

MVSC-220 series

SOLENOID VALVE



Mindman



Features



Selection table



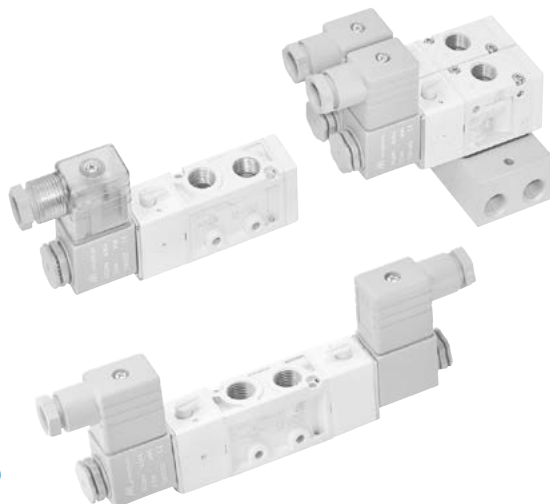
Blocking plate



Technical data



Caution for safety
(Read before installing)



Specification

Model	3E1	3E2	4E1	4E2	4E2 C.P.R	
Bore No.	8A		6A, 8A			
Port size	1/4		1/8, 1/4			
No. of port	3		5			
No. of position	2		2		3	
Medium	Air					
Operating perssure range	0.2~0.8 MPa				0.3~0.8 MPa	
Operating pressue (LP)	0~0.8 MPa					
Pilot pressure range (LP)	(0.34×P(*1)+0.1)~0.5 MPa					
Proof pressure	1 MPa					
Effective orifice	18 mm ²				16 mm ²	
Reponse time	30 ms				40 ms	
Ambient temperature	-5~+50°C (No freezing)					
Voltage	AC110V, 220V, 24V (50/60)Hz, DC24V, 12V					
Power consumption	Standard	AC=4.8/4.4VA, 6/4.9VA, 6.7/5.4VA, DC=2W, 2.5W				
	Power saving	DC24V=Start: 2W(*2) Power saving: 0.5W				
Available voltage range	±10%					
Insulation class	F class					
Weight (g)	Valve	181	294	198	313	352
	Manifold	3B: 56n+77 (*3) 3M: 71n+114		5B: 61n+61 5M: 137n+157 (*3)		

*1. P: Operating pressure *2. Power saving covert time 100ms. *3. n: Stations

Order example of valve

MVSC — 220M — 4E2C — NC — □ — AC110 — L — LP — G

MODEL

BODY WIDTH

Blank: Body ported type
M: Manifold type

3: 3 way (3 port)
4: 4 way (5 port)

E1: Single Solenoid
E2: Double Solenoid

C: Closed center
P: Pressure center
R: Exhaust center
(Only for 4E2 type)

NC: Normally closed
NO: Normally open
(Only for 3E1 type)

PORT SIZE

Blank: 1/4
6A: 1/8
(Only for 4E* & AC24V(50/60)Hz body ported type)

VOLTAGE

AC220V(50/60)Hz
AC110V(50/60)Hz
AC24V(50/60)Hz
DC24V
DC12V

LP: External pilot

PORT THREAD

Blank: Rc thread
G: G thread
NPT: NPT thread
(Only for body ported type)

ELECTRIC CONNECTION

Standard	
Blank	DIN terminal
L	DIN terminal with LED indicator
E	Explosion protection (Table 1)(Black coil)
Power saving (for DC24V)	
KL	DIN terminal with LED indicator

Order example of manifold

MVSC — 220M — 5M3 — G

MODEL

MANIFOLD

NUMBER

Blank: Body ported type	3B	3 port	1~23
	5B	5 port	1~23
M: Manifold type	3M	3 port	1~11
	5M	5 port	1~12

PORT THREAD
Blank: Rc thread
G: G thread
NPT: NPT thread

* Starting from 11 stations, manifolds are made to order.

