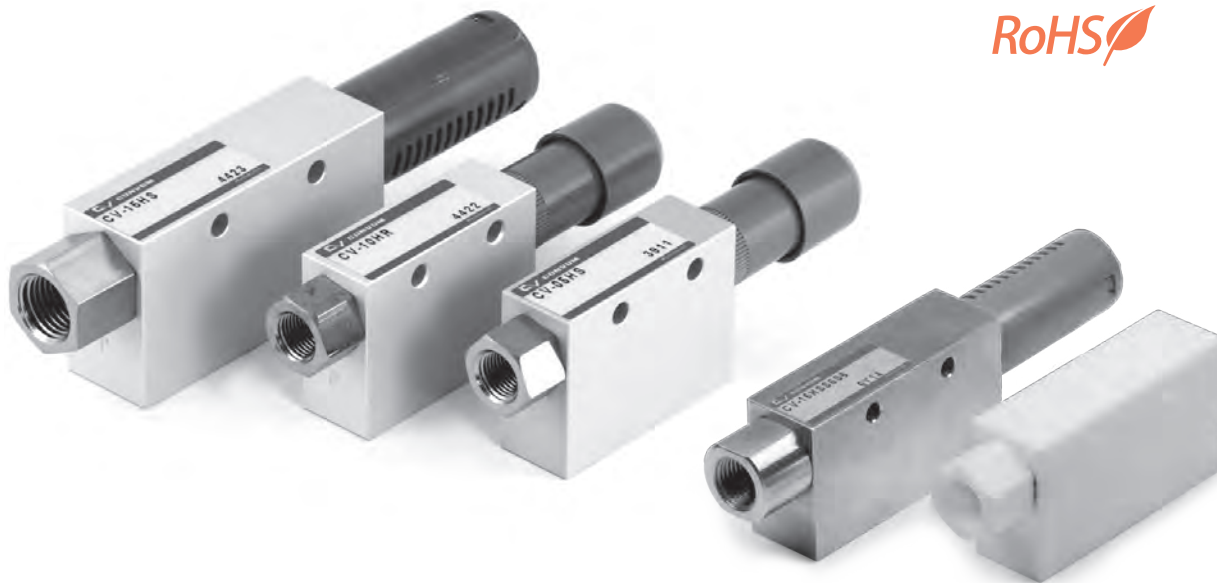


## Standard CONVUM

RoHS



## Standard vacuum ejector, extensive line up

- Various size of nozzle, from low to high vacuum flow

## SUS type and PTFE type are available

- Body and nozzle made of SUS303/316, PTFE, can be used in semiconductor manufacture process

## Long life

- No moving parts, simple construction

## Prevent the dust from getting into the silencer and supply port

- Dust-proof mesh mounted  
※ Please refer to silencer / mesh for supply port available list

## Mechanical switch can be mounted for aluminum body type



## How to Order

## Aluminum Type

CV – 05 H S CK  
① ② ③ ④

## ① Nozzle Type

Symbol	Nozzle size [mm]
05	0.5
10	1.0
15	1.5
20	2.0
25	2.5
30A	3.0

## ② Maximum Vacuum Pressure [kPa]

Symbol	Type	Vacuum pressure
H	High vacuum type	-87
L	High flow type	-53

## ③ Rated pressure [MPa]

Symbol	Rated pressure [MPa]
S	0.5
R	0.35

## ④ Switch

Blank	N/A
CK	With

※Switch is not mountable with nozzle type 25 and 30A.

※Switch can not be mounted afterwards.

## ※①②③④ Applicable Models

①	②	③		④
		S	R	
05	H	○	×	○
	L	○	×	
10	H	○	○	○
	L	○	×	
15	H	○	○	○
	L	○	×	
20	H	○	○	○
	L	○	×	
25	H	○	×	×
	L	○	×	
30A	H	○	×	×
	L	○	×	

