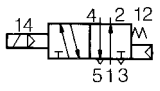
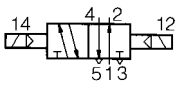
ISO CNOMO Standard Solenoid Valve
Metal Seal - SIZES①②③
Series VS7–6•8•10

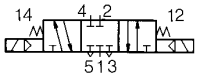
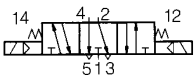
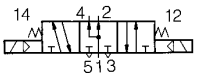
VS7–6–□□□□
Size ①

VS7–8–□□□□
Size ②

VS7–10–□□□□
Size ③

- **Solenoid interface conforms to CNOMO.**
- **Manifold interface to ISO standards.**
- **Low power consuption: 1.8W per solenoid.**
- **Internal or external pilot supply.**
- **Available in ISO 1, 2 and 3 sizes.**
- **Large flow capacity.**
- **Fast response and long life.**

	Single solenoid (FG-S)	Double solenoids (FG-D)
2 position		

	Closed centre (FHG-D)	Exhaust centre (FJG-D)	Pressure centre (FIG-D)
3 position			

Standard Specifications

Fluid			Air and inert gas
Operating pressure (MPa)	Single	2 position	0.15 to 0.9
	Double	2 position	0.1 to 0.9
		3 position	0.15 to 0.9
Ambient and fluid temperature			Max. 50°C
Manual operation			Non-locking
Electrical entry			DIN43650 connector
Lubrication			Unnecessary (Turbine oil class 1 - ISO VG32 if used)
Enviromental protection rating			IP65
Shock/Vibration resistance			300/50m/s^2

Note 1) Shock resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle direction of the main valve and armature, for both energized and de-energized states.
Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed at both energized and de-energized states to the axis and right angle direction of the main valve and armature. (value in the initial stage.)

Pilot Valve Specifications

Rated voltage (V)		100V AC 50/60Hz, 200V AC 50/60Hz, 24V DC, 12V DC
Power comsuption	DC (W)	1.8
	AC Inrush current (VA)	5.4
	AC Holding current (VA)	3.6
Allowable voltage (V)		-15% to +10% of rated voltage
Coil insulation		Class B (130°C) or equivalent

Model

No. of positions	Model	Flow (Nℓ/min)	Max. operating frequency (Hz)	Response time (Ms)	Weight (g)
Size ①					
2 (Single)	**VS7-6-FG-S-□-Q**	1476	20	25	420
2 (Double)	**VS7-6-FG-D-□-Q**	1476	20	15	518
3 (Closed centre)	**VS7-6-FHG-D-□-Q**	1378	10	45	546
3 (Exhaust centre)	**VS7-6-FJG-D-□-Q**	1476	10	45	546
3 (Pressure centre)	**VP7-6-FIG-D-□-Q**	1080	10	45	546
Size ②					
2 (Single)	**VS7-8-FG-S-□-Q**	3148	20	25	698
2 (Double)	**VS7-8-FG-D-□-Q**	3148	20	15	806
3 (Closed centre)	**VS7-8-FHG-D-□-Q**	3148	10	45	850
3 (Exhaust centre)	**VS7-8-FJG-D-□-Q**	3148	10	45	850
3 (Pressure centre)	**VS7-8-FIG-D-□-Q**	3148	10	45	850
Size ③					
2 (Single)	**VS7-10-FG-S-□-Q**	4900	20	25	926
2 (Double)	**VS7-10-FG-D-□-Q**	4900	20	15	1026
3 (Closed centre)	**VS7-10-FHG-D-□-Q**	4690	10	45	1080
3 (Exhaust centre)	**VS7-10-FJG-D-□-Q**	4690	10	45	1080
3 (Pressure centre)	**VS7-10-FIG-D-□-Q**	4690	10	45	1080

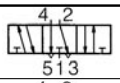
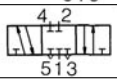
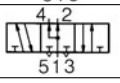
How to Order Valve

EVS7 – 6 – FG – S – 3 CV – Q

Size

6	ISO 1
8	ISO 2
10	ISO 3

Configuration

FG		FJG	
FHG		FIG	

Solenoid

S	Single
D	Double

Voltage

5	110V AC, 50/60Hz
6	220V AC, 50/60Hz
3	24V DC
4	12V DC
9	Others (250V or less)

Order Made Contact SMC for other voltages (9)

