# 10mm with vacuum switching valve MPV42 series



 Compact all in one unit vacuum switching valve

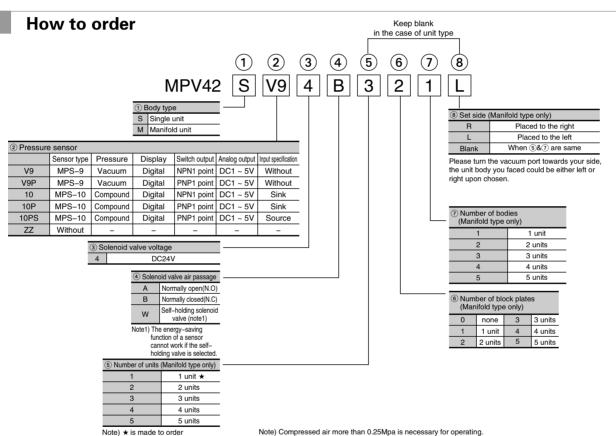
Slim design: 10mm width, light: 57g

High speed handling: suitable for mounting machine and inspection equipments

Common attachments with CONVUM vacuum ejector MC42

Easy switch with CONVUM vacuum ejector

Manifold option available
Up to 5 units



#### **Maintenance parts**

Solenoid valve (with gasket and screw)
Common valve for vacuum generation and blow-off

#### CKV010-4E

 Self-holding vacuum switching valve (can not use for blow-off)

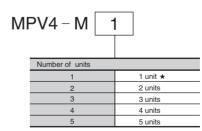
#### LV290-4E

Pressure switch (with O ring, setting screws)

T 1033d10 3Witori (Witi O fing, setting screws)
MPS-V9-MC4
MPS-V9P-MC4
MPS-10-MC4-B (Normally Closed,sink input)
MPS-10-MC4-W (Self-holding,sink input)
MPS-10P-MC4-B (Normally Closed,sink input)
MPS-10P-MC4-B-S (Normally Closed,source input)
MPS-10P-MC4-W (Self-holding,sink input)
MPS-10P-MC4-W-S (Self-holding.source input)

Note) Please check P349 for details.

Manifold base



Base for unit type

MC4-SB

Plate for manifold

MC4-MM

## **Specifications**

Series	Series Units MPV42		/42
Construction	Offics	Solenoid valve (vacuum)	Solenoid valve (blow-off)
Fluid		Vacuum pressure	Non-lubricated air
Ambient temperature	S	0 ~ 60(without freezing)	
Pressure range (VP, DP)	MPa	-90 ~ 0kPa	0 ~ 0.5MPa
Pressure range (P)	MPa	0.25 ~	- 0.5
Blow-off pressure supply range	MPa	0 ~ 0.5	5 *1)
Blow-off flow	ℓ /min (ANR)	10 (at: 0.5)	
Vacuum valve function		Normally open, normall	y closed, self-holding
Type of control valve		Pilot operated poppet	Poppet
Effective area	mm²	2.4	0.2
Control flow	ℓ /min (ANR)	About 19 (when -101kPa)	About 10 (When 0.5MPa)
Mass	g	57	7

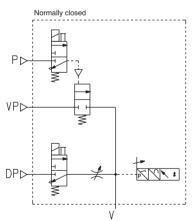
Note1) If you do not connect the power supply port in the free atmosphere is destroyed.

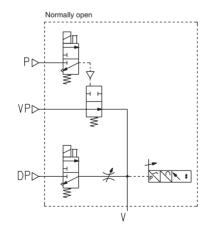
#### Solenoid valve specifications

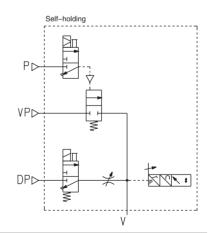
Description	Unit	CKV010-4E	LV290-4E Note
Solenoid valve air passage		Normally open (N.O), normally closed(N.C)	Self-holding
Operating voltage	٧	DC	224
Allowable voltage tolerance	%	±	10
Power consumption	W	1	1.3 /1.5
Grade of insulation		B cl	ass
Manual override operation		Non-lock p	oush button
Display – Surge killer		LED •	diode
Cable		Lead wire with connecto	or (300mm) <11.81inch>

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

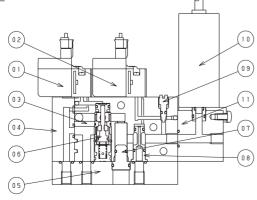
### **Symbol**







# Construction

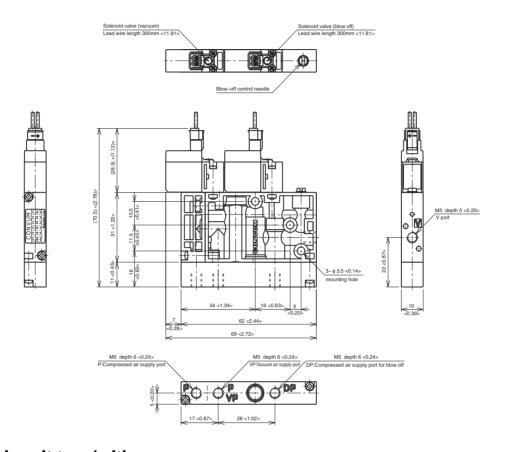


#### Main parts

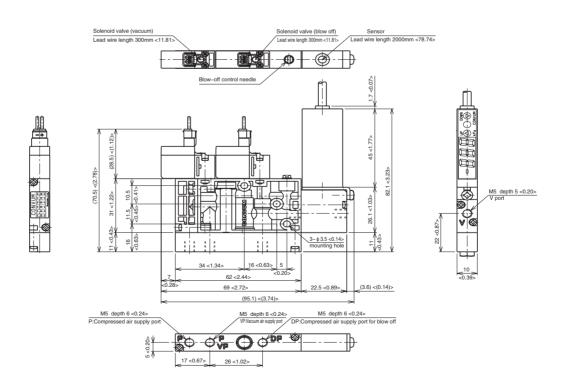
No.	Part name	Materials
1	Solenoid valve (vacuum)	_
2	Solenoid valve (blow-off)	_
3	Body	PA
4	Side plate	PA
5	S base	Aluminium
_	Danishin	OLIO Alimeticione NIDD EKM
6	Poppet valve	SUS, Aluminium, NBR, FKM
7	Poppet valve Plug	Aluminium, NBR
7 8		
7	Plug	Aluminium, NBR
7	Plug Adapter	Aluminium, NBR Aluminium

#### **Dimensions**Unit:mm <inch>

# Single unit type/without sensor\_

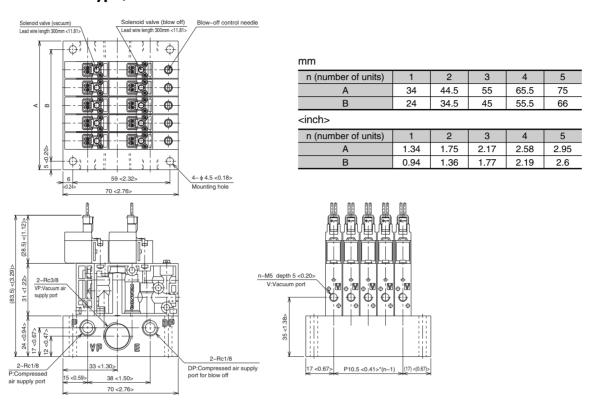


# Single unit type/with sensor \_



#### **Dimensions**Unit:mm <inch>

#### Manifold type/without sensor \_



#### Manifold type/with sensor

