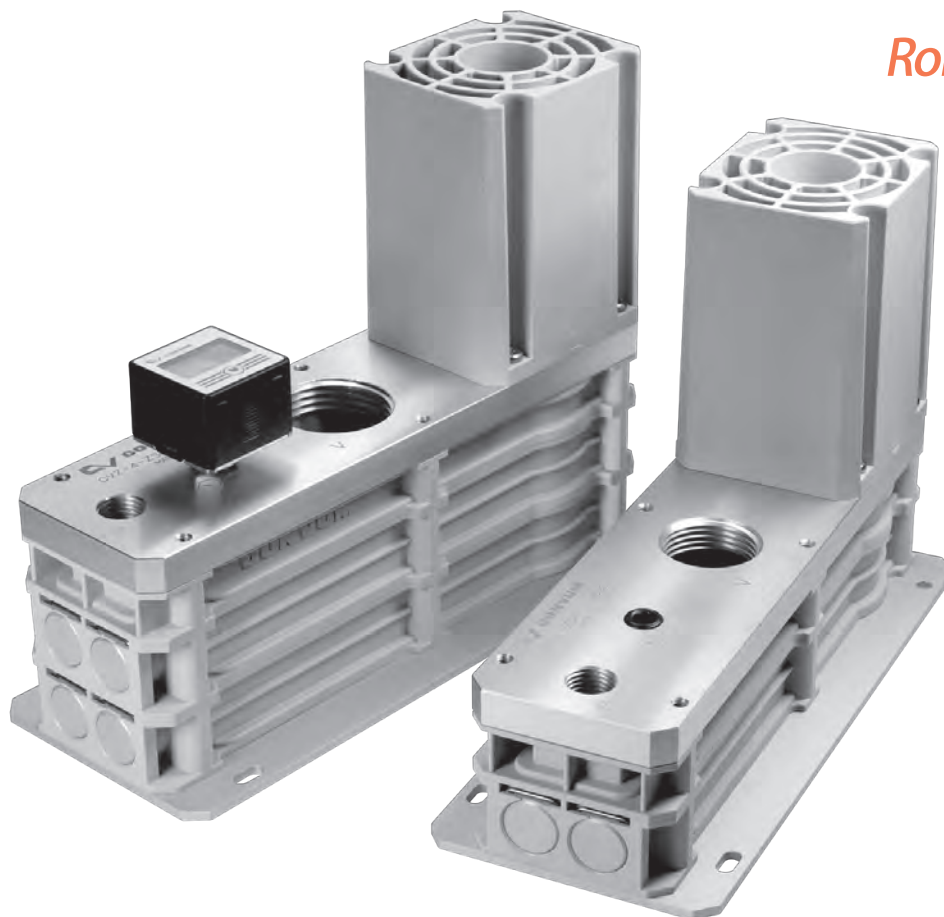


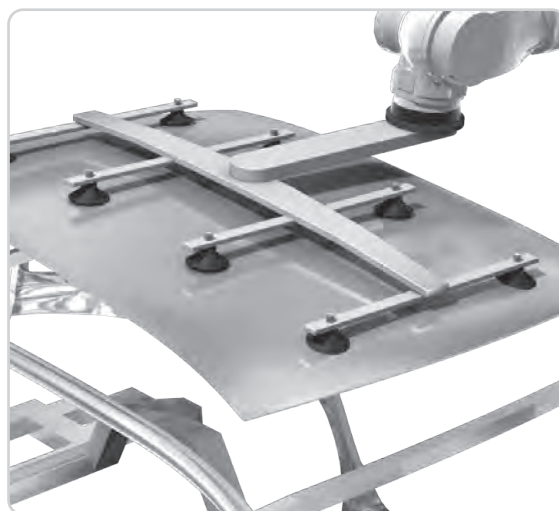
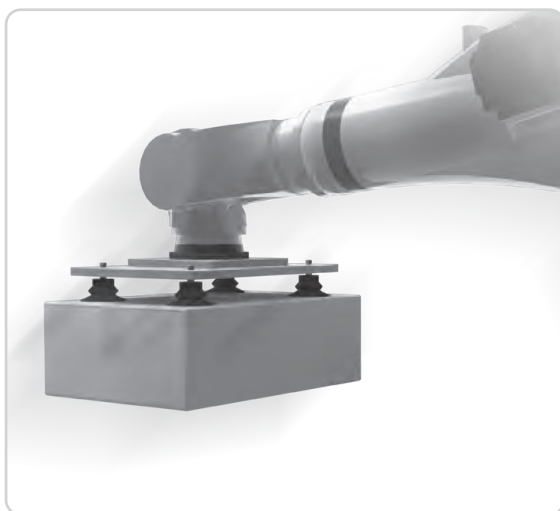
Big Vacuum Flow CONVUM

