

### 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	Thread type
N	1: 1Series 2: 2Series 3: 3Series 4: 4Series		2: positions	1: Single control 2: Double control 3: 3 ways	Blank: Normal close H: Normal open	M5: M5 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	E1: AC110V E2: AC220V E4: DC24V (for 1 series, only DC24V available)	Blank: Spring (4 series single control only) Q: Air (1,2,3 series single control)	E1: AC110V E2: AC220V E4: DC24V (for 1 series, only DC24V available)	Blank: DIN connector K: Waterproof DIN connector (Only 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: G P: PT T: NPT

Model No.	N1R231-M5 N1R232-M5	N1R231-06 N1R232-06	N2R251-06 N2R252-06	N2R251-08 N2R252-08	N3R251-08 N3R252-08	N3R251-10 N3R252-10	N4R251-10 N4R252-10	N4R251-15 N4R252-15
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	Spring reset/Gas reset							
Lubrication	Not required							
Working pressure(MPa)	0.15-0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-5-60							
Voltage range	-15%~10%							
Power consumption	DC24V:0.6W		DC24V:0.7W AC220V:0.9VA AC110V:1.4VA					
Insulation class	F级							
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	ID Code	Voltage	Connection mode	Cover color	Valve color	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)	Blank: standard type A: Amisco coil	E1: AC110V E6: AC36V E2: AC220V E7: AC24V E3: AC380V E8: DC110V E4: DC24V E9: DC48V E5: DC12V E10: DC36V	Blank: DIN connector F: Flying leads K: Waterproof DIN connector (Only for 2,3,4 series)	Blank: Brown translucent J: Colorless and translucent B: Black (Only Waterproof DIN connector)	Blank: Internal pilot WB: External pilot Blank: G P: PT T: NPT	

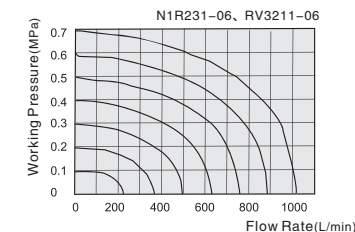
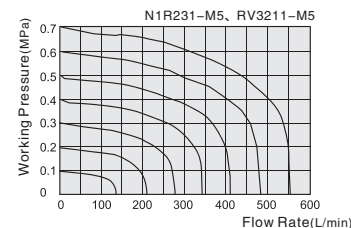
#### Order Example:

