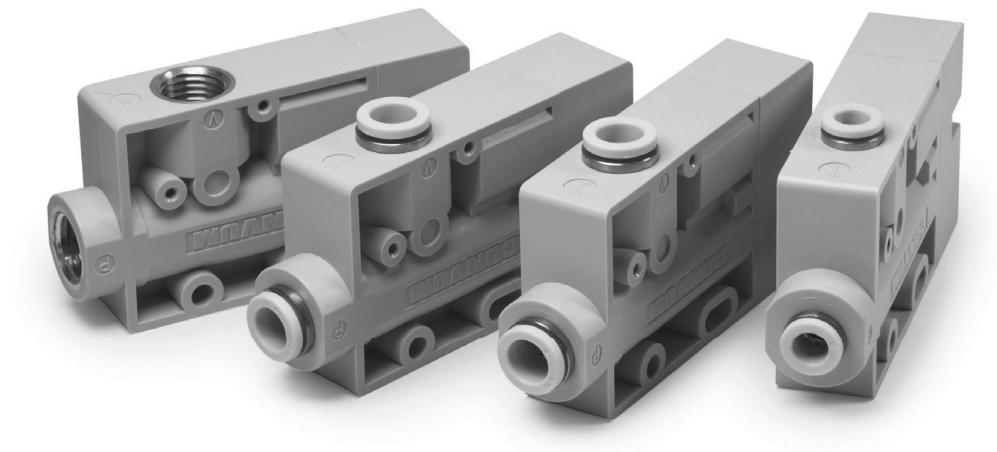


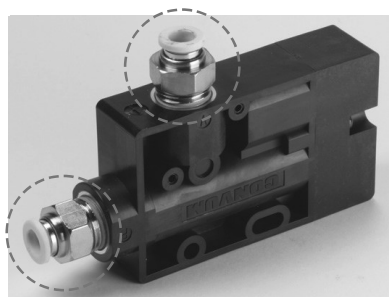
Standard Resin CONVUM

RoHS

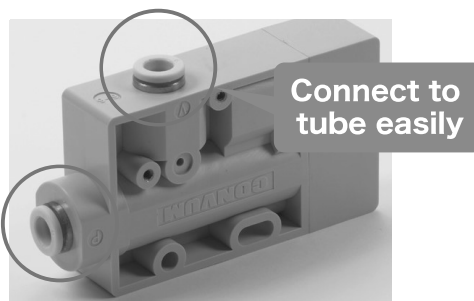


Push-in connector mounted, firmly contact

The mounting method of push-in connector is improved.

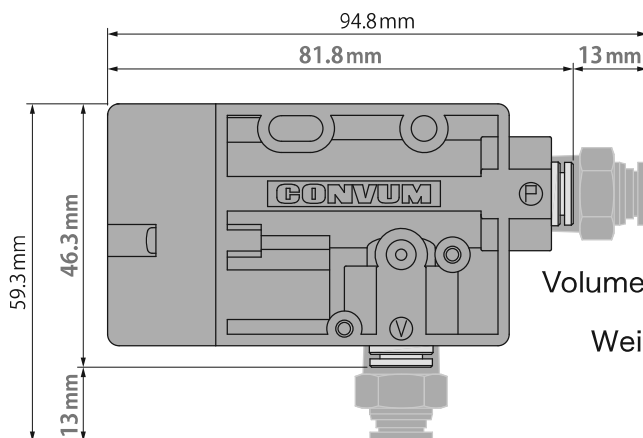


Current type : Screw type



New type: Press-fitting type

Lighter weight !



Height and width:
13mm shorter

※ Tube diameter $\phi 6$

Volume 3.7cm³ **6.1%** reduced

Weight 56g **29%** reduced

※ Compared with current MCV-10

How to Order

MCV — 10 H S S — 66

① Nozzle Type ② Maximum Vacuum Pressure [kPa] ③ Rated Pressure [MPa] ④ Pressure Sensor ⑤ Supply Port/ Vacuum Port Size

Symbol	Nozzle size [mm]
10	1.0
13	1.3
15	1.5

Symbol	Vacuum Pressure
H	-87
L	-55

S	0.45
R	0.35

Blank	N/A
S	With

※Switch can not be mounted afterwards.