RoHS



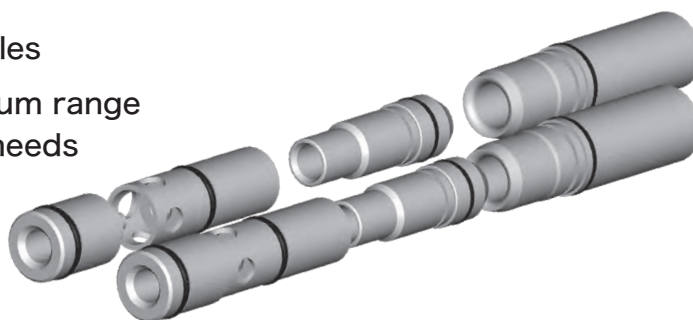
High flow ejector that is comparable to vacuum pump

- Maximum suction flow is **877L/min** (at 4 nozzles, supply pressure 0.55MPa)
- Best choice for suction the workpieces with porous surface and heavy workpieces



Multi stage nozzle mounted

- Can select 1~4 nozzles
- Wide variety of vacuum range to meet customer's needs

01
CONVUM

SC1

SC2

SC3

MC22

MC72

CCV

MCV

CV

CVA2

EC1

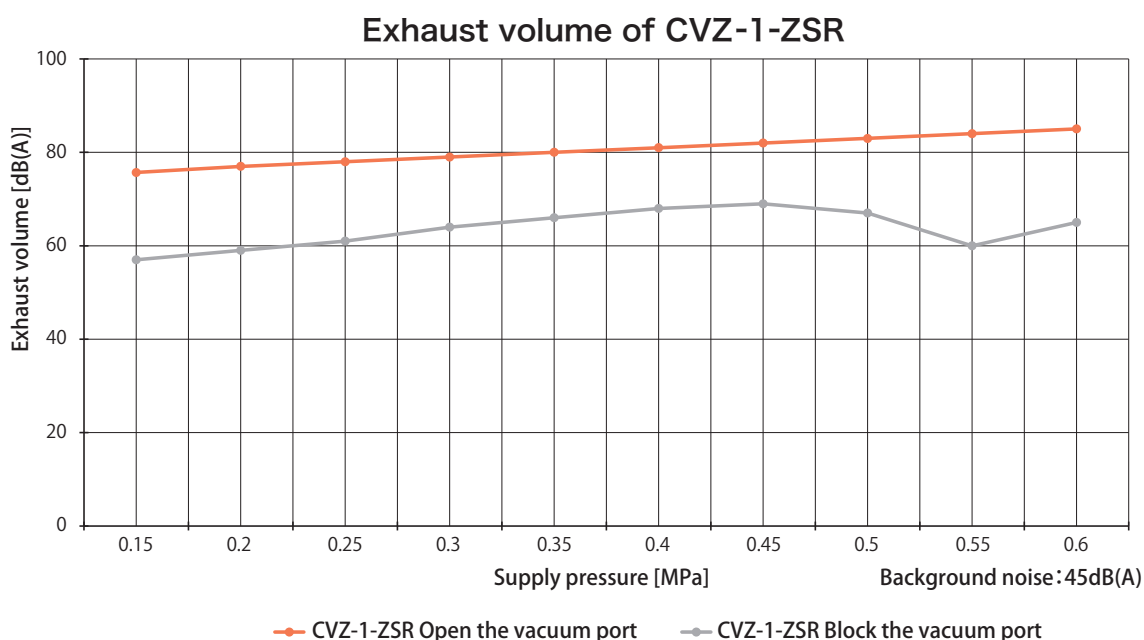
MCA

HDV

HFV

CVZ

Low noise, 60dB (at 1 nozzle, block the vacuum port, supply pressure 0.55Mpa)



