

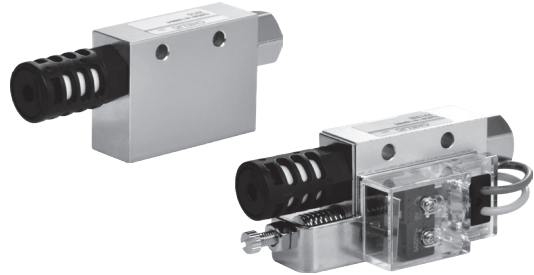
EV series Vacuum Ejectors

Product features/ Code of order

CHELIC

Feature

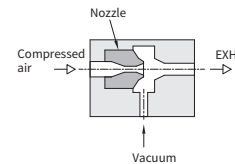
- Negative pressure easy to obtain by generating air pressure
- The filter element easy to change and replace when clog with dust.
- A variety of choices of nozzle diameter specifications.



Specification

Item	Model	05	10	15	20	25	30
Fluid		Air					
Ambient and fluid temperature	°C	0 ~ 60					
Lubrication		Unnecessary					
Operating pressure	MPa(kPa)	0.5(500)					
Nozzle diameter	Ø(mm)	0.5	1.0	1.5	2.0	2.5	3.0
Max. Vacuum value	kPa(mmHg)	-91.8(-690)					

Definition of vacuum ejectors



When compressor air through nozzle it generates high speed relasing and spreading that produce suction function.

Mechanical vacuum signal confirmation device

Item	Model	S (Fixed type)	SK (Adjustable type)
Setting range	kPa(mmHg)	-39.9(-300)	-20.0 ~ -53.2(-150 ~ -400)
Default setting	kPa(mmHg)	-39.9(-300)	-46.6(-350)
Accuracy	kPa(mmHg)	± 5.3(± -40)	
Hysteresis	kPa(mmHg)	4.0 ~ 13.3(30~100)	
Electrical rating		AC125V : 5A · AC250V : 3A	
Ambient and fluid temperature	°C	0 ~ 60	

Code of order **EV 20 - S**

1

Mark	Port size (mm)
05	0.5
10	1.0
15	1.5
20	2.0
25	2.5
30	3.0

2

Mark	Switching type
None	Without switch
S	With micro switch
SK	With micro switch and adjustable type

EV series Selection table :

Model	1 Port size	2 Switching type
EV	05	S · SK
	·	
	10	
	·	
	15	
	·	
20		
·		
25		
·		
30		

EV

EVM

VA□

VM□

VM□U

VHS

VSL

VKM

VKMT

VCK

VK20□

VK30□

VQ20□

VFD

VFM

VFU

ERV

ERVL

MVS

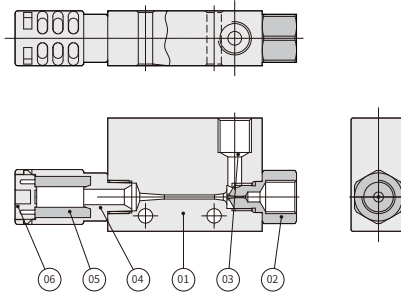
DYC

EV series Vacuum Ejectors

Product features

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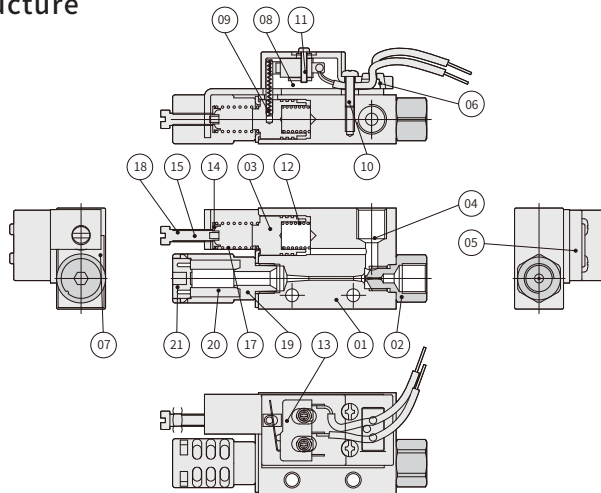
EV - Internal structure



EV - Components and material list

No.	Item	Material	No.	Item	Material
01	Body	Aluminum alloy	04	Silencer body	POM
02	Nozzle	Copper	05	Filter	PE foam
03	Filter chip	Stainless steel	06	Silencer rear cover	POM

EVSK - Internal structure



EVSK - Components and material list

No.	Item	Material	No.	Item	Material	No.	Item	Material
01	Body	Aluminum alloy	08	Sensor spacer	Steel	15	Bracket	Steel
02	Nozzle	Copper	09	Lever	Steel	16	Adjusting screw	Carbon steel
03	Adjusting block	Copper	10	Screw	Carbon steel	17	Spring	Spring steel
04	Filter chip	Stainless steel	11	Screw	Carbon steel	18	Bolt	Carbon steel
05	Bowl guard	Polycarbonate	12	Adjusting spring	Spring steel	19	Silencer body	POM
06	Cable holder	Rubber	13	Sensor with wires	-	20	Filter	PE foam
07	Blank	Steel	14	Spring block	Copper	21	Silencer rear cover	POM