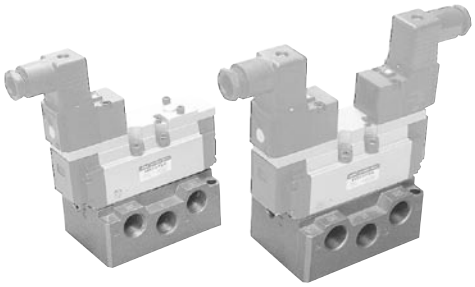
How to Order Sub-plate - Size ①

Specifications

Applicable solenoid valve	ISO size 1
Sub-plate size	ISO size 1
Piping*	Side piping, 1/4 3/8
	Bottom piping, 1/4 3/8
Weight	0.37kg

*) All R ports: 3/8

How to Order Sub-plate



E VS7 – 1 – A02 □

Thread

-	Rc(PT)
F	G(PF)
N	NPT
T	NPTF

Ordering source area code

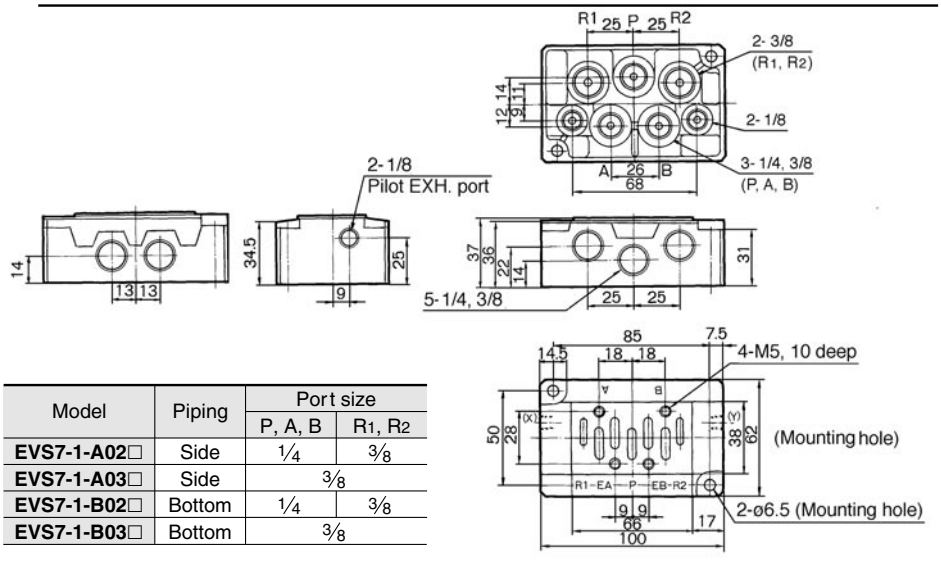
Code	areas
-	Japan, Asia Australia
E	Europe
N	North America

