-A6	SZPT3-B8
SZPR○U□-06-A6	83.5	83.5	84	SZPRL-06-A6	
SZPR○U□-08-A6	83.5	83.5	84	SZPRL-08-A6	
SZPR○U□-04-A8	73.5	73.5	74	SZPRL-04-A8	
SZPR○U□-06-A8	73.5	73.5	74	SZPRL-06-A8	
SZPR○U□-08-A8	73.5	73.5	74	SZPRL-08-A8	



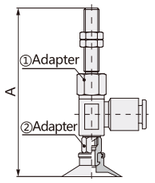


Mounting： Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○U□-04-B5	57.6	57.6	58.1	SZPRS-04-B5	SZPT3-B8
SZPR○U□-06-B5				SZPRS-06-B5	
SZPR○U□-08-B5				SZPRS-08-B5	
SZPR○U□-04-B6				SZPRS-04-B6	
SZPR○U□-06-B6				SZPRS-06-B6	
SZPR○U□-08-B6				SZPRS-08-B6	
SZPR○U□-04-B8				SZPRS-04-B8	
SZPR○U□-06-B8				SZPRS-06-B8	
SZPR○U□-08-B8				SZPRS-08-B8	

◎ Flat Type with Ribs （C）○Pad：20，25，30



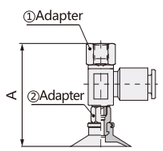


Mounting： Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○C□-04-A6	83.5	83.5	84	SZPRL-04-A6	SZPT3-B8
SZPR○C□-06-A6	83.5	83.5	84	SZPRL-06-A6	
SZPR○C□-08-A6	83.5	83.5	84	SZPRL-08-A6	
SZPR○C□-04-A8	73.5	73.5	74	SZPRL-04-A8	
SZPR○C□-06-A8	73.5	73.5	74	SZPRL-06-A8	
SZPR○C□-08-A8	73.5	73.5	74	SZPRL-08-A8	

◎ Flat Type with Ribs （C）○Pad：20，25，30



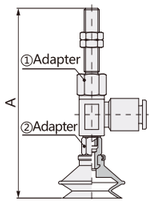


Mounting： Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○C□-04-B5	57.6	57.6	58.1	SZPRS-04-B5	SZPT3-B8
SZPR○C□-06-B5				SZPRS-06-B5	
SZPR○C□-08-B5				SZPRS-08-B5	
SZPR○C□-04-B6				SZPRS-04-B6	
SZPR○C□-06-B6				SZPRS-06-B6	
SZPR○C□-08-B6				SZPRS-08-B6	
SZPR○C□-04-B8				SZPRS-04-B8	
SZPR○C□-06-B8				SZPRS-06-B8	
SZPR○C□-08-B8				SZPRS-08-B8	

◎ Bellows Type （B）○Pad：20，25，32

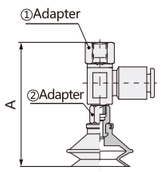




Mounting： Male Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○B□-04-A6	93	93.5	98.5	SZPRL-04-A6	SZPT3-B8
SZPR○B□-06-A6	93	93.5	98.5	SZPRL-06-A6	
SZPR○B□-08-A6	93	93.5	98.5	SZPRL-08-A6	
SZPR○B□-04-A8	83	83.5	88.5	SZPRL-04-A8	
SZPR○B□-06-A8	83	83.5	88.5	SZPRL-06-A8	
SZPR○B□-08-A8	83	83.5	88.5	SZPRL-08-A8	



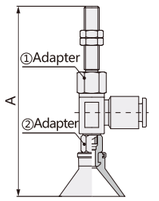


Mounting： Female Thread

Model No.	○Pad A			①Adapter	②Adapter
	20	25	32		
SZPR○B□-04-B5	67.1	67.6	72.6	SZPRS-04-B5	SZPT3-B8
SZPR○B□-06-B5				SZPRS-06-B5	
SZPR○B□-08-B5				SZPRS-08-B5	
SZPR○B□-04-B6				SZPRS-04-B6	
SZPR○B□-06-B6				SZPRS-06-B6	
SZPR○B□-08-B6				SZPRS-08-B6	
SZPR○B□-04-B8				SZPRS-04-B8	
SZPR○B□-06-B8				SZPRS-06-B8	
SZPR○B□-08-B8				SZPRS-08-B8	

◎ Deep Type （D） ○Pad：25

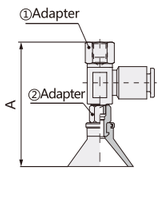




Mounting： Male Thread

Model No.	A	①Adapter	②Adapter
SZPR25D□-04-A6	89.5	SZPRS-04-A6	SZPT3-B8
SZPR25D□-06-A6	89.5	SZPRS-06-A6	
SZPR25D□-08-A6	89.5	SZPRS-08-A6	
SZPR25D□-04-A8	79.5	SZPRS-04-A8	
SZPR25D□-06-A8	79.5	SZPRS-06-A8	
SZPR25D□-08-A8	79.5	SZPRS-08-A8	



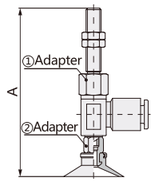


Mounting： Female Thread

Model No.	A	①Adapter	②Adapter
SZPR25D□-04-B5	63.6	SZPRS-04-B5	SZPT3-B8
SZPR25D□-06-B5		SZPRS-06-B5	
SZPR25D□-08-B5		SZPRS-08-B5	
SZPR25D□-04-B6		SZPRS-04-B6	
SZPR25D□-06-B6		SZPRS-06-B6	
SZPR25D□-08-B6		SZPRS-08-B6	
SZPR25D□-04-B8		SZPRS-04-B8	
SZPR25D□-06-B8		SZPRS-06-B8	
SZPR25D□-08-B8		SZPRS-08-B8	

◎ Flat Type（U）○Pad：40,50

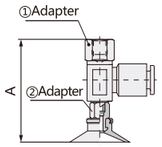




Mounting: Male Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○U□-06-A6	86.5	87.5	SZPRL-06-A6	SZPT4-B8
SZPR○U□-08-A6	86.5	87.5	SZPRL-08-A6	
SZPR○U□-06-A8	76.5	77.5	SZPRL-08-A8	
SZPR○U□-08-A8	76.5	77.5	SZPRL-08-A8	



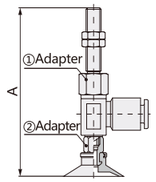


Mounting: Female Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○U□-06-B6	60.6	61.6	SZPRL-06-B6	SZPT4-B8
SZPR○U□-08-B6			SZPRL-08-B6	
SZPR○U□-06-B8			SZPRL-08-B8	
SZPR○U□-08-B8			SZPRL-08-B8	

◎ Flat Type with Ribs（C）○Pad：40,50

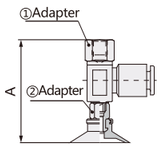




Mounting: Male Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○C□-06-A6	86.5	87.5	SZPRL-06-A6	SZPT4-B8
SZPR○C□-08-A6	86.5	87.5	SZPRL-08-A6	
SZPR○C□-06-A8	76.5	77.5	SZPRL-08-A8	
SZPR○C□-08-A8	76.5	77.5	SZPRL-08-A8	



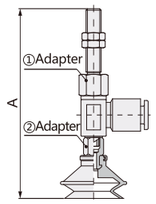


Mounting: Female Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○C□-06-B6	60.6	61.6	SZPRL-06-B6	SZPT4-B8
SZPR○C□-08-B6			SZPRL-08-B6	
SZPR○C□-06-B8			SZPRL-08-B8	
SZPR○C□-08-B8			SZPRL-08-B8	

◎ Bellows Type（B）○Pad：40,50

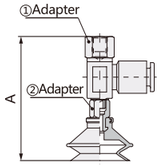




Mounting: Male Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○B□-06-A6	102	106	SZPRL-06-A6	SZPT4-B8
SZPR○B□-08-A6	102	106	SZPRL-08-A6	
SZPR○B□-06-A8	92	96	SZPRL-08-A8	
SZPR○B□-08-A8	92	96	SZPRL-08-A8	





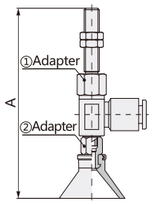
Mounting: Female Thread

Model No.	○Pad A		①Adapter	②Adapter
	40	50		
SZPR○B□-06-B6	76.1	80.1	SZPRL-06-B6	SZPT4-B8
SZPR○B□-08-B6			SZPRL-08-B6	
SZPR○B□-06-B8			SZPRL-08-B8	
SZPR○B□-08-B8			SZPRL-08-B8	

SZPR Series without Buffer

◎ Deep Type （D）○Pad：40

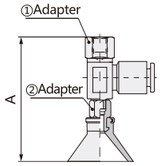




Mounting: Male Thread

Model No.	A	①Adapter	②Adapter
SZPR40D□-06-A6	102	SZPRS-06-A6	SZPT4-B8
SZPR40D□-08-A6	120	SZPRS-08-A6	
SZPR40D□-06-A8	92	SZPRS-08-A8	
SZPR40D□-08-A8	92	SZPRS-08-A8	





Mounting: Female Thread

Model No.	A	①Adapter	②Adapter
SZPR40D□-06-B6	71.1	SZPRS-06-B6	SZPT4-B8
SZPR40D□-08-B6		SZPRS-08-B6	
SZPR40D□-06-B8		SZPRS-06-B8	
SZPR40D□-08-B8		SZPRS-08-B8	

6 SZPR without Buffer

SZPR
with Buffer



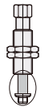
◎How to Order?

Series No.	Pad Diameter	Pad Model	Pad Material	Buffer Model	Buffer Stroke	—	Vacuum Inlet Mounting	—	Installation Connection

SZPR: SZPR Series

02:Ø2 16:Ø16
04:Ø4 20:Ø20
06:Ø6 25:Ø25
08:Ø8 32:Ø32
10:Ø10 40:Ø40
13:Ø13 50:Ø50

N: NBR
S: Silicone Rubber

Code	Buffer Type	
Rotating J		Cylindrical stainless steel buffer bar in the process of handling the workpiece will be deflected, suitable for handling without directional work.
Non-Rotating K		Hexagonal stainless steel buffer bar in the handling process of workpiece deflection, suitable for handling direction requirements of the workpiece .

Code	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
6	•		
10	•	•	•
15	•		
20		•	•
25	•		
30		•	•
40		•	
50		•	•

Code	Thread Diameter	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
A8	M8×1.0	•		
A10	M10×1.0		•	
A14	M14×1.0			•

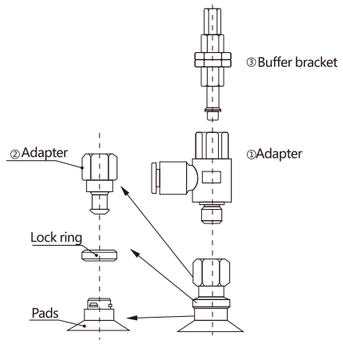
Code	Mounting	Thread Diameter	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
04	Quick Fitting	Ø4 tube	•	•	
06		Ø6 tube	•	•	•
08		Ø8 tube			•

Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Spring Reactive Force (N)		
Pad Diameter	At 0 Stroke	At Full Stroke
Ø2~Ø8	0.8N	1.2N
Ø10~Ø32	1.0N	3.0N
Ø40~Ø50	2.0N	5.0N

Order Example: Vacuum suction cups SZPR series with cushioning, suction cup Ø 10, parallel suction cups, NBR, non-returnable, cushioning stroke 20, Vacuum Inlet Mounting: quick coupling Ø 06 tube;Mounting connection thread Ø M10 x 1.0.
Ordering code: SZPR10UNK20-06-A10.

◎ SZPR Method of Component Replacement



Pad Model SZP R 13 UN K10 - 06 - A10

Symbol	Pad Diameter	Connecting Thread
2	10, 16	B5
3	20, 32	
4	40, 50	B8

Symbol	Thread Diameter
1	A8
2	A10
3	A14

②Adapter SZP R 2 - B5

①Adapter SZP R S 06 - B5

Symbol	Pad Diameter
S	02-16
L	20-50

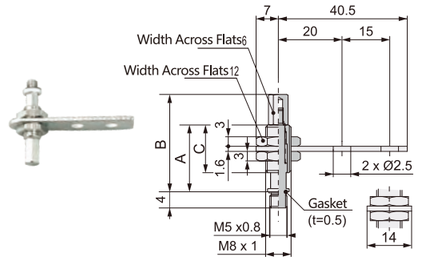
Connecting Thread	Pad Diameter
B5	02-32
B8	40-50

Symbol	Pad Diameter
1	02, 08
2	10, 16
3	20, 32
4	40, 50

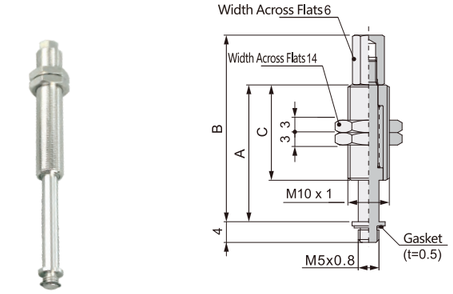
②Bracket SZP B 2 - K10 - 06

①+②+③ SZP T 2 - K10 - 06 - A0

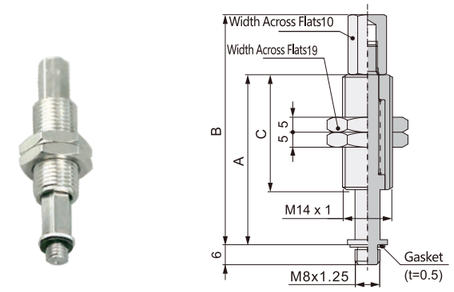
◎Vacuum Port: Female Thread



Model	A	B	C
SZPB1J6	21	34	15
SZPB1J10	54	65	43
SZPB1J15	59	70	
SZPB1J25	69	80	

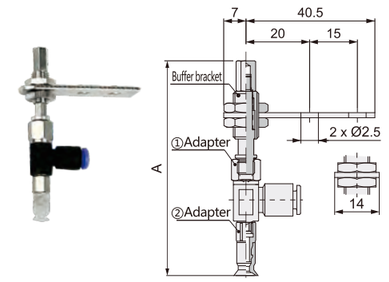


Model	A	B	C
SZPB2J10	34	45	23
SZPB2J20	72	83	51
SZPB2J30	82	93	
SZPB2J40	118	129	77
SZPB2J50	128	139	



Model	A	B	C
SZPB3J10	62	80	50
SZPB3J20	72	77	
SZPB3J30	82	87	
SZPB3J50	127	132	75

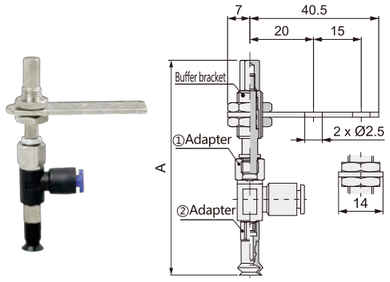
◎Flat Type (U) ○Pads: 02,04,06,08



Model	A	Buffer Bracket	①Adapter	②Adapter
SZPR○U□J6-04-A8	78.5	SZPB1J6	SZPRS-04-B5	SZPT1-B5
SZPR○U□J6-06-A8	78.5	SZPB1J6	SZPRS-06-B5	
SZPR○U□J10-04-A8	109.5	SZPB1J10	SZPRS-04-B5	
SZPR○U□J10-06-A8	109.5	SZPB1J10	SZPRS-06-B5	
SZPR○U□J15-04-A8	114.5	SZPB1J15	SZPRS-04-B5	
SZPR○U□J15-06-A8	114.5	SZPB1J15	SZPRS-06-B5	
SZPR○U□J25-04-A8	124.5	SZPB1J25	SZPRS-04-B5	
SZPR○U□J25-06-A8	124.5	SZPB1J25	SZPRS-06-B5	

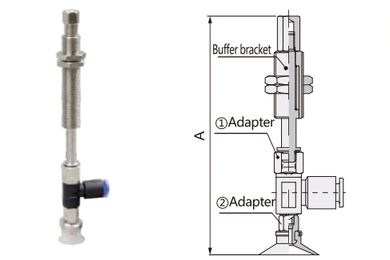
SZPR Series with Buffer

◎ Bellows Type（B）○ Pads： 06,08



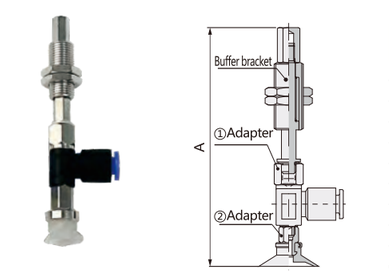
Model	A	Buffer Bracket	①Adapter	②Adapter
SZPR○B□J6-04-A8	79.5	SZPB1J6	SZPRS-04-B5	ZPT1-B5
SZPR○B□J6-06-A8	79.5	SZPB1J6	SZPRS-06-B5	
SZPR○B□J10-04-A8	110.5	SZPB1J10	SZPRS-04-B5	
SZPR○B□J10-06-A8	110.5	SZPB1J10	SZPRS-06-B5	
SZPR○B□J15-04-A8	115.5	SZPB1J15	SZPRS-04-B5	
SZPR○B□J15-06-A8	115.5	SZPB1J15	SZPRS-06-B5	
SZPR○B□J25-04-A8	125.5	SZPB1J25	SZPRS-04-B5	
SZPR○B□J25-06-A8	125.5	SZPB1J25	SZPRS-06-B5	

