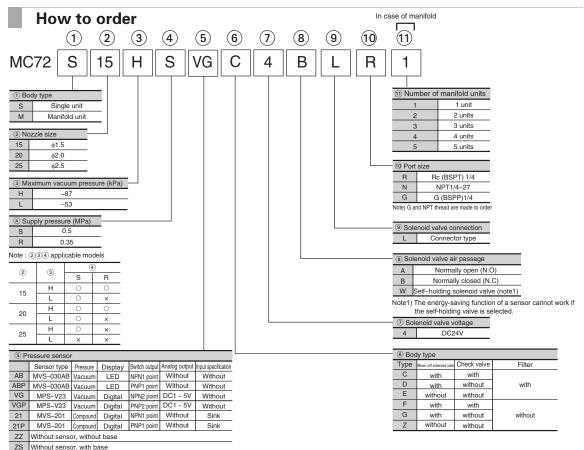
Vacuum ejector unit

MC72 CONVUM



- Successor of MC7series
- High vacuum flow type
 Suitable for porous workpiece handling
- Blow-off solenoid valve and check valve option available
- Can be mounted on manifold Up to 5 units



Maintenance parts

- Solenoid valve (with gasket and mounting screws)
- Solenoid valve common for vacuum and blow-off

CKV010-4E

Note) Refer to P61 for details

 Self-holding solenoid valve (with gasket and mounting screws)

LV290-4E

Note) Please check P61 for details.

Manifold

MC7 - MB - R

Supply port thread				
R	Rc1/2			
N	1/2NPT			
G	G1/2			

Manifold base

MC7-MB

Note) Set including setting screws, spacer and O-ring.

Silencer

CVK-S

Pressure sensor (with O ring, setting screws)

	MVS-030AB-MC7
	MVS-030ABP-MC7
	MPS-V23C-NGA-MC7
	MPS-V23C-PGA-MC7
	MVS-201-MC72-A (Normally open)
	MVS-201-MC72-B (Normally closed)
	MVS-201-MC72-W (Self-holding)
	MVS-201P-MC72-A (Normally open)
	MVS-201P-MC72-B (Normally closed)
Ī	MVS-201P-MC72-W (Self-holding)

Note) Please check P349 for details.

● Filter MC7 – 「



MC

7 –	F	=
1	MC7-F	Filter kit (with element)
1	MC7-U	Filter unit (with base)

Specifications

Description		Unit	MC72 □ -15		MC72 □ -20		MC72 □ -25		
			HS	LS	HR	HS	LS	HR	HS
	Fluid		Non-lubricated air / non-corrosive gas						
	Ambient temperature	S	0 ~ 60(without freezing)						
O	perating pressure range	MPa	0.2 ~ 0.6						
	Blow-off flow	ℓ/min (ANR)	100						
So	lenoid valve air passage		Normally closed (N.C), normally open (N.O), self-holding						
	Filter element filtration	μm	130						
	Nozzle size	φ mm	1.5 2.0 2.5				2.5		
	Nominal pressure	MPa	0.	.5	0.35	0.5 0.35 0.5		0.5	
	Vacuum (air) flow	ℓ/min (ANR)	55	90	46	95	130(110)Note)	80	140(120)Note)
Max. vacuum pressure		kPa	-87	-53	-87	-87	-53	-87	-87
Air consumption \(\ell \ /min (ANR)		ℓ/min (ANR)	100	100	100	180	180	180	265
Mass	Single type (without sensor)	g	460						
iviass	Manifold type (1unit, without sensor)	ifold type (1unit, without sensor) 9				400			

Note) Figure in () is when MC72 check valve option is selected.

Solenoid valve specifications

Description	Unit	CKV010-4E	LV290-4E Note	
Solenoid valve air passage		normally closed(N.C), normally open(N.O)	self-holding	
Operating voltage	V	DC	24	
Allowable voltage tolerance	%	±	10	
Power consumption	W	1		
Grade of insulation		B class		
Manual override operation		Non-lock p	oush button	
Display - Surge killer		LED ·	diode	
Cable		Lead wire with co	nnector (300mm)	

Note)Please check common cautions in regard to CONVUM vacuum ejector "self-holding valve"(P22).

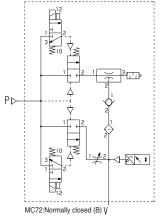
Vacuum sensors specifications

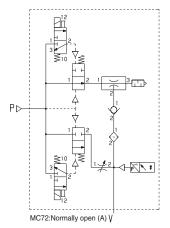
Item	Unit	MVS-030	MPS-V23	MVS-201			
Fluid		Non-lubricated air / non-corrosive gas					
Pressure range settings	kPa	-10 ~ -101	500 ~ -101				
Ambient temperature	သ	0 ~ 50 (without freezing)					
Output type		Output 1 point	Output 1 point Input 1 point				
Display		LED	Digital				
Operating voltage	٧	DC12	DC10.8 ~ 30				

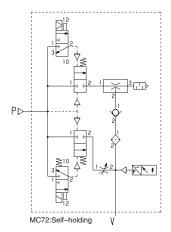
Note: Please check P349 for sensor details.

Note: Air flow condition of MVS–201 sensor is set as normally open (N.O.). For normally closed (N.C.), please check the manual and change the settings manually.

