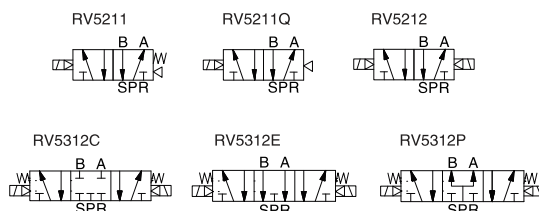


RV

Standard/ Low Power Solenoid Valve (5/2,5/3)



How to Order?

Low Power Solenoid Valve

Series No.	Valve body size	ID Code	Positions	Ways	Controls	Original Status	Port Size	Reset Form	Voltage	Connection Mode	Cover Color	Acting Type	Patchcord	Thread Type
N	1: 1Series 2: 2Series 3: 3Series 4: 4Series	R: Standard armature +Energy saving coil	2: 2 positions 3: 3 positions	5: 5 ways	1: Single control 2: Double control	C: Center close P: Center pressure E: Center exhaust (Only for 5/3 way)	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring Q: Air (Only single control)	E1: AC110V E2: AC220V E4: DC24V (1 Series only DC24V)	Blank: DIN connector type L: Plug-in Type K: Water proof connector type (only for 2,3,4 series)	Blank: Brown translucent J: Colorless and translucent B: Black (K/M connector is only available in black)	Blank: Internal pilot WB: External pilot	Blank: Patchcord length is 0.3 meter 0.6M: Patchcord length is 0.6 meter 1M: Patchcord length is 1 meter (Options for "L: Plug-in type" Only)	Blank: G P: PT T: NPT

Order Example:

RV series solenoid valve, 2 series valve body size, standard pilot+Energy saving coil, 5/2 way, single control, 1/4" port size, standard coil, DC24V, DIN connector, G thread, ERP code is: N2R251-08E4

Specifications

Model No.	N1R251-M5 N1R252-M5 N1R352-M5	N1R251-06 N1R252-06 N1R352-06	N2R251-06 N2R252-06 N2R352-06	N2R251-08 N2R252-08 N2R352-08	N3R251-08 N3R252-08 N3R352-08	N3R251-10 N3R252-10 N3R352-10	N4R251-10 N4R252-10 N4R352-10	N4R251-15 N4R252-15 N4R352-15
Port size	M5	G1/8	G1/8	G1/4(Ex.G1/8)	G1/4	G3/8(排气G1/4)	G3/8	G1/2
Sectional area(mm ²)	5/2:5.5(CV=0.31) 5/3:5.5(CV=0.28)	5/2:12(CV=0.67) 5/3:9(CV=0.50)	5/2:14(CV=0.78) 5/3:12(CV=0.67)	5/2:16(CV=0.89) 5/3:12(CV=0.67)	5/2:25(CV=1.40) 5/3:18(CV=1.00)	5/2:30(CV=1.68) 5/3:18(CV=1.00)	5/2:50(CV=2.79) 5/3:30(CV=1.67)	5/2:50(CV=2.79) 5/3:30(CV=1.67)
Working medium	Clean air(After 40 μ m filtration)							
Acting type	Internal pilot type / External pilot type							
Reset Type	Air reset					Spring reset /Air reset		
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-20~70(No freezing)							
Voltage range	-15%~10%							
Power consumption	DC24V:0.6W		DC24V:0.7W AC220V:0.9VA AC110V:1.4VA					
Insulation class	Class F							
Protective class	IP65(DIN40050)							
Max. acting frequency	5/2: 5 Cycles/s; 5/3: 3 Cycles/s							
Activate time(S)	<0.05							
Weight(g)	N1R251: 110 N1R252: 171 N1R352: 181		N2R251: 209 N2R252: 314 N2R352: 357		N3R251: 289 N3R252: 400 N3R352: 450		N4R251: 528 N4R252: 638 N4R352: 727	

RV Series Standard/ Low Power Solenoid Valve (5/2,5/3 way)



How to Order?

Standard Solenoid Valve

Series No.	Ways Positions	Valve Body Size	Controls	Original Status	Port Size	Reset Form	Voltage	Connection Mode	Cover Color	Acting Type	Patchcord	Thread Type
RV	5:5 ways 2:2 positions 3:3 positions	1: 1Series 2: 2Series 3: 3Series 4: 4Series	1: Single control 2: Double control	C: Center close P: Center pressure E: Center exhaust (Only for 5/3 way)	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring Q: Air (Only single control)	E1: AC110V E6: AC36V E2: AC220V E7: AC24V E3: AC380V E8: DC110V E4: DC24V E9: DC48V E5: DC12V E10: DC36V	Blank: DIN connector L: Plug-in Type F: Flying leads K: Waterproof DIN connector (Only 2, 3, 4 series is optional for K/M)	Blank: Brown translucent J: Colorless and translucent B: Black (K/M connector is only available in black)	Blank: Internal pilot WB: External pilot		Blank: G P: PT T: NPT

Order Example:

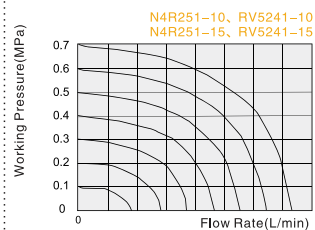
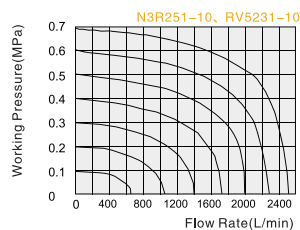
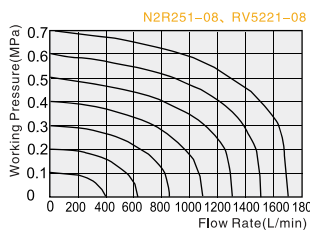
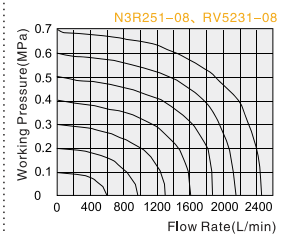
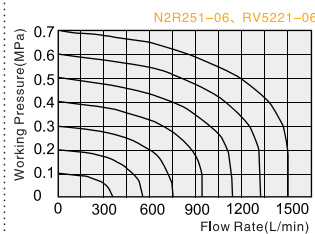
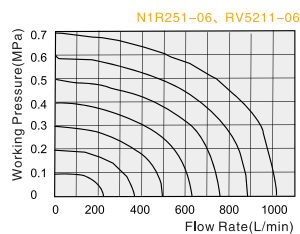
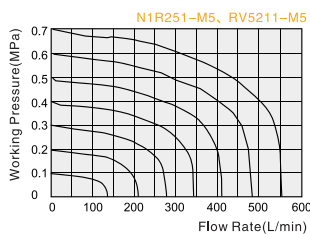
RV series solenoid valve, 2 series valve body size, 5/2 way, single control, 1/4" port size, standard coil, DC24V, DIN connector, G thread, ERP code is: RV5221-08E4

