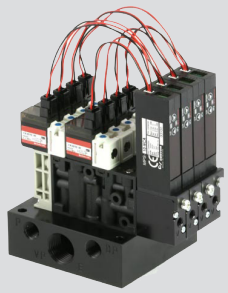
KMC42 series



Features

- Compact type and light weight
  10 mm width body, resin body
- Digital vacuum sensor mountable
- Can be mounted on manifold - Up to 5 units
- Easy replacement of vacuum pump system

How to order

KMC42 [S] [05] [H] [S] [V9] [4] [B] [ ] [ ] [ ] [ ]
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① Body type

S	Single unit
M	Manifold unit

② Nozzle size

05	Ø0.5
07	Ø0.7

③ Maximum vacuum pressure

H	-87kPa

④ Supply pressure

S	0.5MPa
R	0.35MPa

Note) ②③④ applicable models

②	③	④	
		S	R
05	H	O	O
07	H	O	O

⑤ Pressure sensor

	Sensor type	Pressure	Display	Switch output	Analog output	Input specification
V9	MPS-9	Vacuum	Digital	NPN1 point	DC1~5V	Without
V9P	MPS-9	Vacuum	Digital	PNP1 point	DC1~5V	Without
10	MPS-10	Compound	Digital	NPN1 point	DC1~5V	Sink
10P	MPS-10	Compound	Digital	PNP1 point	DC1~5V	Sink
10PS	MPS-10	Compound	Digital	PNP1 point	DC1~5V	Source
ZZ	Without	-	-	-	-	-

⑥ Solenoid valve voltage

4	DC24V

⑦ Solenoid valve function

A	Nomally open (N.O)
B	Nomally close (N.C)
W	Self-holding solenoid valve note)1

Note 1) The energy-saving function of a sensor cannot work if the self-holding valve is selected.

⑧ Number of manifold units

Nil	①: Single type
1	1 unit
2	2 units
3	3 units
4	4 units
5	5 units

⑨ Number of block plates

Nil	①: Single type		
0	None	3	3 units
1	1 unit	4	4 units
2	2 units	5	5 units

⑩ Number of bodies

Nil	①: Single type		
0	None	3	3 units
1	1 unit	4	4 units
2	2 units	5	5 units

⑪ Position of body

R	Placed to the right
L	Placed to the left
Nil	①: Single type When ⑪ & ⑬ are same

※ Please turn the vacuum port towards your side, the unit body you faced could be either left or right upon chosen.

Maintenance parts

- Solenoid valve (with gasket and mounting screws)

  CKV010-4E

  ※ Please contact us for detailed specifications.

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

  LV290-4E

  ※ Please contact us for detailed specifications.

- Pressure switch (with O ring, setting screws)

  MPS-V9-MC4

  MPS-V9P-MC4

  MPS-10-MC4-S(Normally cloase, Sink input)

  MPS-10-MC4-W(Self-holding, Sink input)

  MPS-10P-MC4-S(Normally cloase, Sink input)

  MPS-10P-MC4-S-S(Normally cloase, Source input)

  MPS-10P-MC4-W(Self-holding, Sink input)

  MPS-10P-MC4-W-S(Self-holding, Source input)

  ※ Please contact us for detailed specifications.

- Block plate for manifold (with setting screws)

  KMC4-MM

- Manifold base (With mounting screw and plugs)