EV series Vacuum Ejectors

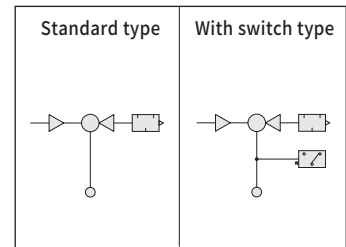
Product features

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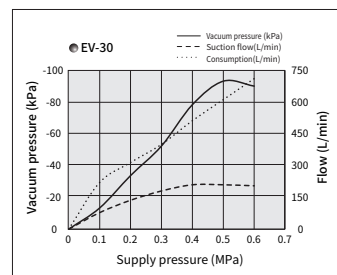
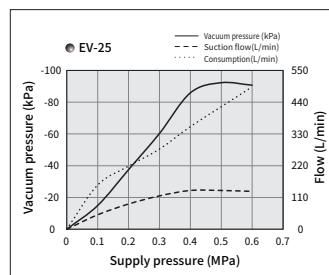
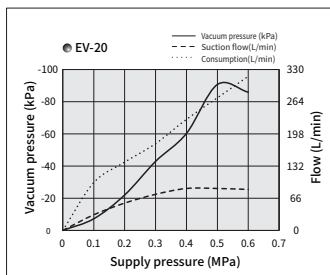
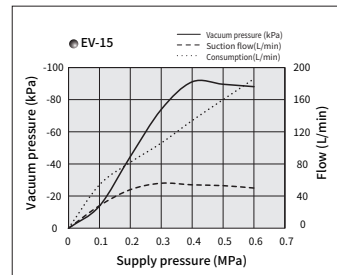
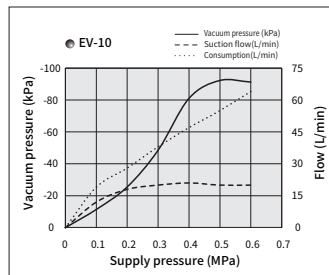
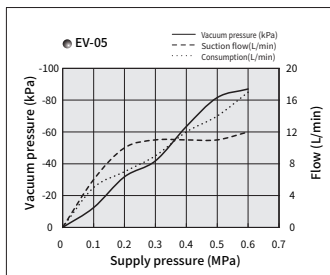
Product weight

EV						
Model	5	10	15	20	25	30
Weight(g)	80	73	140	337	732	850

Vacuum ejector symbol



Characteristics



Vacuum ejectors performance table

Model	Item	Nozzle diameter mm	Suction capacity L/min	Vacuum pressure kPa(mmHg)	Air consumption L/min	Operating pressure MPa(kPa)
EV-05		0.5	11	-86.7 (650)	14	0.5 (500)
EV-10		1.0	20	-91.8 (690)	55	0.5 (500)
EV-15		1.5	53	-91.8 (690)	160	0.5 (500)
EV-20		2.0	86	-91.8 (690)	272	0.5 (500)
EV-25		2.5	134	-91.8 (690)	424	0.5 (500)
EV-30		3.0	209	-91.8 (690)	611	0.5 (500)

EV

EVM

VA □

VM □

VM □ U

VHS

VSL

VKM

VKMT

VCK

VK20 □

VK30 □

VQ20 □

VFD

VFM

VFU

ERV

ERVL

MVS

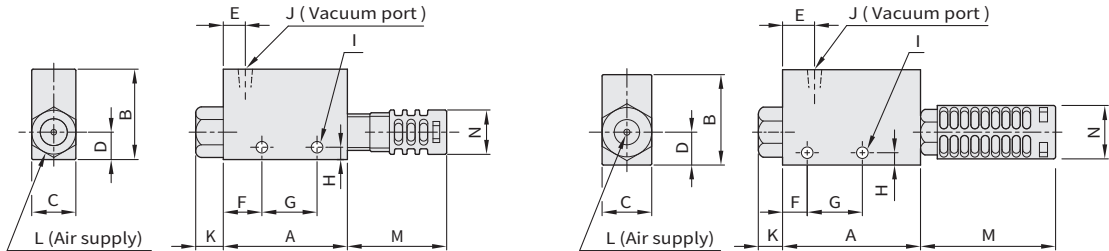
DYC

EV series Vacuum Ejectors

Dimensions

CHELIC

External dimensions



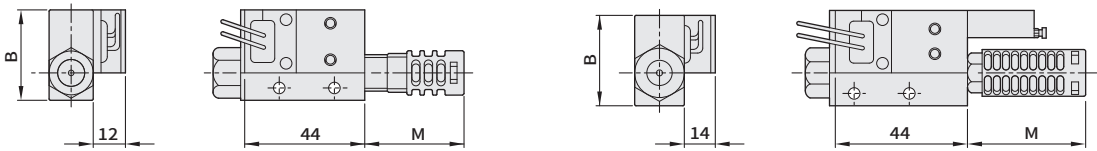
Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Silencer (Port size)
EV-05	45	33	16	10	8	14	20	4.5	2 - Ø4.2	PT 1/8	10	PT 1/8	27	Ø16	PT 1/8
EV-10	45	33	16	10	8	14	20	4.5	2 - Ø4.2	PT 1/8	10	PT 1/8	27	Ø16	PT 1/8
EV-15	63	35	20	11	10	20	25	5	2 - Ø4.5	PT 1/4	15	PT 1/4	52.8	Ø20	PT 1/4
EV-20	85	40	30	15	13	28	32	7	2 - Ø6	PT 3/8	20	PT 1/4	60.5	Ø30	PT 1/2
EV-25	100	60	40	20	16	20	50	5.5	2 - Ø6	PT 1/2	17	PT 3/8	84.3	Ø40	PT 3/4
EV-30	118	60	40	20	20	33	50	5.5	2 - Ø6	PT 3/4	20	PT 1/2	84.3	Ø40	PT 3/4

Selection of vacuum signal

- With micro-switch: S

- With switch and adjustable type: SK



Unit: mm

Item	Model	EV-05	EV-10	EV-15	EV-20	EV-25	EV-30
M		27	27	45.5	60.5	84.3	84.3
B		33	33	35	50	60	60