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

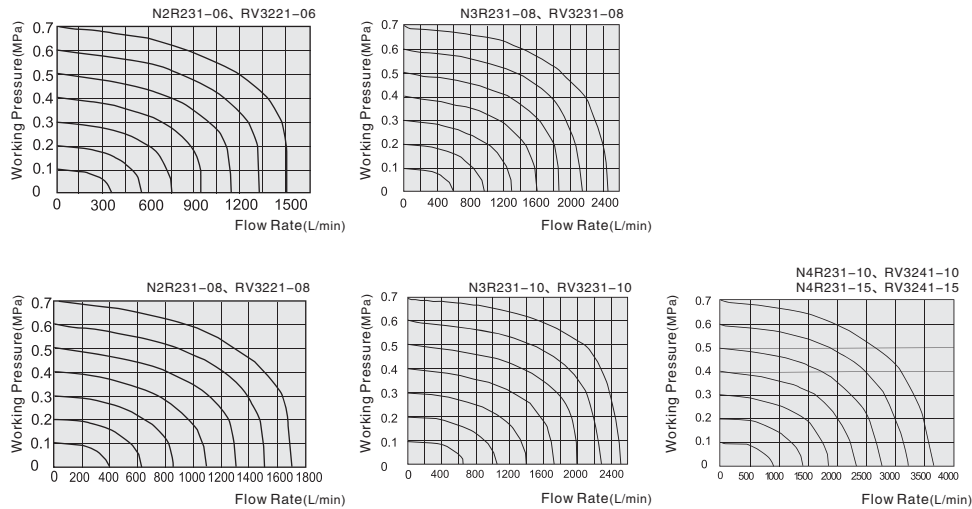
### Specifications

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)	两位:5.5(CV=0.31)	两位:12(CV=0.67)	两位:14(CV=0.78)	两位:16(CV=0.89)	两位:25(CV=1.40)	两位:30(CV=1.68)	两位:50(CV=2.79)	两位:50(CV=2.79)
Working medium	Clean air(After 40 μm filtration)							
Acting type	Internal pilot type/External pilot type							
Reset type	Spring reset/Gas reset							
Lubrication	Not required							
Working pressure(MPa)	0.15-0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-20-70(No ice)							
Voltage range	-15%~10%							
Power consumption	DC:2.8W ; AC:3.0VA		DC:3.0W ; AC:4.0VA					
Insulation class	F级							
Protective class	IP65(DIN40050)							
Max. acting frequency	5次/秒							
Activate time(S)	<0.05							
Weight(g)	RV3211: 102 RV3212: 169		RV3221: 107 RV3222: 303		RV3231: 260 RV3232: 270		RV3241: 528 RV3242: 638	

### Flow Chart



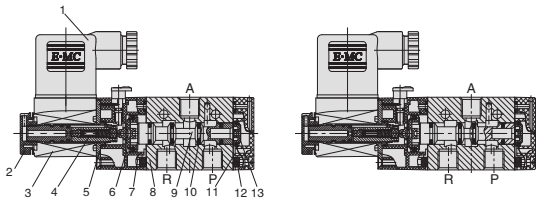
## Flow Chart



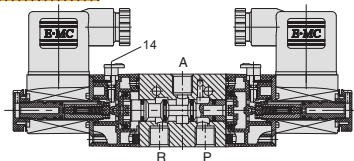
## Internal structure

Single solenoid valve(normal close)

Single solenoid valve(normal open)



Double solenoid valve(normal close)

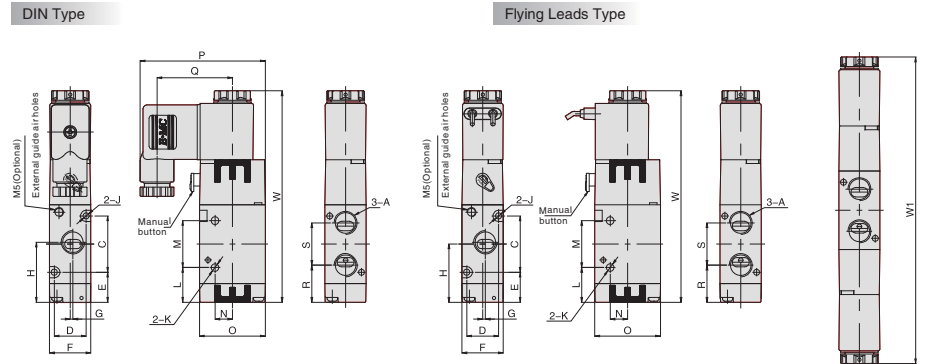


No.	Part name	Material
1	Connector	Engineering plastic
2	Nut	POM
3	Coil	Cu+ Thermosetting resin
4	Pilot units	Pure iron + copper + stainless steel
5	Plate	Carbon steel
6	Piston	POM
7	Pilot seat	Engineering plastic
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	NBR
11	Rear cover	Engineering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

## Main Dimension

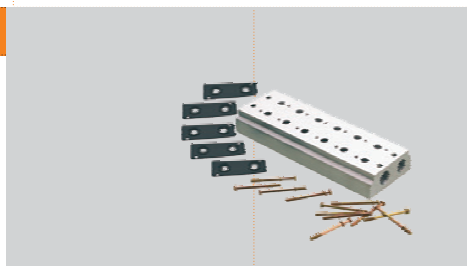
Single solenoid valve

Double solenoid valve



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	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	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	4.3	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	4.3	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	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	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.