Blank: Patchcord length is 0.3 meter
0.6M: Patchcord length is 0.6 meter
1M: Patchcord length is 1 meter
(Options for "L: Plug-in type" Only)

Specifications

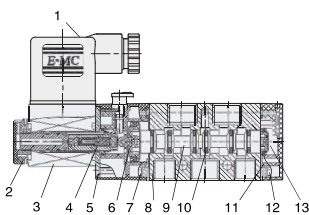
Model No.	RV5211-M5 RV5212-M5 RV5312-M5	RV5211-06 RV5212-06 RV5312-06	RV5221-06 RV5222-06 RV5322-06	RV5221-08 RV5222-08 RV5322-08	RV5231-08 RV5232-08 RV5332-08	RV5231-10 RV5232-10 RV5332-10	RV5241-10 RV5242-10 RV5342-10	RV5241-15 RV5242-15 RV5342-15
Port size	M5	G1/8	G1/8	G1/4(Ex.G1/8)	G1/4	G3/8(Ex.G1/4)	G3/8	G1/2
Sectional area(mm ²)	5/2:5.5(CV=0.31) 5/3:5.5(CV=0.28)	5/2:12(CV=0.67) 5/3:9(CV=0.50)	5/2:14(CV=0.78) 5/3:12(CV=0.67)	5/2:16(CV=0.89) 5/3:12(CV=0.67)	5/2:25(CV=1.40) 5/3:18(CV=1.00)	5/2:30(CV=1.68) 5/3:18(CV=1.00)	5/2:50(CV=2.79) 5/3:30(CV=1.67)	5/2:50(CV=2.79) 5/3:30(CV=1.67)
Working medium	Clean air(After 40 μ m filtration)							
Acting type	Internal pilot type / External pilot type							
Reset Type	Air reset						Spring reset /Air reset	
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(℃)	-20~70(No freezing)							
Voltage range	-15%~10%							
Power consumption	DC:2.8W ; AC:3.0VA		DC:3.0W ; AC:4.0VA					
Insulation class	Class F							
Protective class	IP65(DIN40050)							
Max. acting frequency	5/2: 5 Cycles/s; 5/3: 3 Cycles/s							
Activate time(S)	<0.05							
Weight(g)	RV5211: 110 RV5212: 171 RV5312: 181		RV5221: 209 RV5222: 314 RV5322: 357		RV5231: 289 RV5232: 400 RV5332: 450		RV5241: 528 RV5242: 638 RV5342: 727	

Flow Chat

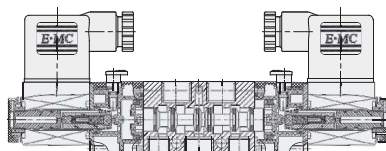


Internal Structure

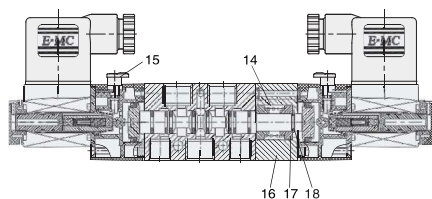
Single Solenoid Valve



Double Solenoid Valve



5/3 Solenoid Valve

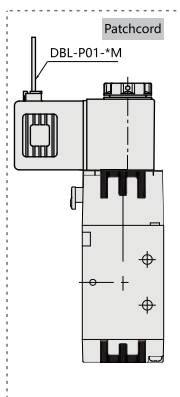
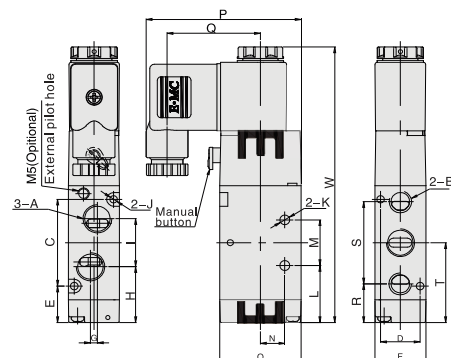


No.	Part Name	Material
1	Connector	Engineered plastics
2	Nut	POM+Carbon steel
3	Coil	Cu
4	Pilot units	Engineered plastics
5	Plate	Carbon steel
6	Piston	POM
7	Pilot seat	Engineered plastics
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	HNBR
11	Rear cover	Engineered plastics
12	Filter	Synthetic material
13	Piston	POM
14	Spring	Stainless steel
15	Manual override	Engineered plastics
16	Back seat	Aluminum alloy
17	Spring seat	Aluminum alloy
18	C-type buckle	65Mn

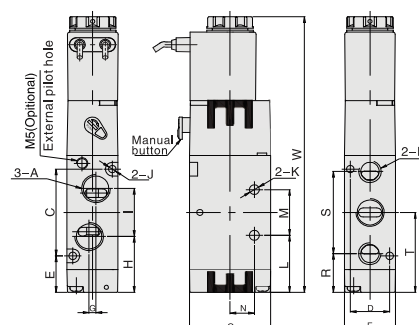
Main Dimension

Single Solenoid Valve

DIN Type



Flying Leads Type

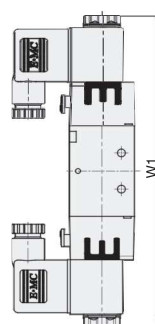


Model/Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W
RV5211-M5	M5	M5	30	13	16.5	18	0	24.5	14.1	3.3	3.3	24.5	14	9.5	27	55.2	33.9	17.9	27.2	31.5	103.1
RV5211-06	G1/8	G1/8	30	13	16.5	18	3	23.5	16	3.3	3.3	24.5	14	9.5	27	55.2	33.9	17.5	28	31.5	103.1
RV5221-06	G1/8	G1/8	38	17	16	22	0	26	18	3.3	4.3	25	20	10.5	35	66.7	40.2	17	36	35	120.7
RV5221-08	G1/4	G1/8	38	17	16	22	3	24.5	21	3.3	4.3	25	20	10.5	35	66.7	40.2	17	36	35	120.7
RV5231-08	G1/4	G1/4	50	20	19.1	27	0	33.1	22	4.3	4.3	32.1	24	13.5	40	69.2	40.2	21.6	45	44.1	139.3
RV5231-10	G3/8	G1/4	50	20	19.1	27	4	32.1	24	4.3	4.3	32.1	24	13.5	40	69.2	40.2	21.6	45	44.1	139.3
RV5241-10	G3/8	G3/8	72	27	21	34	0	39	36	4.3	5.5	43	28	17.5	50	74.2	40.2	25.5	63	57	168.7
RV5241-15	G1/2	G1/2	72	27	21	34	4	39	36	4.3	5.5	43	28	17.5	50	74.2	40.2	25.5	63	57	168.7

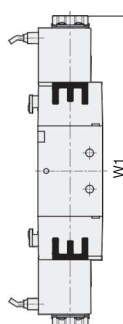
Note: The dimensions of NR series and RV series are same.