※①②③ Applicable Models

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

Symbol	Supply port [mm]	Vacuum port [mm]
66	6	6
88	8	8
RP	Rp 1/4	Rp 1/4

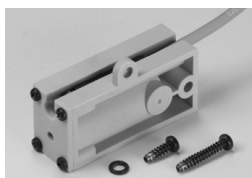
Model List

MCV-10	MCV-13	MCV-15
MCV-10HS(S)-66	MCV-13HS(S)-88	MCV-15HS(S)-88
MCV-10LS(S)-66	MCV-13LS(S)-88	MCV-15HR(S)-88
MCV-10HR(S)-66	MCV-13HR(S)-88	MCV-15HS(S)-RP
MCV-10HS(S)-88	MCV-13HS(S)-RP	MCV-15HR(S)-RP
MCV-10LS(S)-88	MCV-13LS(S)-RP	
MCV-10HR(S)-88	MCV-13HR(S)-RP	
MCV-10HS(S)-RP		
MCV-10LS(S)-RP		
MCV-10HR(S)-RP		

Specifications by Nozzle

Nozzle type	Rated pressure [MPa]	Maximum vacuum pressure [kPa]	Suction flow [L/min (ANR)]	Air consumption [L/min (ANR)]
10HS	0.45	-87	24	46
10LS		-56	38	
10HR	0.35	-87	22	
13HS	0.45	-90	53	78
13LS		-58	73	
13HR	0.35	-88.5	43	85
15HS	0.45	-87	56	95
15HR	0.35	-87	49	105

Maintenance Parts

• Switch Unit
MCV-CK

※Switch can not be mounted afterwards.

• Reed Switch
MT-07RL• Silencer Element
MCV-S**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)	Supply port (mm)	Vacuum port (mm)	Switch
204300001	MCV-10HS-66	1.0	6	6	N/A
204300031	MCV-15HS-88	1.5	8	8	N/A
204300002	MCV-10LS-66	1.0	6	6	N/A
204300004	MCV-10HSS-66	1.0	6	6	With
204300033	MCV-15HSS-88	1.5	8	8	With

CONVUM Specifications

Description \ Model number	Unit	MCV-10			MCV-13			MCV-15	
		HS	LS	HR	HS	LS	HR	HS	HR
Nozzle size	mm	1.0			1.3			1.5	
Fluid		Non-lubricated compressed air							
Ambient temperature	°C	0 ~ 60 (No Freezing)							
Operating pressure range	MPa	0.1 ~ 0.6							
Rated pressure	MPa	0.45		0.35	0.45		0.35	0.45	0.35
Maximum vacuum pressure	kPa	-87	-56	-87	-90	-58	-88.5	-87	-87
Suction flow ^{Note1)}	L/min (ANR)	24	38	22	53	73	43	56	49
Air consumption ^{Note2)}	L/min (ANR)	46			78		85	95	105

Note1,2) In case of at rated pressure.

Switch Unit Specifications

Description \ Model number	Unit	MCV-CK
Fluid		Air (vacuum), Non-corrosive gas
Setting pressure range	kPa	-40 ~ -70 (default setting is -40kPa)
Ambient temperature	°C	0 ~ 60 (No Freezing)
Switch type		Reed switch, normally opened (N.O.)
Rated voltage	V	AC/DC5 ~ 240
Maximum load current	mA	50
Repeatability	kPa	±10
Hysteresis	kPa	15±5
Reed Switch model		MT-07RL
Cable length	mm	1000
Weight (with cable)	g	22.5

Reed Switch Specifications

Description \ Model number	Unit	MT-07RL
Switch type		Reed switch
Mounting type		Groove type
Load voltage	V	AC/DC5 ~ 240
Load current	mA	max 50
Contact capacitance	W	max 6
Voltage drop	V	max 2.5
Ambient temperature	°C	-10 ~ 70 (No Freezing)
IP class		IP67
Protection circuit		Without
Cable		O.D. φ 2.8 2 cores gray PU 1m
Operation indicator		Green color LED
Weight (with cable)	g	10.1

Weight (g)