◎ Flat Type（U）○ Pads： 10，13，16



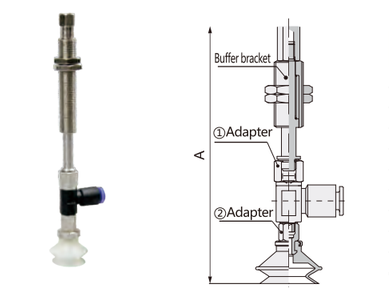
Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	10	13	16			
SZPR○U□J10-04-A10	91	91	91.5	SZPB2J6	SZPRS-04-B5	SZPT3-B5
SZPR○U□J10-06-A10	91	91	91.5	SZPB2J6	SZPRS-06-B5	
SZPR○U□J20-04-A10	129	129	129.5	SZPB2J10	SZPRS-04-B5	
SZPR○U□J20-06-A10	129	129	129.5	SZPB2J10	SZPRS-06-B5	
SZPR○U□J30-04-A10	139	139	139.5	SZPB2J15	SZPRS-04-B5	
SZPR○U□J30-06-A10	139	139	139.5	SZPB2J15	SZPRS-06-B5	
SZPR○U□J40-04-A10	175	175	175.5	SZPB2J25	SZPRS-04-B5	
SZPR○U□J40-06-A10	175	175	175.5	SZPB2J25	SZPRS-06-B5	
SZPR○U□J50-04-A10	185	185	185.5	SZPB2J25	SZPRS-04-B5	
SZPR○U□J50-06-A10	185	185	185.5	SZPB2J25	SZPRS-06-B5	

◎ Flat Type with Ribs（C）○ Pads： 10，13，16



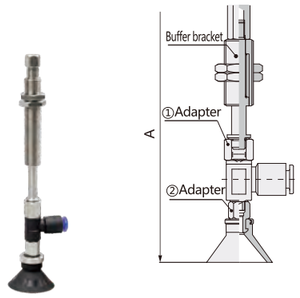
Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	10	13	16			
SZPR○C□J10-04-A10	91	91	91.5	SZPB2J10	SZPRS-04-B5	SZPT2-B5
SZPR○C□J10-06-A10	91	91	91.5	SZPB2J10	SZPRS-06-B5	
SZPR○C□J20-04-A10	129	129	129.5	SZPB2J20	SZPRS-04-B5	
SZPR○C□J20-06-A10	129	129	129.5	SZPB2J20	SZPRS-06-B5	
SZPR○C□J30-04-A10	139	139	139.5	SZPB2J30	SZPRS-04-B5	
SZPR○C□J30-06-A10	139	139	139.5	SZPB2J30	SZPRS-06-B5	
SZPR○C□J40-04-A10	175	175	175.5	SZPB2J40	SZPRS-04-B5	
SZPR○C□J40-06-A10	175	175	175.5	SZPB2J40	SZPRS-06-B5	
SZPR○C□J50-04-A10	185	185	185.5	SZPB2J50	SZPRS-04-B5	
SZPR○C□J50-06-A10	185	185	185.5	SZPB2J50	SZPRS-06-B5	

◎ Bellows Type（B）○ Pads： 10，13，16



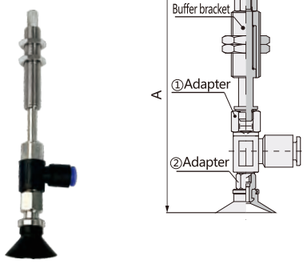
Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	10	13	16			
SZPR○B□J10-04-A10	95	97.5	99	SZPB2J10	SZPRS-04-B5	SZPT2-B5
SZPR○B□J10-06-A10	95	97.5	99	SZPB2J10	SZPRS-06-B5	
SZPR○B□J20-04-A10	133	135.5	137	SZPB2J20	SZPRS-04-B5	
SZPR○B□J20-06-A10	133	135.5	137	SZPB2J20	SZPRS-06-B5	
SZPR○B□J30-04-A10	143	145.5	147	SZPB2J30	SZPRS-04-B5	
SZPR○B□J30-06-A10	143	145.5	147	SZPB2J30	SZPRS-06-B5	
SZPR○B□J40-04-A10	179	183	183	SZPB2J40	SZPRS-04-B5	
SZPR○B□J40-06-A10	179	183	183	SZPB2J40	SZPRS-06-B5	
SZPR○B□J50-04-A10	189	193	193	SZPB2J50	SZPRS-04-B5	
SZPR○B□J50-06-A10	189	193	193	SZPB2J50	SZPRS-06-B5	

◎ Deep Type（D）○ Pads： 10，16



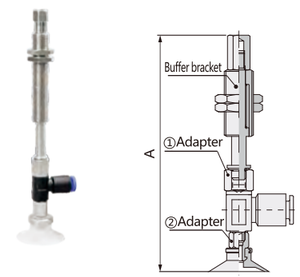
Model	○ Pads A		Buffer Bracket	①Adapter	②Adapter
	10	16			
SZPR○D□J10-04-A10	83	84	SZPB2J10	SZPRS-04-B5	SZPT2-B5
SZPR○D□J10-06-A10	83	84	SZPB2J10	SZPRS-06-B5	
SZPR○D□J20-04-A10	132	133	SZPB2J20	SZPRS-04-B5	
SZPR○D□J20-06-A10	132	133	SZPB2J20	SZPRS-06-B5	
SZPR○D□J30-04-A10	142	143	SZPB2J30	SZPRS-04-B5	
SZPR○D□J30-06-A10	142	143	SZPB2J30	SZPRS-06-B5	
SZPR○D□J40-04-A10	178	179	SZPB2J40	SZPRS-04-B5	
SZPR○D□J40-06-A10	178	179	SZPB2J40	SZPRS-06-B5	
SZPR○D□J50-04-A10	188	189	SZPB2J50	SZPRS-04-B5	
SZPR○D□J50-06-A10	188	189	SZPB2J50	SZPRS-06-B5	

◎ Flat Type（U）○ Pads： 20,25,32



Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	20	25	32			
SZPR○U□J10-04-A10				SZPB2J10	SZPRL-04-B5	SZPT3-B8
SZPR○U□J10-06-A10	102.6	102.6	103.1	SZPB2J10	SZPRL-06-B5	
SZPR○U□J10-08-A10				SZPB2J10	SZPRL-08-B5	
SZPR○U□J20-04-A10				SZPB2J20	SZPRL-04-B5	
SZPR○U□J20-06-A10	140.6	140.6	141.1	SZPB2J20	SZPRL-06-B5	
SZPR○U□J20-08-A10				SZPB2J20	SZPRL-08-B5	
SZPR○U□J30-04-A10				SZPB2J30	SZPRL-04-B5	
SZPR○U□J30-06-A10	150.6	150.6	151.1	SZPB2J30	SZPRL-06-B5	
SZPR○U□J30-08-A10				SZPB2J30	SZPRL-08-B5	
SZPR○U□J40-04-A10				SZPB2J40	SZPRL-04-B5	
SZPR○U□J40-06-A10	186.6	186.6	187.1	SZPB2J40	SZPRL-06-B5	
SZPR○U□J40-08-A10				SZPB2J40	SZPRL-08-B5	
SZPR○U□J50-04-A10				SZPB2J50	SZPRL-04-B5	
SZPR○U□J50-06-A10	196.6	196.6	197.1	SZPB2J50	SZPRL-06-B5	
SZPR○U□J50-08-A10				SZPB2J50	SZPRL-08-B5	

◎ Flat Type with Ribs（C）○ Pads： 20,25,32



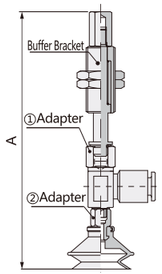
Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	20	25	32			
SZPR○C□J10-04-A10				SZPB2J10	SZPRL-04-B5	SZPT3-B8
SZPR○C□J10-06-A10	102.6	102.6	103.1	SZPB2J10	SZPRL-06-B5	
SZPR○C□J10-08-A10				SZPB2J10	SZPRL-08-B5	
SZPR○C□J20-04-A10				SZPB2J20	SZPRL-04-B5	
SZPR○C□J20-06-A10	140.6	140.6	141.1	SZPB2J20	SZPRL-06-B5	
SZPR○C□J20-08-A10				SZPB2J20	SZPRL-08-B5	
SZPR○C□J30-04-A10				SZPB2J30	SZPRL-04-B5	
SZPR○C□J30-06-A10	150.6	150.6	151.1	SZPB2J30	SZPRL-06-B5	
SZPR○C□J30-08-A10				SZPB2J30	SZPRL-08-B5	
SZPR○C□J40-04-A10				SZPB2J40	SZPRL-04-B5	
SZPR○C□J40-06-A10	186.6	186.6	187.1	SZPB2J40	SZPRL-06-B5	
SZPR○C□J40-08-A10				SZPB2J40	SZPRL-08-B5	
SZPR○C□J50-04-A10				SZPB2J50	SZPRL-04-B5	
SZPR○C□J50-06-A10	196.6	196.6	197.1	SZPB2J50	SZPRL-06-B5	
SZPR○C□J50-08-A10				SZPB2J50	SZPRL-08-B5	

6
SZPR

SZPR Series with Buffer

◎ Bellows Type（B）○ Pads： 20,25,32

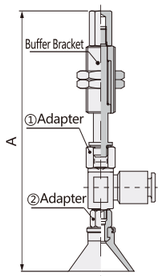




Model	○ Pads A			Buffer Bracket	①Adapter	②Adapter
	20	25	32			
SZPR○B□J10-04-A10	112.1	112.6	117.6	SZPB2J10	SZPRL-04-B5	SZPT3-B8
SZPR○B□J10-06-A10				SZPB2J10	SZPRL-06-B5	
SZPR○B□J10-08-A10				SZPB2J10	SZPRL-08-B5	
SZPR○B□J20-04-A10	150.1	150.6	115.6	SZPB2J20	SZPRL-04-B5	
SZPR○B□J20-06-A10				SZPB2J20	SZPRL-06-B5	
SZPR○B□J20-08-A10				SZPB2J20	SZPRL-08-B5	
SZPR○B□J30-04-A10	160.1	160.6	165.6	SZPB2J30	SZPRL-04-B5	
SZPR○B□J30-06-A10				SZPB2J30	SZPRL-06-B5	
SZPR○B□J30-08-A10				SZPB2J30	SZPRL-08-B5	
SZPR○B□J40-04-A10	196.1	196.6	201.6	SZPB2J40	SZPRL-04-B5	
SZPR○B□J40-06-A10				SZPB2J40	SZPRL-06-B5	
SZPR○B□J40-08-A10				SZPB2J40	SZPRL-08-B5	
SZPR○B□J50-04-A10	206.1	206.6	211.6	SZPB2J50	SZPRL-04-B5	
SZPR○B□J50-06-A10				SZPB2J50	SZPRL-06-B5	
SZPR○B□J50-08-A10				SZPB2J50	SZPRL-08-B5	

◎ Deep Type（D）○ Pads： 25

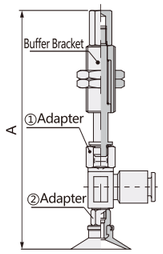




Model	A	Buffer Bracket	①Adapter	②Adapter
SZPR25D□J10-04-A10	108.6	SZPB2J10	SZPRL-04-B5	SZPT3-B8
SZPR25D□J10-06-A10		SZPB2J10	SZPRL-06-B5	
SZPR25D□J10-08-A10		SZPB2J10	SZPRL-08-B5	
SZPR25D□J20-04-A10	156.6	SZPB2J20	SZPRL-04-B5	
SZPR25D□J20-06-A10		SZPB2J20	SZPRL-06-B5	
SZPR25D□J20-08-A10		SZPB2J20	SZPRL-08-B5	
SZPR25D□J30-04-A10	146.6	SZPB2J30	SZPRL-04-B5	
SZPR25D□J30-06-A10		SZPB2J30	SZPRL-06-B5	
SZPR25D□J30-08-A10		SZPB2J30	SZPRL-08-B5	
SZPR25D□J40-04-A10	192.6	SZPB2J40	SZPRL-04-B5	
SZPR25D□J40-06-A10		SZPB2J40	SZPRL-06-B5	
SZPR25D□J40-08-A10		SZPB2J40	SZPRL-08-B5	
SZPR25D□J50-04-A10	202.6	SZPB2J50	SZPRL-04-B5	
SZPR25D□J50-06-A10		SZPB2J50	SZPRL-06-B5	
SZPR25D□J50-08-A10		SZPB2J50	SZPRL-08-B5	

◎ Flat Type（U）○ Pads： 40，50

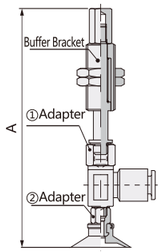




Model	○ Pads A		Buffer Bracket	①Adapter	②Adapter
	40	50			
SZPR○U□J10-06-A14	140.6	141.6	SZPB3J10	SZPRL-06-B8	SZPT4-B8
SZPR○U□J10-08-A14	140.6	141.6	SZPB3J10	SZPRL-08-B8	
SZPR○U□J20-06-A14	137.6	138.6	SZPB3J20	SZPRL-06-B8	
SZPR○U□J20-08-A14	137.6	138.6	SZPB3J20	SZPRL-08-B8	
SZPR○U□J30-06-A14	147.6	148.6	SZPB3J30	SZPRL-06-B8	
SZPR○U□J30-08-A14	147.6	148.6	SZPB3J30	SZPRL-08-B8	
SZPR○U□J50-06-A14	192.6	193.6	SZPB3J50	SZPRL-06-B8	
SZPR○U□J50-08-A14	192.6	193.6	SZPB3J50	SZPRL-08-B8	

◎ Flat Type with Ribs（C）○ Pads： 40，50

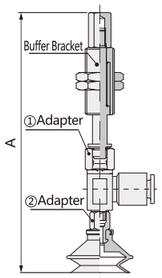




Model	○ Pads A		Buffer Bracket	①Adapter	②Adapter
	40	50			
SZPR○C□J10-06-A14	140.6	141.6	SZPB3J10	SZPRL-06-B8	SZPT4-B8
SZPR○C□J10-08-A14	140.6	141.6	SZPB3J10	SZPRL-08-B8	
SZPR○C□J20-06-A14	137.6	138.6	SZPB3J20	SZPRL-06-B8	
SZPR○C□J20-08-A14	137.6	138.6	SZPB3J20	SZPRL-08-B8	
SZPR○C□J30-06-A14	147.6	148.6	SZPB3J30	SZPRL-06-B8	
SZPR○C□J30-08-A14	147.6	148.6	SZPB3J30	SZPRL-08-B8	
SZPR○C□J50-06-A14	192.6	193.6	SZPB3J50	SZPRL-06-B8	
SZPR○C□J50-08-A14	192.6	193.6	SZPB3J50	SZPRL-08-B8	

◎ Bellows Type（B）○ Pads： 40，50

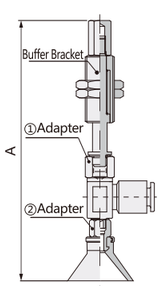




Model	○ Pads A		Buffer Bracket	①Adapter	②Adapter
	40	50			
SZPR○B□J10-06-A14	156.1	160.1	SZPB3J10	SZPRL-06-B8	SZPT4-B8
SZPR○B□J10-08-A14	156.1	160.1	SZPB3J10	SZPRL-08-B8	
SZPR○B□J20-06-A14	153.1	157.1	SZPB3J20	SZPRL-06-B8	
SZPR○B□J20-08-A14	153.1	157.1	SZPB3J20	SZPRL-08-B8	
SZPR○B□J30-06-A14	163.1	167.1	SZPB3J30	SZPRL-06-B8	
SZPR○B□J30-08-A14	163.1	167.1	SZPB3J30	SZPRL-08-B8	
SZPR○B□J50-06-A14	208.1	212.1	SZPB3J50	SZPRL-06-B8	
SZPR○B□J50-08-A14	208.1	212.1	SZPB3J50	SZPRL-08-B8	

◎ Deep Type（D）○ Pads： 40





Model	○ Pads A		Buffer Bracket	①Adapter	②Adapter
	40	50			
SZPR40D□J10-06-A14	140.6	141.6	SZPB3J10	SZPRL-06-B8	ZPT4-B8
SZPR40D□J10-08-A14	140.6	141.6	SZPB3J10	SZPRL-08-B8	
SZPR40D□J20-06-A14	137.6	138.6	SZPB3J20	SZPRL-06-B8	
SZPR40D□J20-08-A14	137.6	138.6	SZPB3J20	SZPRL-08-B8	
SZPR40D□J30-06-A14	147.6	148.6	SZPB3J30	SZPRL-06-B8	
SZPR40D□J30-08-A14	147.6	148.6	SZPB3J30	SZPRL-08-B8	
SZPR40D□J50-06-A14	192.6	193.6	SZPB3J50	SZPRL-06-B8	
SZPR40D□J50-08-A14	192.6	193.6	SZPB3J50	SZPRL-08-B8	

6
SZPR

SZPY
without Buffer



How to Order?