## SUS/PTFE Type

CV – 10 H S T S3  
① ② ③ ④ ⑤

## ① Nozzle Type

Symbol	Nozzle size [mm]
10	1.0
15	1.5
20	2.0

## ② Maximum Vacuum Pressure [kPa]

Symbol	Type	Vacuum pressure
H	High vacuum type	-87
L	High flow type	-53

## ③ Rated pressure [MPa]

Symbol	Rated pressure [MPa]
S	0.5
R	0.35

## ④ Body Material

Symbol	Material
T	PTFE
S3	SUS303
S6	SUS316

## ⑤ Nozzle Material

Symbol	Nozzle
S3	SUS303
S6	SUS316

## ※①②③ Applicable Models

①	②	③	
		S	R
10	H	○	○
	L	○	×
15	H	○	○
	L	○	×
20	H	○	○
	L	○	×

## Specifications by Nozzle (common for all material)

Nozzle type	Rated pressure [MPa]	Maximum vacuum pressure [kPa]	Suction flow [L/min(ANR)]	Air consumption [L/min(ANR)]
05HS	0.5	-87	6	13
05LS		-57	9	
10HS		-92	27	44
10LS		-57	36	
10HR	0.35	-91	25	100
15HS	0.5	-92	63	
15LS		-57	95	
15HR	0.35	-91	54	
20HS	0.5	-92	110	180
20LS		-57	155	
20HR	0.35	-91	88	265
25HS	0.5	-92	160	
25LS		-57	250	
30AHS	0.5	-92	225	
30ALS		-57	350	

## ※ Silencer/ Mesh for Supply Port Available List

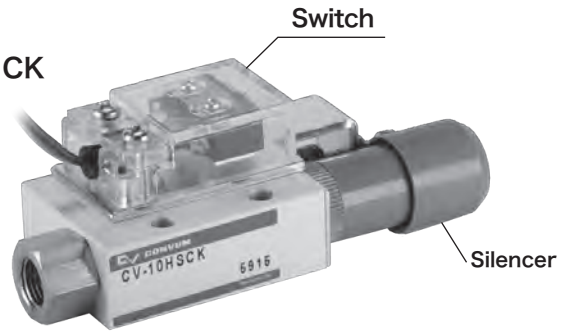
Material	Item	Nozzle size					
		05	10	15	20	25	30A
Aluminum	Mesh	○	○	○	×	×	×
	Silencer	○	○	○	○	○	○
SUS	Mesh	-	○	○	×	-	-
	Silencer	-	○	○	○	-	-
PTFE	Mesh	-	○	○	×	-	-
	Silencer	-	○	○	○	-	-

### Maintenance Parts

#### Silencer

Model number	Applicable body
MSS-01	CV-05, 10
MSM-01	CV-15
MSL-02	CV-20
MS6-01	CV-25, 30A

#### Switch CV – CK



### 01 CONVUM

- SC1
- SC2
- SC3
- MC22
- MC72
- CCV
- MCV
- CV**
- CVA2
- EC1
- MCA
- HDV
- HFV
- CVZ



**Recommend!**

These model number below satisfy general needs and functions with product advantages.

※Please feel free to contact us.

Product code	Model number	Specifications	
		Nozzle size (mm)	Switch
200100001	CV-05HS	0.5	N/A
200100002	CV-05LS	0.5	N/A
200100003	CV-10HS	1.0	N/A
200100005	CV-10LS	1.0	N/A
200100006	CV-15HS	1.5	N/A
200100008	CV-15LS	1.5	N/A
200100009	CV-20HS	2.0	N/A
200100011	CV-20LS	2.0	N/A
200100012	CV-25HS	2.5	N/A
200100014	CV-30AHS	3.0	N/A
200100033	CV-05HSCK	0.5	With
200100035	CV-10HSCK	1.0	With
200100038	CV-15HSCK	1.5	With

## CONVUM Specifications

Description \ Model number	Unit	CV-05		CV-10			CV-15			CV-20			CV-25		CV-30A	
		HS	LS	HS	LS	HR	HS	LS	HR	HS	LS	HR	HS	LS	HS	LS
Nozzle size	mm	0.5		1.0			1.5			2.0			2.5		3.0	
Fluid		Non-lubricated compressed air														
Ambient temperature	°C	0~60 (No Freezing)														
Operating pressure range	MPa	0.1~0.6														
Rated pressure	MPa	0.5		0.35			0.5			0.5			0.35		0.5	
Maximum vacuum pressure	kPa	-87	-57	-92	-57	-91	-92	-57	-91	-92	-57	-91	-92	-57	-92	-57
Suction flow	L/min(ANR)	6	9	27	36	25	63	95	54	110	155	88	160	250	225	350
Air consumption	L/min(ANR)	13		44			100			180			265		385	