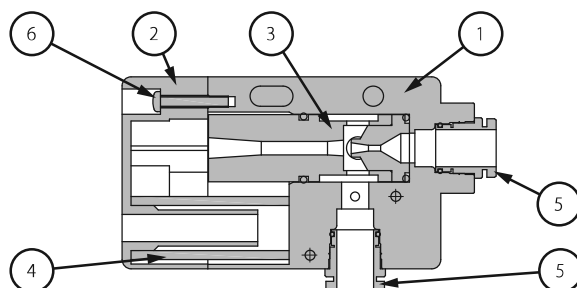
• CONVUM Body (without switch)

Port type	MCV-10			MCV-13			MCV-15	
	HS	LS	HR	HS	LS	HR	HS	HR
66/88	56			66			67	
RP	51			62			62	

• Switch Unit/Reed Switch

Model number	Weight
MCV-CK	22.5
MT-07RL	10.1

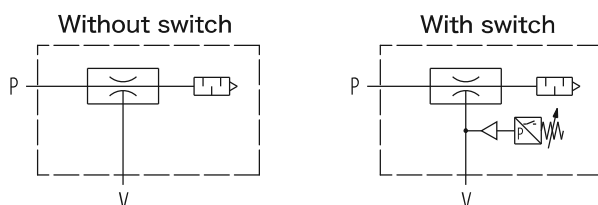
Construction



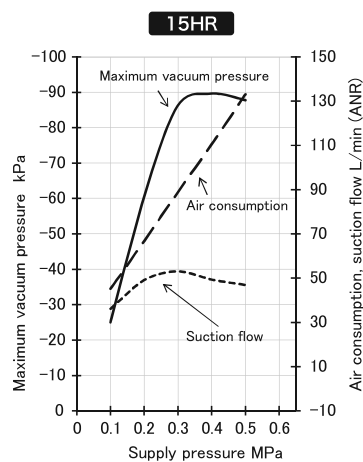
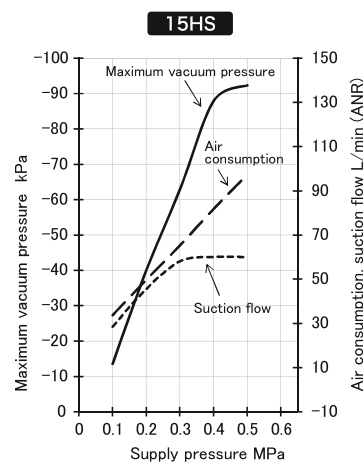
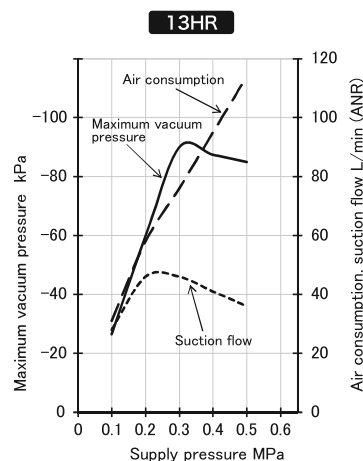
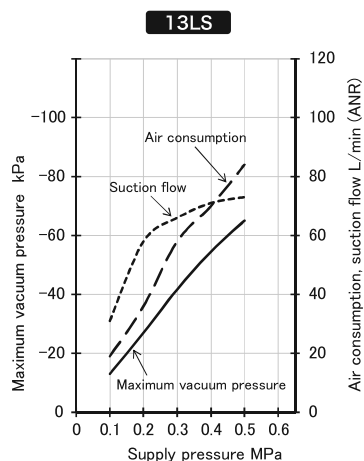
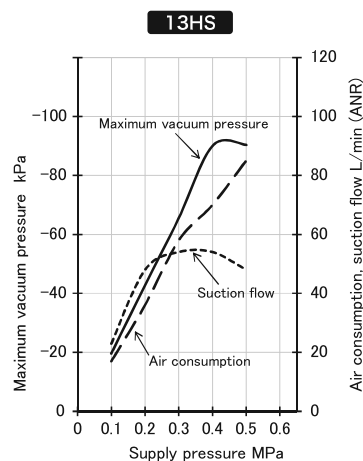
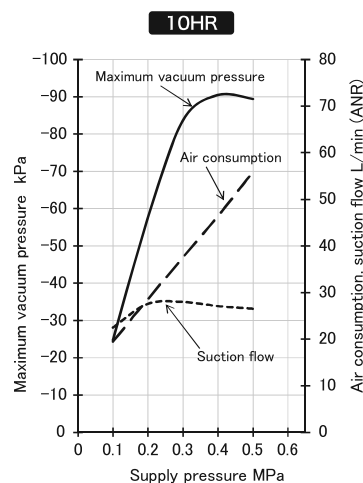
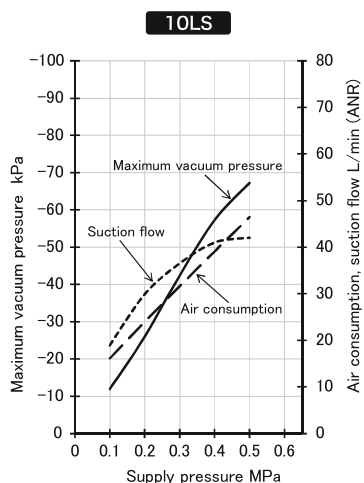
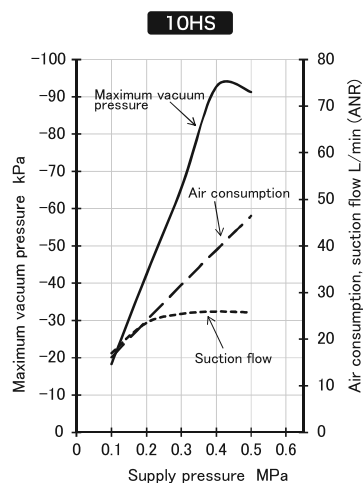
Component Parts