Series No.	Pad Diameter	Pad Model	Pad Material	—	Vacuum Inlet Mounting	—	Installation and Connection Mode

SZPY: SZPY Series

02: Ø2 04: Ø4 06: Ø6 08: Ø8 10: Ø10 13: Ø13 16: Ø16 20: Ø20 25: Ø25 32: Ø32 40: Ø40 50: Ø50

N: NBR
S: Silicone Rubber

Code	Mounting	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
N4	Barb Fitting	Ø4 nylon tube	•	•	•	
N6		Ø6 nylon tube	•	•	•	•
U4		Ø4 Pu tube	•	•	•	
U6		Ø6 Pu tube	•	•	•	•

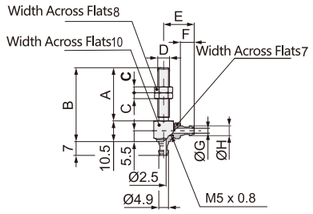
Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Code	Mounting	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
A5	Male Thread	M5X0.8	•	•		
A6		M6X1	•	•	•	•
A8		M8X1			•	•
B4	Female Thread	M4X0.7	•			
B5		M5X0.8	•	•	•	
B6		M6X1		•	•	•
B8		M8X1.25			•	•

Order Example: SZPY series vacuum pad without buffer,pad diameter ϕ 10，flat type,NBR, vacuum inlet connection:barb fitting ϕ 4 nylon tube;Installation and connection mode: male thread, thread diameterM5X0.8.ERP code is SZPY10UN–N4–A5.

Installation Method：Male Thread

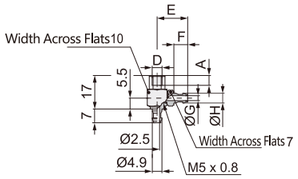




Model	A	B	C	D	E	F	G	H
SZPY1-N4-A5	21.5	32	4	M5X0.8	13.5	5	1.8	2.8
SZPY1-U4-A5					13.5	5	1.8	3.4
SZPY1-N6-A5					15.5	7	2.5	4.5
SZPY1-U6-A5					15.5	7	2.5	4.95
SZPY1-N4-A6	27	37.5	3	M6X1.0	13.5	5	1.8	2.8
SZPY1-U4-A6					13.5	5	1.8	3.4
SZPY1-N6-A6					15.5	7	2.5	4.5
SZPY1-U6-A6					15.5	7	2.5	4.95

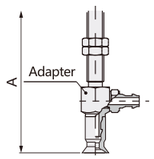
Installation Method：Female Thread





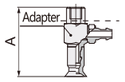
Model	A	D	E	F	G	H
SZPY1-N4-B4	4	M4X0.7	13.5	5	1.8	2.8
SZPY1-U4-B4			13.5	5	1.8	3.4
SZPY1-N6-B4			15.5	7	2.5	4.5
SZPY1-U6-B4			15.5	7	2.5	4.95
SZPY1-N4-B5	5	M5X0.8	13.5	5	1.8	2.8
SZPY1-U4-B5			13.5	5	1.8	3.4
SZPY1-N6-B5			15.5	7	2.5	4.5
SZPY1-U6-B5			15.5	7	2.5	4.95

Flat Type（U） ○ Pads： 02，04，06，08



Installation Method: Male Thread

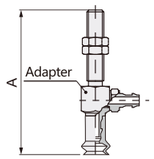
Model	A	Adapter
SZPY○U□-N4-A5	44	SZPY1-N4-A5
SZPY○U□-U4-A5		SZPY1-U4-A5
SZPY○U□-N6-A5		SZPY1-N6-A5
SZPY○U□-U6-A5		SZPY1-U6-A5
SZPY○U□-N4-A6	49.5	SZPY1-N4-A6
SZPY○U□-U4-A6		SZPY1-U4-A6
SZPY○U□-N6-A6		SZPY1-N6-A6
SZPY○U□-U6-A6		SZPY1-U6-A6



Installation Method: Female Thread

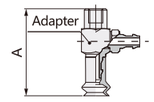
Model	A	Adapter
SZPY○U□-N4-B4	29	SZPY1-N4-B4
SZPY○U□-U4-B4		SZPY1-U4-B4
SZPY○U□-N6-B4		SZPY1-N6-B4
SZPY○U□-U6-B4		SZPY1-U6-B4
SZPY○U□-N4-B5		SZPY1-N4-B5
SZPY○U□-U4-B5		SZPY1-U4-B5
SZPY○U□-N6-B5		SZPY1-N6-B5
SZPY○U□-U6-B5		SZPY1-U6-B5

Bellows Type（B） ○ Pads： 06，08



Installation Method: Male Thread

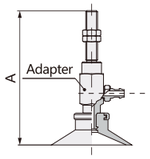
Model	A	Adapter
SZPY○B□-N4-A5	44	SZPY1-N4-A5
SZPY○B□-U4-A5		SZPY1-U4-A5
SZPY○B□-N6-A5		SZPY1-N6-A5
SZPY○B□-U6-A5		SZPY1-U6-A5
SZPY○B□-N4-A6	49.5	SZPY1-N4-A6
SZPY○B□-U4-A6		SZPY1-U4-A6
SZPY○B□-N6-A6		SZPY1-N6-A6
SZPY○B□-U6-A6		SZPY1-U6-A6



Installation Method: Female Thread

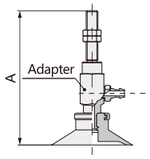
Model	A	Adapter
SZPY○B□-N4-B4	29	SZPY1-N4-B4
SZPY○B□-U4-B4		SZPY1-U4-B4
SZPY○B□-N6-B4		SZPY1-N6-B4
SZPY○B□-U6-B4		SZPY1-U6-B4
SZPY○B□-N4-B5		SZPY1-N4-B5
SZPY○B□-U4-B5		SZPY1-U4-B5
SZPY○B□-N6-B5		SZPY1-N6-B5
SZPY○B□-U6-B5		SZPY1-U6-B5

Flat Type（U） ○ Pads： 10,13,16



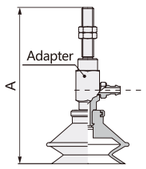
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○U□-N4-A5	59	59	59.5	SZPY2-N4-A5
SZPY○U□-U4-A5				SZPY2-U4-A5
SZPY○U□-N6-A5				SZPY2-N6-A5
SZPY○U□-U6-A5				SZPY2-U6-A5
SZPY○U□-N4-A6	64	64	64.5	SZPY2-N4-A6
SZPY○U□-U4-A6				SZPY2-U4-A6
SZPY○U□-N6-A6				SZPY2-N6-A6
SZPY○U□-U6-A6				SZPY2-U6-A6

Flat Type with Ribs（C） ○ Pads： 10,13,16



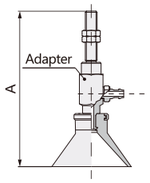
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○C□-N4-A5	59	59	59.5	SZPY2-N4-A5
SZPY○C□-U4-A5				SZPY2-U4-A5
SZPY○C□-N6-A5				SZPY2-N6-A5
SZPY○C□-U6-A5				SZPY2-U6-A5
SZPY○C□-N4-A6	64	64	64.5	SZPY2-N4-A6
SZPY○C□-U4-A6				SZPY2-U4-A6
SZPY○C□-N6-A6				SZPY2-N6-A6
SZPY○C□-U6-A6				SZPY2-U6-A6

Bellows Type（B） ○ Pads： 10,13,16



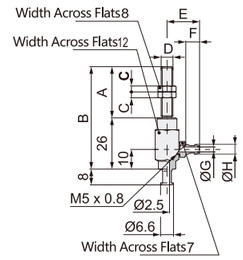
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○B□-N4-A5	63	65.5	67	SZPY2-N4-A5
SZPY○B□-U4-A5				SZPY2-U4-A5
SZPY○B□-N6-A5				SZPY2-N6-A5
SZPY○B□-U6-A5				SZPY2-U6-A5
SZPY○B□-N4-A6	68	70.5	72	SZPY2-N4-A6
SZPY○B□-U4-A6				SZPY2-U4-A6
SZPY○B□-N6-A6				SZPY2-N6-A6
SZPY○B□-U6-A6				SZPY2-U6-A6

Deep Type（D） ○ Pads： 10,16



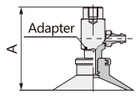
Model	○ Pads A		①Adapter
	10	16	
SZPY○D□-N4-A5	62	67	SZPY2-N4-A5
SZPY○D□-U4-A5			SZPY2-U4-A5
SZPY○D□-N6-A5			SZPY2-N6-A5
SZPY○D□-U6-A5			SZPY2-U6-A5
SZPY○D□-N4-A6	63	68	SZPY2-N4-A6
SZPY○D□-U4-A6			SZPY2-U4-A6
SZPY○D□-N6-A6			SZPY2-N6-A6
SZPY○D□-U6-A6			SZPY2-U6-A6

Adapter Type



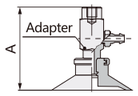
Model	A	B	C	D	E	F	G	H
SZPY2-N4-A5	21	47	4	M5X0.8	14.5	5	1.8	2.8
SZPY2-U4-A5					14.5	5	1.8	3.4
SZPY2-N6-A5					16.5	7	2.5	4.5
SZPY2-U6-A5					16.5	7	2.5	4.95
SZPY2-N4-A6	26	52	3	M6X1.0	14.5	5	1.8	2.8
SZPY2-U4-A6					14.5	5	1.8	3.4
SZPY2-N6-A6					16.5	7	2.5	4.5
SZPY2-U6-A6					16.5	7	2.5	4.95

◎ Flat Type（U）○ Pads： 10,13,16



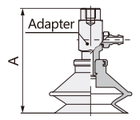
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○U□-N4-B5	38	38	38.5	SZPY2-N4-B5
SZPY○U□-U4-B5				SZPY2-U4-B5
SZPY○U□-N6-B5				SZPY2-N6-B5
SZPY○U□-U6-B5				SZPY2-U6-B5
SZPY○U□-N4-B6				SZPY2-N4-B6
SZPY○U□-U4-B6				SZPY2-U4-B6
SZPY○U□-N6-B6				SZPY2-N6-B6
SZPY○U□-U6-B6				SZPY2-U6-B6

◎ Flat Type with Ribs（C）○ Pads： 10,13,16



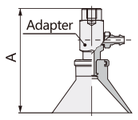
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○C□-N4-B5	38	38	38.5	SZPY2-N4-B5
SZPY○C□-U4-B5				SZPY2-U4-B5
SZPY○C□-N6-B5				SZPY2-N6-B5
SZPY○C□-U6-B5				SZPY2-U6-B5
SZPY○C□-N4-B6				SZPY2-N4-B6
SZPY○C□-U4-B6				SZPY2-U4-B6
SZPY○C□-N6-B6				SZPY2-N6-B6
SZPY○C□-U6-B6				SZPY2-U6-B6

◎ Bellows Type（B）○ Pads： 10,13,16



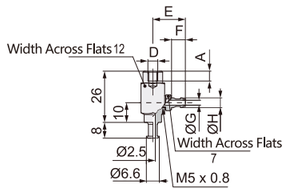
Model	○ Pads A			①Adapter
	10	13	16	
SZPY○B□-N4-B5	42	44.5	46	SZPY2-N4-B5
SZPY○B□-U4-B5				SZPY2-U4-B5
SZPY○B□-N6-B5				SZPY2-N6-B5
SZPY○B□-U6-B5				SZPY2-U6-B5
SZPY○B□-N4-B6				SZPY2-N4-B6
SZPY○B□-U4-B6				SZPY2-U4-B6
SZPY○B□-N6-B6				SZPY2-N6-B6
SZPY○B□-U6-B6				SZPY2-U6-B6

◎ Deep Typel（D）○ Pads： 10,16



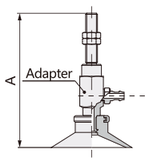
Model	○ Pads A		①Adapter
	10	16	
SZPY○D□-N4-B5	41	42	SZPY2-N4-B5
SZPY○D□-U4-B5			SZPY2-U4-B5
SZPY○D□-N6-B5			SZPY2-N6-B5
SZPY○D□-U6-B5			SZPY2-U6-B5
SZPY○D□-N4-B6			SZPY2-N4-B6
SZPY○D□-U4-B6			SZPY2-U4-B6
SZPY○D□-N6-B6			SZPY2-N6-B6
SZPY○D□-U6-B6			SZPY2-U6-B6

◎ Adapter Type



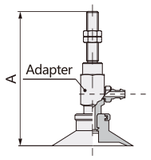
Model	A	D	E	F	G	H
SZPY2-N4-B5	5	M5X0.8	14.5	5	1.8	2.8
SZPY2-U4-B5			14.5	5	1.8	3.4
SZPY2-N6-B5			16.5	7	2.5	4.5
SZPY2-U6-B5			16.5	7	2.5	4.95
SZPY2-N4-B6	6	M6X1.0	14.5	5	1.8	2.8
SZPY2-U4-B6			14.5	5	1.8	3.4
SZPY2-N6-B6			16.5	7	2.5	4.5
SZPY2-U6-B6			16.5	7	2.5	4.95

◎ Flat Type（U）○ Pads： 20,25,32



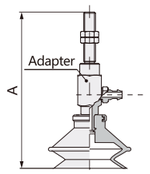
Model	○ Pads A			①Adapter
	20	25	32	
SZPY○U□-N4-A6	68	68	68.5	SZPY3-N4-A6
SZPY○U□-U4-A6				SZPY3-U4-A6
SZPY○U□-N6-A6				SZPY3-N6-A6
SZPY○U□-U6-A6				SZPY3-U6-A6
SZPY○U□-N4-A8	58	58	58.5	SZPY3-N4-A8
SZPY○U□-U4-A8				SZPY3-U4-A8
SZPY○U□-N6-A8				SZPY3-N6-A8
SZPY○U□-U6-A8				SZPY3-U6-A8

◎ Flat Type with Ribs（C）○ Pads： 20,25,32



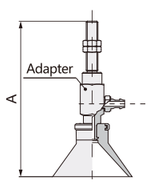
Model	○ Pads A			①Adapter
	20	25	32	
SZPYC□-N4-A6	68	68	68.5	SZPY3-N4-A6
SZPY○C□-U4-A6				SZPY3-U4-A6
SZPY○C□-N6-A6				SZPY3-N6-A6
SZPY○C□-U6-A6				SZPY3-U6-A6
SZPY○C□-N4-A8	58	58	58.5	SZPY3-N4-A8
SZPY○C□-U4-A8				SZPY3-U4-A8
SZPY○C□-N6-A8				SZPY3-N6-A8
SZPY○C□-U6-A8				SZPY3-U6-A8

◎ Bellows Type（B）○ Pads： 20,25,32



Model	○ Pads A			①Adapter
	20	25	32	
SZPY○B□-N4-A6	79.5	80	85	SZPY3-N4-A6
SZPY○B□-U4-A6				SZPY3-U4-A6
SZPY○B□-N6-A6				SZPY3-N6-A6
SZPY○B□-U6-A6				SZPY3-U6-A6
SZPY○B□-N4-A8	69.5	70	75	SZPY3-N4-A8
SZPY○B□-U4-A8				SZPY3-U4-A8
SZPY○B□-N6-A8				SZPY3-N6-A8
SZPY○B□-U6-A8				SZPY3-U6-A8

◎ Deep Typel（D）○ Pads： 25

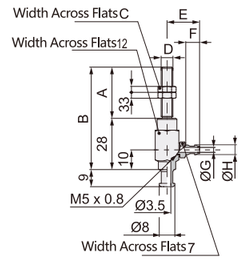


Model	A	①Adapter
SZPY25D□-N4-A6	74	SZPY3N4-A6
SZPY25D□-U4-A6		SZPY3-U4-A6
SZPY25D□-N6-A6		SZPY3-N6-A6
SZPY25D□-U6-A6		SZPY3-U6-A6
SZPY25D□-N4-A8	64	SZPY3-N4-A8
SZPY25D□-U4-A8		SZPY3-U4-A8
SZPY25D□-N6-A8		SZPY3-N6-A8
SZPY25D□-U6-A8		SZPY3-U6-A8

SZPY Series without Buffer

E•MC®

◎ Adapter Type



Model	A	B	C	D	E	F	G	H
SZPY3-N4-A6	26	54	8	M6X1.0	14.5	5	1.8	2.8
SZPY3-U4-A6					14.5	5	1.8	3.4
SZPY3-N6-A6					16.5	7	2.5	4.5
SZPY3-U6-A6					16.5	7	2.5	4.95
SZPY3-N4-A8	16	44	12	M8X1.0	14.5	5	1.8	2.8
SZPY3-U4-A8					14.5	5	1.8	3.4
SZPY3-N6-A8					16.5	7	2.5	4.5
SZPY3-U6-A8					16.5	7	2.5	4.95