Symbol

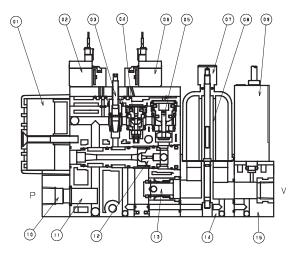






*With sensor, check valve and filter unit

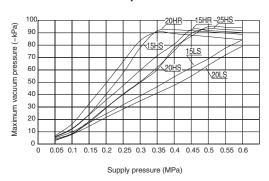
Construction



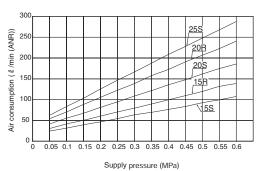
Parts	Part name	Material
01	Silencer	PBT, PVF
02	Solenoid valve	-
03	Blow-off needle	SUS, aluminium, NBR
04	Blow-off poppet valve	Aluminium, NBR, SUS, FKM
05	Vacuum poppet valve	Aluminium, NBR, SUS, FKM
06	Solenoid valve	-
07	Filter assembly	PA, brass, NBR
08	Filter element	PVF
09	Pressure sensor	-
10	Air supply base	PBT
11	Body	PA
12	Nozzle	Aluminimum, NBR
13	Check valve	Aluminimum, NBR, brass
14	Fitler base	PA
15	Sensor base	PA

Performance charts

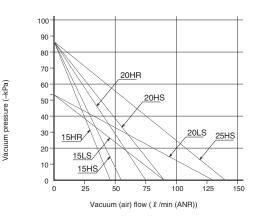
— Maximum vacuum pressure characteristic —



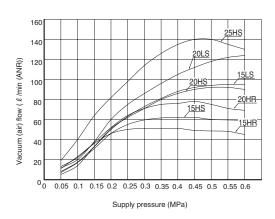
Air consumption characteristics -



-Vacuum (air) flow - vacuum pressure characteristic -

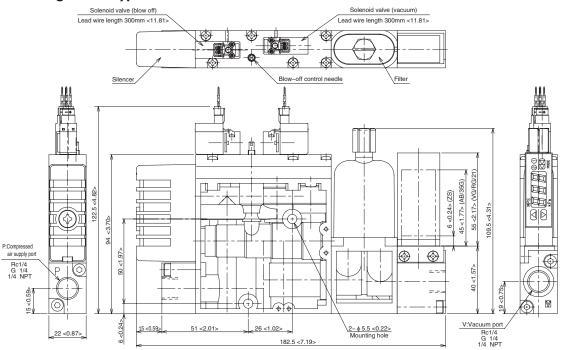


— Maximum vacuum (air) flow characteristic —

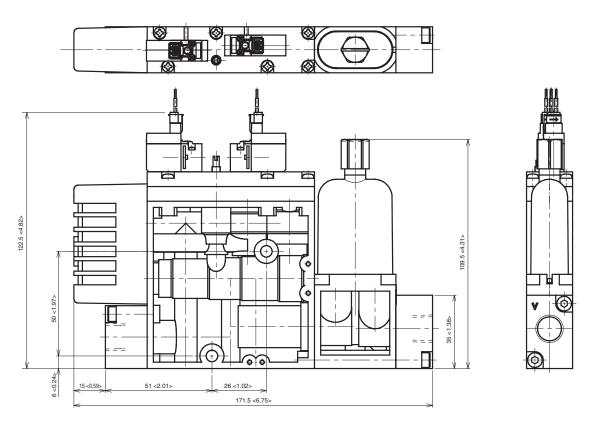


DimensionsUnit: mm <inch>

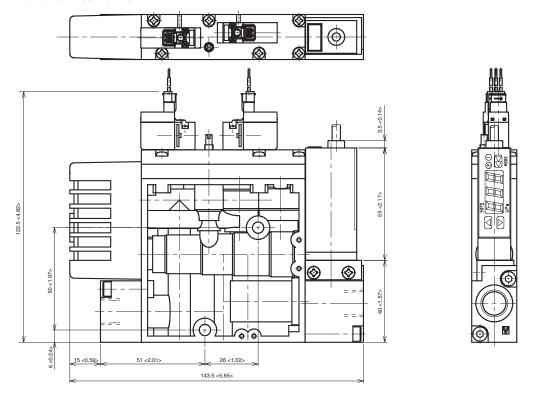
Single unit type



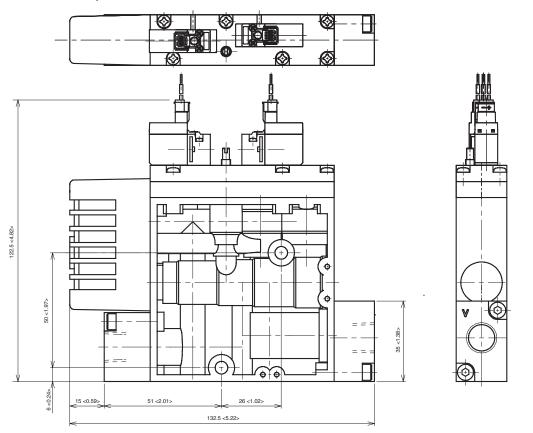
Without sensor -



Without filter unit _



Without filter, without sensor



Manifold type _

n (number of units)	1	2	3	4	5
A	60 <2.36>	82.5 <3.25>	105 <4.13>	127.5 <5.02>	150 <5.91>
В	42 <1.65>	64.5 <2.54>	87 <3.43>	109.5 <4.31>	132 <5.20>