Double Solenoid Valve

DIN Type

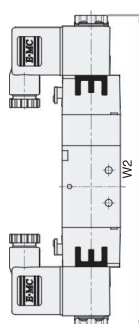


Flying Leads Type

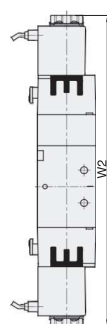


5/3 Solenoid Valve

DIN Type



Flying Leads Type



Model/Sign	W1
RV5212-M5	143.2
RV5212-06	143.2
RV5222-06	171.4
RV5222-08	171.4
RV5232-08	190.4
RV5232-10	190.4
RV5242-10	223.4
RV5242-15	223.4
Model/Sign	W2
RV5312-M5	158.2
RV5312-06	158.2
RV5322-06	190.4
RV5322-08	190.4
RV5332-08	209.4
RV5332-10	209.4
RV5342-10	244.4
RV5342-15	244.4

Note: The dimensions of NR series and RV series are same.

RV Series Standard/ Low Power Solenoid Valve (3/2 way)

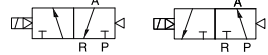


RV

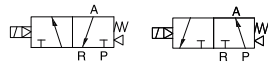
Standard/ Low Power Solenoid Valve (3/2)



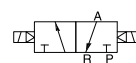
(Only 1,2,3 series single control)



(Only 4 series single control)



(Double control)



How to Order?

Low Power Solenoid Valve

Series	Valve body size	ID code	Positions	Ways	Controls	Original Status	Port Size	Reset Type	Voltage	Connection Mode	Cover Color	Acting Type	Patchcord	Thread Type
N	1: 1Series 2: 2Series 3: 3Series 4: 4Series		2: positions 3: 3 ways		1: Single control 2: Double control Blank: Normal close H: Normal open		M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring (4 series single control only) Q: Air (1,2,3 series single control)	E1: AC110V E2: AC220V E4: DC24V (for 1series, only DC24V available)	Blank: DIN connector type L: Plug-in Type K: Water proof connector type (only for 2,3,4 series)	Blank: Brown translucent J: Colorless and translucent B: Black (Only black color available for water proof connector) Blank: Internal pilot WB: External pilot		Blank: Patchcord length is 0.3 meter 0.6M: Patchcord length is 0.6 meter 1M: Patchcord length is 1 meter (Options for "L: Plug-in type" Only)	Blank: G P: PT T: NPT

Order Example:

RV series energy saving solenoid valve, 2 series valve body size, 3/2 ways, double control, 1/8" port size, AC220V, DIN connector, G thread, ERP code is :N2R232-06E2

Specifications

Model No.	N1R231-M5 N1R232-M5	N1R231-06 N1R232-06	N2R231-06 N2R232-06	N2R231-08 N2R232-08	N3R231-08 N3R232-08	N3R231-10 N3R232-10	N4R231-10 N4R232-10	N4R231-15 N4R232-15
Port size	M5	G1/8	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2
Sectional area(mm)	5.5(CV=0.31)	12(CV=0.67)	14(CV=0.78)	16(CV=0.89)	25(CV=1.40)	30(CV=1.68)	50(CV=2.79)	50(CV=2.79)
Working medium	Clean air(After 40 μm filtration)							
Acting type	Internal pilot type/External pilot type							
Reset type	Air reset						Spring reset /Air reset	
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressur(MPa)	1.2							
Working temperature(°C)	-5~60(No freezing)							
Voltage range	-15%~10%							
Power consumption	DC24V:0.6W		DC24V:0.7W AC220V:0.9VA AC110V:1.4VA					
Insulation class	Class F							
Protective class	IP65(DIN40050)							
Max. acting frequency	5 Cycles/s							
Activate time(S)	<0.05							
Weight(g)	N1R231: 102 N1R232: 169		N2R231: 107 N2R232: 303		N3R231: 260 N3R232: 370		N4R231: 443 N4R232: 569	

Note: Normal open is same as normal close.

How to Order?

Standard Solenoid Valve

Series No.	Ways	Positions	Valve Body ID Code	Controls	Original Status	Port Size	Reset Type	Voltage	Connection Mode	Cover Color	Valve Color	Patchcord	Thread Type
RV	3: 3 ways	2: 2 positions	1: 1Series 2: 2Series 3: 3Series 4: 4Series	1: Single control 2: Double control	Blank: Normal close H: Normal open	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring (Only 4 series single control) Q: Air (1,2,3 series single control)	E1: AC110V E6: AC36V E2: AC220V E7: AC24V E3: AC380V E8: DC110V E4: DC24V E9: DC48V E5: DC12V E10: DC36V	Blank: DIN connector L: Plug-in Type F: Flying leads K: Waterproof DIN connector (Only 2, 3, 4 series is optional for K/M)	Blank: Brown translucent J: Colorless and translucent B: Black (Only Waterproof DIN connector)	Blank: Internal pilot WB: External pilot	Blank: Patchcord length is 0.3 meter 0.6M: Patchcord length is 0.6 meter 1M: Patchcord length is 1 meter (Options for "L: Plug-in type" Only)	Blank: G P: PT T: NPT