Piping and port size

A02	Side* 1/4
A03	Side 3/8
B02	Bottom* 1/4
B03	Bottom 3/8

*R port: 3/8

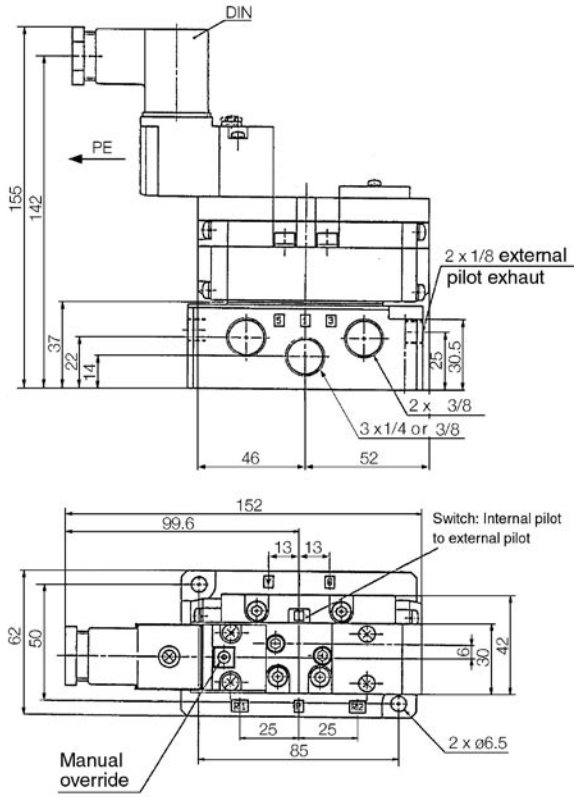
Dimensions



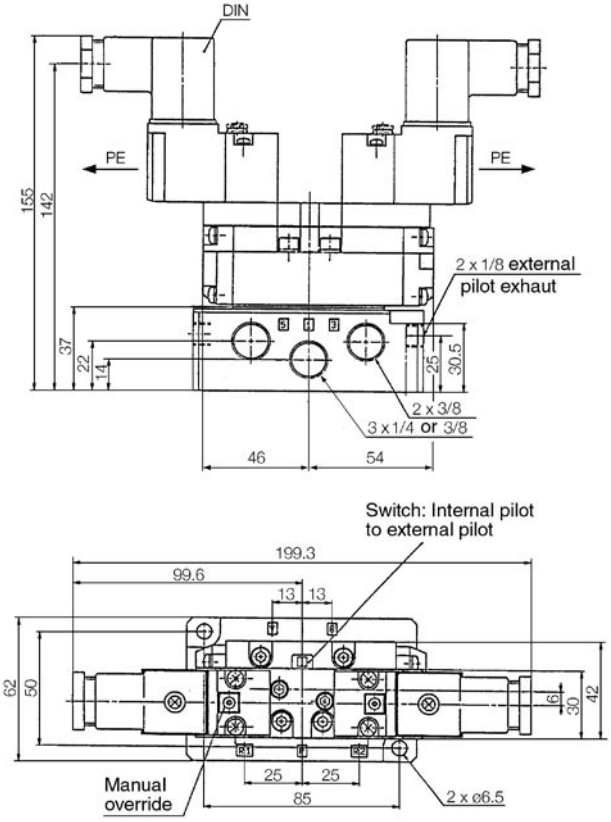
Model	Piping	Port size	
		P, A, B	R1, R2
EVS7-1-A02□	Side	1/4	3/8
EVS7-1-A03□	Side	3/8	
EVS7-1-B02□	Bottom	1/4	3/8
EVS7-1-B03□	Bottom	3/8	

Dimemsions with Sub-plate - Size ①

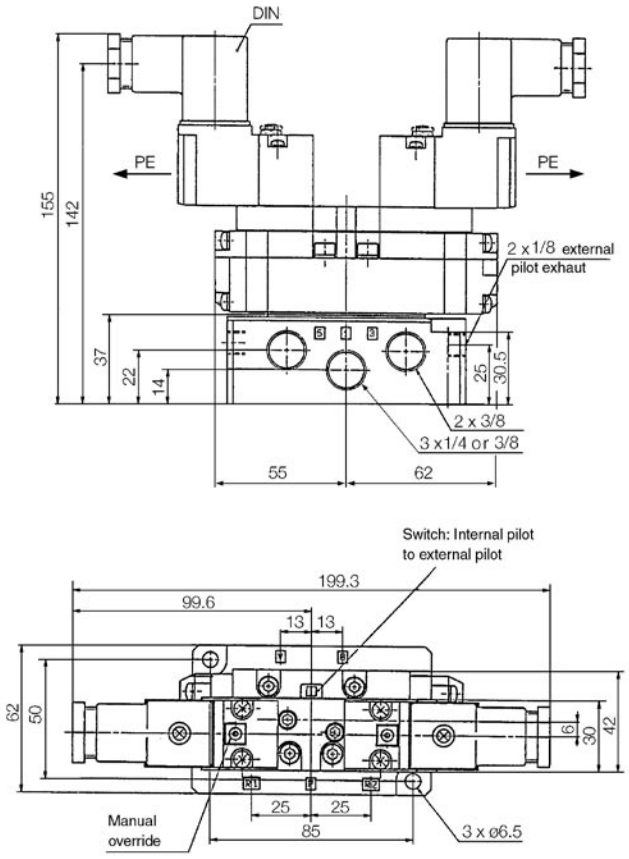
EVS7–6–FG–S–□CV–Q



EVS7–6–FG–D–□CV–Q



EVS7–6–FHG–D–□CV–Q • EVS7–6–FJG–D–□CV–Q • EVS7–6–FIG–D–□CV–Q



How to Order Sub-plate - Size ②

Applicable solenoid valve	ISO size 2
Sub-plate size	ISO size 2
Piping	Side piping: 3/8 1/2, 3/4
	Bottom piping: 3/8 1/2, 3/4
Weight	0.68 (3/8, 1/2) 1.29 (3/4)

