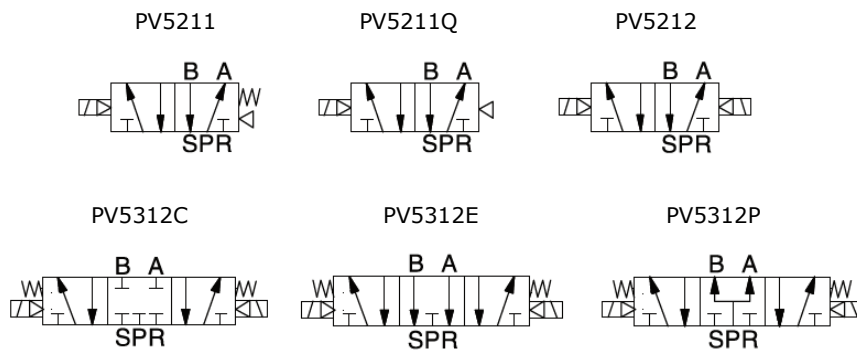


PV Valves Series (5/2 & 5/3 way)

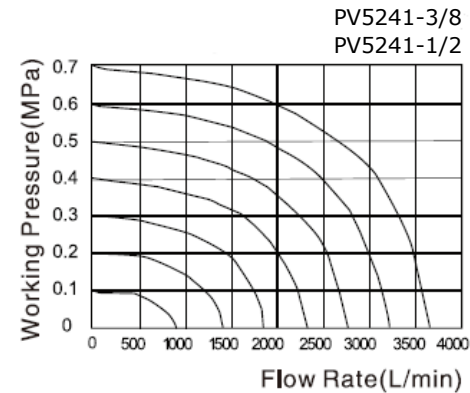
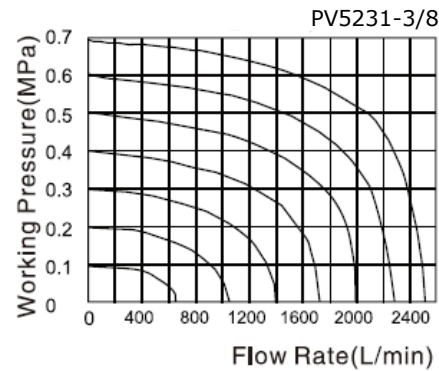
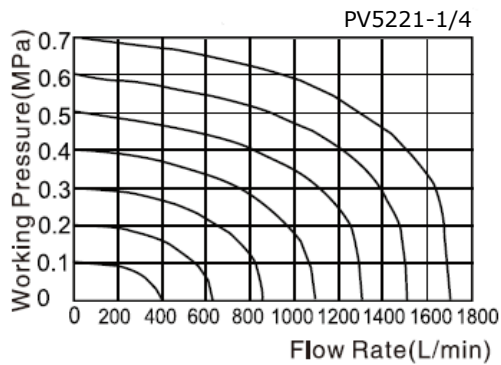
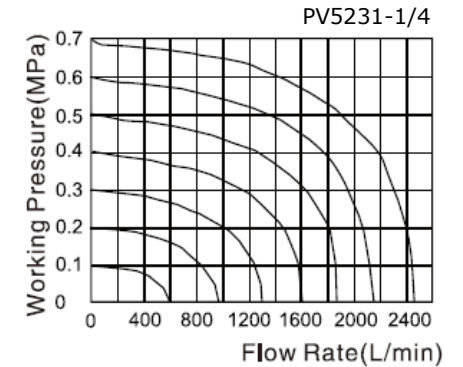
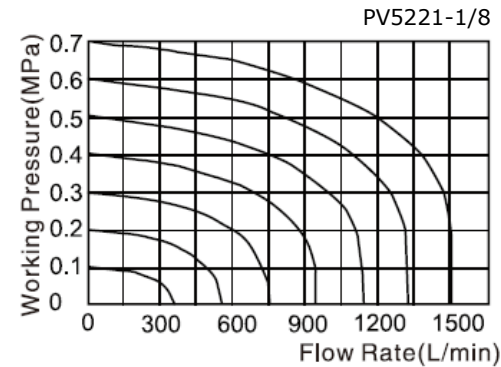
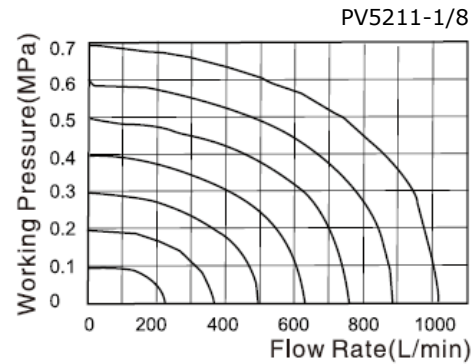
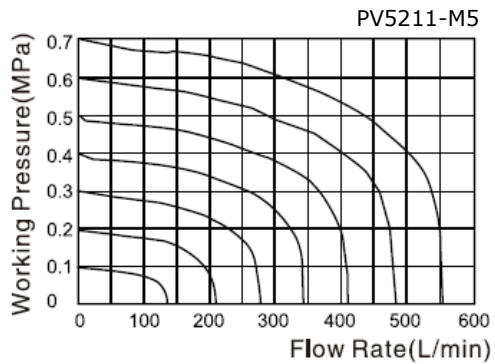