KMC2 - M [1]
①

① Number of manifold units

1	1 unit
2	2 units
3	3 units
4	4 units
5	5 units

- Base for unit type

  KMC4-SB

Specifications

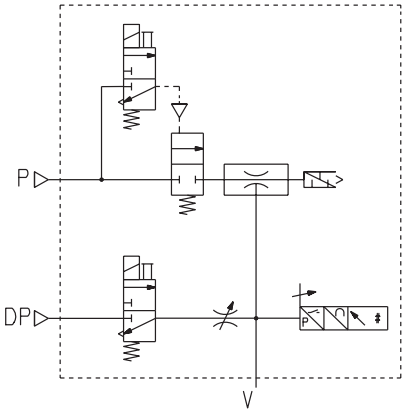
Model		KMC42□05		KMC42□07	
		HS	HR	HS	HR
Fluid		Non-lubricated air / Non-corrosive gas			
Ambient temperature		0 ~ 60℃ (without freezing)			
Operating pressure range		0.2 ~ 0.55MPa			
Blow-off flow		10 (at: 0.5) ℓ/min(ANR)			
Solenoid valve function		Normally closed, Normally open, Self-holding			
Nozzle size		Ø0.5		Ø0.7	
Nominal pressure		0.5MPa	0.38MPa	0.5MPa	0.38MPa
Vacuum (air) flow ℓ/min(ANR)		7 ℓ/min(ANR)	6 ℓ/min(ANR)	11 ℓ/min(ANR)	11 ℓ/min(ANR)
Max. vacuum pressure		-85kPa			
Air consumption		10 ℓ/min(ANR)	11 ℓ/min(ANR)	21.5 ℓ/min(ANR)	22 ℓ/min(ANR)
Mass	L/LC single type	57g			

Solenoid valve specifications

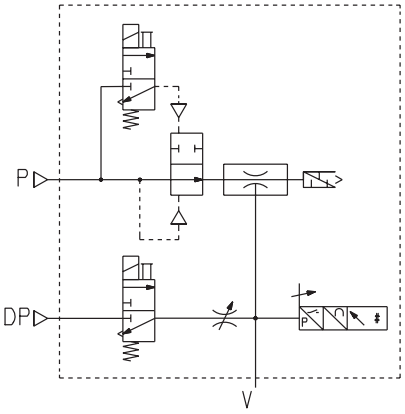
	CKV010-4E	LV290-4E
Solenoid valve function	Normally closed (N.C), Normally open (N.O)	Self-holding
Operating voltage	DC24V	
Allowable voltage tolerance	±10%	
Power consumption	1W	1.3W / 1.5W
Grade of insulation	B class	
Manual override operation	Non-lock push button	
Display - Surge killer	LED·diode	
Cable	Lead wire with connector (300mm)	

Symbol

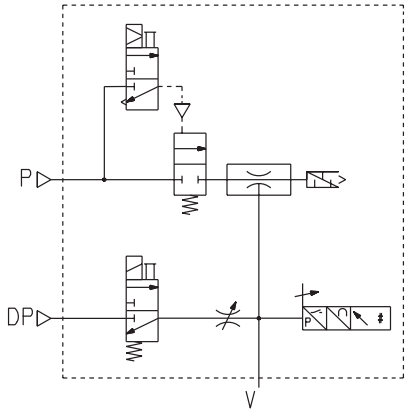
KMC22 Normally closed



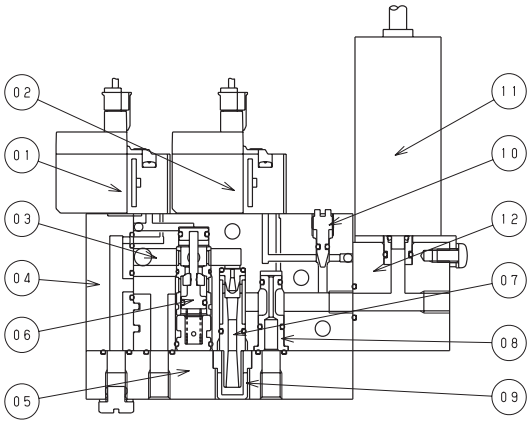
KMC22 Normally open



KMC22 Self-holding



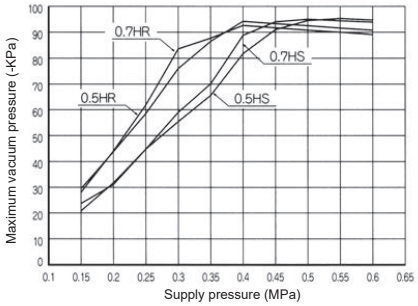
Construction



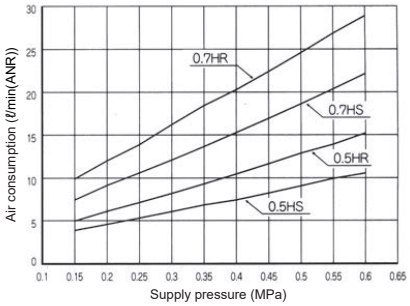
NO	Part name	Material
1	Solenoid valve	-
2	Solenoid valve	-
3	Body	PA
4	Side plate	PA
5	Base	Aluminium
6	Poppet valve	SUS, Aluminium, NBR, FKM
7	Nozzle kit	Aluminium, NBR
8	Cross adapter	Aluminium, NBR
9	Silencer	Aluminium
10	Blow-off needle	SUS, NBR
11	Pressure sensor	-
12	Sensor base	Aluminium