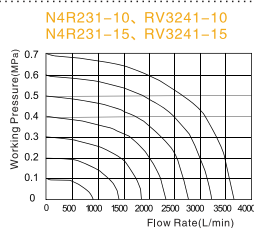
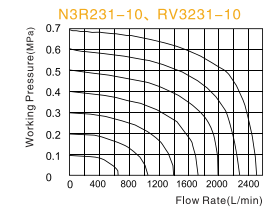
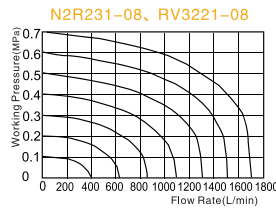
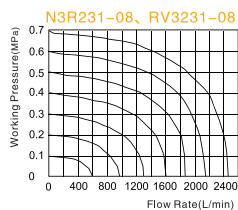
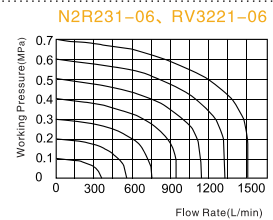
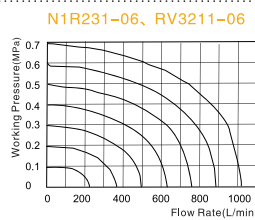
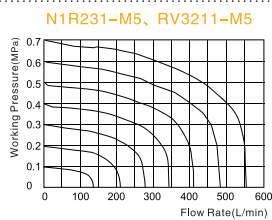
Order Example:

RV series solenoid valve, 2 series valve body size, 3/2 ways, single control, 1/8" port size, air return, standard coil, AC220V, DIN connector, G thread, ERP code is :RV3221-06QE2

Specifications

Model No.	RV3211-M5 RV3212-M5	RV3211-06 RV3212-06	RV3221-06 RV3222-06	RV3221-08 RV3222-08	RV3231-08 RV3232-08	RV3231-10 RV3232-10	RV3241-10 RV3242-10	RV3241-15 RV3242-15
Port size	M5	G1/8	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2
Sectional area(mm)	2 way:5.5(CV=0.31)	2 way:12(CV=0.67)	2 way:14(CV=0.78)	2 way:16(CV=0.89)	2 way:25(CV=1.40)	2 way:30(CV=1.68)	2 way:50(CV=2.79)	2 way:50(CV=2.79)
Working medium	Clean air(After 40 μ m filtration)							
Acting type	Internal pilot type/External pilot type							
Reset type	Air reset						Spring reset /Air reset	
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressur(MPa)	1.2							
Working temperature(℃)	-5~70(No freezing)							
Voltage range	-15%~10%							
Power consumption	DC:2.8W ; AC:3.0VA		DC:3.0W ; AC:4.0VA					
Insulation class	Class F							
Protective class	IP65(DIN40050)							
Max. acting frequency	5 Cycles/s							
Activate time(S)	<0.05							
Weight(g)	RV3211: 102 RV3212: 169		RV3221: 107 RV3222: 303		RV3231: 260 RV3232: 370		RV3241: 443 RV3242: 569	

Flow Chat



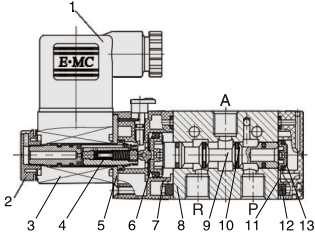
RV Series Standard/ Low Power Solenoid Valve (3/2 way)



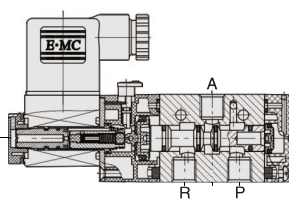
1
NRV/RV

Internal Structure

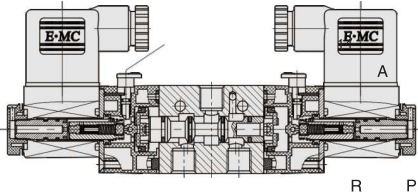
Single Solenoid Valve(Normal close)



Single Solenoid Valve(Normal open)



Double solenoid valve(Normal close)



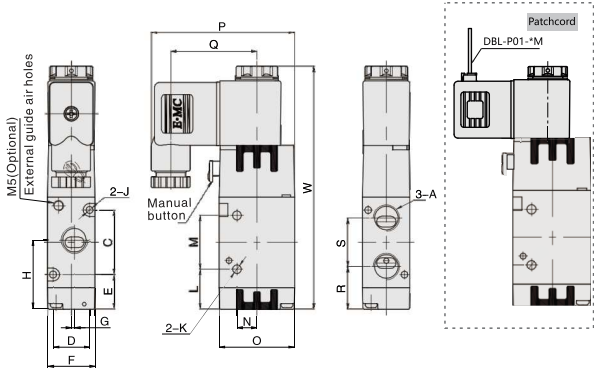
No.	Part Name	Material
1	Connector	Engineered plastics
2	Nut	POM
3	Coil	Cu+ Thermosetting resin
4	Pilot units	Pure iron + copper + stainless steel
5	Plate	Carbon steel
6	Piston	POM
7	Pilot seat	Engineered plastics
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	NBR
11	Rear cover	Engineered plastics
12	Filter	Synthetic material
13	Piston	Engineered plastics
14	Manual button	Engineered plastics

Main Dimension

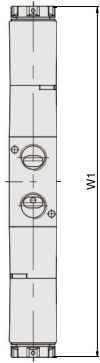
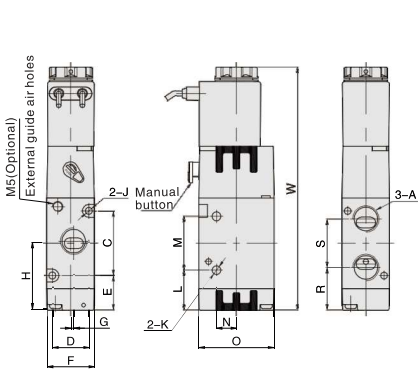
Single Solenoid Valve

Double Solenoid Valve

DIN Type



Flying Leads Type



Model/Sign	A	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	W	W1*
RV3211-M5	M5	19	13	16.5	18	0	26	3.3	3.1	15.5	21	6	27	55.2	33.9	18.9	14.2	92.1	132.2
RV3211-06	G1/8	19	13	16.5	18	1.5	27	3.3	3.1	15.5	21	6	27	55.2	33.9	18	16	92.1	132.2
RV3221-06	G1/8	30	17	16	22	0	31	3.3	4.2	18.5	25	9.3	35	66.7	40.2	20	22	112.7	163.4
RV3221-08	G1/4	30	17	16	22	1.5	32	3.3	4.2	18.5	25	9.3	35	66.7	40.2	19.8	22.5	112.7	163.4
RV3231-08	G1/4	35	20	19.1	27	0	36.6	4.3	4.3	21.6	30	9.5	40	69.2	40.2	24.6	24	124.3	175.4
RV3231-10	G3/8	35	20	19.1	27	2	36.6	4.3	4.3	21.6	30	9.5	40	69.2	40.2	24.6	24	124.3	175.4
RV3241-10	G3/8	40.5	27	24.8	34	0	45	4.3	5.2	21	48	11.5	50	74.2	40.2	29.3	31.5	144.7	199.4
RV3241-15	G1/2	40.5	27	24.8	34	2	45	4.3	5.2	21	48	11.5	50	74.2	40.2	29.3	31.5	144.7	199.4

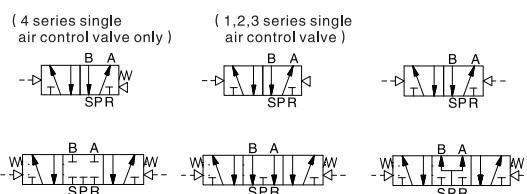
Note: The dimension of NR series and RV series are same. The dimension of normal open type and normal close type are same, W1* is the dimension of double control solenoid valve.