No.	Parts name	Material
1	Body	PA
2	Silencer case	PA
3	Nozzle kit	Al, NBR
4	Silencer element	PVA
5	Push-in connector	-
6	Screw	-

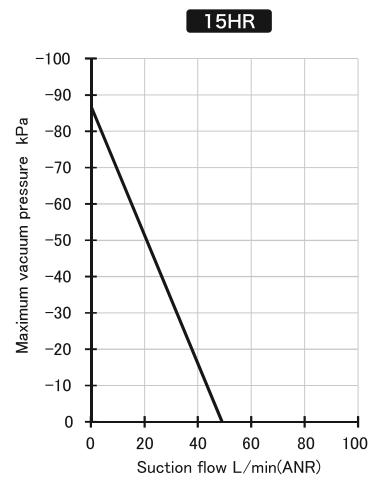
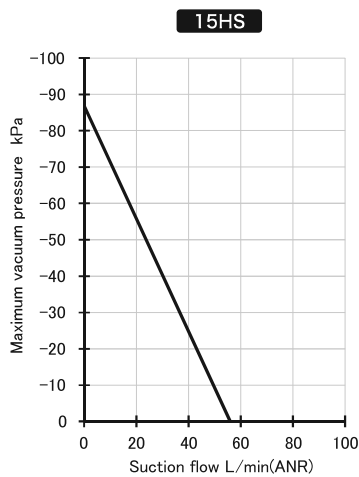
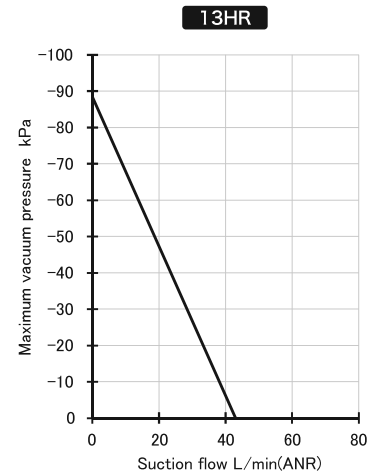
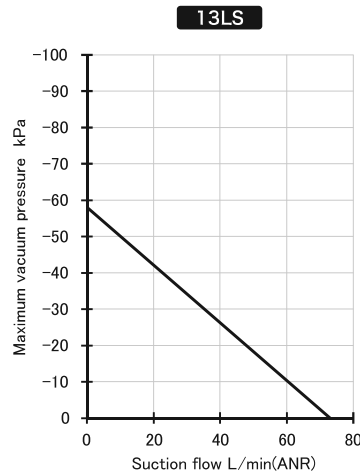
