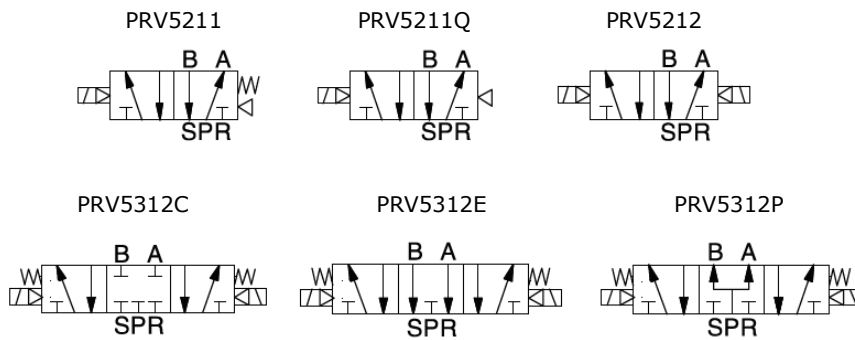


## PRV Valves Series (5/2 & 5/3 way)

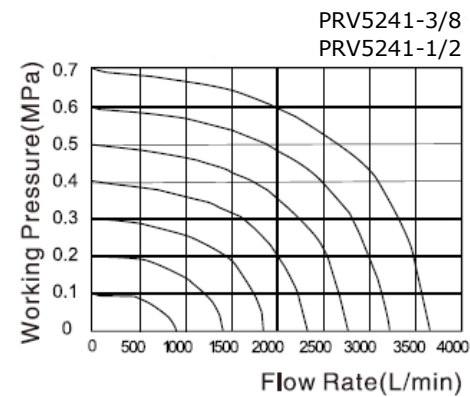
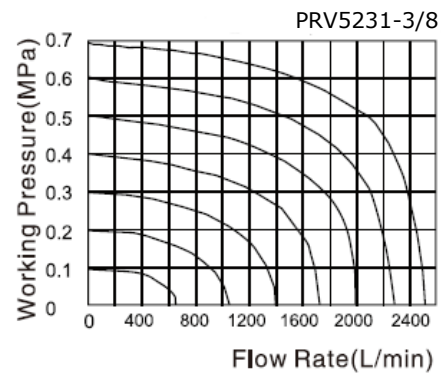
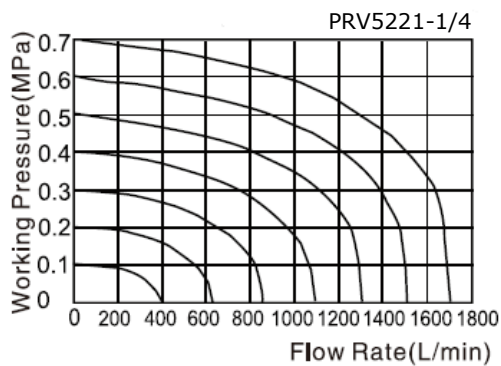
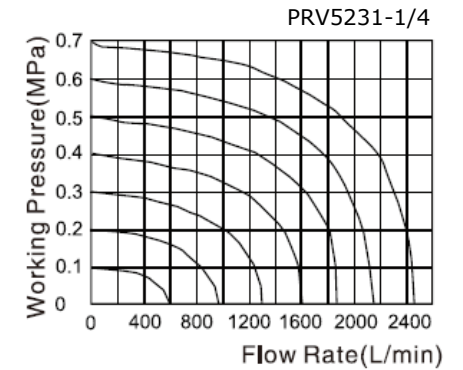
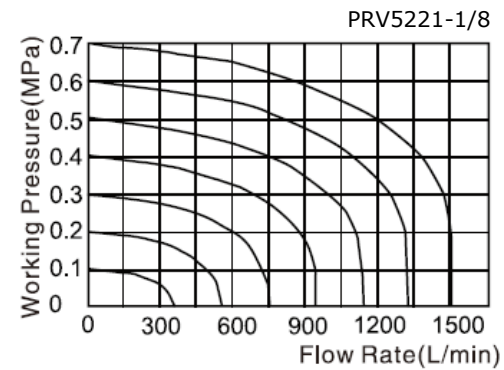
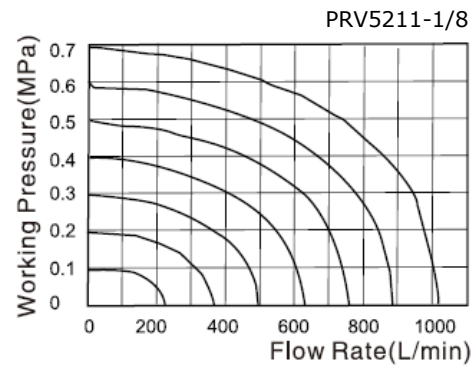
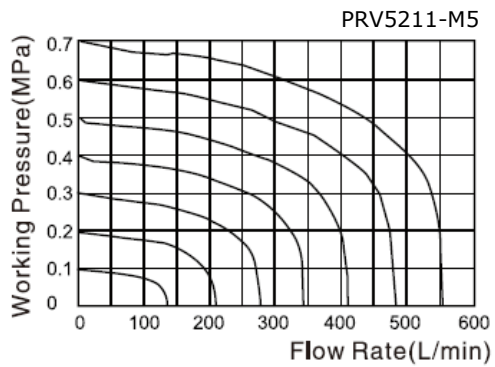