Performance charts

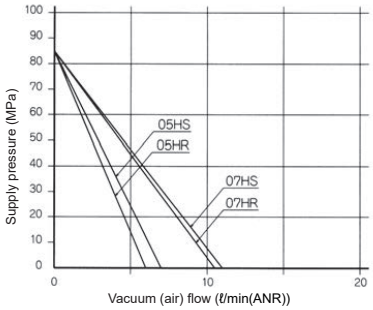
Maximum vacuum pressure characteristic



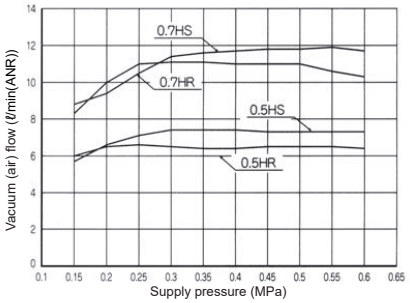
Air consumption characteristics



Vacuum (air) flow - vacuum pressure characteristic

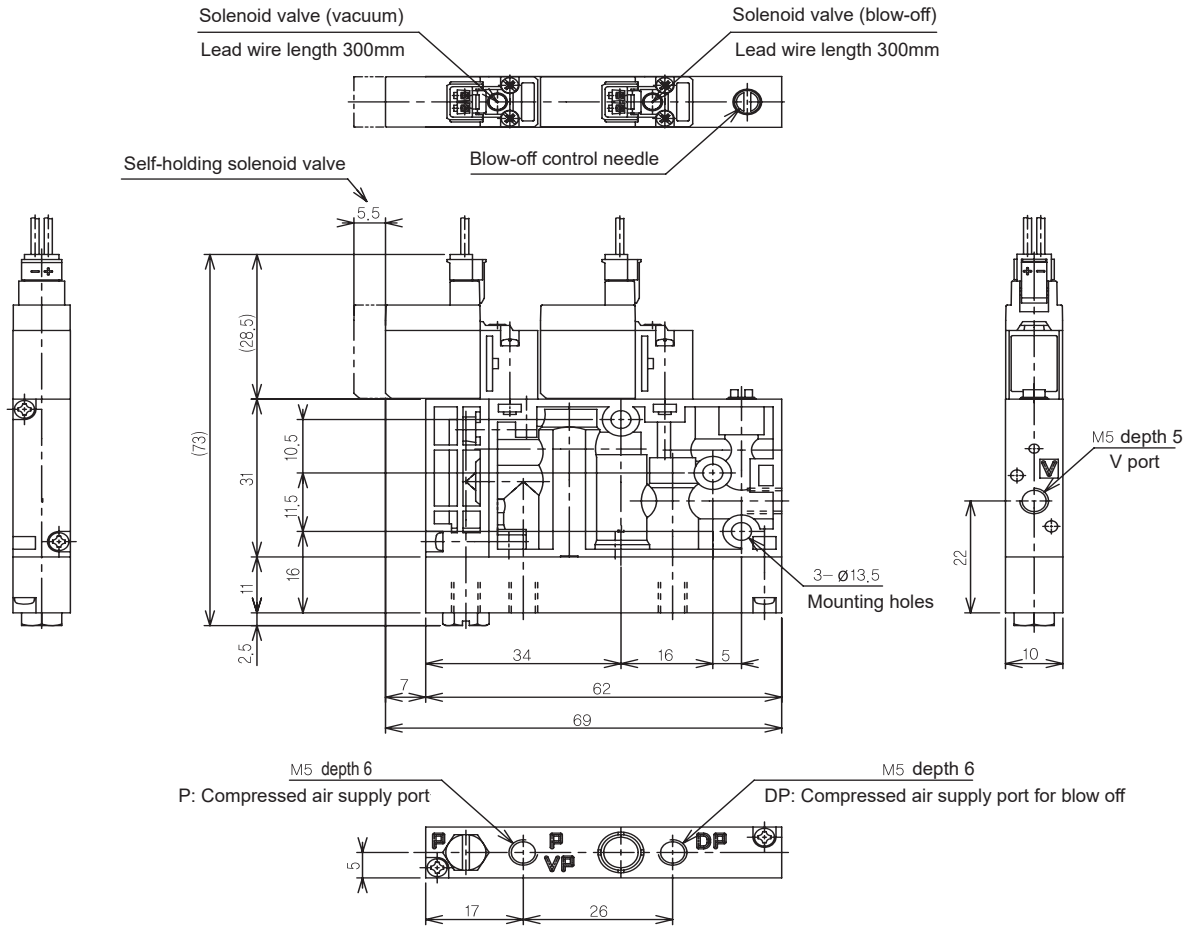


Maximum vacuum (air) flow characteristic



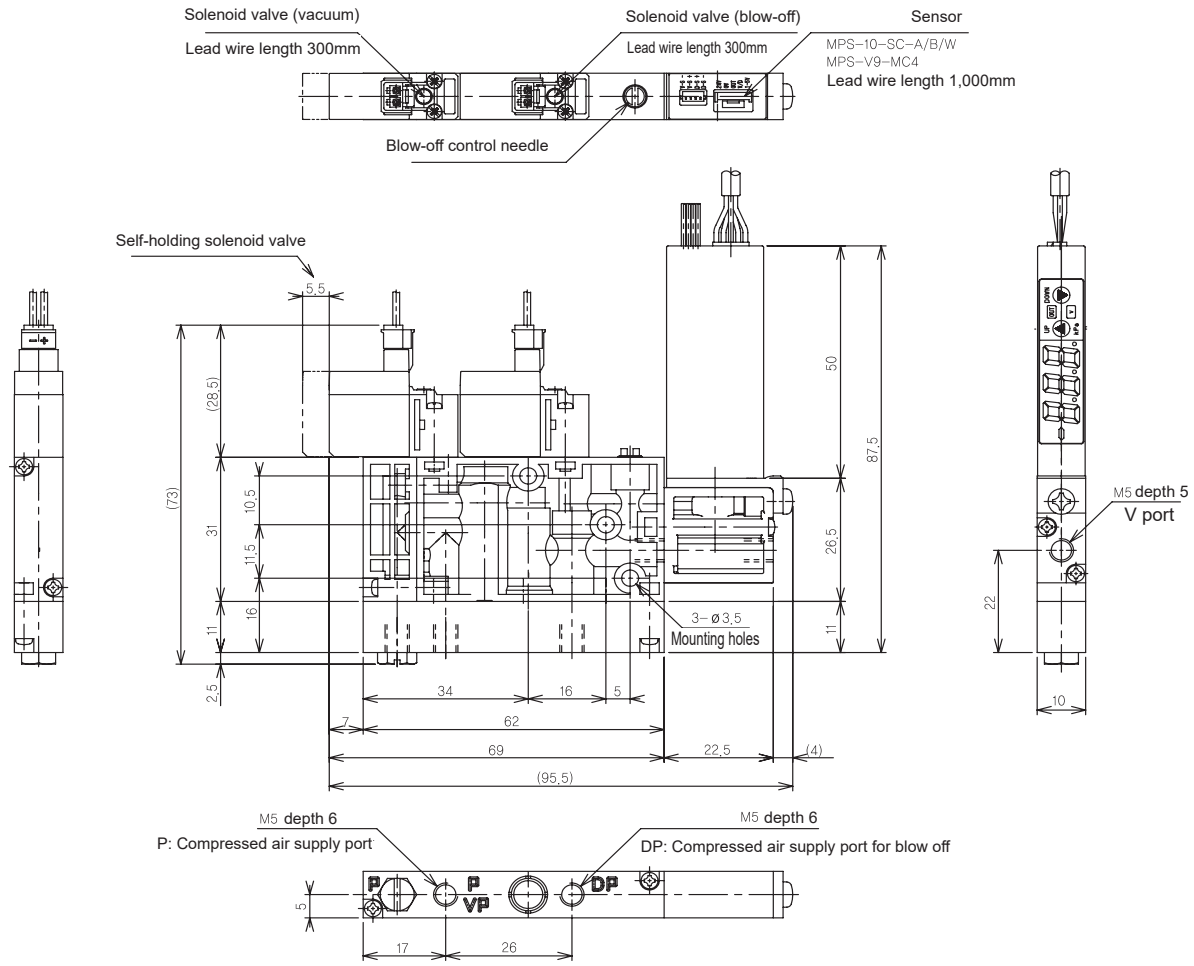
Dimensions

Single unit type