◎ Flat Type（U）○ Pads： 20，25，32



Model	○ Pads A			①Adapter
	20	25	32	
SZPY○U□-N4-B5	42	42	42.5	SZPY3-N4-B5
SZPY○U□-U4-B5				SZPY3-U4-B5
SZPY○U□-N6-B5				SZPY3-N6-B5
SZPY○U□-U6-B5				SZPY3-U6-B5
SZPY○U□-N4-B6				SZPY3-N4-B6
SZPY○U□-U4-B6				SZPY3-U4-B6
SZPY○U□-N6-B6				SZPY3-N6-B6
SZPY○U□-U6-B6				SZPY3-U6-B6
SZPY○U□-N4-B8				SZPY3-N4-B8
SZPY○U□-U4-B8				SZPY3-U4-B8
SZPY○U□-N6-B8				SZPY3-N6-B8
SZPY○U□-U6-B8				SZPY3-U6-B8

◎ Flat Type with Ribs（C）○ Pads： 20，25，32



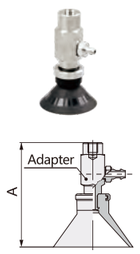
Model	○ Pads A			①Adapter
	20	25	32	
SZPY○C□-N4-B5	42	42	42.5	SZPY3-N4-B5
SZPY○C□-U4-B5				SZPY3-U4-B5
SZPY○C□-N6-B5				SZPY3-N6-B5
SZPY○C□-U6-B5				SZPY3-U6-B5
SZPY○C□-N4-B6				SZPY3-N4-B6
SZPY○C□-U4-B6				SZPY3-U4-B6
SZPY○C□-N6-B6				SZPY3-N6-B6
SZPY○C□-U6-B6				SZPY3-U6-B6
SZPY○C□-N4-B8				SZPY3-N4-B8
SZPY○C□-U4-B8				SZPY3-U4-B8
SZPY○C□-N6-B8				SZPY3-N6-B8
SZPY○C□-U6-B8				SZPY3-U6-B8

◎ Bellows Type（B）○ Pads： 20，25，32



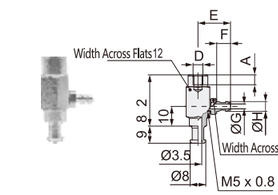
Model	○ Pads A			①Adapter
	20	25	32	
SZPY○B□-N4-B5	51.5	52	57	SZPY3-N4-B5
SZPY○B□-U4-B5				SZPY3-U4-B5
SZPY○B□-N6-B5				SZPY3-N6-B5
SZPY○B□-U6-B5				SZPY3-U6-B5
SZPY○B□-N4-B6				SZPY3-N4-B6
SZPY○B□-U4-B6				SZPY3-U4-B6
SZPY○B□-N6-B6				SZPY3-N6-B6
SZPY○B□-U6-B6				SZPY3-U6-B6
SZPY○B□-N4-B8				SZPY3-N4-B8
SZPY○B□-U4-B8				SZPY3-U4-B8
SZPY○B□-N6-B8				SZPY3-N6-B8
SZPY○B□-U6-B8				SZPY3-U6-B8

◎ Deep Typel（D）○ Pads： 25



Model	A	①Adapter
SZPY25D□-N4-B5	48	SZPY3-N4-B5
SZPY25D□-U4-B5		SZPY3-U4-B5
SZPY25D□-N6-B5		SZPY3-N6-B5
SZPY25D□-U6-B5		SZPY3-U6-B5
SZPY25D□-N4-B6		SZPY3-N4-B6
SZPY25D□-U4-B6		SZPY3-U4-B6
SZPY25D□-N6-B6		SZPY3-N6-B6
SZPY25D□-U6-B6		SZPY3-U6-B6
SZPY25D□-N4-B8		SZPY3-N4-B8
SZPY25D□-U4-B8		SZPY3-U4-B8
SZPY25D□-N6-B8		SZPY3-N6-B8
SZPY25D□-U6-B8		SZPY3-U6-B8

◎ Adapter Type



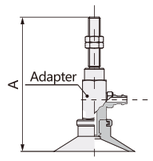
Model	A	D	E	F	G	H
SZPY3-N4-B5	5	M5X0.8	14.5	5	1.8	2.8
SZPY3-U4-B5			14.5	5	1.8	3.4
SZPY3-N6-B5			16.5	7	2.5	4.5
SZPY3-U6-B5			16.5	7	2.5	4.95
SZPY3-N4-B6	6	M6X1.0	14.5	5	1.8	2.8
SZPY3-U4-B6			14.5	5	1.8	3.4
SZPY3-N6-B6			16.5	7	2.5	4.5
SZPY3-U6-B6			16.5	7	2.5	4.95
SZPY3-N4-B8	8	M8X1.0	14.5	5	1.8	2.8
SZPY3-U4-B8			14.5	5	1.8	3.4
SZPY3-N6-B8			16.5	7	2.5	4.5
SZPY3-U6-B8			16.5	7	2.5	4.95

6
SZPY without Buffer

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◎ Flat Type（U） ○ Pads： 40,50

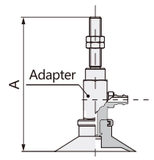




Model	○ Pads A		①Adapter
	40	50	
SZPY○U□-N6-A6	72.5	62.5	SZPY4-N6-A6
SZPY○U□-U6-A6			SZPY4-U6-A6
SZPY○U□-N6-A8	73.5	63.5	SZPY4-N6-A8
SZPY○U□-U6-A8			SZPY4-U6-A8

◎ Flat Type with Ribs（C） ○ Pads： 40,50

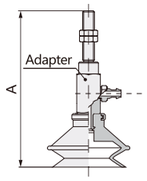




Model	○ Pads A		①Adapter
	40	50	
SZPY○C□-N6-A6	72.5	62.5	SZPY4-N6-A6
SZPY○C□-U6-A6			SZPY4-U6-A6
SZPY○C□-N6-A8	73.5	63.5	SZPY4-N6-A8
SZPY○C□-U6-A8			SZPY4-U6-A8

◎ Bellows Type（B） ○ Pads： 40,50

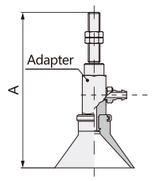




Model	○ Pads A		①Adapter
	40	50	
SZPY○B□-N6-A6	88	78	SZPY4-N6-A6
SZPY○B□-U6-A6			SZPY4-U6-A6
SZPY○B□-N6-A8	92	82	SZPY4-N6-A8
SZPY○B□-U6-A8			SZPY4-U6-A8

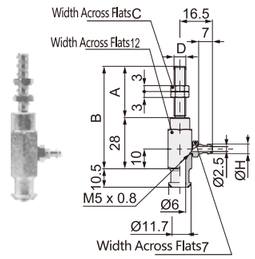
◎ Deep Typel（D） ○ Pads： 40





Model	A	①Adapter
SZPY40D□-N6-A6	83	SZPY4-N6-A6
SZPY40D□-U6-A6		SZPY4-U6-A6
SZPY40D□-N6-A8	73	SZPY4-N6-A8
SZPY40D□-U6-A8		SZPY4-U6-A8

◎ Adapter Type

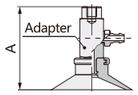


Model	A	B	C	D	H
SZPY4-N6-A6	26	54	8	M6X1.0	4.5
SZPY4-U6-A6					4.95
SZPY4-N6-A8	16	44	12	M8X1.0	4.5
SZPY4-U6-A8					4.95

SZPY Series without Buffer

◎ Flat Type（U） ○ Pads： 40,50

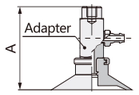




Model	○ Pads A		①Adapter
	40	50	
SZPY○U□-N6-B6	46.5	47.5	SZPY4-N6-B6
SZPY○U□-U6-B6			SZPY4-U6-B6
SZPY○U□-N6-B8			SZPY4-N6-B8
SZPY○U□-U6-B8			SZPY4-U6-B8

◎ Flat Type with Ribs（C） ○ Pads： 40,50

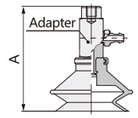




Model	○ Pads A		①Adapter
	40	50	
SZPY○C□-N6-B6	46.5	47.5	SZPY4-N6-B6
SZPY○C□-U6-B6			SZPY4-U6-B6
SZPY○C□-N6-B8			SZPY4-N6-B8
SZPY○C□-U6-B8			SZPY4-U6-B8

◎ Bellows Type（B） ○ Pads： 40,50

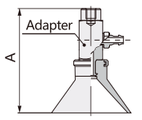




Model	○ Pads A		①Adapter
	40	50	
SZPY○B□-N6-B6	46.5	47.5	SZPY4-N6-B6
SZPY○B□-U6-B6			SZPY4-U6-B6
SZPY○B□-N6-B8			SZPY4-N6-B8
SZPY○B□-U6-B8			SZPY4-U6-B8

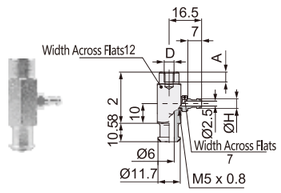
◎ Deep Typel（D） ○ Pads： 40





Model	A	①Adapter
SZPY○D□-N6-B6	57	SZPY4-N6-B6
SZPY○D□-U6-B6		SZPY4-U6-B6
SZPY○D□-N6-B8		SZPY4-N6-B8
SZPY○D□-U6-B8		SZPY4-U6-B8

◎ Adapter Type

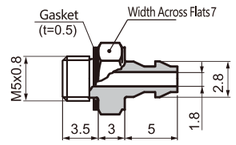


Model	A	D	H
SZPY4-N6-B6	6	M6X1.0	4.5
SZPY4-U6-B6			4.95
SZPY4-N6-B8	8	M8X1.0	4.5
SZPY4-U6-B8			4.95

◎ Barb Fitting Type

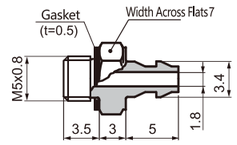
Model: M-5AN4





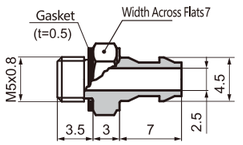
Model: M-5AU4





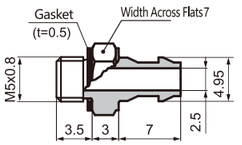
Model: M-5AN6





Model: M-5AU6

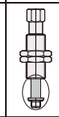
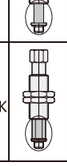




SZPY
with Buffer



Series No.	Pad Diameter	Pad Model	Pad Material	Buffer Model	Buffer Stroke	—	Vacuum Inlet Mounting	—	Installation Connection
SZPY: SZPY Series	02: Ø2 04: Ø4 06: Ø6 08: Ø8 10: Ø10 13: Ø13 16: Ø16 20: Ø20 25: Ø25 32: Ø32 40: Ø40 50: Ø50		N: NBR S: Silicone Rubber						

Code	Buffer Type	
Rotating J		Cylindrical stainless steel buffer bar in the process of handling the workpiece will be deflected, suitable for handling without directional work.
Non-Rotating K		Hexagonal stainless steel buffer bar in the handling process of workpiece deflection, suitable for handling direction requirements of the workpiece .

Code	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
6	●		
10	●	●	●
15	●		
20		●	●
25	●		
30		●	●
40		●	
50		●	●

Code	Thread Diameter	Ø2~Ø8	Ø10~Ø32	Ø40~Ø50
A8	M8×1.0	●		
A10	M10×1.0		●	
A14	M14×1.0			●

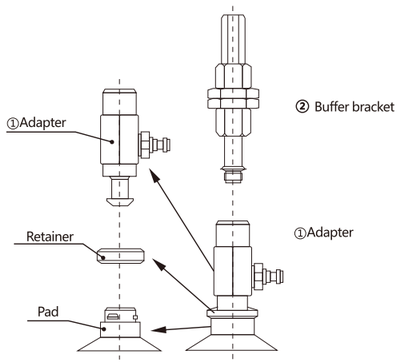
Spring Reactive Force (N)		
Pad Diameter	At 0 Stroke	At Full Stroke
Ø2~Ø8	0.8N	1.2N
Ø10~Ø32	1.0N	3.0N
Ø40~Ø50	2.0N	5.0N

Code	Pad Type	Pad Diameter
U	Flat type	Ø2 Ø4 Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
C	Flat Type with ribs	Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50
D	Deep type	Ø10 Ø16 Ø25 Ø40
B	Bellows type	Ø6 Ø8 Ø10 Ø13 Ø16 Ø20 Ø25 Ø32 Ø40 Ø50

Code	Mounting	Thread Diameter	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
N4	Barb Fitting	Ø4 nylon tube	●	●	●	
N6		Ø6 nylon tube	●	●	●	●
U4		Ø4 Pu tube	●	●	●	
U6		Ø6 Pu tube	●	●	●	●

Order Example: SZPY series vacuum pad without buffer,pad diameter ϕ 10，flat type,NBR,non–rotating,stroke20, vacuum inlet connection: barb fitting ϕ 6 nylon tube;Installation and connection mode: male thread, thread diameterM10X1.0.
ERP code is SZPY10UNK20–N6–A10.

◎ SZPY Method of Component Replacement



Pad Model SZP Y 13 UN K10 - 06 - A10

Symbol	Pad Diameter	Connecting Thread
1	02-08	B5
2	10-16	
3	20-32	
4	40-50	B8

Symbol	Thread Diameter
1	A8
2	A10
3	A14

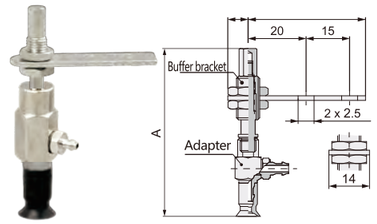
①Adapter SZP Y 2 N6 - B5

②Bracket SZP B 2 - K10

Symbol	Pad Diameter
1	02-08
2	10-16
3	20-32
4	40-50

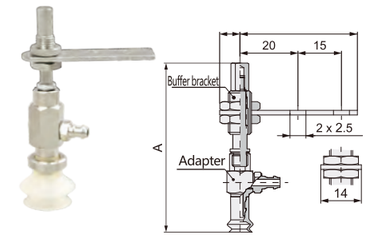
①+② SZP Y 2 - K10 - N6 - A0

◎ Flat Type（U） ○ Pads： 02，04，06，08



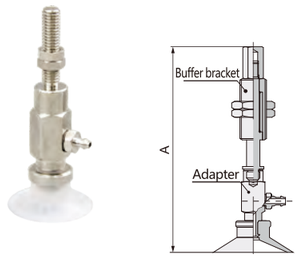
Model	A	Buffer Bracket	Adapter
SZPY○U□J6-N4-A8	63	SZPB1J6	SZPY1-N4-B5
SZPY○U□J6-U4-A8		SZPB1J6	SZPY1-U4-B5
SZPY○U□J6-N6-A8		SZPB1J6	SZPY1-N6-B5
SZPY○U□J6-U6-A8		SZPB1J6	SZPY1-U6-B5
SZPY○U□J10-N4-A8	94	SZPB1J10	SZPY1-N4-B5
SZPY○U□J10-U4-A8		SZPB1J10	SZPY1-U4-B5
SZPY○U□J10-N6-A8		SZPB1J10	SZPY1-N6-B5
SZPY○U□J10-U6-A8		SZPB1J10	SZPY1-U6-B5
SZPY○U□J15-N4-A8	99	SZPB1J15	SZPY1-N4-B5
SZPY○U□J15-U4-A8		SZPB1J15	SZPY1-U4-B5
SZPY○U□J15-N6-A8		SZPB1J15	SZPY1-N6-B5
SZPY○U□J15-U6-A8		SZPB1J15	SZPY1-U6-B5
SZPY○U□J25-N4-A8	109	SZPB1J25	SZPY1-N4-B5
SZPY○U□J25-U4-A8		SZPB1J25	SZPY1-U4-B5
SZPY○U□J25-N6-A8		SZPB1J25	SZPY1-N6-B5
SZPY○U□J25-U6-A8		SZPB1J25	SZPY1-U6-B5