P	V	5	2	1	2	C	-	24 VDC	-	1 / 8
Series No.	Ports / Ways	Positions	Controls			Voltage			Port size	
PV	5:5 ways	2 - Positions 3 - Positions	1: Single control 2: Double control			110 VAC 36 VAC 220 VAC 24 VAC 380 VAC 110 VDC 24 VDC 48 VDC 12 VDC 36 VDC			M5: M5 1/8: 1/8" 1/4: 1/4" 3/8: 3/8" 1/2: 1/2"	
	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

Specifications

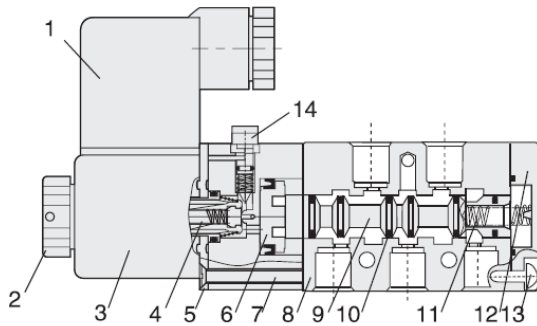
Model	PV5211-M5	PV5211-1/8	PV5221-1/8	PV5221-1/4	PV5231-1/4	PV5231-3/8	PV5241-3/8	PV5241-1/2
	PV5212-M5	PV5212-1-8	PV5222-1/8	PV5222-1/4	PV5232-1/4	PV5232-3/8	PV5242-3/8	PV5242-1/2
	PV5312-M5	PV5312-1/8	PV5322-1/8	PV5322-1/4	PV5332-1/4	PV5332-3/8	PV5342-3/8	PV5342-1/2
Port size	M5	G1/8	G1/8	G1/4 (Ex. G1/8)	G1/4	G3/8 (Ex. G1/4)	G3/8	G1/2
Sectional area (mm ²)	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	Spring reset / Gas 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: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)	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