With the port (Rp1/8) to mount the pressure sensor

- Check the vacuum volume
- Features of the pressure sensor (MPS-V60DL-R1-J)

- Battery type, wiring is unnecessary
- Only for measuring the pressure
- With the back light

※ Please consult with us for other sensor



How to Order

CVZ — ① — ② — ③ — ④

① Nozzle Number

Symbol	Number
1	φ 1.5X1
2	φ 1.5X2
3	φ 1.5X3
4	φ 1.5X4

② Pressure Sensor

Symbol	Pressure sensor
Z	N/A
S	MPS-V60DL-R1-J (attachment)

③ Silencer

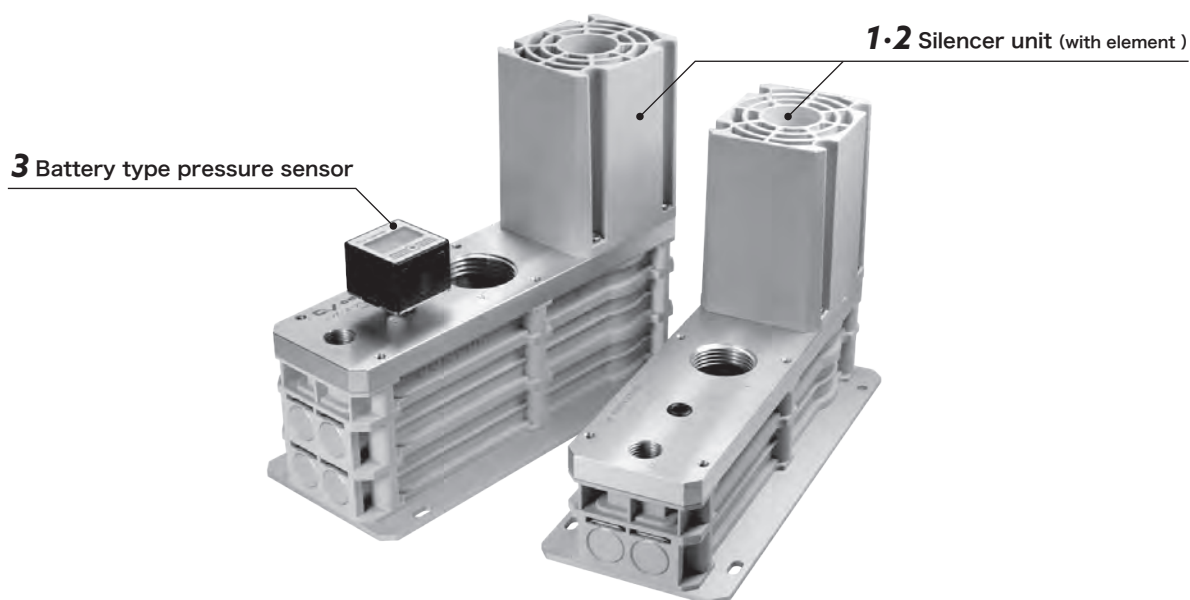
Symbol	Silencer
Z	N/A
S	With

④ Port Screw

Symbol	Specification
R	Rp
N	NPS
G	G

Nozzle type	Rated pressure [MPa]	Maximum vacuum pressure [kPa]	Suction flow [L/min (ANR)]	Air consumption [L/min (ANR)]
CVZ-1	0.45	-70	323	104
	0.55	-90	356	126
CVZ-2	0.45	-70	557	201
	0.55	-90	604	239
CVZ-3	0.45	-70	699	302
	0.55	-90	768	359
CVZ-4	0.45	-68	792	400
	0.55	-88	877	465