◎ Bellows Type（B） ○ Pads： 06，08



Model	A	Buffer Bracket	Adapter
SZPY○B□J6-N4-A8	64	SZPB1J6	SZPY1-N4-B5
SZPY○B□J6-U4-A8		SZPB1J6	SZPY1-U4-B5
SZPY○B□J6-N6-A8		SZPB1J6	SZPY1-N6-B5
SZPY○B□J6-U6-A8		SZPB1J6	SZPY1-U6-B5
SZPY○B□J10-N4-A8	95	SZPB1J10	SZPY1-N4-B5
SZPY○B□J10-U4-A8		SZPB1J10	SZPY1-U4-B5
SZPY○B□J10-N6-A8		SZPB1J10	SZPY1-N6-B5
SZPY○B□J10-U6-A8		SZPB1J10	SZPY1-U6-B5
SZPY○B□J15-N4-A8	100	SZPB1J15	SZPY1-N4-B5
SZPY○B□J15-U4-A8		SZPB1J15	SZPY1-U4-B5
SZPY○B□J15-N6-A8		SZPB1J15	SZPY1-N6-B5
SZPY○B□J15-U6-A8		SZPB1J15	SZPY1-U6-B5
SZPY○B□J25-N4-A8	110	SZPB1J25	SZPY1-N4-B5
SZPY○B□J25-U4-A8		SZPB1J25	SZPY1-U4-B5
SZPY○B□J25-N6-A8		SZPB1J25	SZPY1-N6-B5
SZPY○B□J25-U6-A8		SZPB1J25	SZPY1-U6-B5

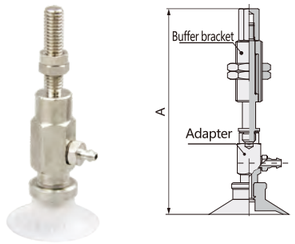
◎ Flat Type（U） ○ Pads： 10,13,16



Model	○ Pads A			Buffer Bracket	Adapter
	10	13	16		
SZPY○U□J10-N4/U4/N6/U6-A10	83	83	83.5	SZPB2J10	SZPY2-N4/U4/N6/U6-B5
SZPY○U□J20-N4/U4/N6/U6-A10	121	121	121.5	SZPB2J20	SZPY2-N4/U4/N6/U6-B5
SZPY○U□J30-N4/U4/N6/U6-A10	131	131	131.5	SZPB2J30	SZPY2-N4/U4/N6/U6-B5
SZPY○U□J40-N4/U4/N6/U6-A10	167	167	167.5	SZPB2J40	SZPY2-N4/U4/N6/U6-B5
SZPY○U□J50-N4/U4/N6/U6-A10	177	177	177.5	SZPB2J50	SZPY2-N4/U4/N6/U6-B5

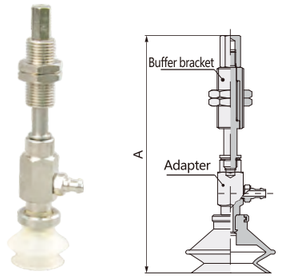
SZPY Series with Buffer

◎ Flat Type with Ribs（C）○ Pads： 10,13,16



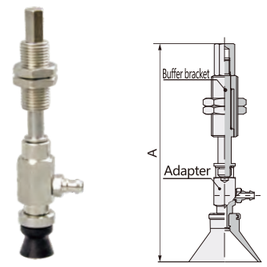
Model	○ Pads A			Buffer Bracket	Adapter
	10	13	16		
SZPY○C□J10- N4 U4 N6 U6 -A10	83	83	83.5	SZPB2J10	SZPY2- N4 U4 N6 U6 -B5
SZPY○C□J20- N4 U4 N6 U6 -A10	121	121	121.5	SZPB2J20	SZPY2- N4 U4 N6 U6 -B5
SZPY○C□J30- N4 U4 N6 U6 -A10	131	131	131.5	SZPB2J30	SZPY2- N4 U4 N6 U6 -B5
SZPY○C□J40- N4 U4 N6 U6 -A10	167	167	167.5	SZPB2J40	SZPY2- N4 U4 N6 U6 -B5
SZPY○C□J50- N4 U4 N6 U6 -A10	177	177	177.5	SZPB2J50	SZPY2- N4 U4 N6 U6 -B5

◎ Bellows Type（B）○ Pads： 10,13,16



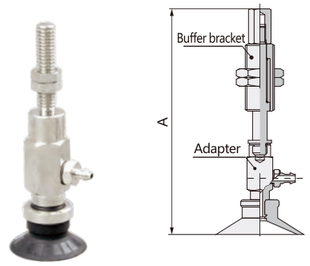
Model	○ Pads A			Buffer Bracket	Adapter
	10	13	16		
SZPY○B□J10- N4 U4 N6 U6 -A10	87	89.5	91	SZPB2J10	SZPY2- N4 U4 N6 U6 -B5
SZPY○B□J20- N4 U4 N6 U6 -A10	125	127.5	129	SZPB2J20	SZPY2- N4 U4 N6 U6 -B5
SZPY○B□J30- N4 U4 N6 U6 -A10	135	137.5	139	SZPB2J30	SZPY2- N4 U4 N6 U6 -B5
SZPY○B□J40- N4 U4 N6 U6 -A10	171	173.5	175	SZPB2J40	SZPY2- N4 U4 N6 U6 -B5
SZPY○B□J50- N4 U4 N6 U6 -A10	181	183.5	185	SZPB2J50	SZPY2- N4 U4 N6 U6 -B5

◎ Deep Typel（D）○ Pads： 10,16



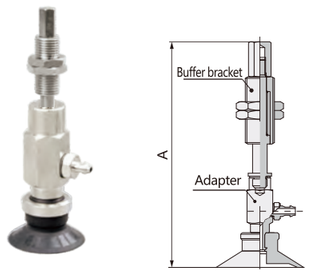
Model	○ Pads A		Buffer Bracket	Adapter
	10	16		
SZPY○D□J10- N4 U4 N6 U6 -A10	86	87	SZPB2J10	SZPY2- N4 U4 N6 U6 -B5
SZPY○D□J20- N4 U4 N6 U6 -A10	124	125	SZPB2J20	SZPY2- N4 U4 N6 U6 -B5
SZPY○D□J30- N4 U4 N6 U6 -A10	134	135	SZPB2J30	SZPY2- N4 U4 N6 U6 -B5
SZPY○D□J40- N4 U4 N6 U6 -A10	170	171	SZPB2J40	SZPY2- N4 U4 N6 U6 -B5
SZPY○D□J50- N4 U4 N6 U6 -A10	180	181	SZPB2J50	SZPY2- N4 U4 N6 U6 -B5

◎ Flat Type（U）○ Pads： 20,25,32



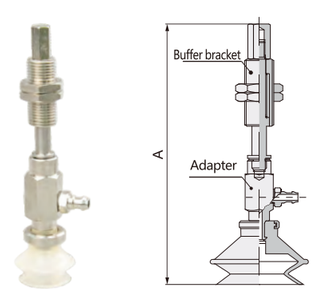
Model	○ Pads A			Buffer Bracket	Adapter
	20	25	32		
SZPY○U□J10- N4 U4 N6 U6 -A10	87	87	87.5	SZPB2J10	SZPY3- N4 U4 N6 U6 -B5
SZPY○U□J20- N4 U4 N6 U6 -A10	125	125	125.5	SZPB2J20	SZPY3- N4 U4 N6 U6 -B5
SZPY○U□J30- N4 U4 N6 U6 -A10	135	135	135.5	SZPB2J30	SZPY3- N4 U4 N6 U6 -B5
SZPY○U□J40- N4 U4 N6 U6 -A10	171	171	171.5	SZPB2J40	SZPY3- N4 U4 N6 U6 -B5
SZPY○U□J50- N4 U4 N6 U6 -A10	181	181	181.5	SZPB2J50	SZPY3- N4 U4 N6 U6 -B5

◎ Flat Type with Ribs（C）○ Pads： 20,25,32



Model	○ Pads A			Buffer Bracket	Adapter
	20	25	32		
SZPY○C□J10- N4 U4 N6 U6 -A10	87	87	87.5	SZPB2J10	SZPY3- N4 U4 N6 U6 -B5
SZPY○C□J20- N4 U4 N6 U6 -A10	125	125	125.5	SZPB2J20	SZPY3- N4 U4 N6 U6 -B5
SZPY○C□J30- N4 U4 N6 U6 -A10	135	135	135.5	SZPB2J30	SZPY3- N4 U4 N6 U6 -B5
SZPY○C□J40- N4 U4 N6 U6 -A10	171	171	171.5	SZPB2J40	SZPY3- N4 U4 N6 U6 -B5
SZPY○C□J50- N4 U4 N6 U6 -A10	181	181	181.5	SZPB2J50	SZPY3- N4 U4 N6 U6 -B5

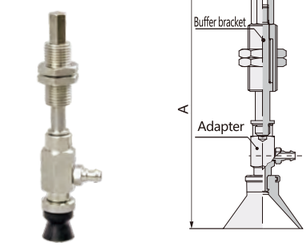
◎ Bellows Type（B）○ Pads： 20,25,32



Model	○ Pads A			Buffer Bracket	Adapter
	20	25	32		
SZPY○B□J10- N4 U4 N6 U6 -A10	96.5	97	102	SZPB2J10	SZPY3- N4 U4 N6 U6 -B5
SZPY○B□J20- N4 U4 N6 U6 -A10	136.5	137	142	SZPB2J20	SZPY3- N4 U4 N6 U6 -B5
SZPY○B□J30- N4 U4 N6 U6 -A10	146.5	147	152	SZPB2J30	SZPY3- N4 U4 N6 U6 -B5
SZPY○B□J40- N4 U4 N6 U6 -A10	182.5	183	188	SZPB2J40	SZPY3- N4 U4 N6 U6 -B5
SZPY○B□J50- N4 U4 N6 U6 -A10	192.5	193	198	SZPB2J50	SZPY3- N4 U4 N6 U6 -B5

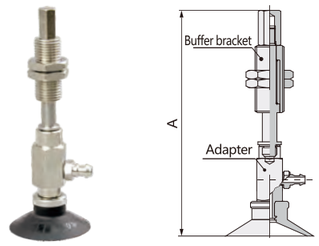
6
SZPY with Buffer

◎ Deep Typel（D） Pads： 25



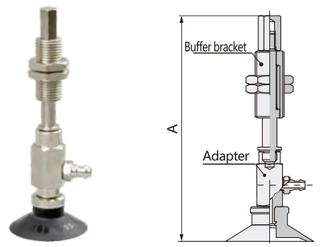
Model	A	Buffer Bracket	Adapter
SZPY25D□J10- N4 U4 N6 U6 -A14	93	SZPB2J10	SZPY3- N4 U4 N6 U6 -B5
SZPY25D□J20- N4 U4 N6 U6 -A14	131	SZPB2J20	SZPY3- N4 U4 N6 U6 -B5
SZPY25D□J30- N4 U4 N6 U6 -A14	141	SZPB2J30	SZPY3- N4 U4 N6 U6 -B5
SZPY25D□J40- N4 U4 N6 U6 -A14	177	SZPB2J40	SZPY3- N4 U4 N6 U6 -B5
SZPY25D□J50- N4 U4 N6 U6 -A14	187	SZPB2J50	SZPY3- N4 U4 N6 U6 -B5

◎ Flat Type（U）○ Pads： 40,50



Model	○ Pads A		Buffer Bracket	Adapter
	40	50		
SZPY○U□J10-A14	126.5	12.5	SZPB3J10	SZPY4-B5
SZPY○U□J20-A14	123.5	124.5	SZPB3J20	SZPY4-B5
SZPY○U□J30-A14	133.5	134.5	SZPB3J30	SZPY4-B5
SZPY○U□J50-A14	178.5	179.5	SZPB3J50	SZPY4-B5

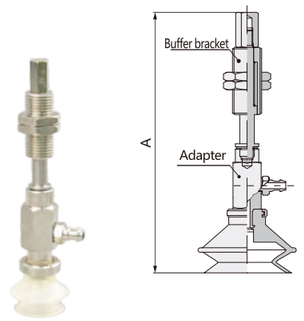
◎ Flat Type with Ribs（C）○ Pads： 40,50



Model	○ Pads A		Buffer Bracket	Adapter
	40	50		
SZPY○C□J10 -A14	126.5	12.5	SZPB3J10	SZPY4-B5
SZPY○C□J20-A14	123.5	124.5	SZPB3J20	SZPY4-B5
SZPY○C□J30-A14	133.5	134.5	SZPB3J30	SZPY4-B5
SZPY○C□J50-A14	178.5	179.5	SZPB3J50	SZPY4-B5

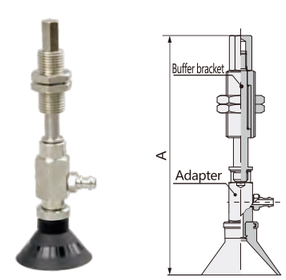
SZPY Series with Buffer

◎ Bellows Type（B）○ Pads： 40,45



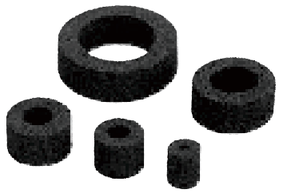
Model	○ Pads A		Buffer Bracket	Adapter
	40	50		
SZPY○B□J10-A14	126.5	12.5	SZPB3J10	SZPY4-B5
SZPY○B□J20-A14	123.5	124.5	SZPB3J20	SZPY4-B5
SZPY○B□J30-A14	133.5	134.5	SZPB3J30	SZPY4-B5
SZPY○B□J50-A14	178.5	179.5	SZPB3J50	SZPY4-B5

◎ Deep Typel（D） Pads： 40



Model	A	Buffer Bracket	Adapter
SZPY40D□J10-A14	137	SZPB3J10	SZPY4-B5
SZPY40D□J20-A14	144	SZPB3J20	SZPY4-B5
SZPY40D□J30-A14	134	SZPB3J30	SZPY4-B5
SZPY40D□J50-A14	189	SZPB3J50	SZPY4-B5

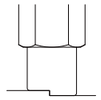
SZP2 Series



How to Order?

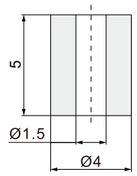
Series No.	—	Pad Diameter	Pad Material
SZP2: SZP2 Series		04: Ø4 06: Ø6 08: Ø8 10: Ø10 15: Ø15	S: Sponge

Workpieces for bump suction

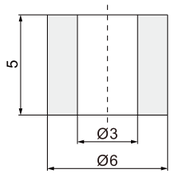


Order Example: SZPY series vacuum pad,pad diameterφ6,pad material: sponge.
ERP code is SZP2-06S

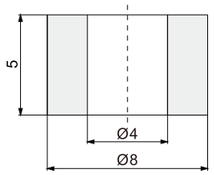
Main Dimension



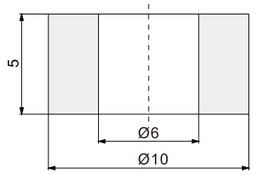
SZP2-04S



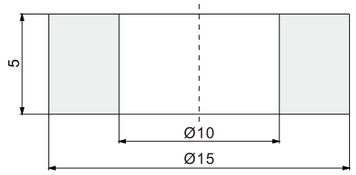
SZP2-06S



SZP2-08S



SZP2-10S



SZP2-15S

How to Order?