P	R	V	5	2	1	2	C	-	24	VDC	-	1 / 8
<b>Series no.</b> PRV	<b>Ports/ways</b> 5: 5 ways	<b>Positions</b> 2: 2 Positions 3: 3 Positions	<b>Controls</b> 1: Single control 2: Double control	<b>Valve Body</b> 1: 1 series 2: 2 series 3: 3 series 4: 4 series	<b>Original status</b> C: Center close P: Center pressure E: Center exhaust (only for 5/3 way)	<b>Voltage</b> 110 VAC 36 VAC 220 VAC 24 VAC 380 VAC 110 VDC 24 VDC 48 VDC 12 VDC 36 VDC	<b>Port size</b> M5: M5 1/8: 1/8" 1/4: 1/4" 3/8: 3/8" 1/2: 1/2"					

## Specifications

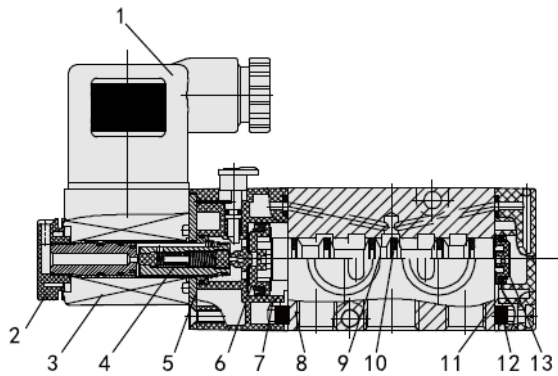
Model	PRV5211-M5	PRV5211-1/8	PRV5221-1/8	PRV5221-1/4	PRV5231-1/4	PRV5231-3/8	PRV5241-3/8	PRV5241-1/2
	PRV5212-M5	PRV5212-1-8	PRV5222-1/8	PRV5222-1/4	PRV5232-1/4	PRV5232-3/8	PRV5242-3/8	PRV5242-1/2
	PRV5312-M5	PRV5312-1/8	PRV5322-1/8	PRV5322-1/4	PRV5332-1/4	PRV5332-3/8	PRV5342-3/8	PRV5342-1/2
Port size	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)	5/2:12 (CV=0.67)	5/2:14 (CV=0.78)	5/2:16 (CV=0.89)	5/2:25 (CV=1.40)	5/2:30 (CV=1.68)	5/2:50 (CV=2.79)	5/2:50 (CV=2.79)
	5/3:5.5 (CV=0.28)	5/3:9 (CV=0.50)	5/3:12 (CV=0.67)	5/3:12 (CV=0.67)	5/3:18 (CV=1.00)	5/3:18 (CV=1.00)	5/3:30 (CV=1.67)	5/3:30 (CV=1.67)
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 (Bar)	1.5 ~ 8							
Guaranteed pressure (Bar)	12							
Working temperature (°C)	-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)	PRV5211: 110		PRV5221: 209		PRV5231: 289		PRV5241: 528	
	PRV5212: 171		PRV5222: 314		PRV5232: 400		PRV5242: 638	
	PRV5312: 181		PRV5322: 357		PRV5332: 450		PRV5342: 727	