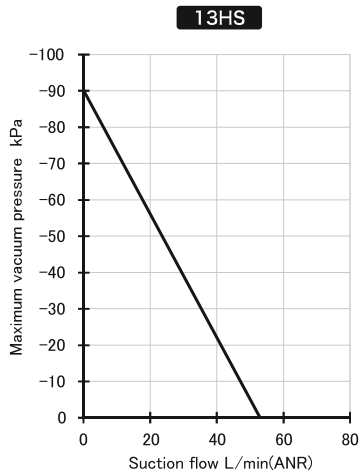
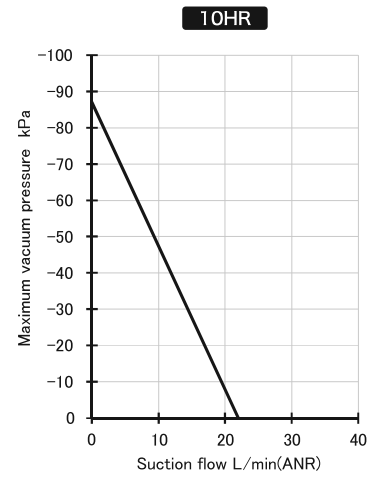
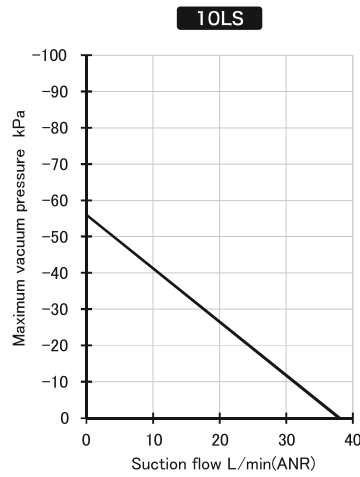
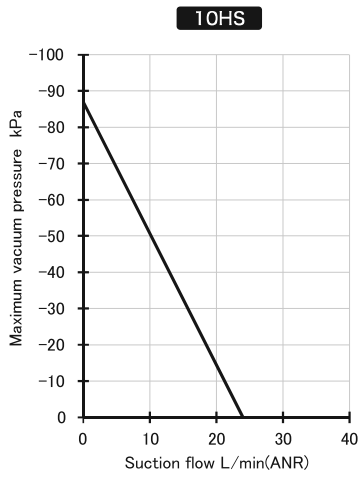
Symbol



Performance Charts



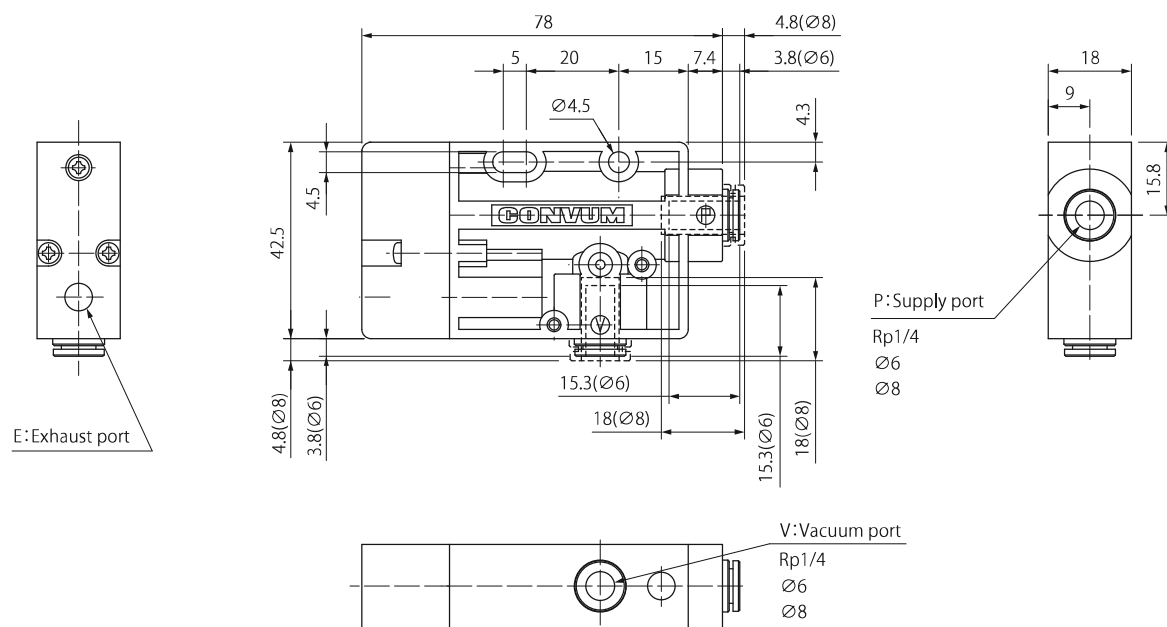
Suction Flow / Vacuum Pressure Characteristics