Series No.	—	Vacuum Inlet Direction	S	Pad Diameter	Pad Model	—	Installation Method
SZP2: SZP2 Series		T: Direction Vertical		04: Ø4 06: Ø6 08: Ø8	10: Ø10 15: Ø15	S: Sponge	

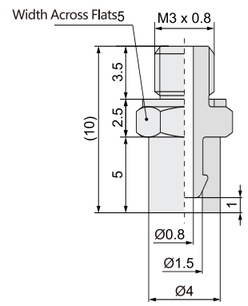
Code	Thread Size	Suitable Diameter				
		04	06	08	10	15
A3	M3X0.5	●				
A5	M5X0.8		●	●	●	●
B3	M3X0.5	●				
B5	M5X0.8		●	●	●	●



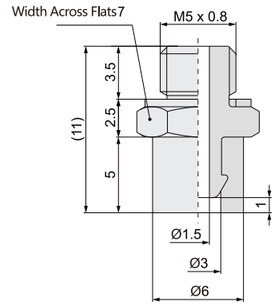
Replacement Part Model		
Model	Pad Model	Adapter Type
SZP2-T04S-A3	SZP2-04S	SZP2A-S01P
SZP2-T06S-A5	SZP2-06S	SZP2A-S02P
SZP2-T08S-A5	SZP2-08S	SZP2A-S03P
SZP2-T10S-A5	SZP2-10S	SZP2A-S04P
SZP2-T15S-A3	SZP2-15S	SZP2A-S05P
SZP2-T04S-B3	SZP2-04S	SZP2A-S11
SZP2-T06S-B5	SZP2-06S	SZP2A-S12
SZP2-T08S-B5	SZP2-08S	SZP2A-S13
SZP2-T10S-B5	SZP2-10S	SZP2A-S14
SZP2-T15S-B3	SZP2-15S	SZP2A-S15

订货举例： SZP2系列真空吸盘，垂直真空口方向，吸盘直径Ø6，
Pad Model：海绵；安装螺纹尺寸M5×0.8。
其订购码为：SZP2-T06S-A5

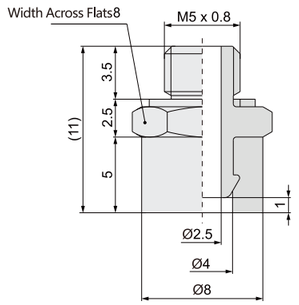
Main Dimension



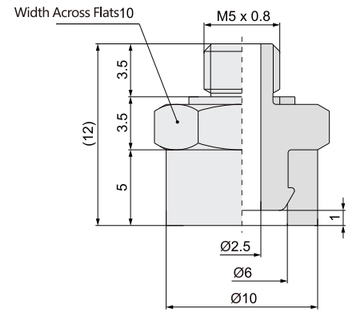
SZP2-T04S-A3



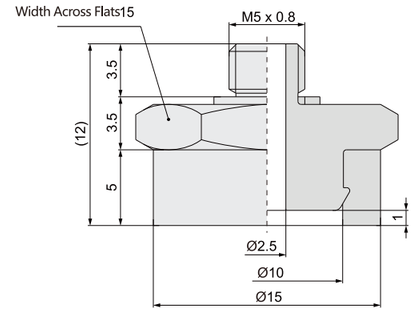
SZP2-T06S-A5



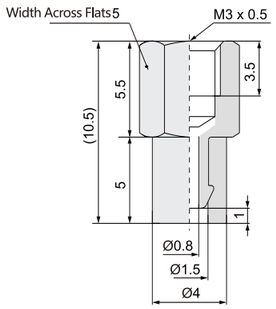
SZP2-T08S-A5



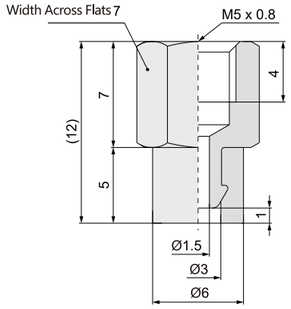
SZP2-T10S-A5



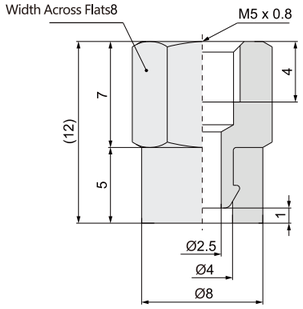
SZP2-T15S-A5



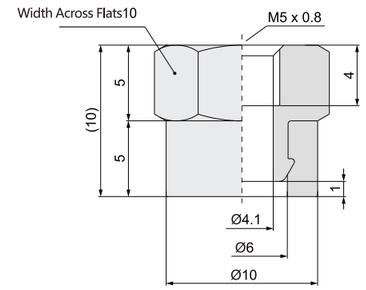
SZP2-T04S-B3



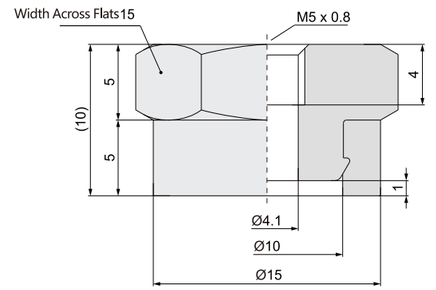
SZP2-T06S-B5



SZP2-T08S-B5



SZP2-T10S-B5



SZP2-T15S-B5

SZP
Heavy Duty



How to Order?

Series No.	Pad Diameter	Pad Model	Pad Material
SZP: SZP Series	40: Ø40 50: Ø50 63: Ø63 80: Ø80 100: Ø100 125: Ø125	H: Heavy Duty Model HB: Heavy Duty Bellows Type	N: NBR S: Silicone Rubber

Order Example: SZPY series heavy duty series vacuum pad,pad diameterφ40,heavy duty model,NBR.ERP code is SZP40HN



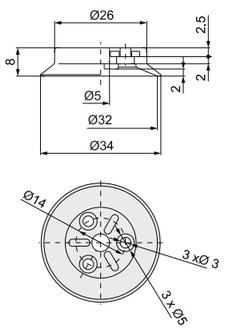
How to Order?

Series No.	Pad Diameter	Pad Model	Pad Material
SZP2: SZP2 Series	32: Ø32 150: Ø150 250: Ø250 300: Ø300 340: Ø340		N: NBR S: Silicone Rubber

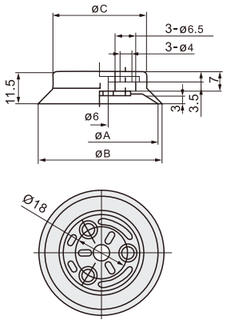
Code	Pad Model	Pad Diameter				
		Ø32	Ø150	Ø250	Ø300	Ø340
H	Flat Type with ribs	•	•	•	•	•
HB	Bellows Type	•	•			

Order Example: SZPY series heavy duty series vacuum pad,pad diameter ϕ 32,flat type with ribs,NBR.ERP code is SZP2–32HN

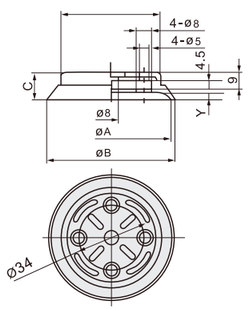
Main Dimension



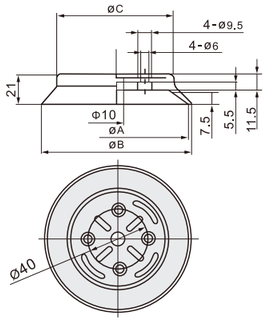
SZP32H□



Model	ØA	ØB	ØC
SZP40H□	40	42	32
SZP50H□	50	52	42

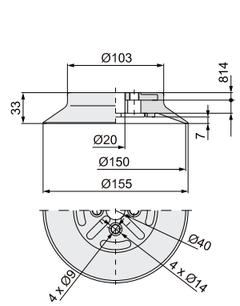


Model	ØA	ØB	C	D	Y
SZP63H□	63	65	14.5	54	3.5
SZP80H□	80	82	16.5	68	4.5

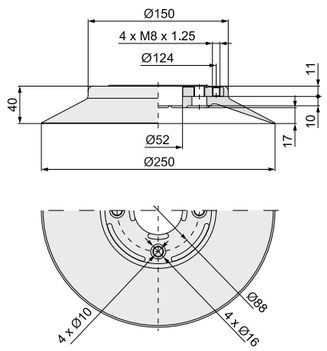


Model	ØA	ØB	ØC
SZP100H□	100	103	80
SZP125H□	125	128	104

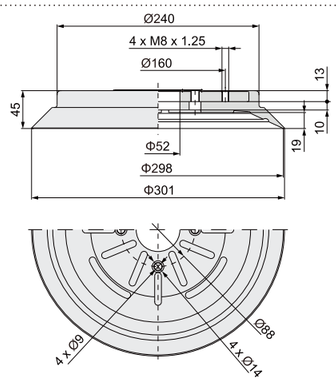
Main Dimension



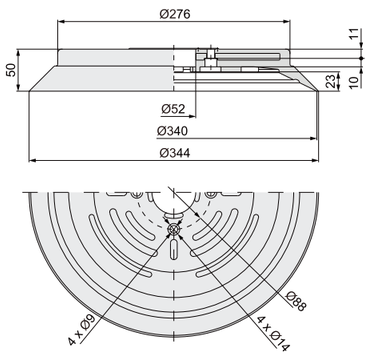
SZP2-150H□



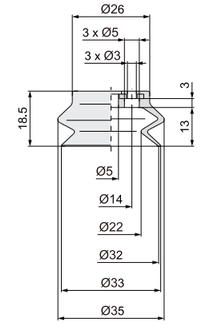
SZP2-250H□



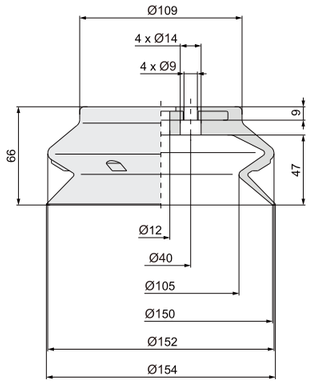
SZP2-300H□



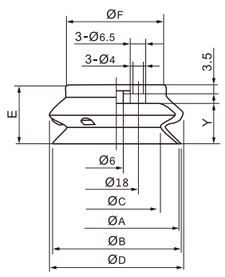
SZP2-340H□



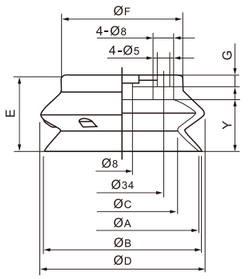
SZP2-32HB□



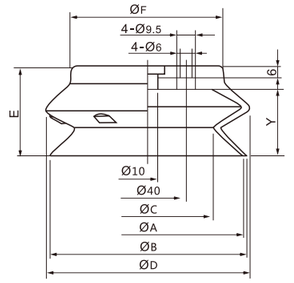
SZP2-150HB□



Model	A	B	C	D	E	F	Y
SZP40HB□	40	41.1	28.4	43.2	20.5	30	3.5
SZP40HB□	50	51.9	35.7	54	24	40.5	4.5



Model	A	B	C	D	E	F	Y
SZP63HB□	63	65.1	45.5	67.6	31.5	50	21.5
SZP80HB□	80	83	58.4	85.1	38	64	27.5



Model	A	B	C	D	E	F	Y
SZP100HB□	100	103	68.6	106.7	47.5	80	35.5
SZP125HB□	125	129	88.6	135	56	105	44

SZPT/SZPX
Heavy Duty without Buffer



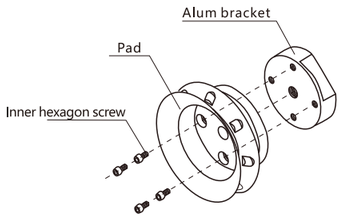
How to Order?

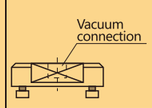
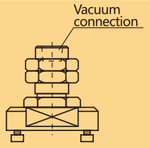
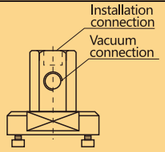
Series No.	Stent Model	Pad Diameter	Pad Model	Pad Material	—	Vacuum Inlet Mounting	—	Installation and Connection Mode
SZP: SZP Series	T: Vertical X: Lateral	32: Ø32 40: Ø40 50: Ø50 63: Ø63 80: Ø80 100: Ø100 125: Ø125	H: Heavy Duty Model HB: Heavy Duty Bellows Type	N: NBR S: Silicone Rubber		Code / Blank / SZPT / Blank B01 / SZPX / Rc1/8		

Code		Mounting	Thread Diameter	Ø32	Ø40、Ø50	Ø63、Ø80	Ø100、Ø125
A14	SZPT	Male Thread	M14X1		•		
A16			M16X1.5			•	•
B5		Female Thread	M5X0.8	•			
B8			M8X1.2	•	•	•	
B10			M10X1.5	•	•	•	
B12			M12X1.75			•	•
B16			M16X1.5			•	•
B8	SZPX	Female Thread	M8X1.25		•		
B10			M10X1.5		•	•	•
B12			M12X1.75			•	•

Order Example: SZP series heavy duty vacuum pad without buffer,direction vertical,diameterφ40， heavy duty model,NBR,vacuum inlet connection:Rc1/8;Installation and connection mode: male thread, thread diameterM14X1.0.ERP code is SZPX40HN-B01-A14.

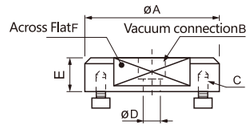
How to Order Bracket ?



Pad Diameter	Bracket without Buffer Model: SZPT Female Thread	SZPT Male Thread	SZPX Female Thread
			
Ø32	SZPT0- B5 / B8 / B10	SZPT0-A14	SZPX0-B01- B8 / B10
Ø40、Ø50	SZPT1- B8 / B10	SZPT1-A14	SZPX1-B01- B8 / B10
Ø63、Ø80	SZPT2- B8 / B10 / B12 / B16	SZPT2-A16	SZPX2-B01- B10 / B12
Ø100-Ø125	SZPT3- B12 / B16	SZPT3-A16	SZPX3-B01- B10 / B12

SZPT Female Thread without Buffering

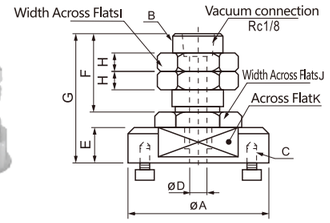




Model		ØA	B	C	ØA	E	F
SZPT0	-B5	26	M5X0.8	3-M2.5X0.45	2	11.5	24
	-B8		M8X1.25		6		
	-B10		M10X1.5				
SZPT1	-B8	28	M8X1.25	3-M3X0.5	6	11.5	24
	-B10		M10X1.5				
SZPT2	-B8	45	M8X1.25	4-M4X0.7	8	11.5	37
	-B10		M10X1.5				
	-B12		M12X1.75				
	-B16		M16X1.5				
SZPT3	-B12	70	M12X1.75	4-M5X0.8	10	13	60
	-B16		M16X1.5				

SZPT Male Thread without Buffering

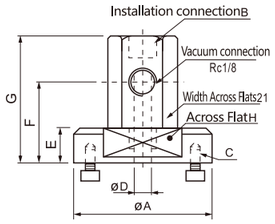




Model	ØA	B	C	ØD	E	F	G	H	I	J	K
SZPT0-A14	26	M14X1	3-M2.5X0.45	3	11.5	25	41.5	5	19	19	22
SZPT1-A14	28	M14X1	3-M3X0.5	3	11.5	25	41.5	5	19	19	24
SZPT2-A16	45	M16X1.5	4-M4X0.7	8	11.5	25	41.5	6	22	24	37
SZPT3-A16	70	M16X1.5	4-M5X0.8	8	13	25	43	6	22	24	60

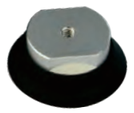
SZPX Female Thread without Buffering

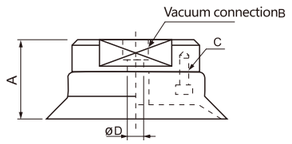




Model	ØA	B	C	ØD	E	F	G	H
SZPX1-B01-B8	26	M8X1.25	3-M2.5X0.45	3	11.5	15	48.5	22
SZPX1-B01-B10		M10X1.5						
SZPX1-B01-B8	28	M8X1.25	3-M3X0.5	3	11.5	15	48.5	24
SZPX1-B01-B10		M10X1.5						
SZPX2-B01-B10	45	M10X1.5	4-M4X0.7	4	11.5	26.5	48.5	37
SZPX2-B01-B12		M12X1.75						
SZPX3-B01-B10	70	M10X1.5	4-M5X0.8	4	13	28	50	60
SZPX3-B01-B12		M12X1.75						

SZPX Female Thread without Buffering

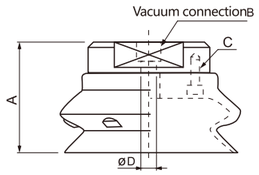




Model	A	B	C	D	Replace The Support Model
SZPT32H□-B5	19.5	M5X0.8	3-M2.5X0.45	5	SZPT0-B5
SZPT32H□-B8		M8X1.25			SZPT0-B8
SZPT32H□-B10		M10X1.5			SZPT0-B10
SZPT40H□-B8	23	B8:M8X1.25 B10:M10X1.5	3-M3X0.5	6	SZPT1-B8 SZPT1-B10
SZPT40H□-B10					
SZPT50H□-B8					
SZPT50H□-B10					
SZPT63H□-B8	26	B8:M8X1.25 B10:M10X1.5 B12:M12X1.75 B16:M16X1.5	4-M4X0.7	8	SZPT2-B8 SZPT2-B10 SZPT2-B12 SZPT2-B16
SZPT63H□-B10					
SZPT63H□-B12					
SZPT63H□-B16					
SZPT80H□-B8	28				
SZPT80H□-B10					
SZPT80H□-B12					
SZPT80H□-B16					
SZPT100H□-B12	34	B12:M12X1.75 B16:M16X1.5	4-M5X0.8	10	SZPT3-B12 SZPT3-B16
SZPT100H□-B16					
SZPT125H□-B12					
SZPT125H□-B16					

◎ SZPT/SZPX Heavy Duty without Buffer

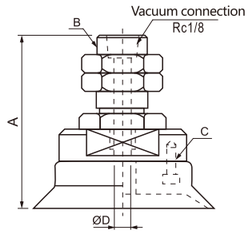




Model	A	B	C	D	Replace The Support Model
SZPT32HB□-B5	30	M5X0.8	3-M2.5X0.45	5	SZPT0-B5
SZPT32HB□-B8		M8X1.25			SZPT0-B8
SZPT32HB□-B10		M10X1.5			SZPT0-B10
SZPT40HB□-B8	32	B8:M8X1.25 B10:M10X1.5	3-M3X0.5	6	SZPT1-B8 SZPT1-B10
SZPT40HB□-B10					
SZPT50HB□-B8	35.5				
SZPT50HB□-B10					
SZPT63HB□-B8	43	B8:M8X1.25 B10:M10X1.5 B12:M12X1.75 B16:M16X1.5	4-M4X0.7	8	SZPT2-B8 SZPT2-B10 SZPT2-B12 SZPT2-B16
SZPT63HB□-B10					
SZPT63HB□-B12					
SZPT63HB□-B16					
SZPT80HB□-B8	48.5				
SZPT80HB□-B10					
SZPT80HB□-B12					
SZPT80HB□-B16					
SZPT100HB□-B12	60.5	B12:M12X1.75 B16:M16X1.5	4-M5X0.8	10	SZPT3-B12 SZPT3-B16
SZPT100HB□-B16					
SZPT125HB□-B12	69				
SZPT125HB□-B16					