How to Order?

V -- 32 -- 1 -- N -- F

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 linker  
2:2 linker  
3:3 linker  
.....  
16:16 linker

N Confluence Plate

VBP -- 32 -- 2

V series blind plate (for V series manifold) 3: 3 Port,2 Position valve

1:1 series valve body  
2:2 series valve body  
3:3 series valve body  
4:4 series valve body

Corresponding Application

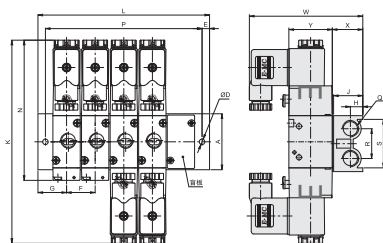
NO.	Confluence Plate Model	Valve Model
1	V321-NF (N≤16)	V3211 (H) /V3212
2	V322-NF (N≤16)	V3221 (H) /V3222
3	V323-NF (N≤12)	V3231 (H) /V3232
4	V324-NF (N≤7)	V3241 (H) /V3242

\* V series manifold for 3/2,2 series valve body, 5 linkers, model: V322-5F

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

Note: Blind plate assembly comprising: Blind, gaskets and mounting screws

Main Dimension

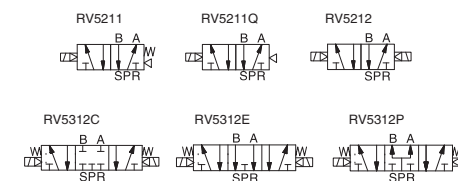
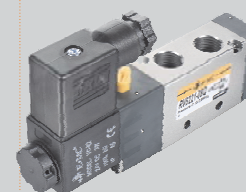


单位(mm)

Model/Sign	L										A	D	E	F	G	H	J	K
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F								
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	G										N	Q	R	S	W	X	Y
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F							
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



How to Order?

Low power solenoid valve

Series No. Valve body size ID Code Positions Ways Controls Original status Port size Reset Voltage Connection Cover color Acting type Thread type

N 1: 1Series 2: 2Series 3: 3Series 4: 4Series

2: 2 positions 3: 3 positions

5: 5 ways

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)

Blank: DIN connector K: Waterproof DIN connector (Only 2, 3, 4 series is optional)

Blank: Brown translucent J: Colorless and translucent

Blank: Internal pilot WB: External pilot

Blank: G P: PT T: NPT

Order Example:

RV series solenoid valve, 2 series valve body size, standard pilot+Low power 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(Ex.G1/4)	G3/8	G1/2
Sectional area(mm <sup>2</sup> )	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	Internal pilot type / External pilot type							
Reset Type	Spring reset / Gas reset							
Lubrication	Not required							
Working pressure(MPa)	0.15-0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-20~70(Dry air)							
Voltage range	-15%~10%							
Power consumption	DC:0.7W				DC:1.0W ; AC:1.0VA			
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)	N1R251: 110 N1R252: 171 N1R352: 181		N2R251: 209 N2R252: 314 N2R352: 357		N3R251: 289 N3R252: 400 N3R352: 450		N4R251: 528 N4R252: 638 N4R352: 727	