## Switch Specifications

Description \ Model number	Unit	CV-CK	
Fluid		Air	
Operating pressure range	kPa	-20~-53	
Withstand pressure	MPa	0.5	
Ambient temperature range	°C	0~60 (No freezing)	
Ambient humidity range	%RH	35~85 (No condensation)	
Switch type		Reed switch, normally opened (N.O)	
Rated voltage	V	AC125, 250	
Maximum load current	AC125	A	5
	AC250	A	3
Repeatability	kPa	±5.3	
Hysteresis	kPa	4.0~13.3	
Cable length	mm	100	

## Silencer Specifications

Description \ Model number	Unit	MSS-01	MSM-01	MSL-02	MS6-01
Fluid		Non-lubricated compressed air			
Ambient temperature range	°C	0~60 (No freezing)			
Operating pressure range	MPa	0~0.5			
Port size		G1/8	G1/4	R1/2	G3/4
Noise reduction	dB	More than 20			
Applicable CONVUM		CV-05,10	CV-15	CV-20	CV-25,30A

## Weight (g) CONVUM Body (with silencer, without switch)

Material	Nozzle size					
	05	10	15	20	25	30A
Aluminum	78	139	343	730	870	
SUS	-	189	334	793	-	-
PTFE	-	66	116	295	-	-

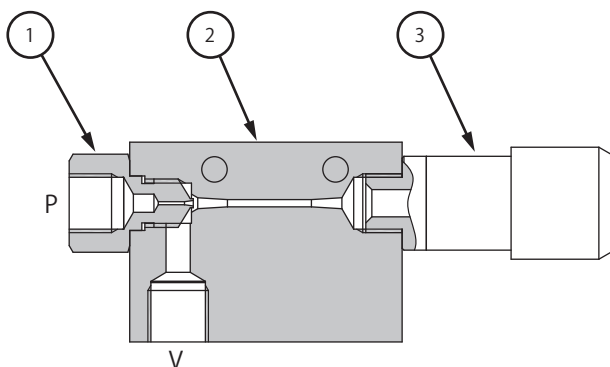
## Pressure Switch (with cable)