Maintenance Parts



1 Silencer Unit

CVZ — SU



2 Silencer Element

CVZ — SE



3 Battery Type Pressure Sensor

MPS — V60DL — R1 — J



CONVUM Specifications

Description \ Model number		Unit	CVZ-1		CVZ-2		CVZ-3		CVZ-4	
Fluid			Non-lubricated compressed air							
Ambient temperature		℃	0~50(No Freezing)							
Operating pressure range		MPa	0.15~0.6							
Rated pressure		MPa	0.45	0.55	0.45	0.55	0.45	0.55	0.45	0.55
Maximum vacuum pressure		kPa	-70	-90	-70	-90	-70	-90	-68	-88
Suction flow		L/min (ANR)	323	356	557	604	699	768	792	877
Air consumption		L/min (ANR)	104	126	201	239	302	359	400	465
Exhaust volume	Block the vacuum port	dB (A)	69	60	73	67	71	67	70	65
	Open the vacuum port	dB (A)	82	84	83	85	86	87	85	87
Recommended solenoid valve effective area		mm ²	More than 7		More than 12		More than 18		More than 25	

Pressure Sensor Specifications

Description \ Model number	Unit	MPS-V60DL-R1-J	
Fluid		Air (vacuum), non-corrosive gas, non-flammable gas	
Diaphragm		Silicon diaphragm	
Rated pressure range	kPa	-101.0~0	
Withstand pressure	kPa	300	
Ambient temperature range	°C	0~50 (No freezing)	
Ambient humidity range	%RH	35~85 (No condensation)	
Resolution	kPa	1	
Battery		CR2032 button type lithium battery ^{Note1}	
Repeatability	%	±1%F.S ±1digit	
Temperature characteristic	%	±2%F.S (At standard temperature 25°C, range 0~50°C)	
Display	Time	60 seconds after pressing SET button	
	Back light	With	
	Battery life	About 1 year (operate 5 times one day)	
	Low battery indicator	With	
LCD display		3 1/2 digits LCD (with back light)	
Representational accuracy		±2%F.S ±1digit (temperature:25±3°C)	
IP class		IP65 ^{Note2}	
Vibration resistance		10~55Hz, total amplitude 1.5mm, 50m/s ² 2 hours each direction of XYZ	
Shock resistance		100, 3 times each direction of XYZ	
Pressure port size		R1/8, M5 (female)	

Note1) Battery is inside, and can be changed by customer. How to change it, please refer to operation manual.

Note2) When IP65 range is required, please use piping in IP65 range too.

Weight (g)

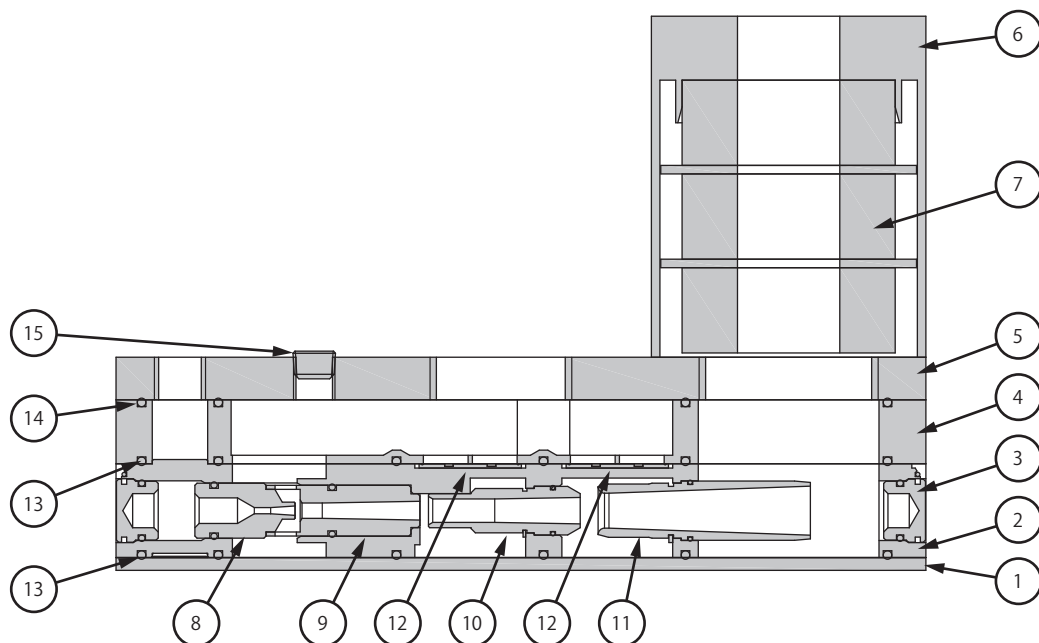
• Body (with silencer, without sensor)