### How to Order?

#### Standard solenoid valve

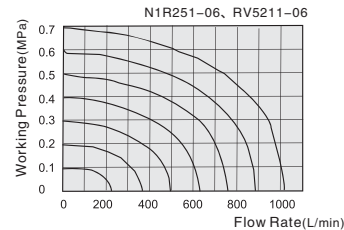
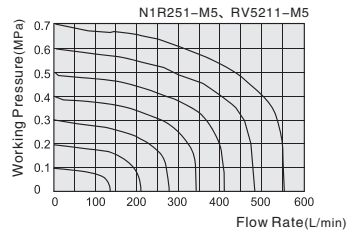
Series No.	Ways	Positions	Valve body size	Controls	Original status	Port size	Reset form	ID Code	Voltage	Connection mode	Cover color	Acting type	Thread type
RV	5:5 ways	2: 2 positions 3: 3 positions	1: 1Series 2: 2Series 3: 3Series 4: 4Series	1: Single control 2: Double control	C: Center close P: Center 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)	Blank: standard type A: Amisco coil	E1: AC110V E2: AC220V E3: AC380V E4: DC24V E5: DC12V	E6: AC36V E7: AC24V E8: DC110V E9: DC48V E10: DC36V	Blank: DIN connector F: Flying leads K: Waterproof DIN connector (Only 2, 3, 4 series is optional)	Blank: Internal pilot WB: External pilot J: Colorless and translucent	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

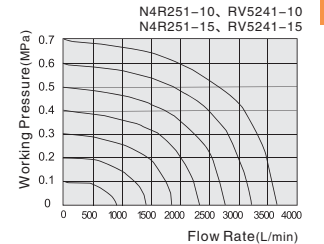
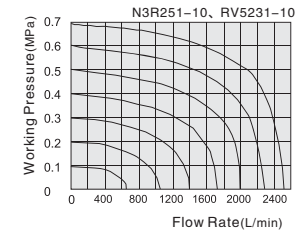
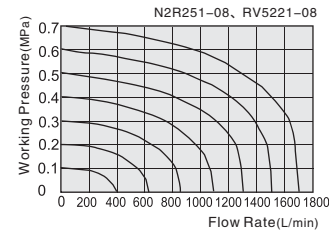
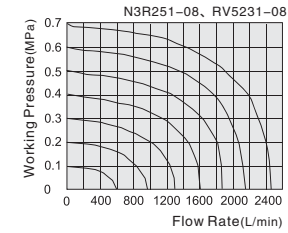
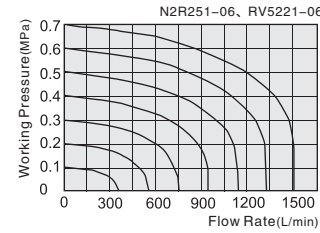
### Specifications

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 <sup>2</sup> )	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	Internal pilot type / External pilot type							
Reset Type	Spring reset / Gas reset							
Lubrication	Not required							
Working pressure(MPa)	0.15~0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-20~70(Dry air)							
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 Chart

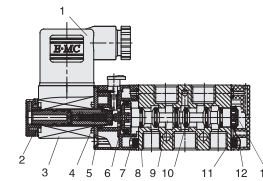


### Flow Chart

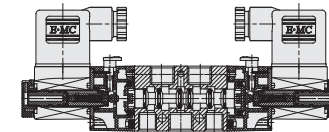


### Internal structure

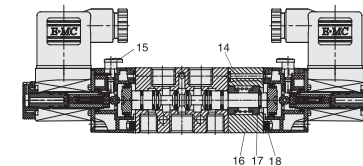
#### Single solenoid valve



#### Double solenoid valve



#### 5/3 solenoid valve



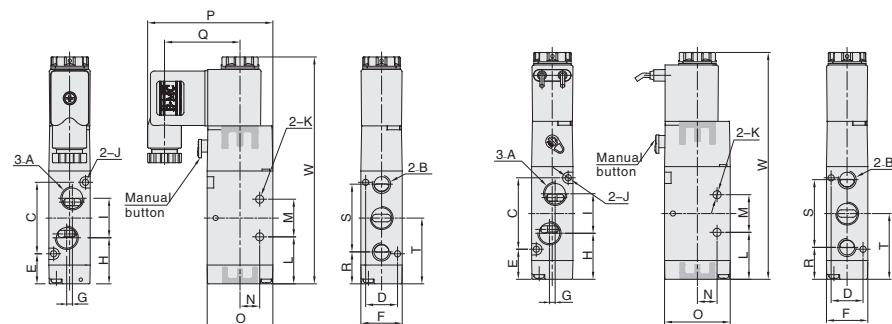
NO.	Part name	Material
1	Connector	Engineering plastic
2	Nut	POM+Carbon steel
3	Coil	Cu
4	Pilot units	
5	Plate	Carbon steel
6	Piston	POM
7	Pilot seat	Engineering plastic
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	HNBR
11	Rear cover	Engineering plastic
12	Filter	Synthetic material
13	Piston	POM
14	Spring	Stainless steel
15	Manual override	Engineering plastic
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