How to Order Sub-plate

E VS7−2− A03 □

Thread

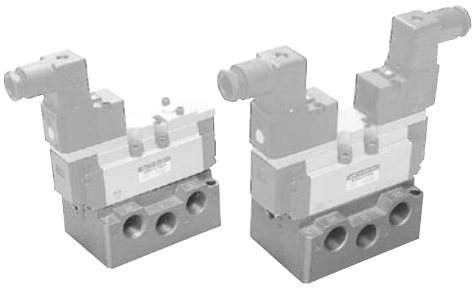
-	Rc(PT)
F	G(PF)
N	NPT
T	NPTF

Ordering source area code

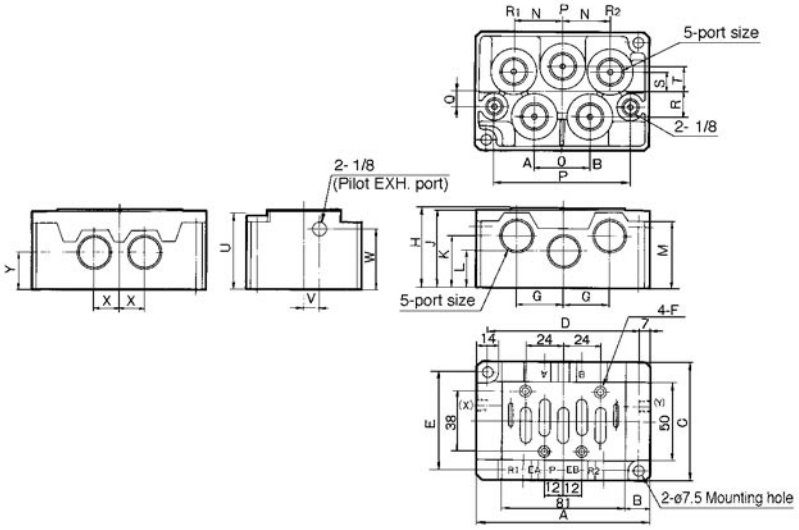
Code	areas
-	Japan, Asia Australia
E	Europe
N	North America

Piping and Port size

A03	Side 3/8
A04	Side 1/2
A06	Side 3/4
B03	Bottom 3/8
B04	Bottom 1/2
B06	Bottom 3/4