Table 1

Property for explosion-proof type

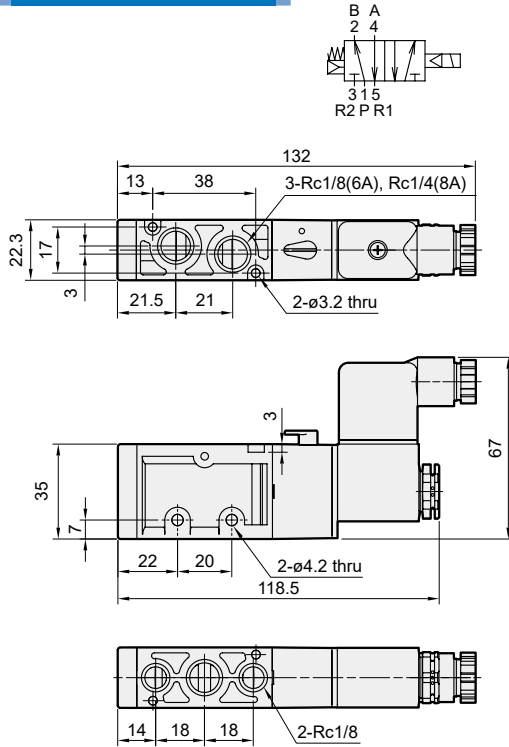
Anti-explosion class	EEx m II T4
Voltage	AC110V, 220V(50/60)Hz, DC24V
Power consumption	AC=4.4VA DC=5W
Available voltage range	±10%
Insulation class	F class
Wire length	3 m