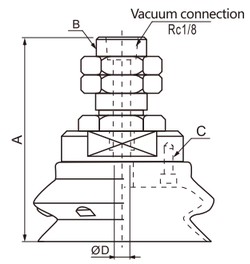
◎ SZPT Male Thread without Buffering





Model	A	B	C	D	Replace The Support Model
SZPT32H□-A14	49.5	M14X1.0	3-M2.5X0.45	3	SZPT0-A14
SZPT40H□-A14	53		3-M3X0.5		SZPT1-A14
SZPT50H□-A14					
SZPT63H□-A16	56	M16X0.7	4-M4X0.7	8	SZPT2-A16
SZPT80H□-A16	58				
SZPT100H□-A16	64				SZPT3-A16
SZPT125H□-A16					

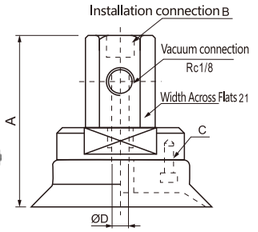




Model	A	B	C	D	Replace The Support Model
SZPT32HB□-A14	60	M14X1.0	3-M2.5X0.45	3	SZPT0-A14
SZPT40HB□-A14	62		3-M3X0.5		SZPT1-A14
SZPT50HB□-A14	65.5				
SZPT63HB□-A16	73	M16X1.5	4-M4X0.7	8	SZPT2-A16
SZPT80HB□-A16	78.5				
SZPT100HB□-A16	90.5				SZPT3-A16
SZPT125HB□-A16	99				

◎ SZPX Female Thread without Buffering



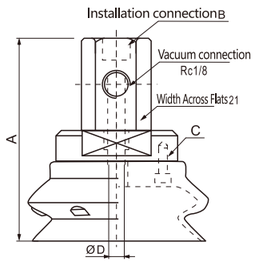


Model	A	B	C	ØD	Replace The Support Model
SZPX32H□-B01-B8	56.5	B8:M8X1.25 B10:M10X1.5	3-M2.5X0.45	3	SZPX0-B8 SZPX0-B10
SZPX32H□-B01-B10					
SZPX40H□-B01-B8	60		3-M3X0.5		SZPX1-B8 SZPX1-B10
SZPX40H□-B01-B10					
SZPX50H□-B01-B8					
SZPX50H□-B01-B10					
SZPX63H□-B01-B10	63	B10:M10X1.5 B12:M12X1.75	4-M4X0.7	4	SZPX2-B10 SZPX2-B12
SZPX63H□-B01-B12					
SZPX80H□-B01-B10	65				
SZPX80H□-B01-B12					
SZPX100H□-B01-B10	71				SZPX3-B10 SZPX3-B12
SZPX100H□-B01-B12					
SZPX125H□-B01-B10					
SZPX125H□-B01-B12					

SZPT/SZPX Heavy Duty without Buffer

◎ SZPX Female Thread without Buffering





Model	A	B	C	ØD	Replace The Support Model
SZPX32HB□-B01-B8	56.5	B8:M8X1.25 B10:M10X1.5	3-M2.5X0.45	3	SZPX0-B8 SZPX0-B10
SZPX32HB□-B01-B10					
SZPX40HB□-B01-B8	60		3-M3X0.5		SZPX1-B8 SZPX1-B10
SZPX40HB□-B01-B10					
SZPX50HB□-B01-B8					
SZPX50HB□-B01-B10					
SZPX63HB□-B01-B10	63	B10:M10X1.5 B12:M12X1.75	4-M4X0.7	4	SZPX2-B10 SZPX2-B12
SZPX63HB□-B01-B12					
SZPX80HB□-B01-B10	65				
SZPX80HB□-B01-B12					
SZPX100HB□-B01-B10	71				SZPX3-B10 SZPX3-B12
SZPX100HB□-B01-B12					
SZPX125HB□-B01-B10					
SZPX125HB□-B01-B12					

SZPT/SZPX
Heavy Duty with Buffer



How to Order?

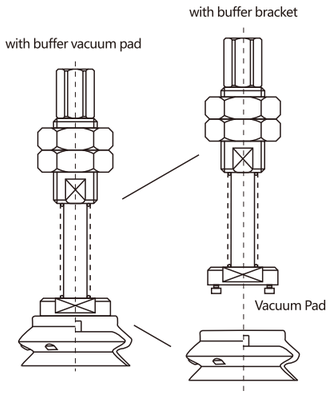
Series No.	Stent Model	Pad Diameter	Pad Model	J	Pad Material	Buffer Stroke	—	Vacuum Inlet Mounting	—	Installation and Connection Mode
SZP: SZP Series	T: Vertical X: Lateral	32: Ø32 80: Ø80 40: Ø40 100: Ø100 50: Ø50 125: Ø125 63: Ø63	H: Heavy Duty Model HB: Heavy Duty Bellows Type		N: NBR S: Silicone Rubber			B01: Rc1/8		A18: M18×1.5 (Ø32,Ø80) A22: M22×1.5 (Ø100,Ø125)

Stroke	Ø32~Ø80	Ø100~Ø125
25	•	•
50	•	•
75	•	•
100		•

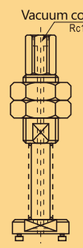
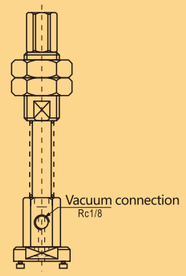
Spring Force		
Ø32~Ø80	Initial force	6.9N
	Terminal force	11.8N
Ø100~Ø125	Initial force	10N
	Terminal force	15N

Order Example: SZP Series Heavy Duty Model with Cushion Vacuum Suction Cup, Vertical, Suction Cup Diameter Ø40, Heavy Duty Model, NBR.Cushion stroke 25, Vacuum Inlet Mounting: Rc1/8; Mounting connection thread diameter M18 x 1.5.The ordering code is: SZPT40HNJ25-B01-A18

How to Order Bracket ?



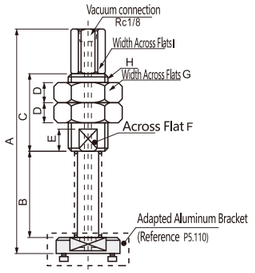
Use a wrench to screw in the hex bolts on the underside of the suction cup, tighten the bolts to ensure there is no gap between the new suction cup and the aluminum bracket.

Pad Diameter	Bracket with Buffer Model SZPTVertical	Bracket with Buffer Model SZPXLateral
		
Ø32	SZPT0J- 25 / 50 / 75 -B01-A18	SZPX0J- 25 / 50 / 75 -B01-A18
Ø40、Ø50	SZPT1J- 25 / 50 / 75 -B01-A18	SZPX1J- 25 / 50 / 75 -B01-A18
Ø63、Ø80	SZPT2J- 25 / 50 / 75 -B01-A18	SZPX2J- 25 / 50 / 75 -B01-A18
Ø100-Ø125	SZPT3J- 25 / 50 / 75 / 100 -B01-A22	SZPX3J- 25 / 50 / 75 / 100 -B01-A22

SZPT/SZPX Heavy Duty with Buffer

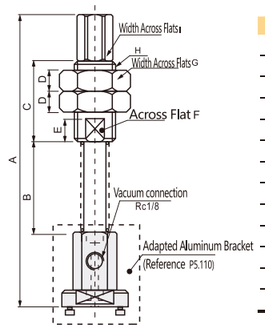
Bracket Size





Model	A	B	C	D	E	F	G	H	I	J
SZPT0J25-B01-A18	107	40	35	9	10	16	27	M18X1.5	14	SZPT0-B8
SZPT0J50-B01-A18	142	75								
SZPT0J75-B01-A18	478	116								
SZPT1J25-B01-A18	107	40								SZPT1-B8
SZPT1J50-B01-A18	142	75								
SZPT1J75-B01-A18	478	116								
SZPT2J25-B01-A18	107	40								SZPT2-B8
SZPT2J50-B01-A18	142	75								
SZPT2J75-B01-A18	478	116								
SZPT3J25-B01-A22	131	44	50	9.5	10	19	30	M22X1.5	17	SZPT3-B12
SZPT3J50-B01-A22	167	80								
SZPT3J75-B01-A22	197	120								
SZPT3J100-B01-A22	242	155								

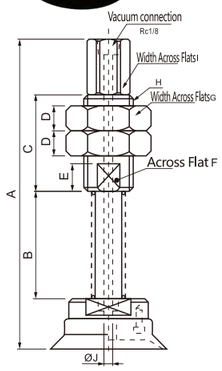




Model	A	B	C	D	E	F	G	H	I	J
SZPX0J25-B01-A18	139.5	40	35	9	10	16	27	M18X1.5	14	SZPX0-B8
SZPX0J50-B01-A18	174.5	75								
SZPX0J75-B01-A18	210.5	116								
SZPX1J25-B01-A18	139.5	40								SZPX1-B8
SZPX1J50-B01-A18	174.5	75								
SZPX1J75-B01-A18	210.5	116								
SZPX2J25-B01-A18	139.5	40								SZPX2-B8
SZPX2J50-B01-A18	174.5	75								
SZPX2J75-B01-A18	210.5	116								
SZPX3J25-B01-A22	165	44	50	9.5	10	19	30	M22X1.5	17	SZPX3-B12
SZPX3J50-B01-A22	201	80								
SZPX3J75-B01-A22	241	120								
SZPX3J100-B01-A22	276	155								

Pad with Buffer Size

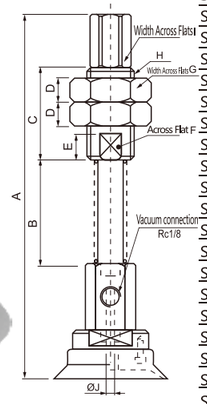




Model	A	B	C	D	E	F	G	H	I	ØJ	Replace The Support Model.
SZPT32H□J25-B01-A18	115	40	35	9	10	16	27	M18X1.5	14	3	SZPT0J25-B01-A18
SZPT32H□J50-B01-A18	150	75									SZPT0J50-B01-A18
SZPT32H□J75-B01-A18	186	116									SZPT0J75-B01-A18
SZPT40H□J25-B01-A18	118.5	40									SZPT1J25-B01-A18
SZPT40H□J50-B01-A18	153.5	75									SZPT1J50-B01-A18
SZPT40H□J75-B01-A18	189.5	116									SZPT1J75-B01-A18
SZPT50H□J25-B01-A18	118.5	40									SZPT1J25-B01-A18
SZPT50H□J50-B01-A18	153.5	75									SZPT1J50-B01-A18
SZPT50H□J75-B01-A18	189.5	116									SZPT1J75-B01-A18
SZPT63H□J25-B01-A18	121.5	40									SZPT2J25-B01-A18
SZPT63H□J50-B01-A18	156.5	75									SZPT2J50-B01-A18
SZPT63H□J75-B01-A18	192.5	116									SZPT2J75-B01-A18
SZPT80H□J25-B01-A18	123.5	40									SZPT2J25-B01-A18
SZPT80H□J50-B01-A18	158.5	75									SZPT2J50-B01-A18
SZPT80H□J75-B01-A18	194.5	116									SZPT2J75-B01-A18
SZPT100H□J25-B01-A22	152	44	50	9.5	10	19	30	M22X1.5	17	4	SZPT3J25-B01-A22
SZPT100H□J50-B01-A22	188	80									SZPT3J50-B01-A22
SZPT100H□J75-B01-A22	228	120									SZPT3J75-B01-A22
SZPT100H□J100-B01-A22	263	155									SZPT3J100-B01-A22
SZPT125H□J25-B01-A22	152	44									SZPT3J25-B01-A22
SZPT125H□J50-B01-A22	188	80									SZPT3J50-B01-A22
SZPT125H□J75-B01-A22	228	120									SZPT3J75-B01-A22
SZPT125H□J100-B01-A22	263	155									SZPT125HB□J100-B01-A22

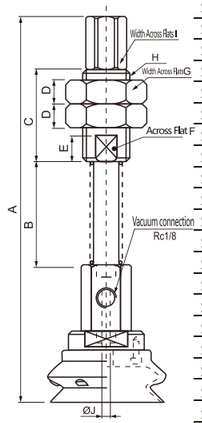
◎ Pad with Buffer Size





Model	A	B	C	D	E	F	G	H	I	ØJ	Replace The Support Model.
SZPX32H□J25-B01-A18	147.5	40									SZPX0J25-B01-A18
SZPX32H□J50-B01-A18	182.5	75									SZPX0J50-B01-A18
SZPX32H□J75-B01-A18	218.5	116									SZPX0J75-B01-A18
SZPX40H□J25-B01-A18	151	40									SZPX1J25-B01-A18
SZPX40H□J50-B01-A18	186	75									SZPX1J50-B01-A18
SZPX40H□J75-B01-A18	222	116									SZPX1J75-B01-A18
SZPX50H□J25-B01-A18	151	40									SZPX1J25-B01-A18
SZPX50H□J50-B01-A18	186	75	35	9	10	16	27	M18X1.5	14	3	SZPX1J50-B01-A18
SZPX50H□J75-B01-A18	222	116									SZPX1J75-B01-A18
SZPX63H□J25-B01-A18	154	40									SZPX2J25-B01-A18
SZPX63H□J50-B01-A18	189	75									SZPX2J50-B01-A18
SZPX63H□J75-B01-A18	225	116									SZPX2J75-B01-A18
SZPX80H□J25-B01-A18	156	40									SZPX2J25-B01-A18
SZPX80H□J50-B01-A18	191	75									SZPX2J50-B01-A18
SZPX80H□J75-B01-A18	227	116									SZPX2J75-B01-A18
SZPX100H□J25-B01-A22	186	44									SZPX3J25-B01-A22
SZPX100H□J50-B01-A22	222	80									SZPX3J50-B01-A22
SZPX100H□J75-B01-A22	262	120									SZPX3J75-B01-A22
SZPX100H□J100-B01-A22	297	155									SZPX3J100-B01-A22
SZPX125H□J25-B01-A22	186	44	50	9.5	10	19	30	M22X1.5	17	4	SZPX3J25-B01-A22
SZPX125H□J50-B01-A22	222	80									SZPX3J50-B01-A22
SZPX125H□J75-B01-A22	262	120									SZPX3J75-B01-A22
SZPX125H□J100-B01-A22	297	155									SZPX3J100-B01-A22





Model	A	B	C	D	E	F	G	H	I	ØJ	Replace The Support Model.
SZPX32HB□J25-B01-A18	158	40									SZPX0J25-B01-A18
SZPX32HB□J50-B01-A18	193	75									SZPX0J50-B01-A18
SZPX32HB□J75-B01-A18	229	116									SZPX0J75-B01-A18
SZPX40HB□J25-B01-A18	160	40									SZPX1J25-B01-A18
SZPX40HB□J50-B01-A18	195	75									SZPX1J50-B01-A18
SZPX40HB□J75-B01-A18	231	116									SZPX1J75-B01-A18
SZPX50HB□J25-B01-A18	163.5	40									SZPX1J25-B01-A18
SZPX50HB□J50-B01-A18	198.5	75	35	9	10	16	27	M18X1.5	14	3	SZPX1J50-B01-A18
SZPX50HB□J75-B01-A18	234.5	116									SZPX1J75-B01-A18
SZPX63HB□J25-B01-A18	171	40									SZPX2J25-B01-A18
SZPX63HB□J50-B01-A18	206	75									SZPX2J50-B01-A18
SZPX63HB□J75-B01-A18	242	116									SZPX2J75-B01-A18
SZPX80HB□J25-B01-A18	176.5	40									SZPX2J25-B01-A18
SZPX80HB□J50-B01-A18	211.5	75									SZPX2J50-B01-A18
SZPX80HB□J75-B01-A18	247.5	116									SZPX2J75-B01-A18
SZPX100HB□J25-B01-A22	212.5	44									SZPX3J25-B01-A22
SZPX100HB□J50-B01-A22	248.5	80									SZPX3J50-B01-A22
SZPX100HB□J75-B01-A22	288.5	120									SZPX3J75-B01-A22
SZPX100HB□J100-B01-A22	323.5	155									SZPX3J100-B01-A22
SZPX125HB□J25-B01-A22	221	44	50	9.5	10	19	30	M22X1.5	17	4	SZPX3J25-B01-A22
SZPX125HB□J50-B01-A22	257	80									SZPX3J50-B01-A22
SZPX125HB□J75-B01-A22	297	120									SZPX3J75-B01-A22
SZPX125HB□J100-B01-A22	332	155									SZPX3J100-B01-A22

SZP2-T/X

Heavy Duty Rotating without Buffer



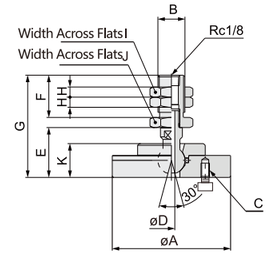
◎ How to Order?