CVZ-1	730
CVZ-2	737
CVZ-3	901
CVZ-4	908

• Maintenance Parts (silencer, sensor)

CVZ-SU	102
MPS-V60DL-R1-J	40

Construction

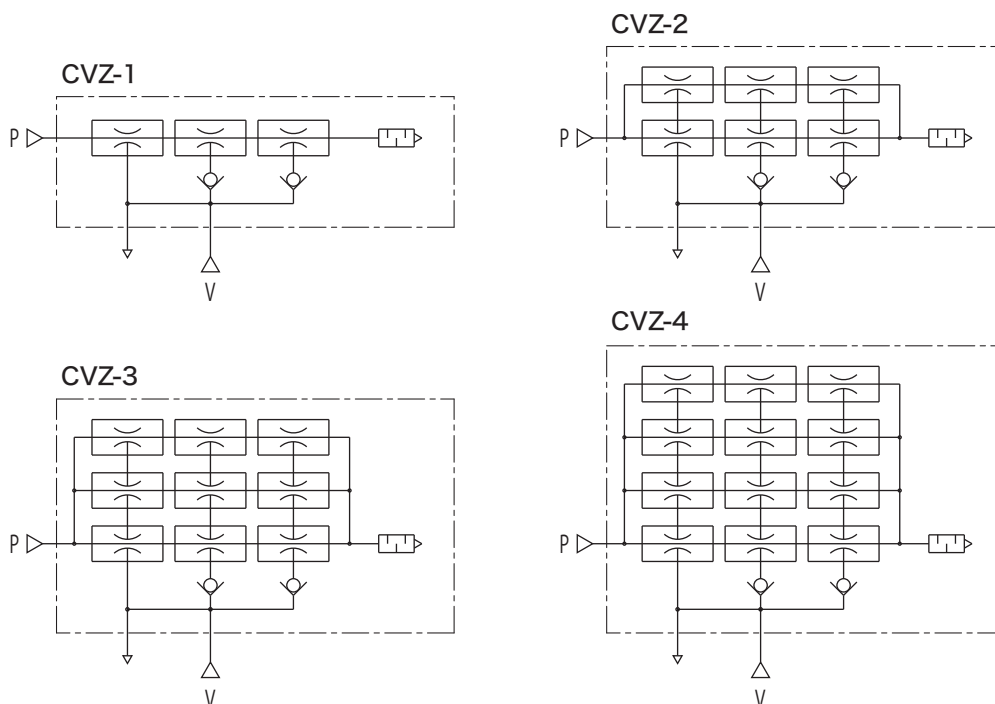


Component Parts

No.	Parts name	Material
1	Plate	Aluminum
2	Body 1	PA
3	Plug	Aluminum
4	Body 2	PA
5	Supply plate	Aluminum
6	Silencer	PA
7	Silencer element	PVA
8	Nozzle 1	Aluminum

No.	Parts name	Material
9	Nozzle 2	Aluminum
10	Nozzle 3	Aluminum
11	Nozzle 4	Aluminum
12	Check valve	NBR
13	Gasket 1	NBR
14	Gasket 2	NBR
15	Screw plug	Carbon steel