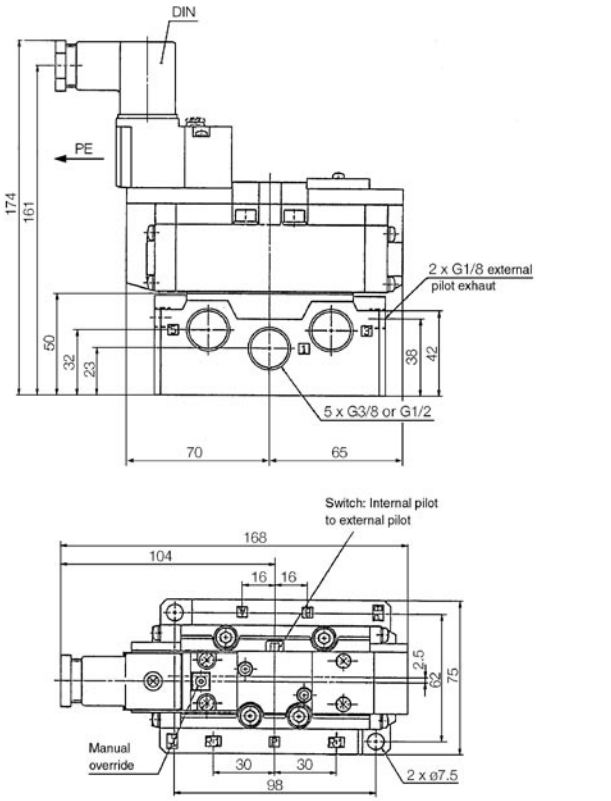
Dimensions



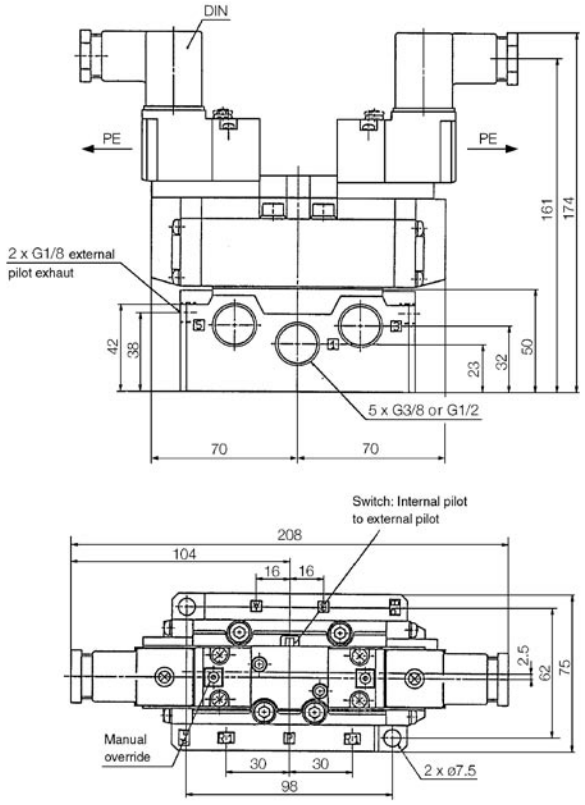
	Piping	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
EVS7-2-A03 A04□	Side	3/8, 1/2	112	15.5	75	98	62	4-M6, 12 Deep	30	50	49	32	23	42	31	36	88	10	16	12	16	47.5	10	38	16	23
EVS7-2-B03 B04□	Bottom																									
EVS7-2-A06□	Side	3/4	142	30.5	86	128	72	4-M6, 12 Deep	42	63	62	42	30	55	42	40	116	11	22	16	23	60	11	53	20	30
EVS7-2-B06□	Bottom																									

Dimemsions with Sub-plate - Size ②

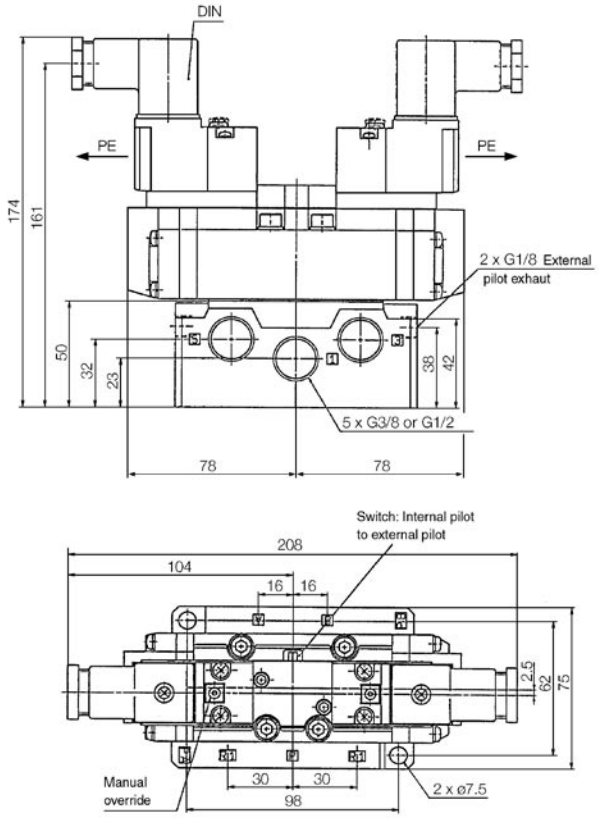
EVS7–8–FG–S–□CV–Q



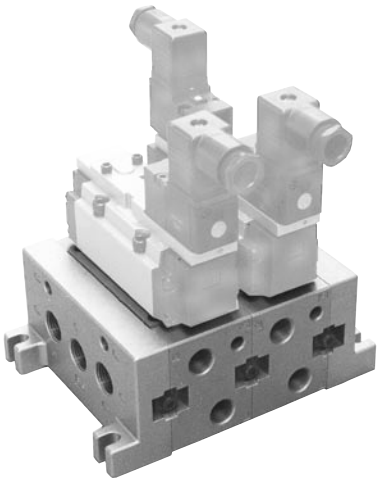
EVS7–8–FG–D–□CV–Q



EVS7–8–FHG–D–□CV–Q • EVS7–8–FJG–D–□CV–Q • EVS7–8–FIG–D–□CV–Q



How to Order Manifold



Specifications

*) These are available for ISO1 and ISO2 size manifolds and are common to those and on the VS7-6/8 and VQ7-6/8 series valves. For more details on Specificatios, options, how to order and dimensions please refer to these series.

How to Order Manifold

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Options

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Dimensions

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