RV Series Air Control Valve (5/2,5/3way)



RV

Air Control Valve (5/2,5/3)



How to Order?

Series No	Ways	Positions	Valve Body ID Code	Controls	Initial Status	Port Size	Reset Type	Thread Type
RVA	5: 5 ways	2:2 positions 3:3 positions	1: 1Series 2: 2Series 3: 3Series 4: 4Series	1: Single control 2: Double control	C: Center close P: Center pressure E: Center exhaust (only for 5/3 ways)	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring return (Apply to 4 series single control valve) Q: Air return (Apply to 1,2,3 series single control valve)	Bland: G P: PT T: NPT

Order Example:

RV series air control valve, 5/2 way, 2 series valve body size, single control, 1/8" port size, air return, G thread,

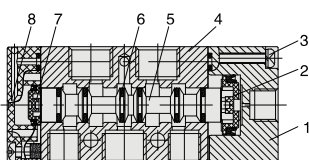
ERP code is: RVA5221-06Q

Specifications

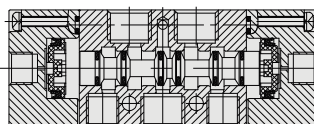
Model No.	RVA5211-M5 RVA5212-M5 RVA5312-M5	RVA5211-06 RVA5212-06 RVA5312-06	RVA5221-06 RVA5222-06 RVA5322-06	RVA5221-08 RVA5222-08 RVA5322-08	RVA5231-08 RVA5232-08 RVA5332-08	RVA5231-10 RVA5232-10 RVA5332-10	RVA5241-10 RVA5242-10 RVA5342-10	RVA5241-15 RVA5242-15 RVA5342-15
Port size	M5	G1/8	G1/8	G1/4(Ex.G1/8)	G1/4	G3/8(Ex.G1/4)	G3/8	G1/2
Sectional area(mm)	5/2: 5.5(CV=0.31) 5/3: 5.5(CV=0.28)	5/2: 12(CV=0.67) 5/3: 9(CV=0.50)	5/2: 14(CV=0.78) 5/3: 12(CV=0.67)	5/2: 16(CV=0.89) 5/3: 12(CV=0.67)	5/2: 25(CV=1.40) 5/3: 18(CV=1.00)	5/2: 30(CV=1.68) 5/3: 18(CV=1.00)	5/2: 50(CV=2.79) 5/3: 30(CV=1.67)	5/2: 50(CV=2.79) 5/3: 30(CV=1.67)
Working medium	Clean air(After 40 μm filtration)							
Acting type	External type							
Reset type	Air reset						Spring reset / Air reset	
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(℃)	-20~70 (No freezing)							
Max. acting frequency	5/2: 5 Cycles/s; 5/3: 3 Cycles/s							
Weight(g)	RVA5211:72 RVA5212:87 RVA5312:181		RVA5221:128 RVA5222:153 RVA5322:219		RVA5231:218 RVA5232:260 RVA5332:358		RVA5241:437 RVA5242:490 RVA5342:598	