Symbol

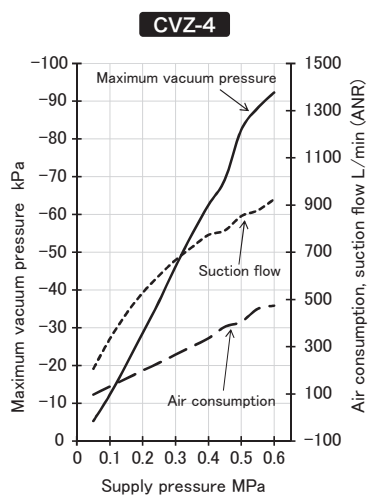
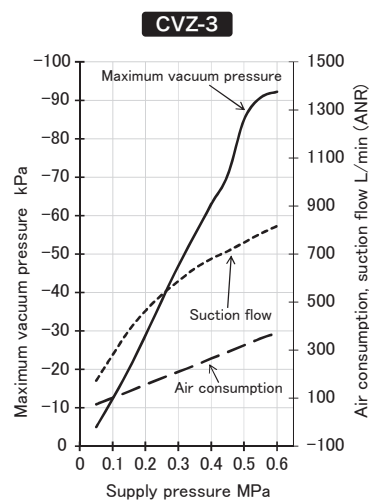
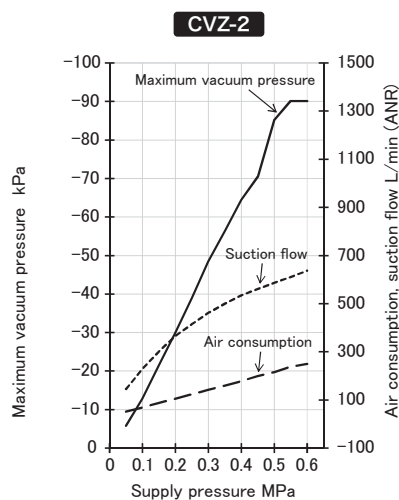
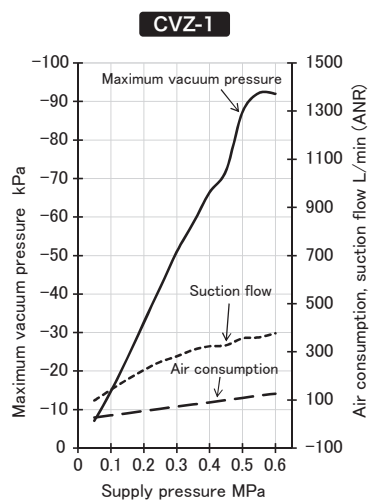


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CONVUM

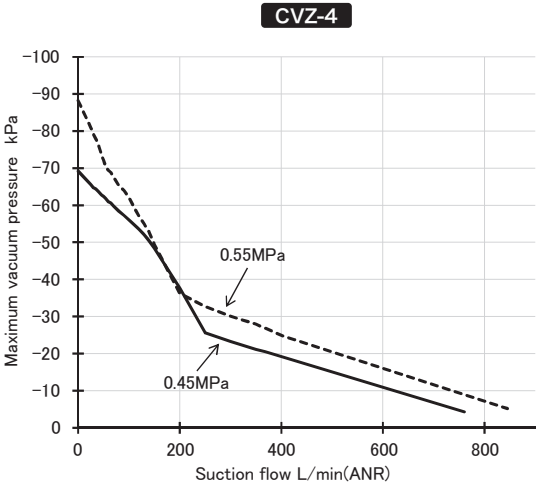
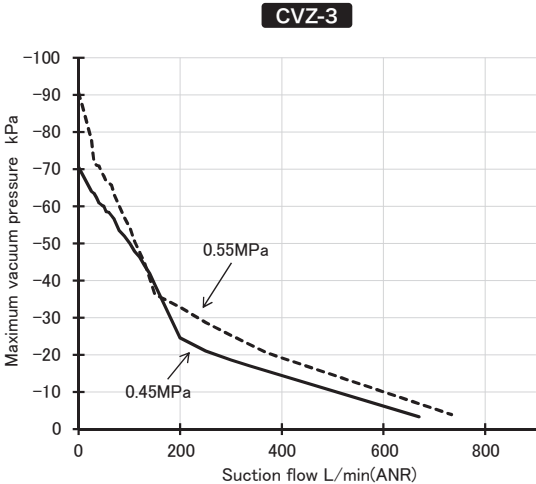
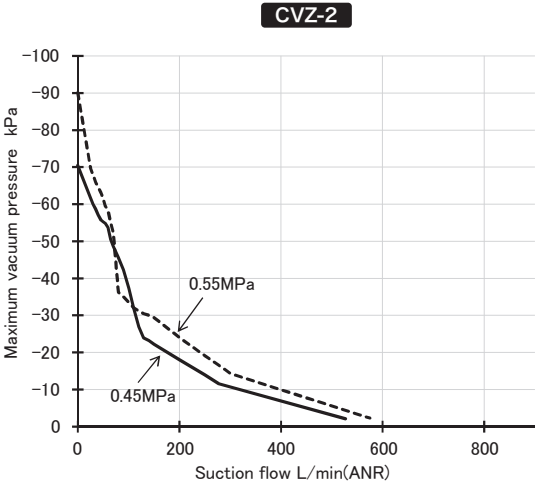
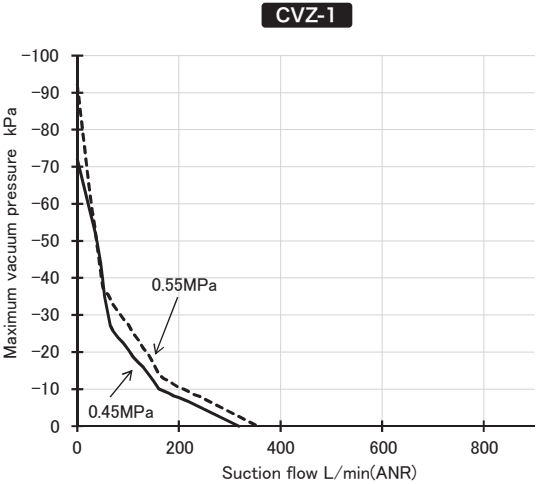
- SC1
- SC2
- SC3
- MC22
- MC72
- CCV
- MCV
- CV
- CVA2
- EC1
- MCA
- HDV
- HFV