MVSC-220 Dimensions

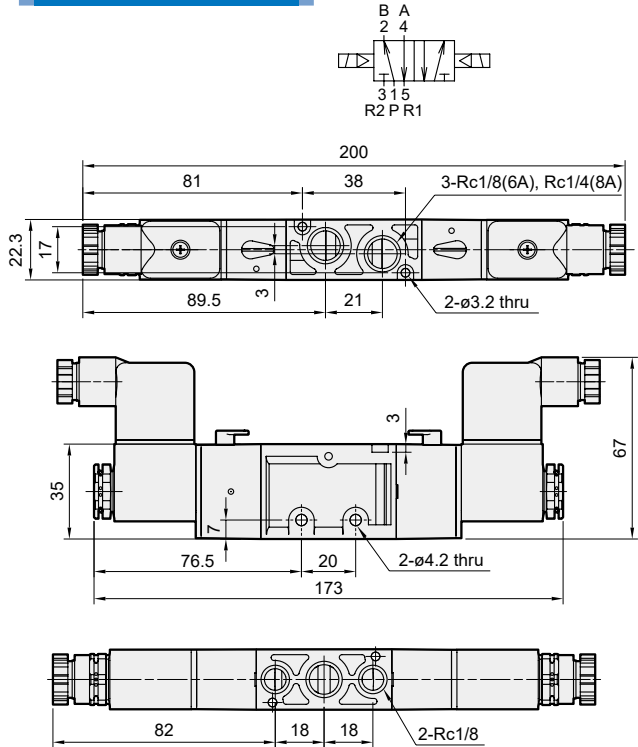
SOLENOID VALVE



MVSC-220-4E1



MVSC-220-4E2

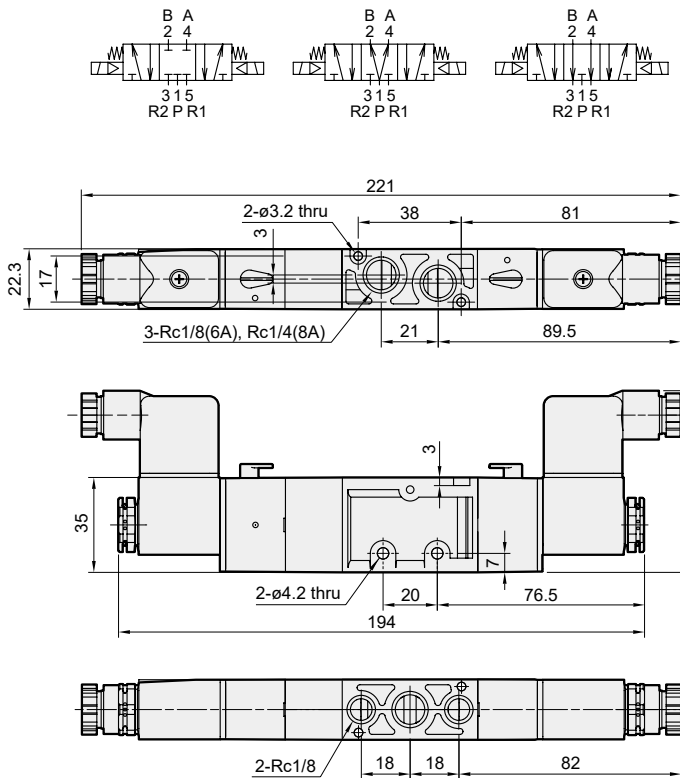


MVSC-220-4E2C.PR

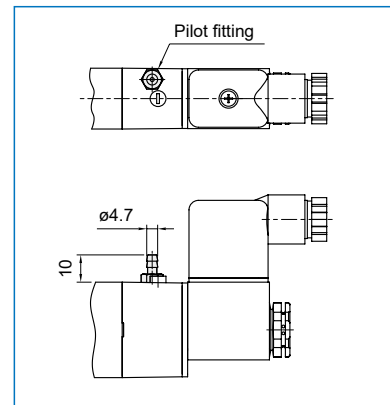
MVSC-220-4E2C

MVSC-220-4E2P

MVSC-220-4E2R

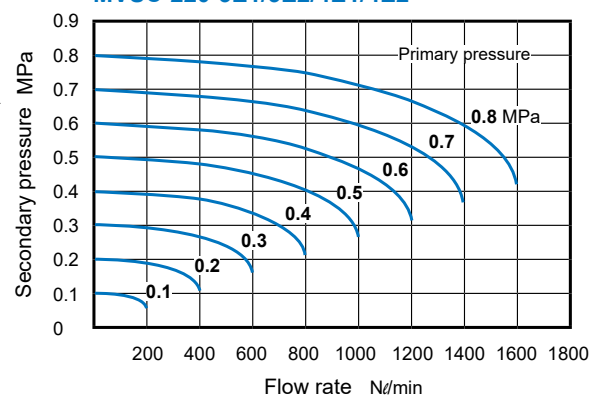


LP



Flow features

MVSC-220-3E1/3E2/4E1/4E2

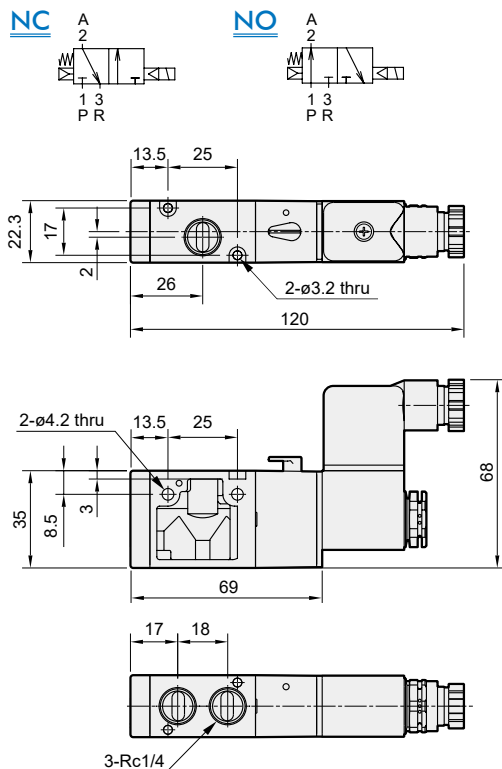


MVSC-220 Dimensions

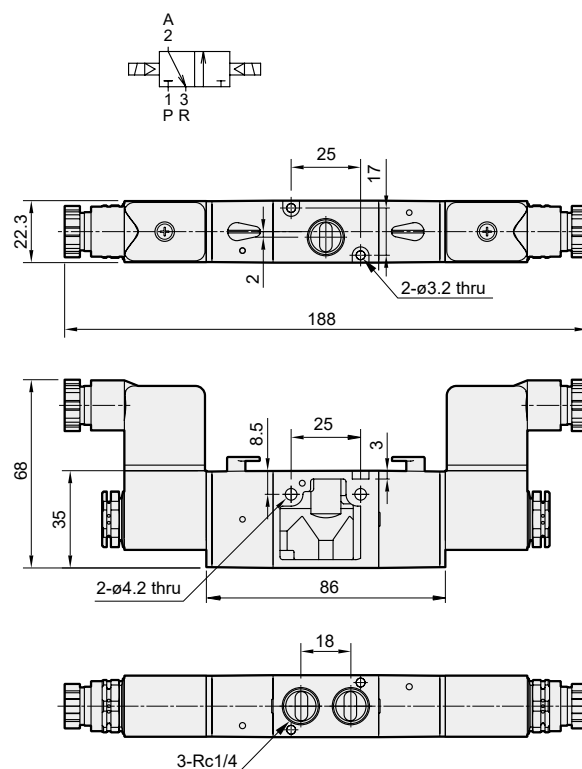
SOLENOID VALVE



MVSC-220-3E1-NC/NO



