

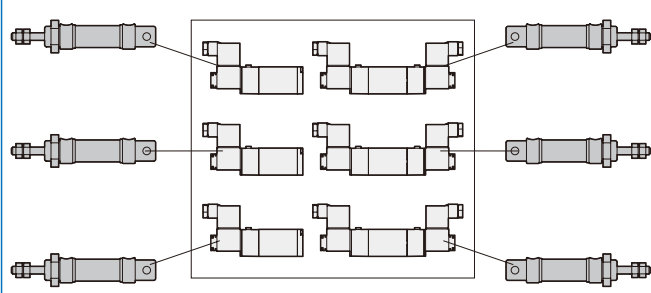
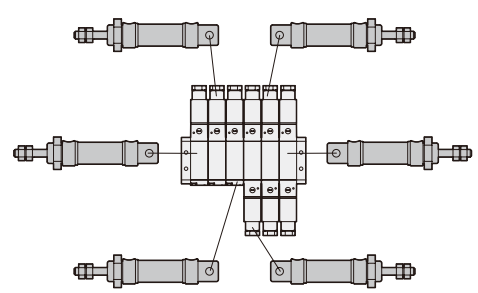
Pressure conversion chart

Pa	kPa	MPa	bar	mbar	kgf/cm ²	cmH ₂ O	mmH ₂ O	mmHg	p.s.i.
1	0.001	0.000001	0.00001	0.01	0.0000102	0.0102	0.10197	0.0075	0.000145
1000	1	0.001	0.01	10	0.0102	10.2	101.97	7.5	0.145
1000000	1000	1	10	10000	10.2	10200	101970	7500	145
100000	100	0.1	1	1000	1.02	1020	10200	750.06	14.5
100	0.1	0.0001	0.001	1	0.00102	1.02	10.2	0.75	0.0145
98066.5	98.07	0.09807	0.98	980.67	1	1000	10000	735.56	14.22
98.0665	0.9807	0.0009807	0.00098	0.98	0.001	1	10	0.74	0.01422
9.80665	0.09807	0.00009807	0.00009807	0.09807	0.0001	0.1	1	0.07356	0.00142
133.32	0.13332	0.00013332	0.00133	1.33	0.00136	1.36	13.6	1	0.01934
6895	6.895	0.006895	0.06895	68.95	0.07031	70.31	703.07	51.71	1

Flow rate conversion chart

m ³ /s	l/s	cm ³ /s	m ³ /h	m ³ /min	l/h	l/min	ft ³ /min (scfm)	gallon min UK	gallon min USA
1	1000	1000000	3600000	60	3600000	60000	2120	13200	15850
0.001	1	1000	3.6	0.06	3600	60	2.12	13.2	15.85
0.000001	0.001	1	0.0036	0.00006	3.6	0.06	0.0212	0.0132	0.01585
0.00028	0.28	280	1	0.1667	1000	16.67	0.59	3.67	4.4
0.01667	16.67	16670	60	1	60000	1000	35.31	219.97	264.17
0.00000028	0.00028	0.28	0.001	0.00001667	1	0.01667	0.00059	0.00367	0.0044
0.00001667	0.01667	16.67	0.06	0.001	60	1	0.03531	0.21997	0.264
0.00047	0.47	470	1.699	0.02832	1699	28.32	1	6.23	7.48
0.00007579	0.07577	75.77	0.273	0.00455	273	4.55	0.16	1	1.2
0.00006309	0.06309	63.09	0.227	0.00379	227	3.79	0.13	0.83	1

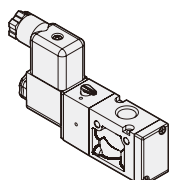
Intergrated connection system offers improvements on facilities

Facilities with traditional connection system	Facilities applied with intergrated connection system
• Longer distance from the controlling valve to the operating unit. • Slower response time. • More air consumption. • Complicated connection arrangements. • Mass electric wiring and connections to controlling valves task. • Higher cost to run the facilities. • Higher pressure drop. 	• Shorter distance from the controlling valve to the operating unit. • Quicker response time. • Less air consumption. • Simple connection arrangements. • Moderate electric wiring connections task. • Lower cost to run the facilities. • Lower pressure drop. 