Without check valve



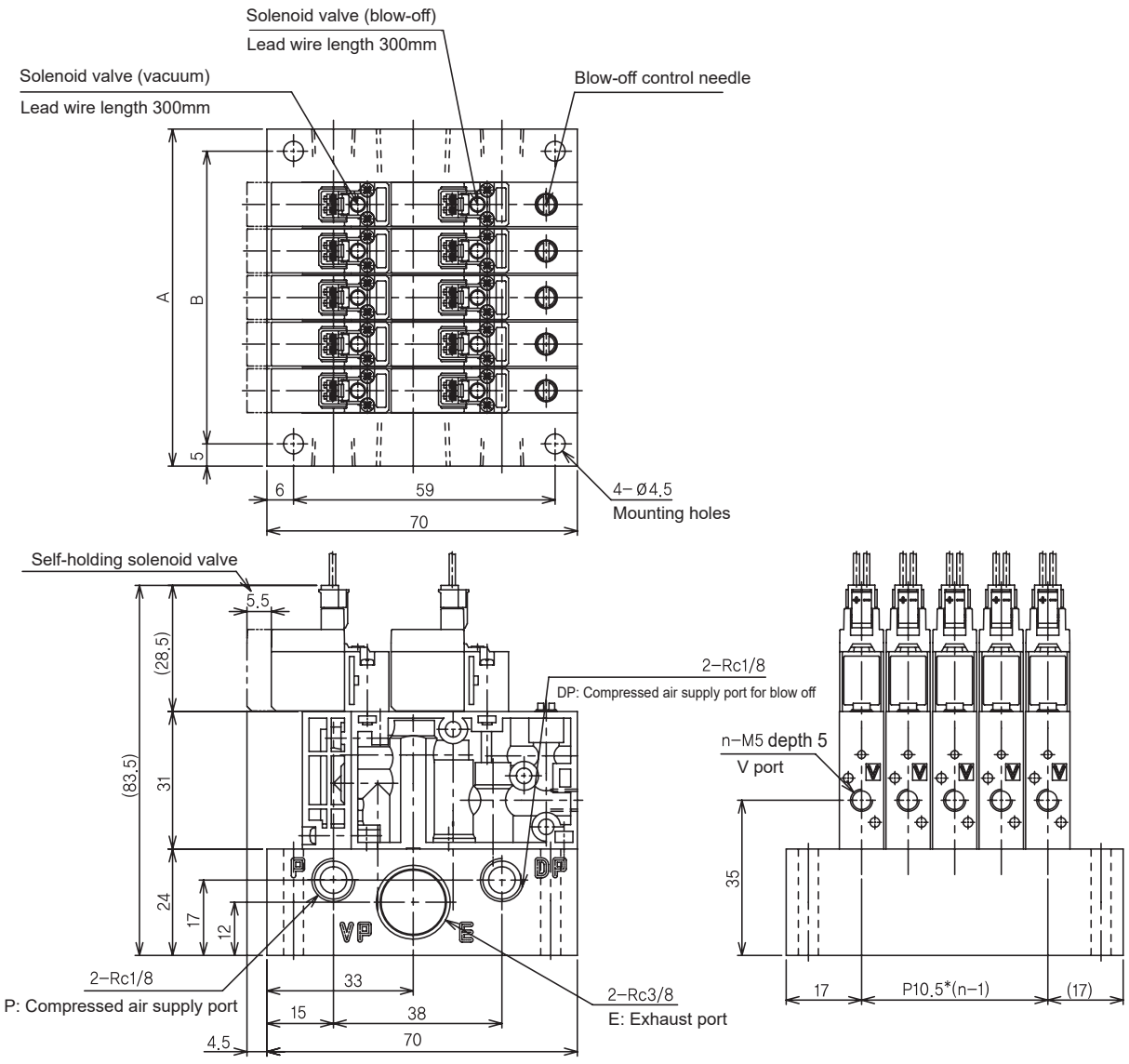
Dimensions

Single unit type
With sensor



Dimensions

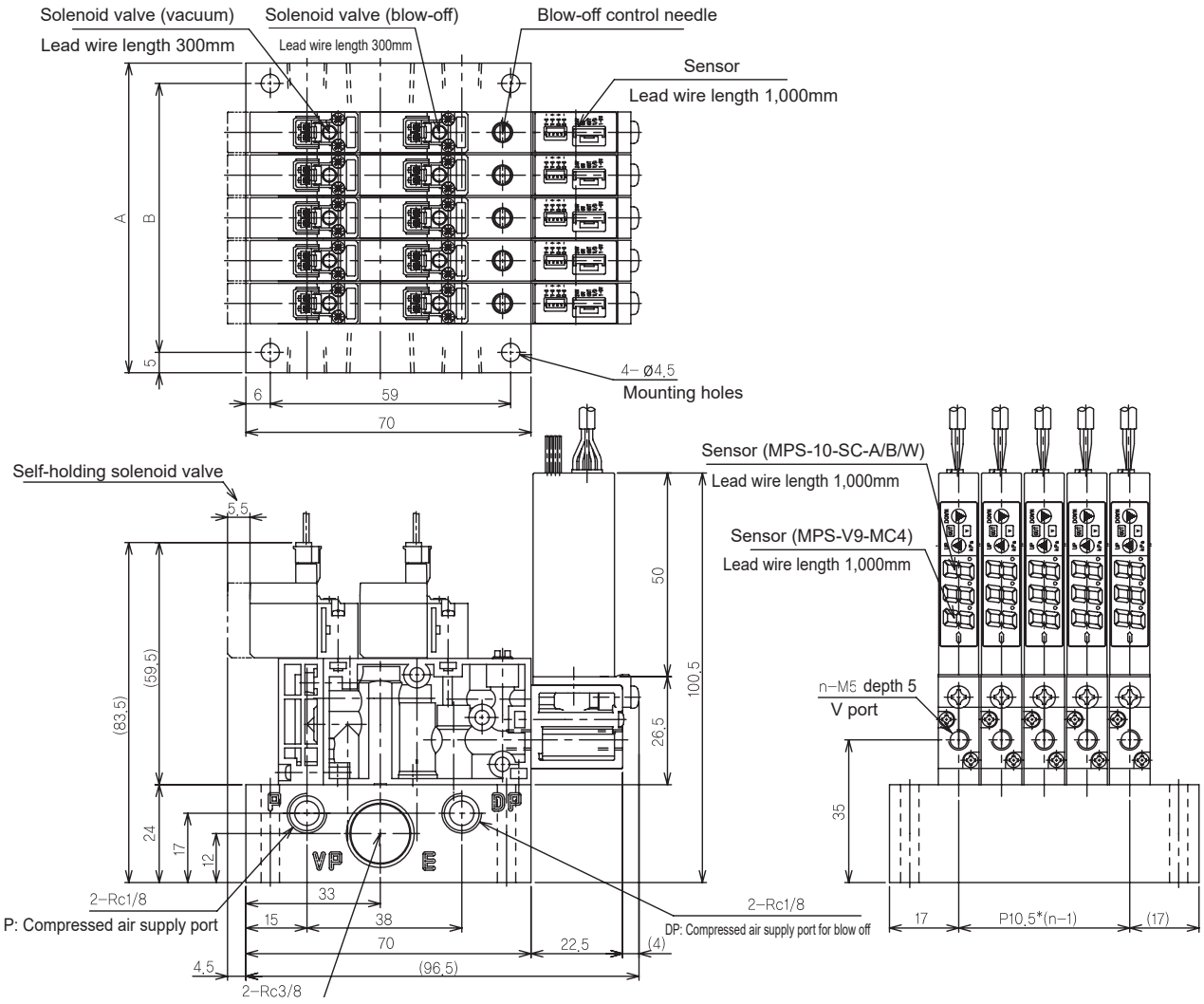
Manifold type
Without sensor



n(number of units)	1	2	3	4	5
A	34	44.5	55	65.5	76
B	24	34.5	45	55.5	66

Dimensions

Manifold type
With sensor



n(number of units)	1	2	3	4	5
A	34	44.5	55	65.5	76
B	24	34.5	45	55.5	66