Nozzle size	05	10	15	20
Weight	40	40	50	110

## Silencer

Model number	Weight
MSS-01	5
MSM-01	7
MSL-02	25
MS6-01	54

## Construction

Component Parts  
Aluminum Body

No.	Parts name	Material
1	Supply port	Brass
2	Body	Aluminum
3	Silencer	POM, felt

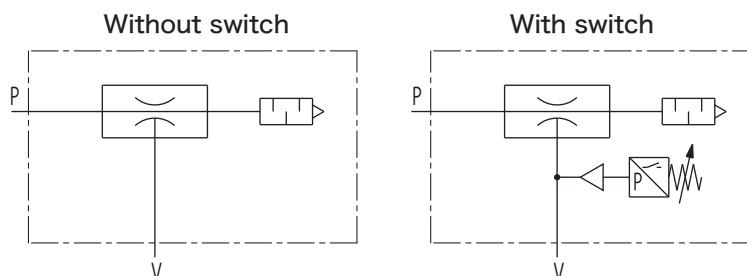
## SUS Body

No.	Parts name	Material
1	Supply port	SUS
2	Body	SUS
3	Silencer	POM, felt

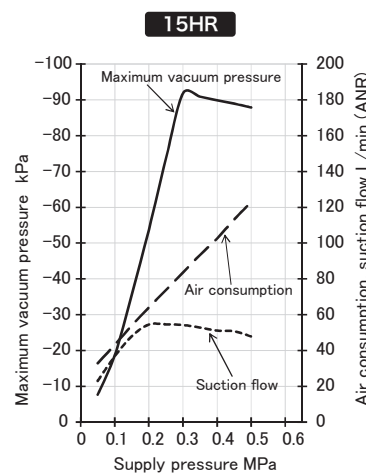
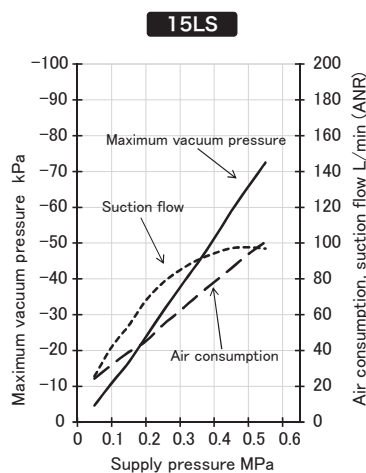
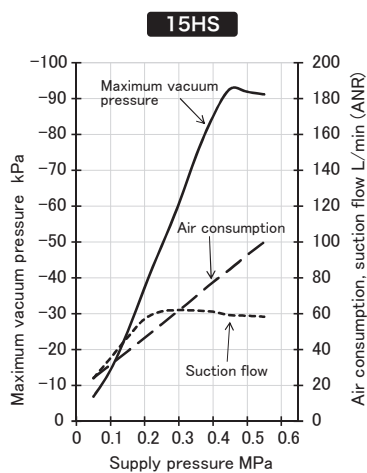
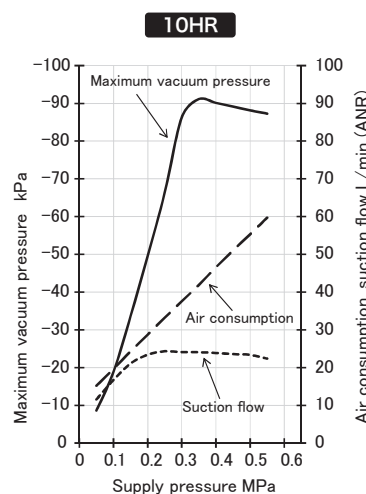
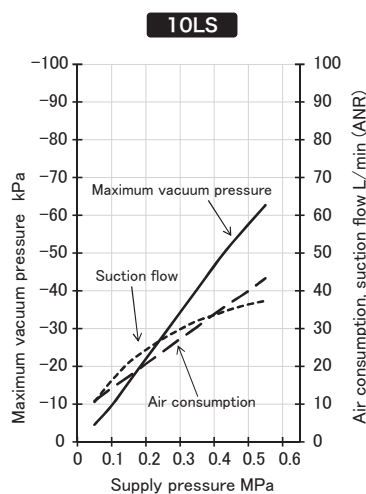
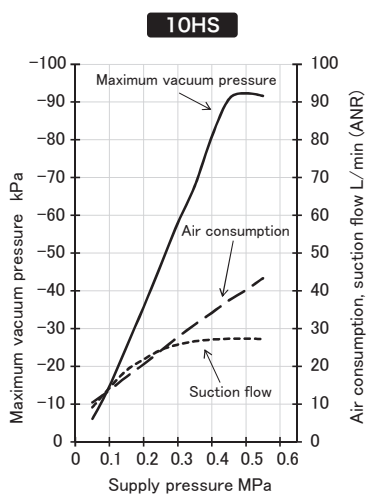
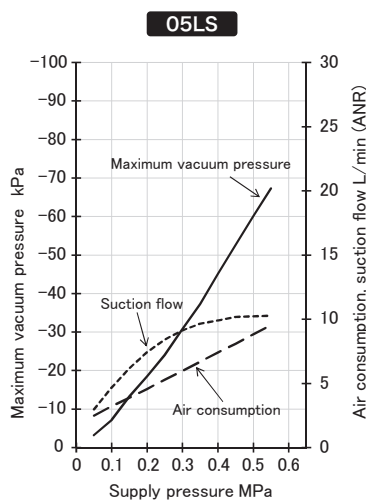
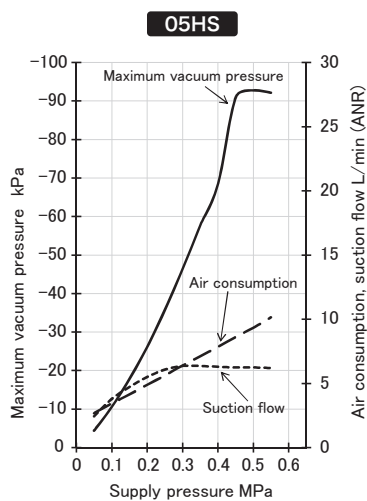
## PTFE Body