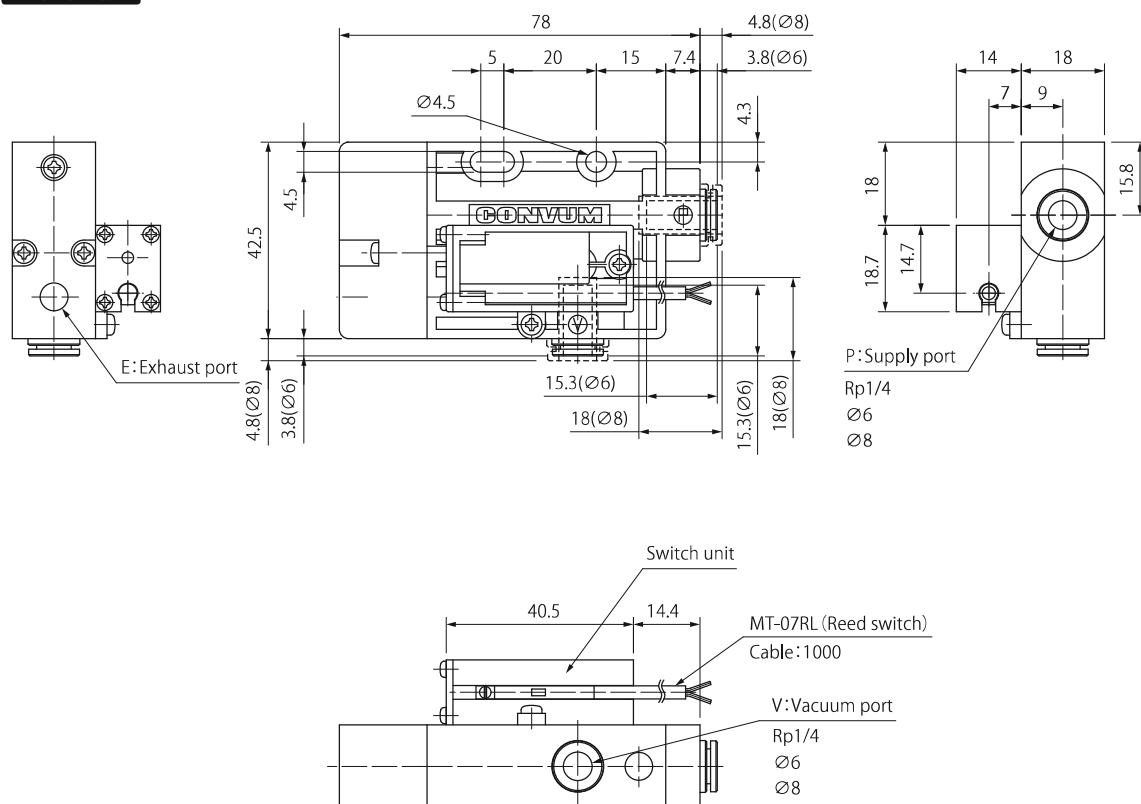
Dimensions

(mm)

Without Switch



With Switch



CONVUM Standard Resin CONVUM

01
CONVUM

SC1

SC2

SC3

MC22

MC72

CCV

MCV

CV

CVA2

EC1

MCA

HDV

HFV

CVZ