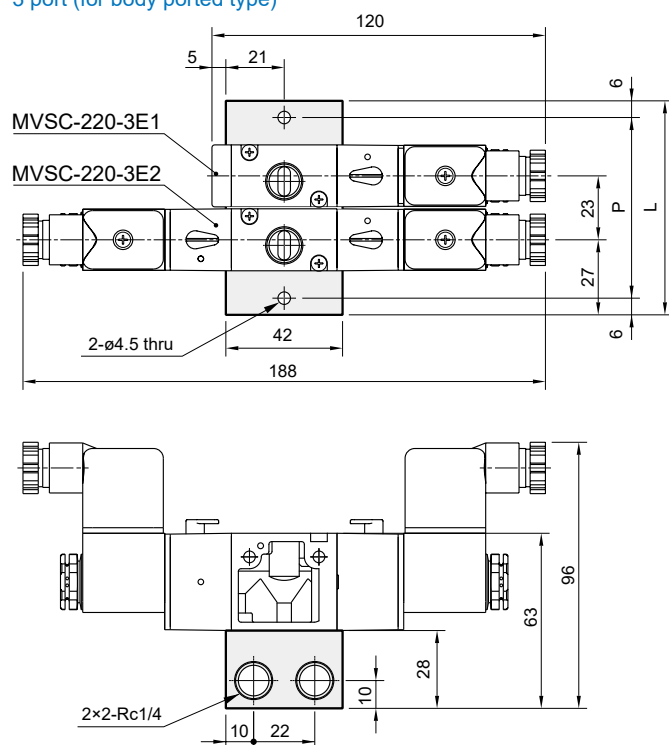
MVSC-220-3E2



Manifold of solenoid valve

MVSC-220-3B*

3 port (for body ported type)



No. of stations	P	L
1	42	54
2	65	77
3	88	100
4	111	123
5	134	146
6	157	169
7	180	192
8	203	215
9	226	238
10	249	261

P: (No. of stations-1)×23+42

L: (No. of stations-1)×23+54

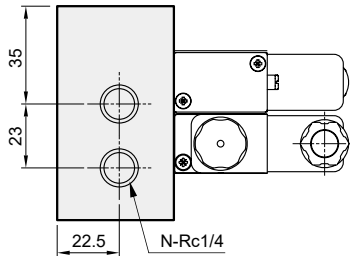
MVSC-220 Manifold

SOLENOID VALVE



MVSC-220M-3M*

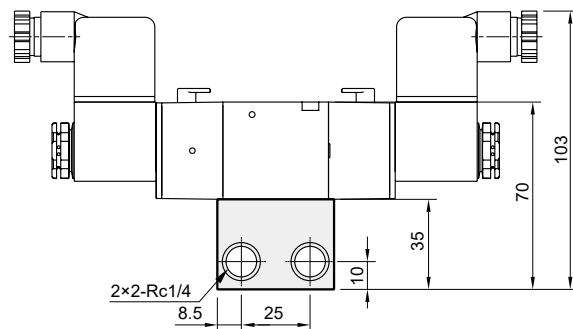
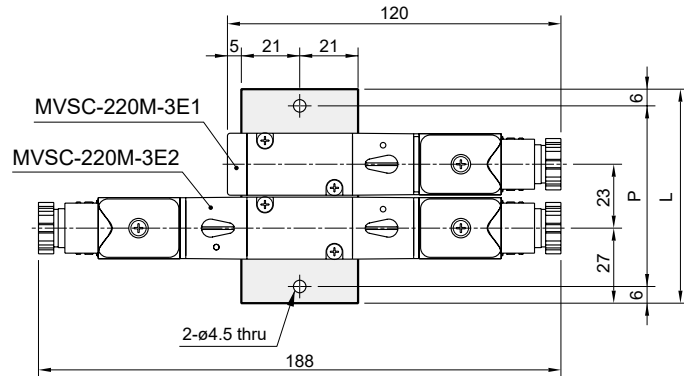
3 port (for manifold type)