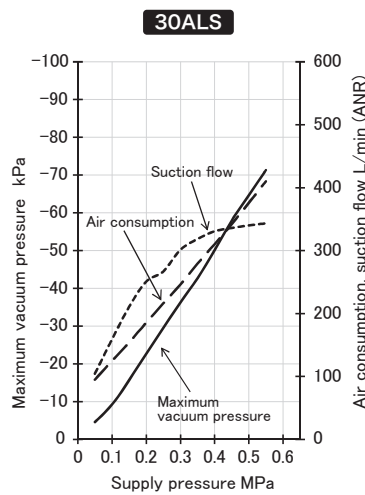
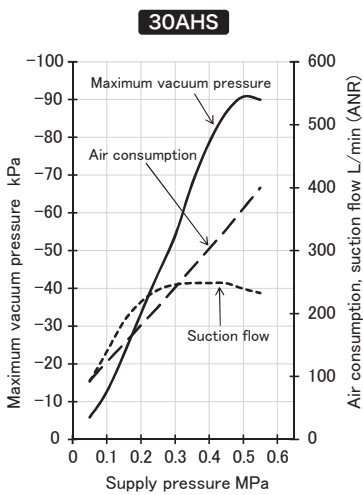
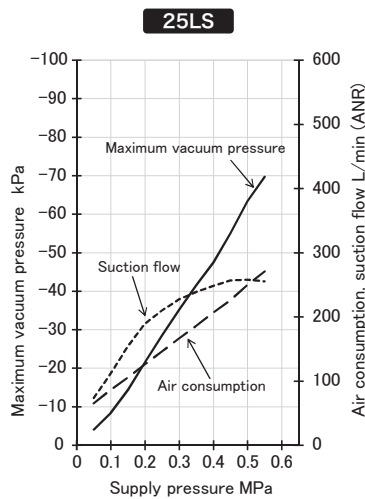
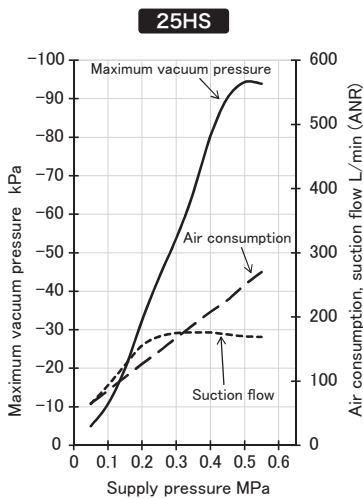
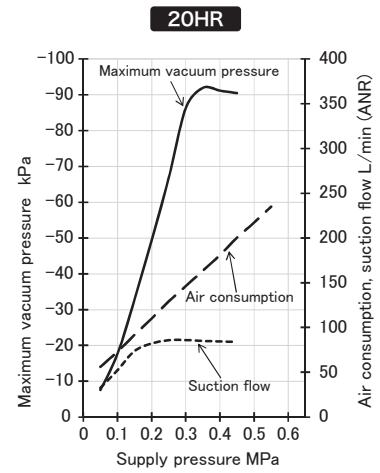
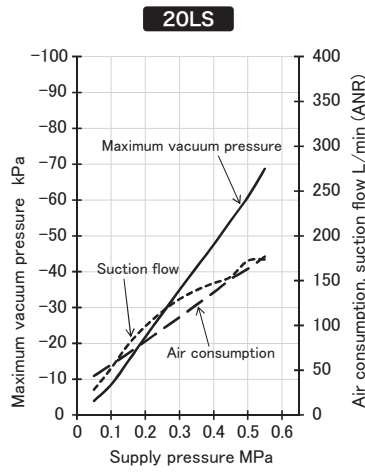
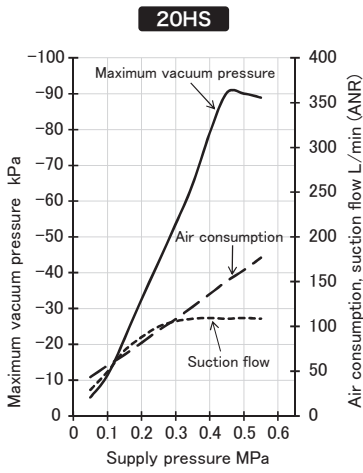
No.	Parts name	Material
1	Supply port	SUS
2	Body	PTFE
3	Silencer	POM, felt