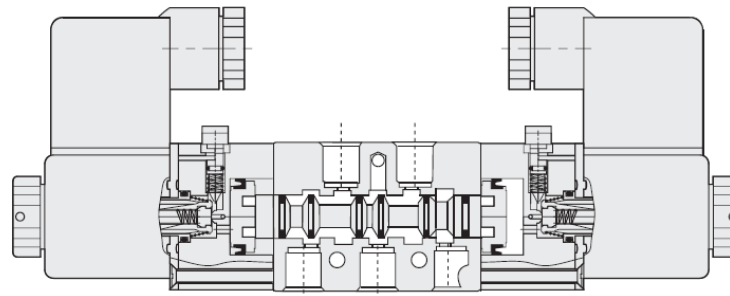


Internal Structure

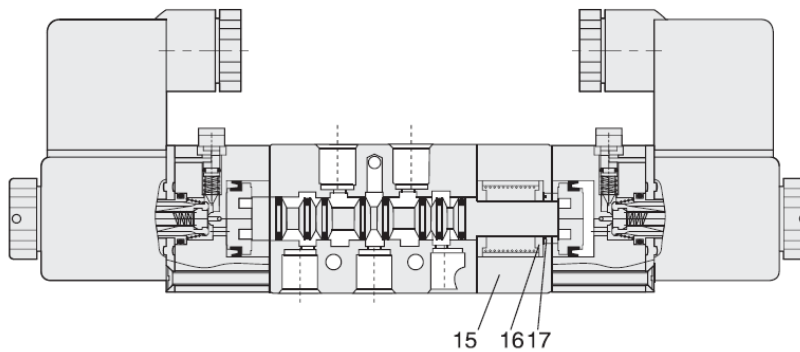
Single Solenoid Valve



Double Solenoid Valve



5/3 Ways Solenoid Valve



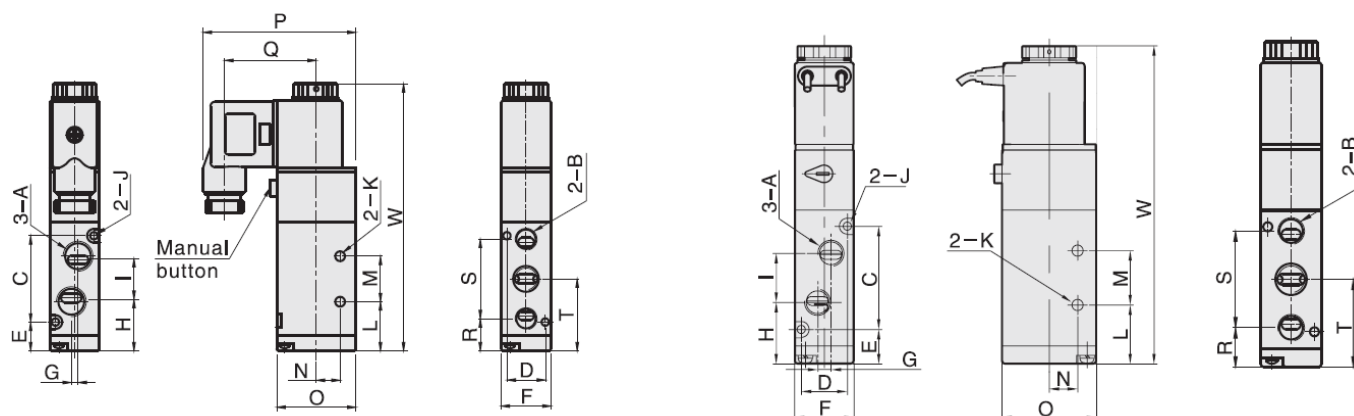
No.	Part name	Material
1	Connector	Engineered plastics
2	Nut	POM + Carbon steel
3	Coil	Cu
4	Pilot units	
5	Plate	Carbon steel
6	Piston	POM
7	Screw	Carbon steel
8	Valve body	Aluminum alloy
9	Spool	Aluminum alloy
10	O-ring	HNBR
11	Spring	Stainless steel
12	Rear cover	Zinc alloy
13	Screw	Carbon steel
14	Manual override	Engineered plastics
15	Back seat	Aluminum alloy
16	Spring seat	Aluminum alloy
17	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
PV5211-M5	M5	M5	30	13	13.2	18	0	21	14.5	3.3	3.1	21.2	14	9.5	27	54.8	32.8	14.5	27.5	28.2	98.5
PV5211-1/8	G1/8	G1/8	30	13	13.2	18	3	20.2	16	3.3	3.1	21.2	14	9.5	27	54.8	32.8	14.5	27.5	28.2	98.5
PV5221-1/8	G1/8	G1/8	38	17	12.7	22	0	22.7	18	3.3	4.3	21.7	20	10.5	35	67.5	40.5	14.2	36	31.7	117.7
PV5221-1/4	G1/4	G1/8	38	17	12.7	22	3	21.7	20	3.3	4.3	21.7	20	10.5	35	67.5	40.5	14.2	36	31.7	117.7
PV5231-1/4	G1/4	G1/4	50	20	15	27	0	28	24	4.3	4.3	28	24	13.5	40	70	40.5	17.5	45	40	135.5
PV5231-3/8	G3/8	G1/4	50	20	15	27	4	28	24	4.3	4.3	28	24	13.5	40	70	40.5	17.5	45	40	135.5
PV5241-3/8	G3/8	G3/8	72	27	21	34	0	39	36	4.3	5.2	43	28	17.5	50	75	40.5	25.5	63	57	168
PV5241-1/2	G1/2	G1/2	72	27	21	34	4	39	36	4.3	5.2	43	28	17.5	50	75	40.5	25.5	63	57	168

Double Solenoid Valve

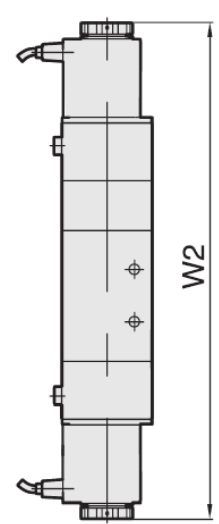
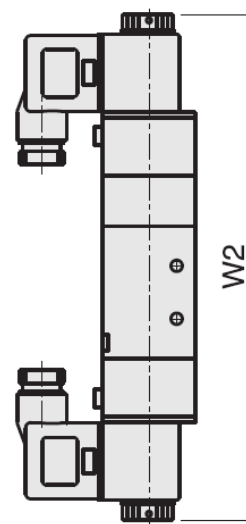
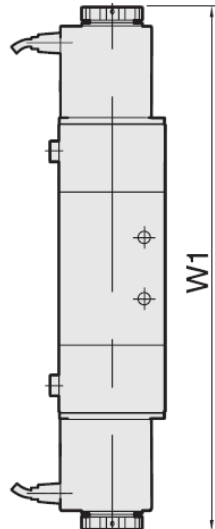
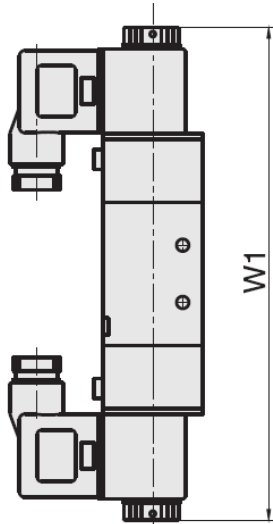
5/3 Ways Solenoid Valve

Din Type

Flying Lead Type

Din Type

Flying Lead Type



(mm)

Model	W1	W2
PV5212	140.6	-
PV5222	172	-
PV5232	191	-
PV5242	222	-
PV5312	-	155.6
PV5322	-	191
PV5332	-	210
PV5342	-	244