Internal Structure

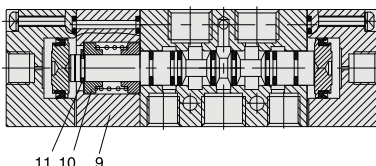
Single Air Control



Double Air Control



5/3 Ways Solenoid Valve

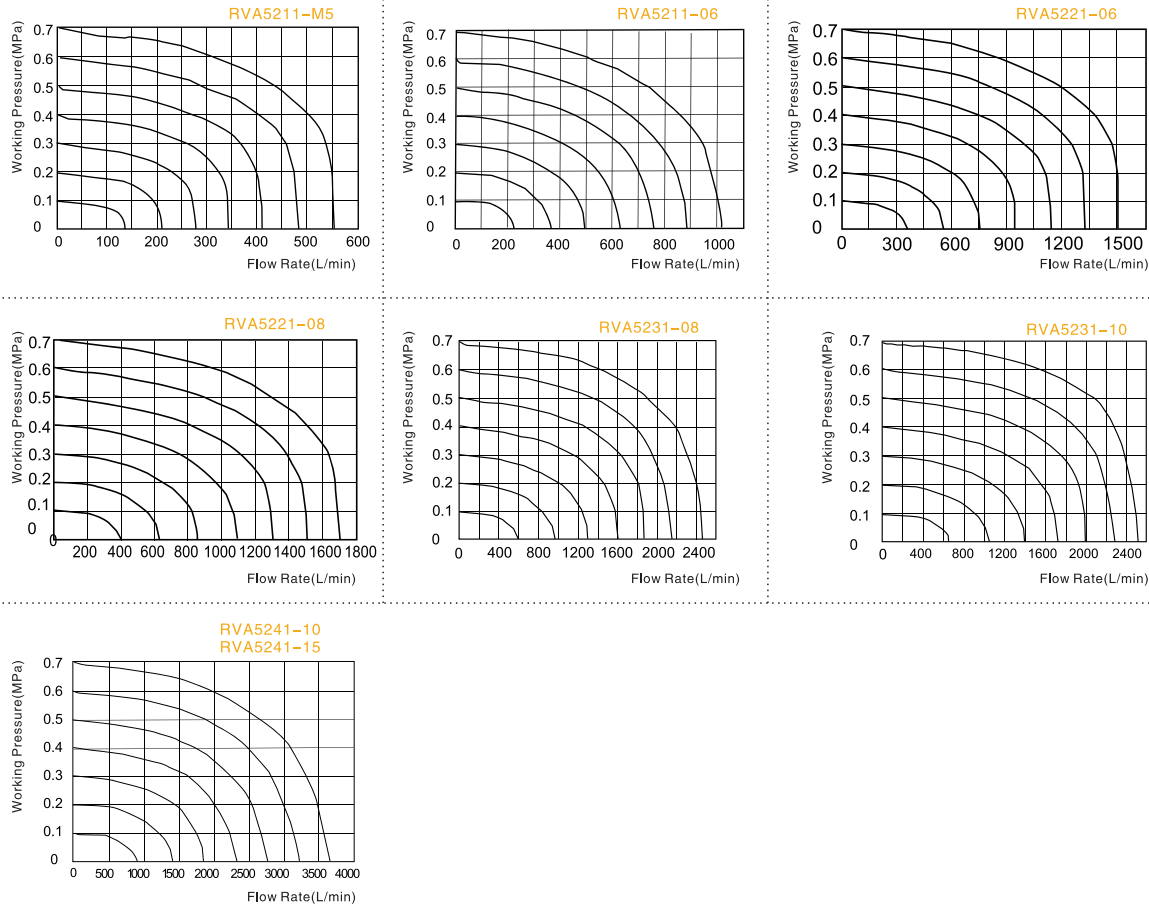


No.	Part Name	Material
1	Air Control Cover	Aluminum Alloy
2	Piston	POM
3	Screw	Carbon Steel
4	Valve Body	Aluminum Alloy
5	Spool	Aluminum Alloy
6	O-ring	NBR
7	Piston	POM
8	Rear Cover	Zinc Alloy
9	Back Seat	Aluminum Alloy
10	Spring Seat	Aluminum Alloy
11	C-type Buckle	65Mn

RV Series Air Control Valve (5/2,5/3way)



Flow Chart

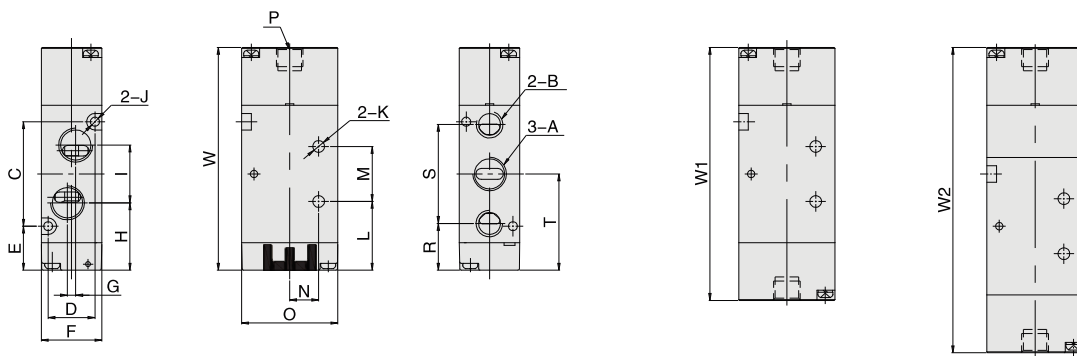


Main Dimension

Single Air Control

Double Air Control

5/3 Ways Solenoid Valve

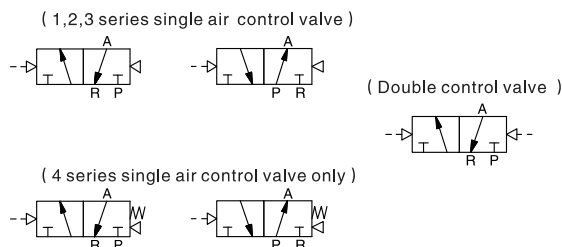


Model\Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	W	W1	W2
RVA5211-M5	M5	M5	30	13	16.5	18	0	24.5	14.1	3.3	3.3	24.5	14	9.5	27	G1/8	17.9	27.2	31.5	72	81	96
RVA5211-06	G1/8	G1/8	30	13	16.5	18	3	23.5	16	3.3	3.3	24.5	14	9.5	27	G1/8	17.5	28	31.5	72	81	96
RVA5221-06	G1/8	G1/8	38	17	16	22	0	26	18	3.3	4.3	25	20	10.5	35	G1/8	17	36	35	81	92	111
RVA5221-08	G1/4	G1/8	38	17	16	22	3	24.5	21	3.3	4.3	25	20	10.5	35	G1/8	17	36	35	81	92	111
RVA5231-08	G1/4	G1/4	50	20	19.1	27	0	33.1	22	4.3	4.3	32.1	24	13.5	40	G1/8	21.6	45	44.1	99.6	111	130
RVA5231-10	G3/8	G1/4	50	20	19.1	27	4	32.1	24	4.3	4.3	32.1	24	13.5	40	G1/8	21.6	45	44.1	99.6	111	130
RVA5241-10	G3/8	G3/8	72	27	21	34	0	39	36	4.3	5.2	43	28	17.5	50	G1/8	25.5	63	57	127	140	161
RVA5241-15	G1/2	G1/2	72	27	21	34	4	39	36	4.3	5.5	43	28	17.5	50	G1/8	25.5	63	57	127	140	161

RV Series Air Control Valve (3/2 way)

RV

Air Control Valve (3/2)



How to Order?

Series	Way	Positions	Valve Body ID Code	Controls	Initial Status	Port Size	Reset Type	Thread Type
RVA	3: 3 ways	2:2 positions	1: 1Series 2: 2Series 3: 3Series 4: 4Series	1: Single control 2: Double control	Blank: Normal close(N.C) H: Normal open(N.O)	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	Blank: Spring return (Apply to 4 series single control valve) Q: Air return (Apply to 1,2,3 series single control valve)	Blank: G P: PT T: NPT

Order Example:

RVA series air control valve, 3/2 way, 2 series valve body size, single control, NC type, 1/4" port size, air return, PT thread
ERP code is: RVA3221-08Q-P

Specifications

Model No.	RVA3211-M5 RVA3212-M5	RVA3211-06 RVA3212-06	RVA3221-06 RVA3222-06	RVA3221-08 RVA3222-08	RVA3231-08 RVA3232-08	RVA3231-10 RVA3232-10	RVA3241-10 RVA3242-10	RVA3241-15 RVA3242-15
Port size	M5	G1/8	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2
Sectional area(mm)	5.5(CV=0.31)	12(CV=0.67)	14(CV=0.78)	16(CV=0.89)	25(CV=1.40)	30(CV=1.68)	50(CV=2.79)	50(CV=2.79)
Working medium	Clean air(After 40 μ m filtration)							
Acting type	External type							
Reset type	Air reset						Spring reset /Air reset	
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed Pressure(MPa)	1.2							
Working temperature(℃)	-20~70(No freezing)							
Max. acting frequency	5 Cycles/s							
Weight(g)	RVA3211:60 RVA3212:75		RVA3221:116 RVA3222:143		RVA3231:187 RVA3232:220		RVA3241:378 RVA3242:430	