## Symbol

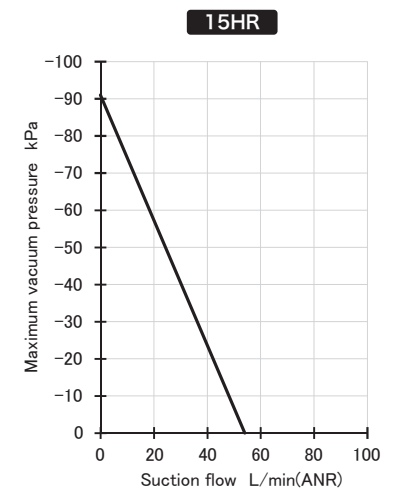
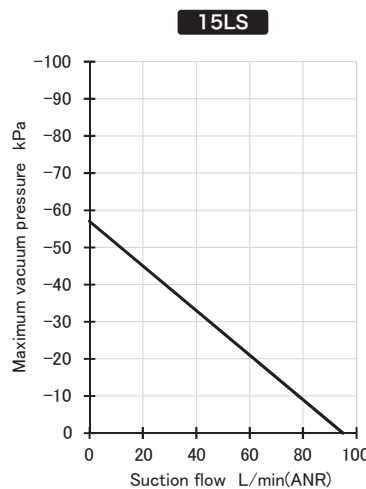
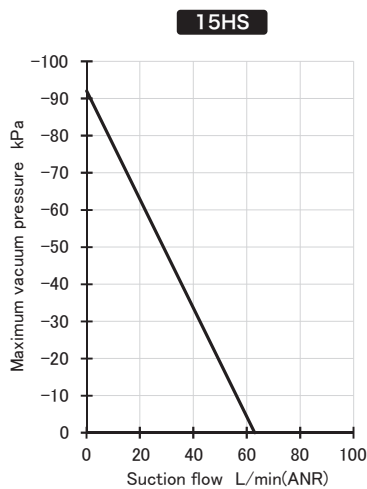
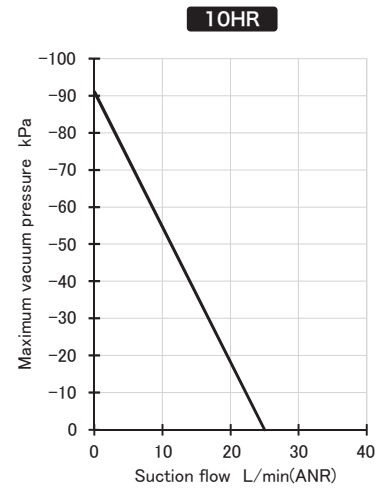
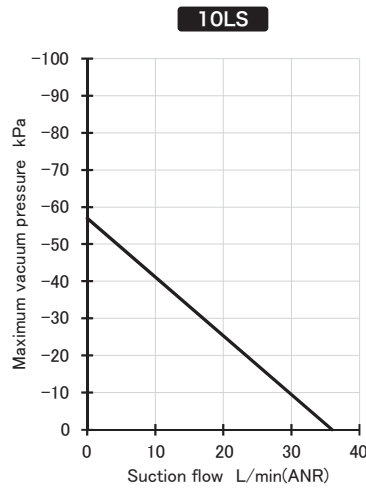
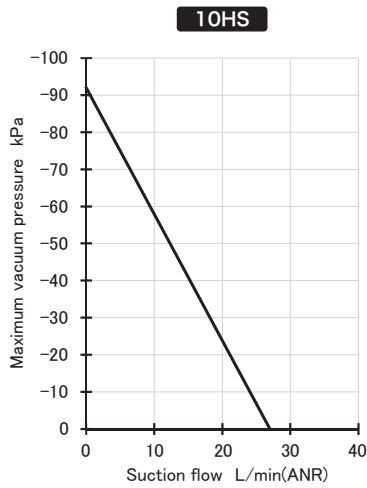
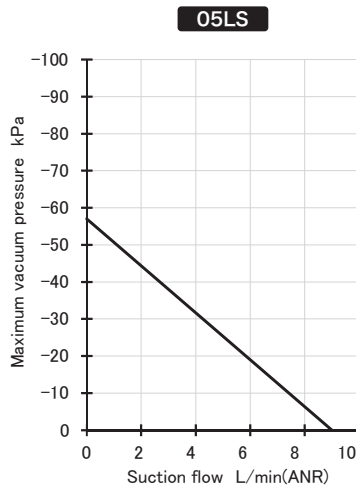
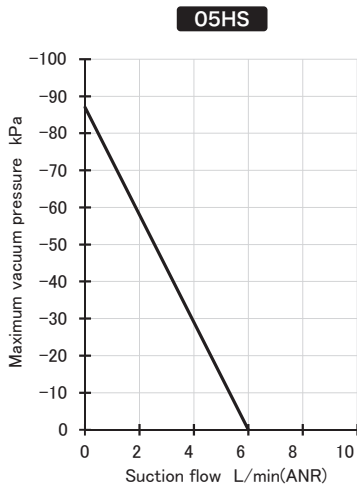