No. of stations (N)	P	L
1	42	54
2	65	77
3	88	100
4	111	123
5	134	146
6	157	169
7	180	192
8	203	215
9	226	238
10	249	261

P: (No. of stations-1)×23+42

L: (No. of stations-1)×23+54



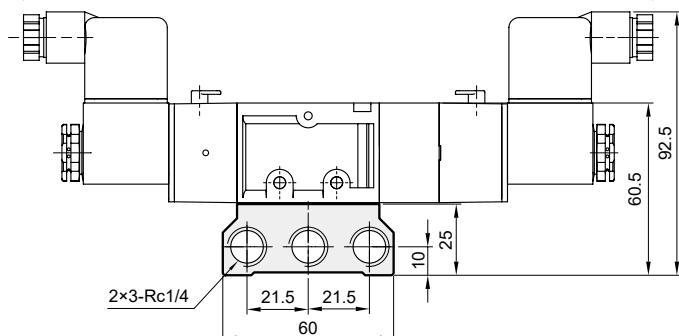
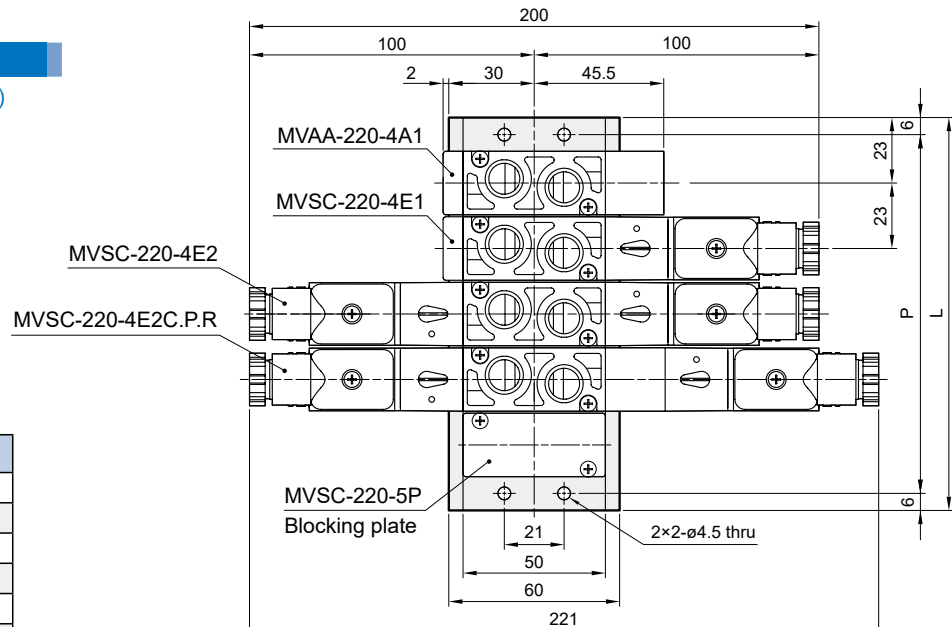
MVSC-220-5B*

5 port (for body ported type)

No. of stations	P	L
1	34	46
2	57	69
3	80	92
4	103	115
5	126	138
6	149	161
7	172	184
8	195	207
9	218	230
10	241	253