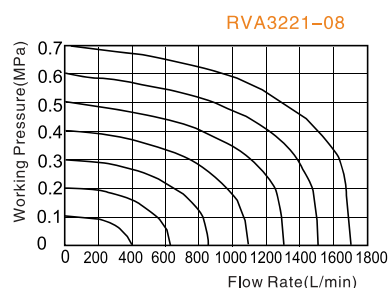
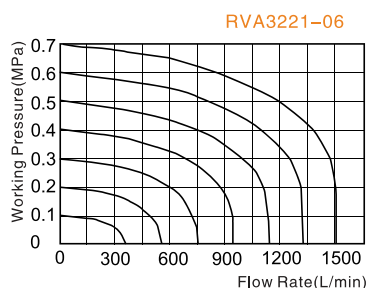
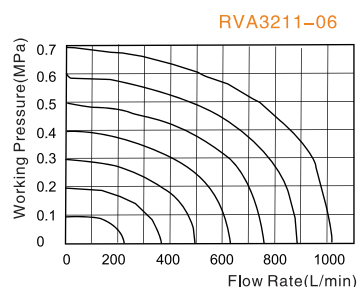
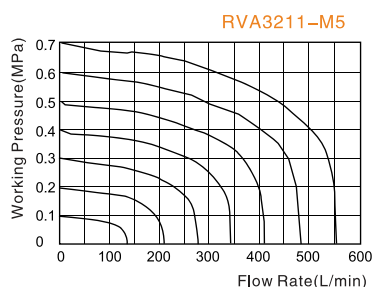
Internal Structure

Single Air Control(N.C)			Double Air Control(N.O)			5/3 Ways Solenoid Valve		
No.	Part Name	Material	No.	Part Name	Material	No.	Part Name	Material
1	Air Control Cover	Aluminum Alloy	1	Air Control Cover	Aluminum Alloy	1	Air Control Cover	Aluminum Alloy
2	Piston	POM	2	Piston	POM	2	Piston	POM
3	Screw	Carbon Steel	3	Screw	Carbon Steel	3	Screw	Carbon Steel
4	Valve Body	Aluminum Alloy	4	Valve Body	Aluminum Alloy	4	Valve Body	Aluminum Alloy
5	Spool	Aluminum Alloy	5	Spool	Aluminum Alloy	5	Spool	Aluminum Alloy
6	O-ring	NBR	6	O-ring	NBR	6	O-ring	NBR
7	Piston	POM	7	Piston	POM	7	Piston	POM
8	Rear Cover	Zinc Alloy	8	Rear Cover	Zinc Alloy	8	Rear Cover	Zinc Alloy

RV Series Air Control Valve (3/2 way)

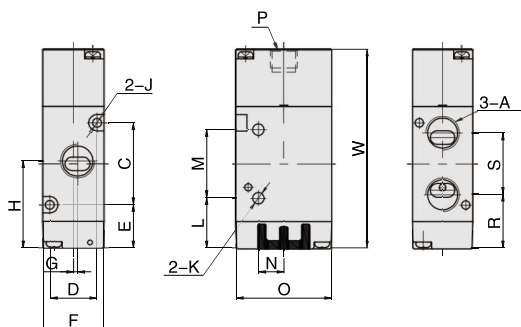


Flow Chart

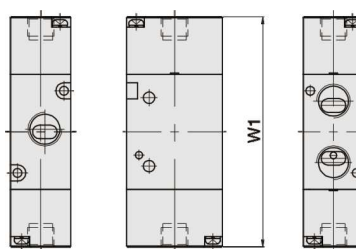


Main Dimension

Single Air Control



Double Air Control



Model/Sign	A	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	W	W1*
RVA3211-M5	M5	19	13	16.5	18	0	26	3.3	3.1	15.5	21	6	27	G1/8	18.9	14.2	61	70
RVA3211-06	G1/8	19	13	16.5	18	1.5	27	3.3	3.1	15.5	21	6	27	G1/8	18	16	61	70
RVA3221-06	G1/8	30	17	16	22	0	31	3.3	4.2	18.5	25	9.3	35	G1/8	20	22	73	84
RVA3221-08	G1/4	30	17	16	22	1.5	32	3.3	4.2	18.5	25	9.3	35	G1/8	19.8	22.5	73	84
RVA3231-08	G1/4	35	20	19.1	27	0	36.6	4.3	4.3	21.6	30	9.5	40	G1/8	24.6	24	84.6	96
RVA3231-10	G3/8	35	20	19.1	27	2	36.6	4.3	4.3	21.6	30	9.5	40	G1/8	24.6	24	84.6	96
RVA3241-10	G3/8	40.5	27	24.8	34	0	45	4.3	5.2	21	48	11.5	50	G1/8	29.3	31.5	103	116
RVA3241-15	G1/2	40.5	27	24.8	34	2	45	4.3	5.2	21	48	11.5	50	G1/8	29.3	31.5	103	116

Note: The dimension of N.O type and N.C type are same, W1* is the dimension of double control type.

V/RV

Manifold (5/2,5/3)



How to Order?

V	52	1	—	N	F
V Series	5 port, 2 position	1:1 series valve body 2:2 series valve body 3:3 series valve body 4:4 series valve body		1: 1 station 2: 2 stations 3: 3 stations 16: 16 stations	Manifold

Order Example:

* V series manifold for 5/2, 2 series valve body, 5 stations, Model: V522-5F

VBP	52	2
V series blind plate (for V series manifold)	5:5 port, 2 position	1:1 series valve body 2:2 series valve body 3:3 series valve body 4:4 series valve body

Order Example:

* Blind plate for 5/2 valve, 2 series valve body, Model: VBP-522

Note: 1.The dimensions of 5/3 way is same as 5/2 way series.
2.Blind plate assembly include: plate, gasket and screws.