单位(mm)

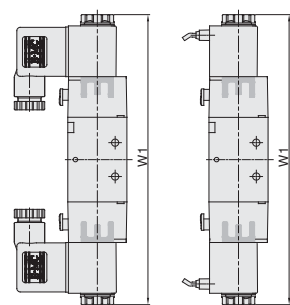
Model/Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W
RV5211-M5	M5	M5	30	13	16.5	18	0	24.5	14.1	3.3	3.3	24.5	14	9.5	27	55.2	33.9	17.9	27.2	31.5	103.1
RV5211-06	G1/8	G1/8	30	13	16.5	18	3	23.5	16	3.3	3.3	24.5	14	9.5	27	55.2	33.9	17.5	28	31.5	103.1
RV5221-06	G1/8	G1/8	38	17	16	22	0	26	18	3.3	4.3	25	20	10.5	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

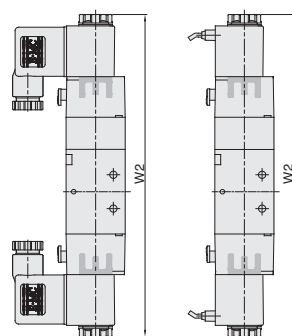
Flying Leads Type



5/3 solenoid valve

DIN Type

Flying Leads Type

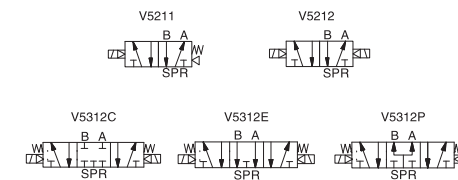


Model/Sign	W1
RV5212-M5	143.2
RV5212-06	143.2
RV5222-06	171.4
RV5222-08	171.4
RV5232-08	190.4
RV5232-10	190.4
RV5242-10	223.4
RV5242-15	223.4

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.



How to Order?

Standard solenoid valve

Series No.	Ways	Positions	Valve body size	Controls	Original status	Port size	ID Code	Voltage	Connection mode	Cover color	Valve color	Thread type
V	5:5 ways	2: 2 positions 3: 3 positions		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: standard type A: Amisco coil	E1: AC110V E2: AC220V E3: AC380V E4: DC24V E5: DC12V	Blank: DIN connector F: Flying leads	Blank: Brown translucent J: Colorless and translucent	Blank: Black W: White	Blank: G P: PT T: NPT

Order Example:

V 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: V5221-08E4

Specifications

Model NO.	V5211-M5 V5212-M5 V5312-M5	V5211-06 V5212-06 V5312-06	V5221-06 V5222-06 V5322-06	V5221-08 V5222-08 V5322-08	V5231-08 V5232-08 V5332-08	V5231-10 V5232-10 V5332-10	V5241-10 V5242-10 V5342-10	V5241-15 V5242-15 V5342-15
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 <sup>2</sup> )	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	Pilot type							
Lubrication	Not required							
Working pressure(MPa)	0.15-0.8							
Guaranteed pressure(MPa)	1.2							
Working temperature(°C)	-5~60							
Voltage range	-15%~10%							
Power consumption	DC:2.8W ; AC:3.0VA				DC:4.8W ; AC:5VA			
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)	V5211: 110 V5212: 171 V5312: 181	V5221: 209 V5222: 314 V5322: 357	V5231: 289 V5232: 400 V5332: 450	V5241: 528 V5242: 638 V5342: 727				