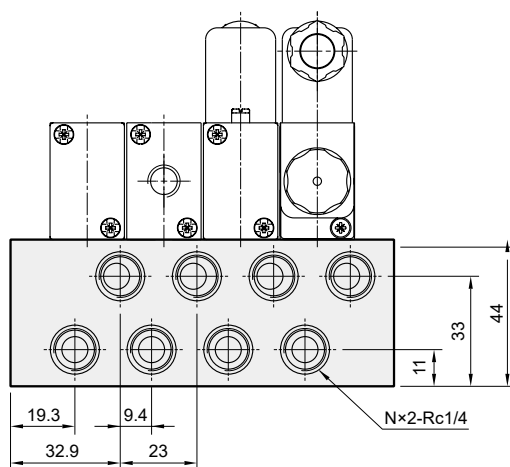
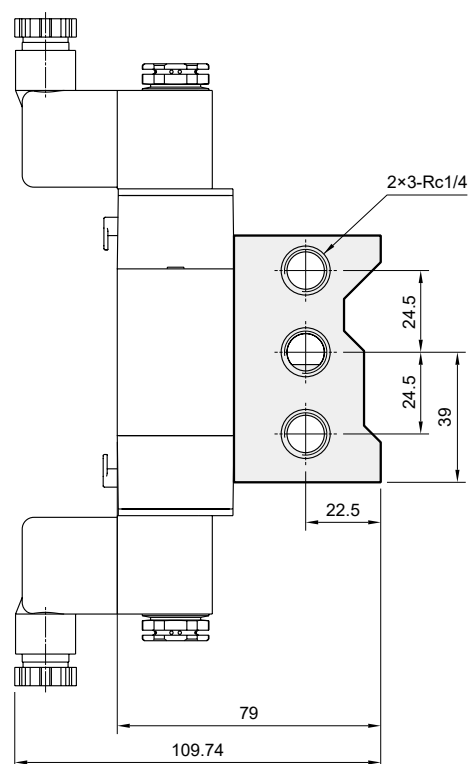
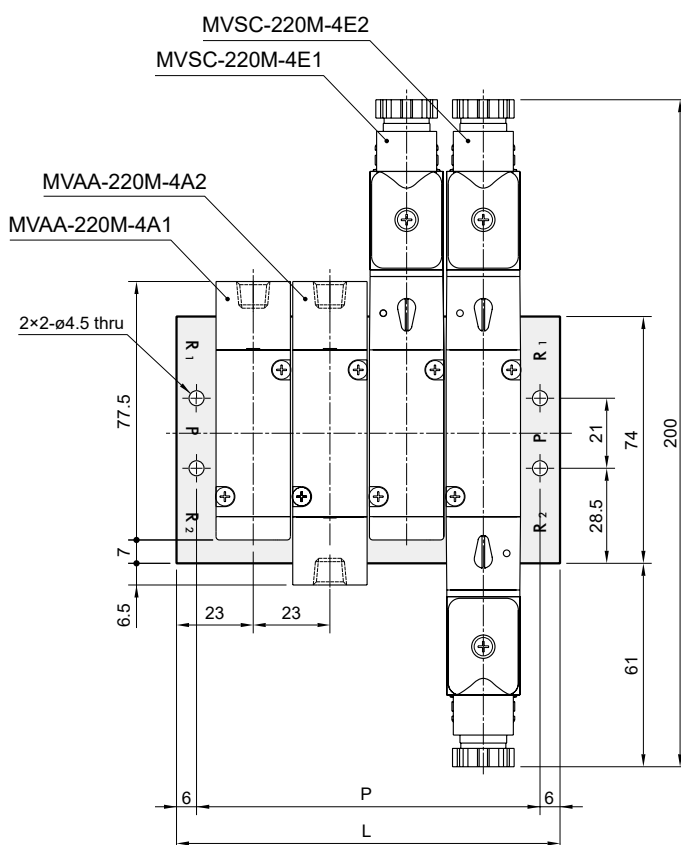
P: (No. of stations-1)×23+34

L: (No. of stations-1)×23+46



MVSC-220M-5M*

5 port (for manifold type)



No. of stations (N)	P	L
1	34	46
2	57	69
3	80	92
4	103	115
5	126	138
6	149	161
7	172	184
8	195	207
9	218	230
10	241	253

P: (No.of stations-1)×23+34

L: (No.of stations-1)×23+46