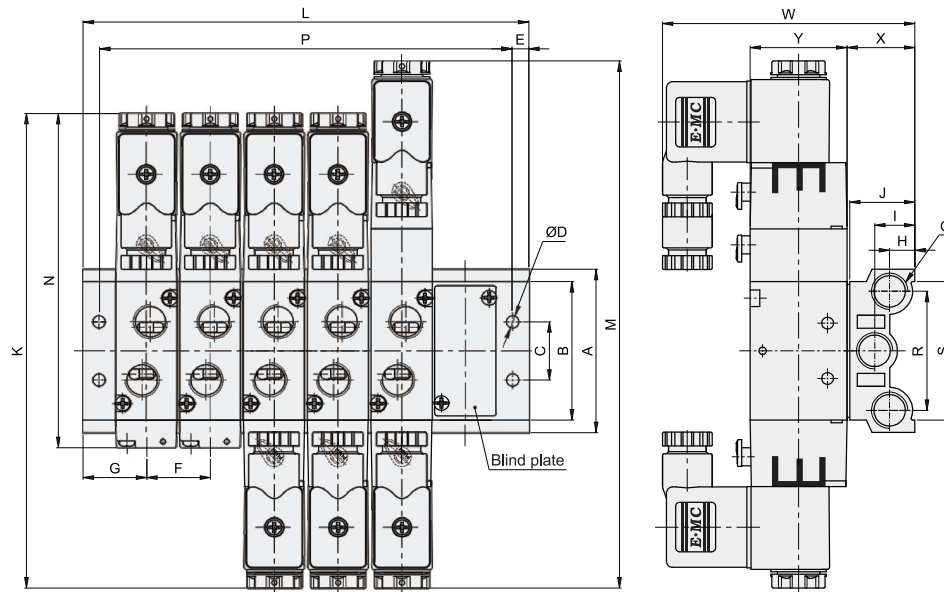
Corresponding Application

Valve Model	RV5211/RV5212/RV5312	RV5221/RV5222/RV5322	RV5231/RV5232/RV5332	RV5241/RV5242/RV5342
Manifold Model	V521-NF(N≤16)	V522-NF(N≤16)	V523-NF(N≤12)	V524-NF(N≤7)

V/RV Series Manifold (5/2 way)



○ Main Dimension



Model/Sign	L															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
V521-□F	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
V522-□F	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
V523-□F	54	82	110	138	166	194	222	250	278	306	334	362	-	-	-	-
V524-□F	63	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-

Model/Sign	A	B	C	D	E	F	G	H	I	J
V521-□F	58	43	20	4.5	5	19	19	9.5	14	23
V522-□F	59	50	21	4.5	6	23	23	9.5	15	23.5
V523-□F	75	64	26	4.5	6	28	27	12	17.5	28
V524-□F	98	94	32	5.5	7	35	31.5	16	21.5	35

Model/Sign	P															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
V521-□F	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313
V522-□F	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379
V523-□F	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-
V524-□F	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-

Model/Sign	K	M	N	Q	R	S	W	X	Y
V521-□F	143.2	158.2	103.1	G1/4	40	49	79.2	24	27
V522-□F	171.4	190.4	120.7	G1/4	43	50	91.2	24.5	35
V523-□F	190.4	209.4	139.3	G3/8	53	67	98.2	29	40
V524-□F	223.4	244.4	168.7	G1/2	70.5	86.8	110.2	36	50

V/RV Series Manifold (3/2 way)



V/RV

Manifold (3/2)



Manifold Model

No.	Manifold Model	Valve Model
1	V321-NF (N≤16)	RV3211 (H) /RV3212
2	V322-NF (N≤16)	RV3221 (H) /RV3222
3	V323-NF (N≤12)	RV3231 (H) /RV3232
4	V324-NF (N≤7)	RV3241 (H) /RV3242

How to Order?

V	32	1	—	N	F	—	Thread Type
V series	3/2 way	1:1 series valve body 2:2 series valve body 3:3 series valve body 4:4 series valve body		1:1 station 2:2 stations 3:3 stations 16:16 stations	Manifold	Blank: G P: PT T: NPT	

Order Example:

* V series manifold for 3/2, 2 series valve body, 5 stations, Model: V322-5F

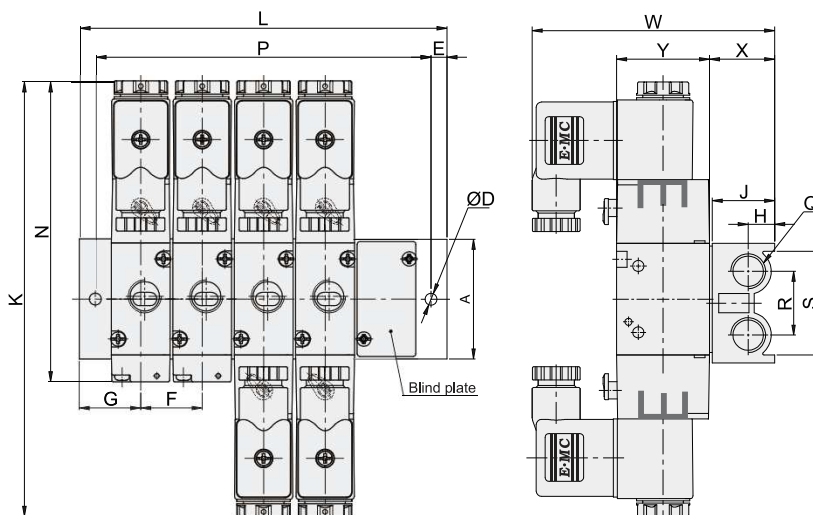
VBP	—	32	2
V series blind plate (for V series manifold)		3/2 way	1:1 series valve body 2:2 series valve body 3:3 series valve body 4:4 series valve body

Order Example:

* Blind plate for 3/2 valve, 2 series valve body, Model: VBP-322

Note: Blind plate assembly includes: Blinds, gaskets and mounting screws

Main Dimension



Model\Sign	L										(mm)							
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	A	D	E	F	G	H	J	K
V321-□F	38	57	76	95	114	133	152	171	190	209	31	4.5	5.25	19	18	7.75	19	132.2
V322-□F	46	69	92	115	138	161	184	207	230	253	45	4.5	6	23	23	10	23.5	163.4
V323-□F	54	82	110	138	166	194	222	250	278	306	50	4.5	6	28	26	12	28	175.4
V324-□F	63	98	133	168	203	238	273	308	343	378	62.5	5.5	7	35	31.5	16	35	199.4

Model\Sign	P																
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	N	Q	R	S	W	X	Y
V321-□F	28	47	66	85	104	123	142	161	180	199	92.1	G1/8	17.5	25	75.2	20	27
V322-□F	34	57	80	103	126	149	172	195	218	241	112.7	G1/4	24	39	91.2	24.5	35
V323-□F	42	70	98	126	154	182	210	238	266	294	124.3	G3/8	29	42	98.2	29	40
V324-□F	49	84	119	154	189	224	259	294	329	364	144.7	G1/2	35.5	51.5	110.2	36	50