SOLENOID VALVE

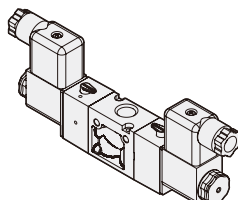
3E1

3 way / Single solenoid



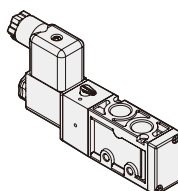
3E2

3 way / Double solenoid



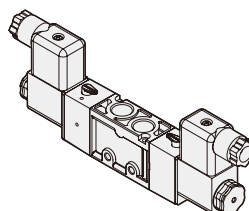
4E1

4 way / Single solenoid



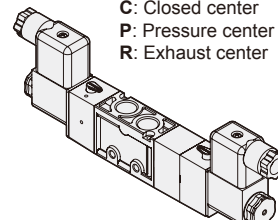
4E2

4 way / Double solenoid

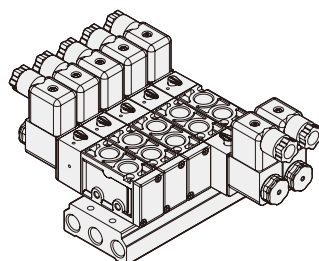


4E2C.P.R

4 way / Double solenoid
C: Closed center
P: Pressure center
R: Exhaust center

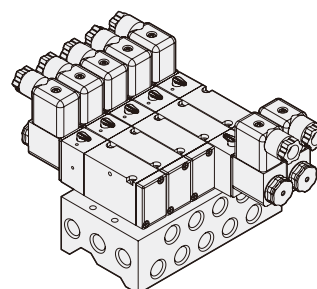


Body ported type

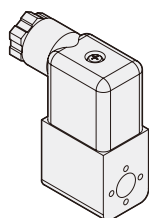


M

Manifold type

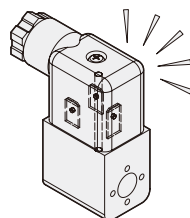


DIN connector



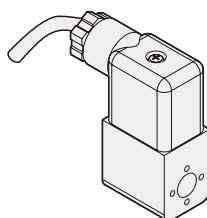
L

LED indicator



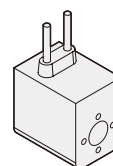
E

Explosion protection



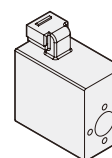
W

Lead wire



H

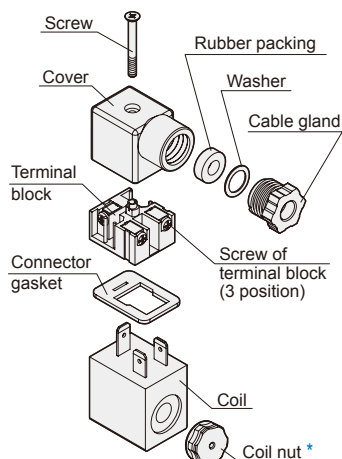
Horizontal connector
With LED indicator



DIN connector

- Suitable cables: $\phi 6 \sim \phi 9$
Max. conductor size: 1.5 mm^2
- Recommended tightening torque
Screw: 0.5 Nm
Screw of terminal block: 0.5 Nm

- Max. tightening torque of coil nut (*)
as shown in the table below.



Model	Spec.	Max tightening torque (Nm)
MVSC-220	M8	0.5
MVSC-260	M8	0.5
MVSC-300	M8	0.5
MVSC-460	M8	0.5
MVSD1-180	M7	0.5
MVSD-180	M7	0.5
MVSE-260	M8	0.5
MVSE-300	M8	0.5
MVSE-500	M8	0.5
MVSE-510	G1/4	0.6

Model	Spec.	Max tightening torque (Nm)
MVSE-600	G1/4	0.6
MVSI-260	M8	0.5
MVSI-450	M8	0.5
MVSI-510	G1/4	0.6
MVSN-220	M8	0.5
MVSN-300	M8	0.5
MVDC-220	M8	0.5

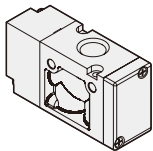
Technical data

PILOT / MECHANICAL VALVE

PILOT VALVE

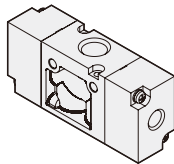
3A1

3/2 Single pilot



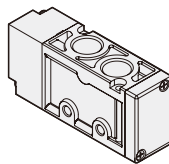
3A2

3/2 Double pilot



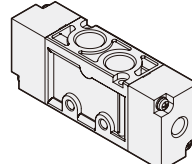
4A1

5/2 Single pilot



4A2

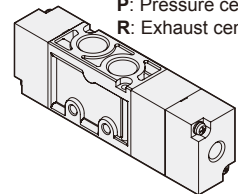
5/2 Double pilot



4A2(C.P.R)

5/3 Double pilot

C: Closed center
P: Pressure center
R: Exhaust center



MECHANICAL VALVE

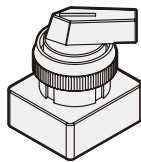
EB

Latching palm button



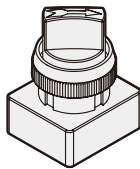
LB

Extended twist button



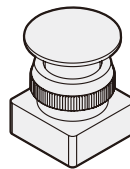
TB

Twist button



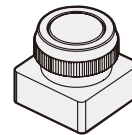
PB

Mushroom palm button



PP

Push button



R1

Roller lever