## Flow Chart

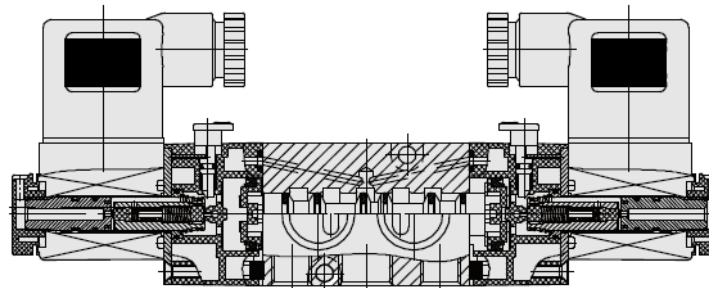


## Internal Structure

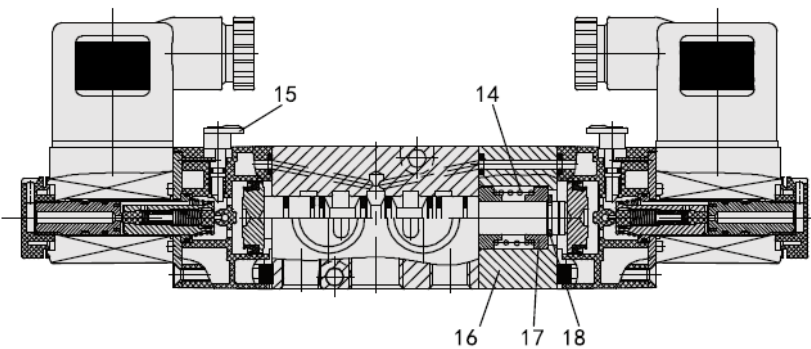
### Single Solenoid Valve



### Double Solenoid Valve



### 5/3 Ways Solenoid Valve



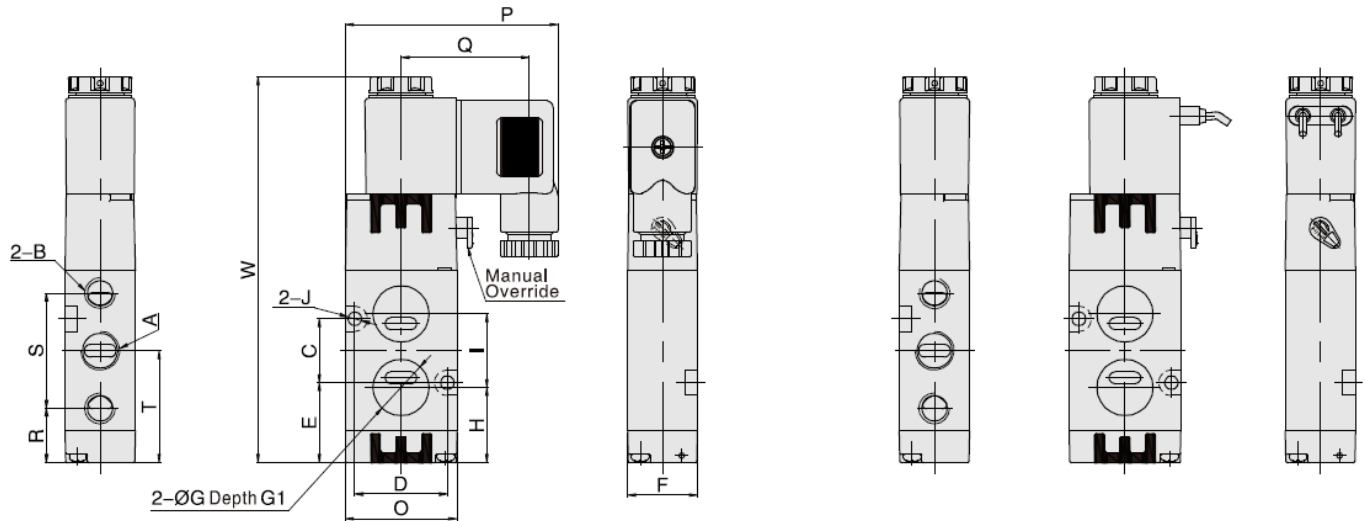
No.	Part name	Material
1	Connector	Engineered plastics
2	Nut	POM + Carbon steel
3	Coil	Cu
4	Pilot units	Engineered plastics
5	Plate	Carbon steel
6	Piston	POM
7	Pilot seat	Engineered plastics
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	HNBR
11	Rear cover	Engineered plastics
12	Filter	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 Lead Type



(mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W
PRV5211-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
PRV5211-1/8	G1/8	G1/8	30	13	16.6	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
PRV5221-1/8	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
PRV5221-1/4	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
PRV5231-1/4	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
PRV5231-3/8	G3/8	G1/4	50	20	19.2	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
PRV5241-3/8	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
PRV5241-1/2	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

Double Solenoid Valve

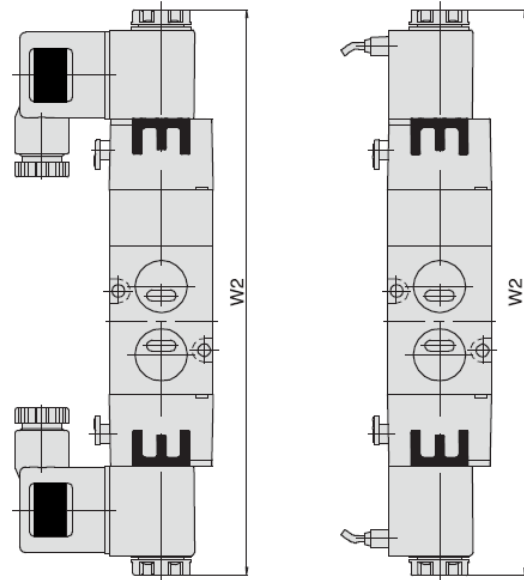
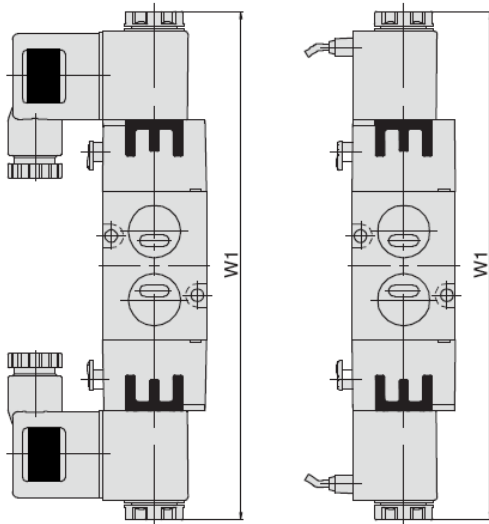
5/3 Ways Solenoid Valve

Din Type

Flying Lead Type

Din Type

Flying Lead Type



(mm)

Model	W1	Model	W2
PRV5212-M5	143.2	PRV5212-M5	158.2
PRV5212-1/8	143.2	PRV5312-1/8	158.2
PRV5222-1/8	171.4	PRV5322-1/8	190.4
PRV5222-1/4	171.4	PRV5322-1/4	190.4
PRV5232-1/4	190.4	PRV5332-1/4	209.4
PRV5232-3/8	190.4	PRV5332-3/8	209.4
PRV5242-3/8	223.4	PRV5342-3/8	244.4
PRV5242-1/2	223.4	PRV5342-1/2	244.4