CVZ

Performance Charts

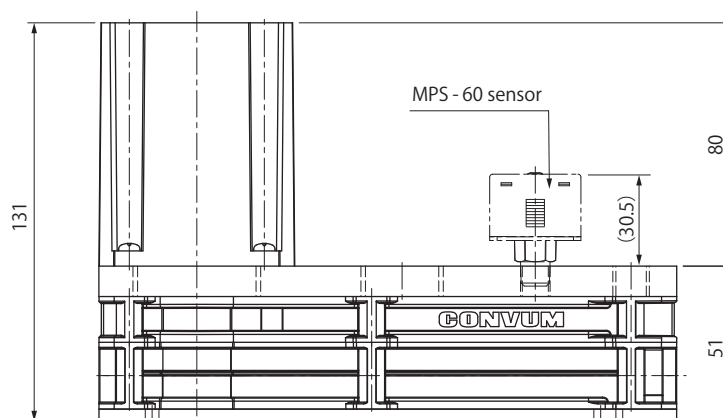
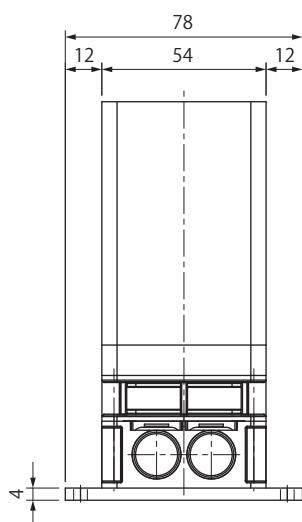
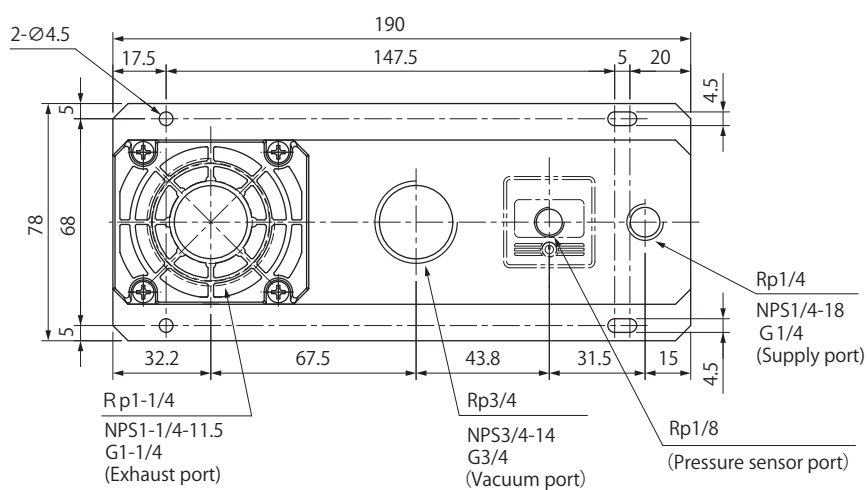


Suction Flow / Vacuum Pressure Characteristics



Dimensions

CVZ- 1/2 (with sensor)



(mm)

CVZ - 3/4 (with sensor)