Series No.	—	Stent Model		Pad Diameter	Pad Model	Pad Material
SZP2: SZP2 Series		T: Vertical X: Lateral	F: Rotating Model	32: Ø32 40: Ø40 50: Ø50 63: Ø63 80: Ø80 100: Ø100 125: Ø125	H: Heavy Duty Model HB: Heavy Duty Bellows Type	N: NBR S: Silicone Rubber

Order Example: SZP2 series heavy duty rotating vacuum pad without buffer, direction vertical,rotating model,diameterφ40, heavy duty model,NBR.ERP code is SZP2-TF40HN.

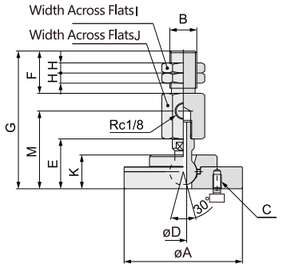
◎ Bracket Size





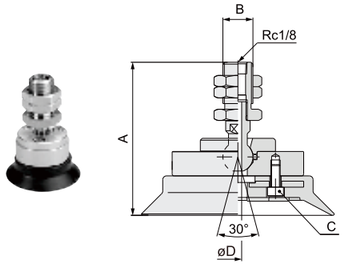
Model	ØA	B	C	ØD	E	F	G	H	I	J	K
SZP2A-TF0	30	M14X1	3-M2.5X0.45	2	21.5	21	47.5	5	19	19	14.5
SZP2A-TF1	30	M14X1	3-M3X0.5	2	21.5	21	47.5	5	19	19	14.5
SZP2A-TF2	50	M16X1.5	4-M4X0.7	4	28.5	25	59.5	6	22	22	19
SZP2A-TF3	70	M16X1.5	4-M5X0.8	4	29.5	25	60.5	6	22	22	20



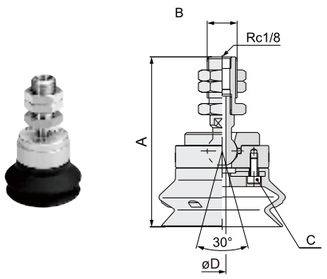


Model	ØA	B	C	ØD	E	F	G	H	I	J	K	M
SZP2A-XF0	30	M14X1	3-M2.5X0.45	2	21.5	21	59.5	5	19	19	14.5	32
SZP2A-XF1	30	M14X1	3-M3X0.5	2	21.5	21	59.5	5	19	19	14.5	32
SZP2A-XF2	50	M16X1.5	4-M4X0.7	4	28.5	25	80.5	6	22	22	19	45
SZP2A-XF3	70	M16X1.5	4-M5X0.8	4	29.5	25	81.5	6	22	22	20	46

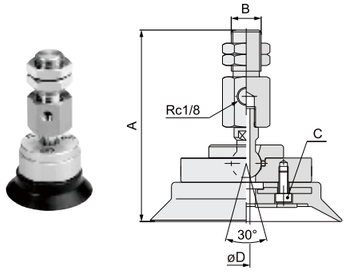
◎ Pad without Buffer Size



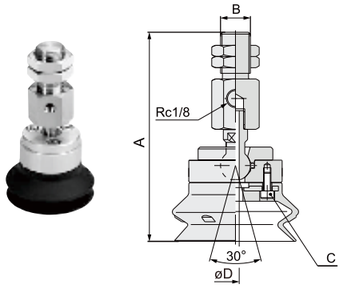
Model	A	B	C	ØD	Replace The Support Model.
SZP2-TF32H□	55.5	M14X1.0	3-M2.5X0.45	2	SZP2A-TF0
SZP2-TF40H□	59		3-M3X0.5		SZP2A-TF1
SZP2-TF50H□	59				
SZP2-TF63H□	74	M16X1.5	4-M4X0.7	4	SZP2A-TF2
SZP2-TF80H□	76				
SZP2-TF100H□	81.5		4-M5X0.8		SZP2A-TF3
SZP2-TF125H□	81.5				



Model	A	B	C	ØD	Replace The Support Model.
SZP2-TF32HB□	66	M14X1.0	3-M2.5X0.45	2	SZP2A-TF0
SZP2-TF40HB□	68		3-M3X0.5		SZP2A-TF1
SZP2-TF50HB□	71.5				
SZP2-TF63HB□	91	M16X1.5	4-M4X0.7	4	SZP2A-TF2
SZP2-TF80HB□	96.5				
SZP2-TF100HB□	108		4-M5X0.8		SZP2A-TF3
SZP2-TF125HB□	116.5				



Model	A	B	C	ØD	Replace The Support Model.
SZP2-XF32HB□	67.5	M14X1.0	3-M2.5X0.45	2	SZP2A-XF0
SZP2-XF40HB□	71		3-M3X0.5		SZP2A-XF1
SZP2-XF50HB□	71				
SZP2-XF63HB□	95	M16X1.5	4-M4X0.7	4	SZP2A-XF2
SZP2-XF80HB□	97				
SZP2-XF100HB□	102.5		4-M5X0.8		SZP2A-XF3
SZP2-XF125HB□	102.5				



Model	A	B	C	ØD	Replace The Support Model.
SZP2-XF32HB□	78	M14X1.0	3-M2.5X0.45	2	SZP2A-XF0
SZP2-XF40HB□	80		3-M3X0.5		SZP2A-XF1
SZP2-XF50HB□	83.5				
SZP2-XF63HB□	112	M16X1.5	4-M4X0.7	4	SZP2A-XF2
SZP2-XF80HB□	117.5				
SZP2-XF100HB□	129		4-M5X0.8		SZP2A-XF3
SZP2-XF125HB□	137.5				

SZP2-T/X

Heavy Duty Rotating with Buffer



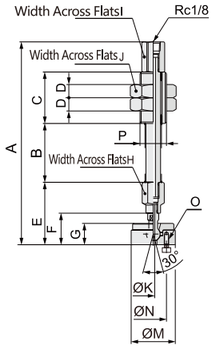
◎ How to Order?

Series No.	—	Stent Model	□	Pad Diameter	Pad Model	Pad Material	JB	缓冲行程
SZP2: SZP Series		T: Vertical X: Lateral	F: Rotating Model	32: Ø32 40: Ø40 50: Ø50 63: Ø63 80: Ø80 100: Ø100 125: Ø125	H: Heavy Duty Model HB: Heavy Duty Bellows Type	N: NBR S: Silicone Rubber		25 50 75 100

Order Example: SZP2 series heavy duty rotating vacuum pad with buffer, direction vertical,rotating model,diameterφ40, heavy duty model,silicone rubber,strok25.
ERP code is SZP2-TF40HN-25.

◎ Rotating Bracket with Buffer Size



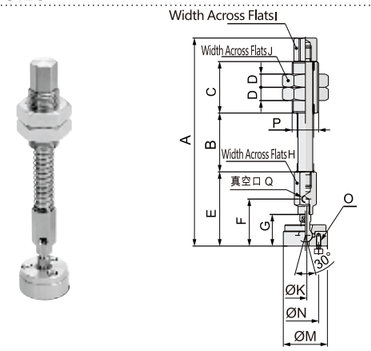


Model	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P
SZP2B-TF0JB25	138	40	35	9	42.5	21.5	14.5	13	14	27	2	30	14	3-M2.5X0.45	M14X1.0
SZP2B-TF0JB50	173	75													
SZP2B-TF0JB75	209	111													
SZP2B-TF1JB25	138	40											18	3-M3X0.5	
SZP2B-TF1JB50	173	75													
SZP2B-TF1JB75	209	111													
SZP2B-TF2JB25	172.5	44	50	9.5	54.5	28.5	19	17	17	30	4	50	34	4-M4X0.7	M16X1.5
SZP2B-TF2JB50	208.5	80													
SZP2B-TF2JB75	248.5	120													
SZP2B-TF2JB100	283.5	155													
SZP2B-TF3JB25	173.5	44			55.5	29.5	20	17	17	30	4	70	40	4-M5X0.8	
SZP2B-TF3JB50	209.5	80													
SZP2B-TF3JB75	249.5	120													
SZP2B-TF3JB100	284.5	155													

SZP2-T/X Heavy Duty Rotating with Buffer

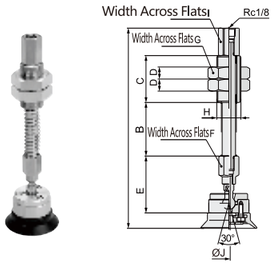
E•MC®

◎ Rotating Bracket with Buffer Size



Model	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q
SZP2B-XF0JB25	141.5	40	35	9	42.5	21.5	14.5	13	14	27	2	30	14	3-M2.5X0.45	M14X1.0	M5X0.8
SZP2B-XF0JB50	176.5	75														
SZP2B-XF0JB75	212.5	111														
SZP2B-XF1JB25	141.5	40											18	3-M3X0.5		
SZP2B-XF1JB50	176.5	75														
SZP2B-XF1JB75	212.5	111														
SZP2B-XF2JB25	182.5	44	50	9.5	54.5	28.5	19	17	17	30	4	50	34	4-M4X0.7	M16X1.5	Rc1/8
SZP2B-XF2JB50	218.5	80														
SZP2B-XF2JB75	258.5	120														
SZP2B-XF2JB100	293.5	155														
SZP2B-XF3JB25	182.5	44			55.5	29.5	20	17	17	30	4	70	40	4-M5X0.8		
SZP2B-XF3JB50	218.5	80														
SZP2B-XF3JB75	258.5	120														
SZP2B-XF3JB100	293.5	155														

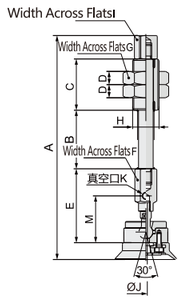
◎ Rotating Bracket with Buffer Size



Model	A	B	C	D	E	F	G	H	I	ØJ	Replace The Support Model.
SZP2-TF32HB□JB25	156.5	40	35	9	42.5	13	27	M18X1.5	14	2	SZP2B-TF0JB25
SZP2-TF32HB□JB50	191.5	75									SZP2B-TF0JB50
SZP2-TF32HB□JB75	227.5	111									SZP2B-TF0JB75
SZP2-TF40HB□JB25	58.5	40									SZP2B-TF1JB25
SZP2-TF40HB□JB50	193.5	75									SZP2B-TF1JB50
SZP2-TF40HB□JB75	229.5	111									SZP2B-TF1JB75
SZP2-TF50HB□JB25	158.5	40									SZP2B-TF1JB25
SZP2-TF50HB□JB50	193.5	75									SZP2B-TF1JB50
SZP2-TF50HB□JB75	229.5	111									SZP2B-TF1JB75
SZP2-TF63HB□JB25	204	44	50	9.5	54.5	17	30	M22X1.5	17	4	SZP2B-TF2JB25
SZP2-TF63HB□JB50	240	80									SZP2B-TF2JB50
SZP2-TF63HB□JB75	280	120									SZP2B-TF2JB75
SZP2-TF63HB□JB100	315	155									SZP2B-TF2JB100
SZP2-TF80HB□JB25	209.5	44									SZP2B-TF2JB25
SZP2-TF80HB□JB50	245.5	80									SZP2B-TF2JB50
SZP2-TF80HB□JB75	285.5	120									SZP2B-TF2JB75
SZP2-TF80HB□JB100	320.5	155									SZP2B-TF2JB100
SZP2-TF100HB□JB25	221	44			55.5						SZP2B-TF3JB25
SZP2-TF100HB□JB50	257	80									SZP2B-TF3JB50
SZP2-TF100HB□JB75	297	120									SZP2B-TF3JB75
SZP2-TF100HB□JB100	332	155									SZP2B-TF3JB100
SZP2-TF125HB□JB25	229.5	44									SZP2B-TF3JB25
SZP2-TF125HB□JB50	265.5	80									SZP2B-TF3JB50
SZP2-TF125HB□JB75	305.5	120									SZP2B-TF3JB75
SZP2-TF125HB□JB100	340.5	155									SZP2B-TF3JB100

◎ Rotating Bracket with Buffer Size





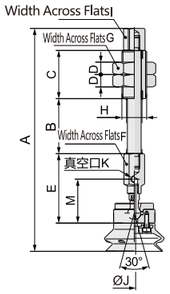
Model	A	B	C	D	E	F	G	H	I	ØJ	K	E	Replace The Support Model.
SZP2-XF32H□JB25	149.5	40	35	9	42.5	13	27	M18X1.5	14	2	M5X0.8	32	SZP2B-XF0JB25
SZP2-XF32H□JB50	184.5	75											SZP2B-XF0JB50
SZP2-XF32H□JB75	220.5	111											SZP2B-XF0JB75
SZP2-XF40H□JB25	153	40											SZP2B-XF1JB25
SZP2-XF40H□JB50	188	75											SZP2B-XF1JB50
SZP2-XF40H□JB75	224	111											SZP2B-XF1JB75
SZP2-XF50H□JB25	153	40											SZP2B-XF1JB25
SZP2-XF50H□JB50	188	75											SZP2B-XF1JB50
SZP2-XF50H□JB75	224	111											SZP2B-XF1JB75
SZP2-XF63H□JB25	197	44	50	9.5	54.5	17	30	M22X1.5	17	4	Rc1/8	45	SZP2B-XF2JB25
SZP2-XF63H□JB50	233	80											SZP2B-XF2JB50
SZP2-XF63H□JB75	273	120											SZP2B-XF2JB75
SZP2-XF63H□JB100	308	155											SZP2B-XF2JB100
SZP2-XF80H□JB25	199	44											SZP2B-XF2JB25
SZP2-XF80H□JB50	235	80											SZP2B-XF2JB50
SZP2-XF80H□JB75	275	120											SZP2B-XF2JB75
SZP2-XF80H□JB100	310	155											SZP2B-XF2JB100
SZP2-XF100H□JB25	204.5	44			55.5							46	SZP2B-XF3JB25
SZP2-XF100H□JB50	240.5	80											SZP2B-XF3JB50
SZP2-XF100H□JB75	280.5	120											SZP2B-XF3JB75
SZP2-XF100H□JB100	315.5	155											SZP2B-XF3JB100
SZP2-XF125H□JB25	204.5	44											SZP2B-XF3JB25
SZP2-XF125H□JB50	240.5	80											SZP2B-XF3JB50
SZP2-XF125H□JB75	280.5	120											SZP2B-XF3JB75
SZP2-XF125H□JB100	315.5	155											SZP2B-XF3JB100

6
SZP2-T/X with Buffer

SZP2-T/X Heavy Duty Rotating with Buffer

◎ Rotating Bracket with Buffer Size





Model	A	B	C	D	E	F	G	H	I	ØJ	K	E	Replace The Support Model
SZP2-XF32HB□JB25	160	40	35	9	42.5	13	27	M18X1.5	14	2	M5X0.8	32	SZP2B-XF0JB25
SZP2-XF32HB□JB50	195	75											SZP2B-XF0JB50
SZP2-XF32HB□JB75	231	111											SZP2B-XF0JB75
SZP2-XF40HB□JB25	162	40											SZP2B-XF1JB25
SZP2-XF40HB□JB50	197	75											SZP2B-XF1JB50
SZP2-XF40HB□JB75	233	111											SZP2B-XF1JB75
SZP2-XF50HB□JB25	165.5	40											SZP2B-XF1JB25
SZP2-XF50HB□JB50	200.5	75											SZP2B-XF1JB50
SZP2-XF50HB□JB75	236.5	111											SZP2B-XF1JB75
SZP2-XF63HB□JB25	214	44	50	9.5	54.5	17	30	M22X1.5	17	4	Rc1/8	45	SZP2B-XF2JB25
SZP2-XF63HB□JB50	250	80											SZP2B-XF2JB50
SZP2-XF63HB□JB75	290	120											SZP2B-XF2JB75
SZP2-XF63HB□JB100	325	155											SZP2B-XF2JB100
SZP2-XF80HB□JB25	219.5	44											SZP2B-XF2JB25
SZP2-XF80HB□JB50	255.5	80											SZP2B-XF2JB50
SZP2-XF80HB□JB75	295.5	120											SZP2B-XF2JB75
SZP2-XF80HB□JB100	330.5	155											SZP2B-XF2JB100
SZP2-XF100HB□JB25	231	44			55.5							46	SZP2B-XF3JB25
SZP2-XF100HB□JB50	267	80											SZP2B-XF3JB50
SZP2-XF100HB□JB75	307	120											SZP2B-XF3JB75
SZP2-XF100HB□JB100	342	155											SZP2B-XF3JB100
SZP2-XF125HB□JB25	239.5	44											SZP2B-XF3JB25
SZP2-XF125HB□JB50	275.5	80											SZP2B-XF3JB50
SZP2-XF125HB□JB75	315.5	120											SZP2B-XF3JB75
SZP2-XF125HB□JB100	350.5	155											SZP2B-XF3JB100

Note: