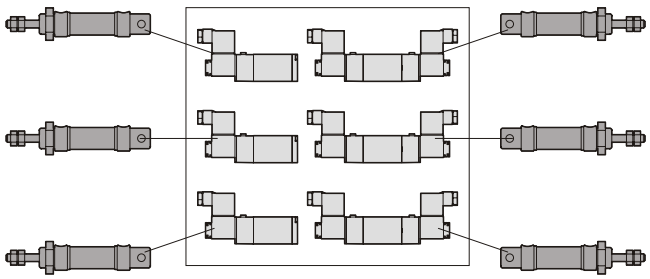
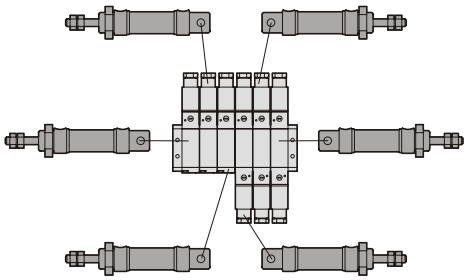
Pressure conversion chart

Pa	kPa	MPa	bar	mbar	kgf/cm^2	cmH_2O	mmH_2O	mmHg	p.s.i.
1	10^{-3}	10^{-6}	10^{-5}	10^{-2}	10.2×10^{-6}	10.2×10^{-3}	101.97×10^{-3}	7.5×10^{-3}	0.15×10^{-3}
10^3	1	10^{-3}	10^{-2}	10	10.2×10^{-3}	10.2	101.97	7.5	0.15
10^6	10^3	1	10	10^4	10.2	10.2×10^3	101.97×10^3	7.5×10^3	0.15×10^3
10^5	10^2	10^{-1}	1	10^3	1.02	1.02×10^3	10.2×10^3	750.06	14.5
10^2	10^{-1}	10^{-4}	10^{-3}	1	1.02×10^{-3}	1.02	10.2	0.75	14.5×10^{-3}
98066.5	98.07	98.07×10^{-3}	0.98	980.67	1	1000	10000	735.56	14.22
98.0665	98.07×10^{-3}	98.07×10^{-6}	0.98×10^{-3}	0.98	10^{-3}	1	10	0.74	14.22×10^{-3}
9.80665	9.807×10^{-3}	9.807×10^{-6}	98.07×10^{-6}	98.07×10^{-3}	10^{-4}	0.1	1	73.56×10^{-3}	1.42×10^{-3}
133.32	133.32×10^{-3}	133.32×10^{-6}	1.33×10^{-3}	1.33	1.36×10^{-3}	1.36	13.6	1	19.34×10^{-3}
6894.76	6.89	6.89×10^{-3}	68.95×10^{-3}	68.95	70.31×10^{-3}	70.31	703.07	51.71	1

Flow rate conversion chart

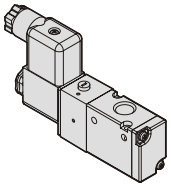
m^3/s	l/s	cm^3/s	m^3/h	m^3/min	l/h	l/min	ft^3/min (scfm)	gallon min UK	gallon min USA
1	10^3	10^6	3.6×10^6	60	3.6×10^6	60×10^3	2.12×10^3	13.2×10^3	15.85×10^3
10^{-3}	1	10^3	3.6	60×10^{-3}	3.6×10^3	60	2.12	13.2	15.85
10^{-6}	10^{-3}	1	3.6×10^{-3}	60×10^{-6}	3.6	60×10^{-3}	2.12×10^{-3}	13.2×10^{-3}	15.85×10^{-3}
0.28×10^{-3}	0.28	0.28×10^3	1	16.67×10^{-3}	10^3	16.67	0.59	3.67	4.4
16.67×10^{-3}	16.67	16.67×10^3	60	1	60×10^3	10^3	35.31	219.97	264.17
0.28×10^{-6}	0.28×10^{-3}	0.28	10^{-3}	16.67×10^{-6}	1	16.67×10^{-3}	0.59×10^{-3}	3.67×10^{-3}	4.4×10^{-3}
16.67×10^{-6}	16.67×10^{-3}	16.67	60×10^{-3}	10^{-3}	60	1	35.31×10^{-3}	219.97×10^{-3}	264×10^{-3}
0.47×10^{-3}	0.47	0.47×10^3	1.699	28.32×10^{-3}	1.699×10^3	28.32	1	6.23	7.48
75.79×10^{-6}	75.77×10^{-3}	75.77	0.273	4.55×10^{-3}	0.273×10^3	4.55	0.16	1	1.2
63.09×10^{-6}	63.09×10^{-3}	63.09	0.227	3.79×10^{-3}	0.227×10^3	3.79	0.13	0.83	1

Intergrated connection system offers improvements on facilities

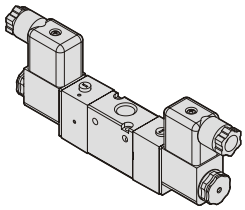
Facilities with traditional connection system	Facilities applied with intergrated connnection system
● Longer distance from the controlling valve to the operating unit. ● Slower response time. ● More air consumption. ● Complicated connection arrangements. ● Mass electric wiring and connections to controlling 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**

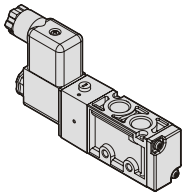
3E1
3 way / Single solenoid



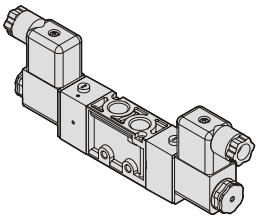
3E2
3 way / Double solenoid



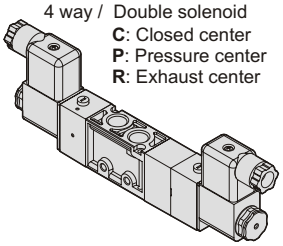
4E1
4 way / Single solenoid



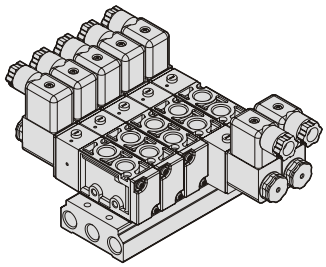
4E2
4 way / Double solenoid



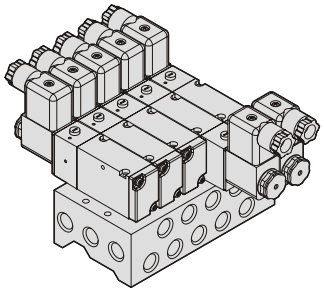
4E2C.P.R
4 way / Double solenoid
C: Closed center
P: Pressure center
R: Exhaust center



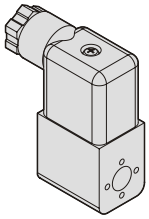
Body ported type



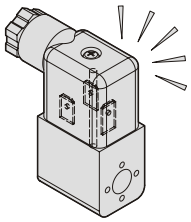
M
Manifold type



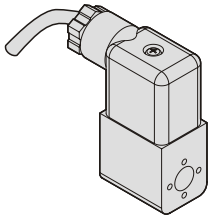
DIN connector



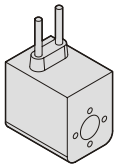
L
LED indicator



E
Explosion protection

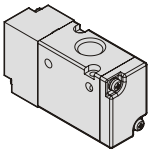


W
Lead wire

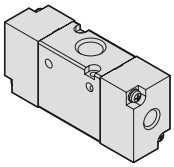


PILOT **VALVE**

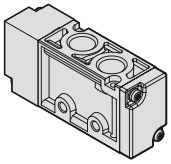
3A1
3/2 Single pilot



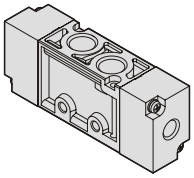
3A2
3/2 Double pilot



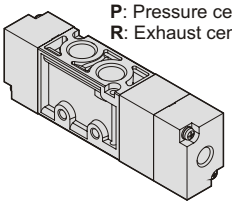
4A1
5/2 Single pilot



4A2
5/2 Double pilot

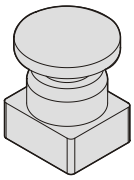


4A2(C.P.R)
5/3 Double pilot
C: Closed center
P: Pressure center
R: Exhaust center

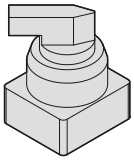


MECHANICAL **VALVE**

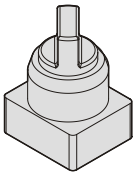
EB
Latching palm button



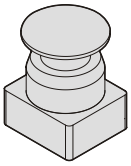
LB
Extended twist button



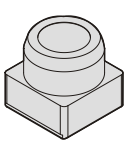
TB
Twist button



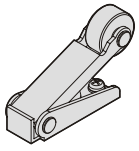
PB
Mushroom palm button



PP
Push button



R1
Roller lever



Selector table

Model	Valve type							Body type			
	3/2		5/2		5/3			Body ported type	Manifold type	Base type	
	Normally colsed (NC)	Normally open (NO)	Single acting	Double acting	Closed center	Pressure center	Exhaust center				
MVSC/D-180	●	●	●		●	●	●	●			
MVSC-220	●	●	●		●	●	●	●	●		
MVSC-260			●		●	●	●	●			
MVSC-300	●	●	●		●	●	●	●			
MVSC-460	●	●	●		●	●	●	●			
MVSE-260			●		●	●	●	●			
MVSE-300			●		●	●	●	●			
MVSE-500			●					●			
MVSE-510			●					●			
MVSE-600			●					●			
MVSF-100	●	●	●					●	●		
MVSG-180			●		●	●	●	●			
MVSI-260			●		●	●	●		●	●	
MVSI-450			●						●	●	
MVSI-510			●						●	●	
MVSN-220			●					●			
MVSN-300			●		●	●	●	●			
MVSY-100			●		●	●	●	●	●		
MVSY-156			●		●	●	●	●	●		
MVSY-188			●		●	●	●	●	●		
MVSZ-100	●		●					●			
MVDC-220	●							●		●	
MVDY-100									●		

	※A, B port size & effective orifice mm^2 (Cv factor)								Body width (mm)	Power consumption W(DC)	※ Working pressure range MPa	Page
	M3	M5	1/8"	1/4"	3/8"	1/2"	3/4"	1"				
			12 (0.67)						18	2.9	0.15~0.8	A-07
				18 (1.00)					22	2.5	0.2~0.7	A-11
				18 (1.00)					26	2.5	0.2~0.7	A-16
					35 (1.94)				30	2.5	0.2~0.7	A-19
						50 (2.78)			30	2.5	0.2~0.7	A-23
				18 (1.00)					26	2.5	0.2~1.2	A-28
					34 (1.89)				30	2.5	0.2~1.2	A-30
						41 (2.28)			30	2.5	0.2~1.2	A-33
						65 (3.61)			68	10	0.2~0.7	A-35
							115 (6.39)	135 (7.5)	68	10	0.2~0.7	A-37
	1.0 (0.06)								10	1.2	0.15~0.8	A-39
			10 (0.56)						18	1.6	0.15~0.7	A-43
				22 (1.22)					35	2.5	0.2~0.7	A-46
				27 (1.5)					45	2.5	0.2~0.7	A-48
						65 (3.61)			68	10	0.2~0.7	A-53
				18 (1.00)					22	2.5	0.2~0.7	A-55
				35 (1.94)					30	2.5	0.2~0.7	A-57
		4 (0.22)							10	1.2	0.15~0.7	A-60
			13 (0.72)						15	1.2	0.15~0.7	A-64
				15 (0.84)					18	1.2	0.15~0.7	A-69
		4.7 (0.26)							10	1.2	0.15~0.7	A-73
			1.2 (0.07)						22	2.5	0.01~0.7	A-75
		0.28 (0.016)							10	1.2	0~0.9	A-77

※ The datas are based on 5/2.