## Performance Charts

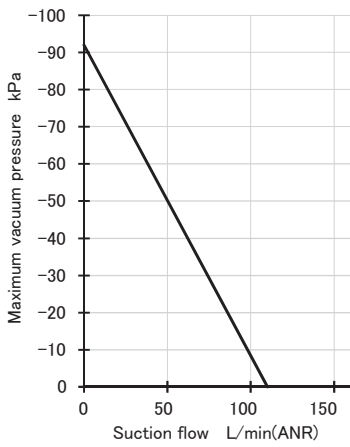




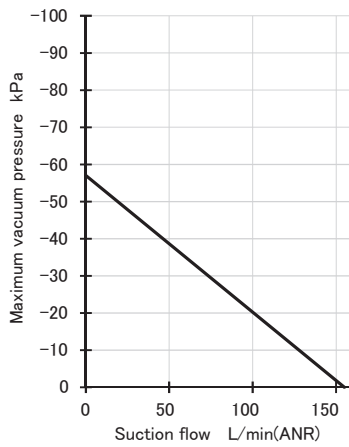
### Suction Flow / Vacuum Pressure Characteristics



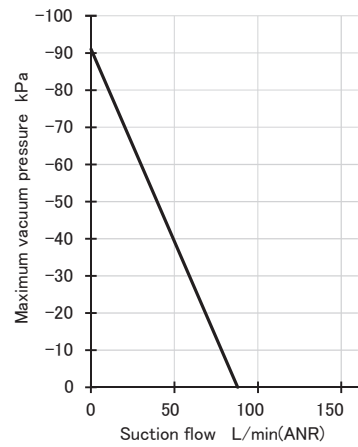
20HS



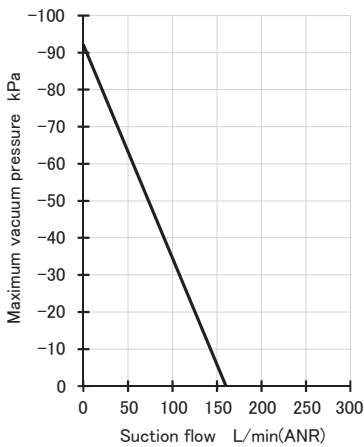
20LS



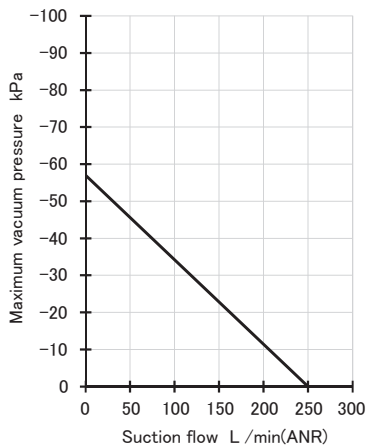
20HR



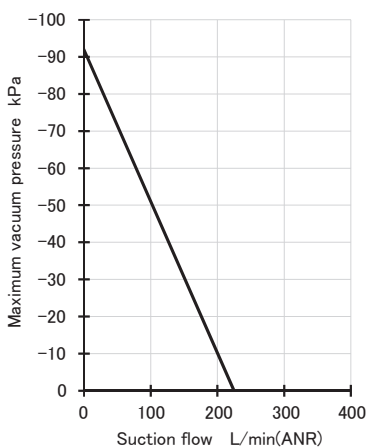
25HS



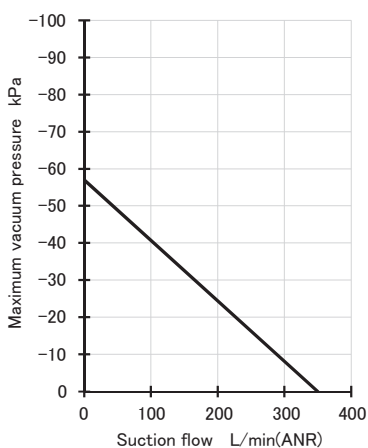
25LS



30AHS



30ALS

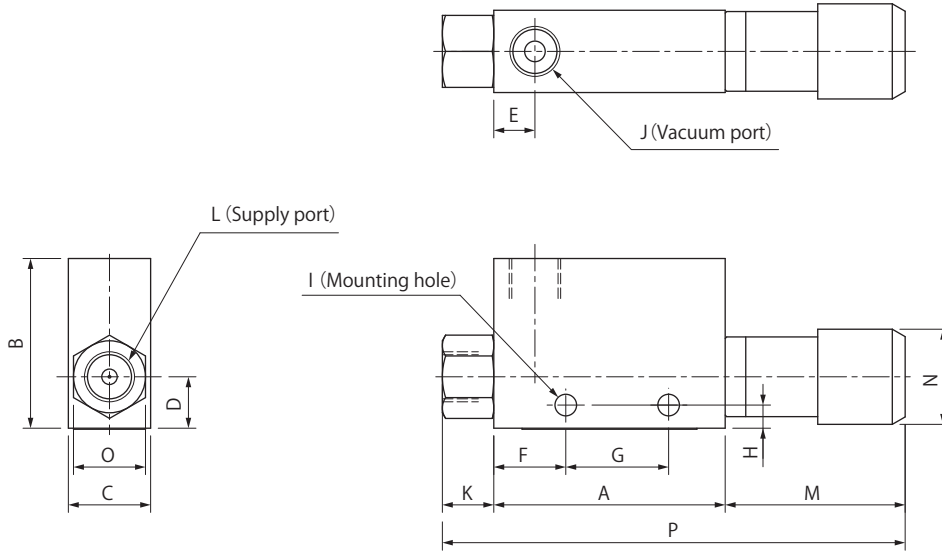




### Dimensions

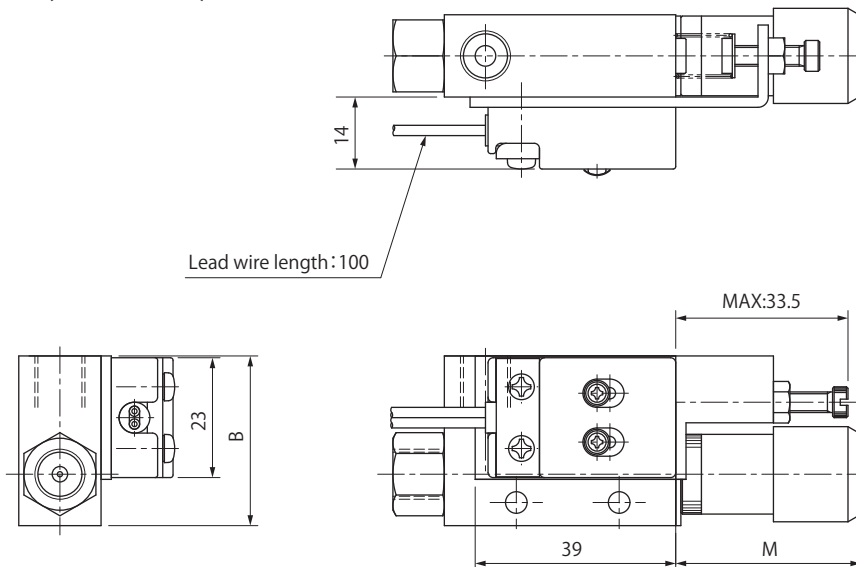
(mm)

#### CV-□□ Standard (without switch)



Model number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Silencer port screw
CV-05	45	33	16	10	8	14	20	4.5	2- $\phi$ 4.2	Rp1/8	10	Rp1/8	35	$\phi$ 18.5	14	90	Rp1/8
CV-10	63	35	20	11	10	20	25	5	2- $\phi$ 4.5	Rp1/4	15	Rp1/4	45.5	$\phi$ 20	17	123.5	Rp1/4
CV-15	85	40	30	15	13	28	32	7	2- $\phi$ 6	Rp3/8	20	Rp1/4	60.5	$\phi$ 30	24	165.5	Rp1/2
CV-20	100	60	40	20	16	20	50	5.5		Rc1/2	17	Rc3/8	96	$\phi$ 40	28	213	Rp3/4
CV-30A	118				20	33			Rc3/4	20	Rc1/2	30			234		

#### CV-□□ CK(with switch)



Model number	M	B
CV-05	36	33
CV-10	46.5	35
CV-15	60.5	50