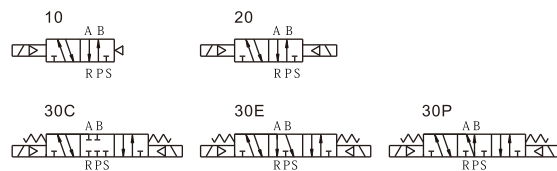


Solenoid valve (5/2 way, 5/3 way)

6V Series



Symbol



Specification

Model		6V0510	6V0520	6V0530	6V110	6V120	6V130
Port size	Thread type	In=Out=Exh=M5			In=Out=Exh=M5(or=1/8")		
[Note1]	Tube type	A port=B port= Φ 4			A port=B port=Φ4 (or=Φ6) (or=Φ8)		
Orifice size(Cv) [Note4]		M5:3.4mm ² (0.2)		6V0530CM5: 2.2mm ² (0.13)	06:8.9mm ² (0.52)		6V130C06: 8.0mm ² (0.47)
Weight		35g	50g	65g	60g	75g	90g
Model		6V210	6V220	6V230	6V310	6V320	6V330
Port size	Thread type	In=Out=1/8"(or=1/4")Exh=1/8"			In=Out=3/8" Exh=1/4"		
[Note1]	Tube type	A port=B port= Φ6(or=Φ8) (or=Φ10)			-		
Orifice size(Cv) [Note4]		08:15.4mm ² (0.91)		6V230C08: 14.2mm ² (0.84)	10:38.4mm ² (2.26)		6V330C10: 30.5mm ² (1.8)
Weight		100g	115g	130g	230g	265g	305g
Fluid		Air(to be filtered by 40 μ m filter element)					
Acting		Internal pilot					
Operating pressure	5/3 way	0.2~0.8MPa(29~114psi)					
	5/2 way	0.15~0.8MPa(21~114psi)					
Proof pressure		1.2MPa(175psi)					
Temperature		-20~70℃					
Material of body		Aluminum alloy					
Lubrication [Note3]		Not required					
Pilot valve's Exhaust type		Centralized exhaust type					
Max.frequency [Note2]		5 cycle/sec		3 cycle/sec	5 cycle/sec		3 cycle/sec

[Note1] PT, G, NPT thread are available.

[Note2] The maximum actuation frequency is in the no-load state.

[Note3] Once lubricated air is used, continue with same medium to optimize valve life span. Lubricants like ISO VG32 or equivalent are recommended.

[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Product feature

1. Electrical entry is terminal, horizontal and vertical insertion can freely switch.
2. Inner exhaust structure to collect pilot airflow, and then exhaust intensively from R, S port.
3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
4. Threaded type and quick connector type are optional, and can integrate manifold to form valve group to save space.

Coil specification

Item	Specification			
Standard voltage	AC220V	AC110V	DC24V	DC12V
Scope of voltage	AC: +15% ~-10%		DC: ±10%	
Power consumption	1.1VA		0.9W	
Protection	Dustproof			
Temperature classification	F Class			
Electrical entry	Terminal			
Activating time	0.05 sec and below			

Ordering code

6V 2 10 J 08 B 050 □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

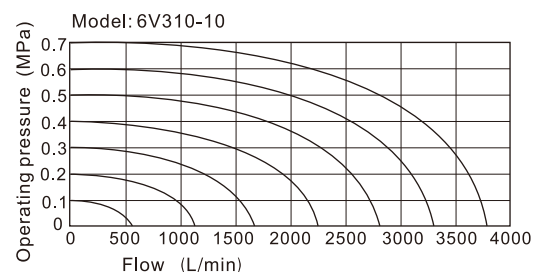
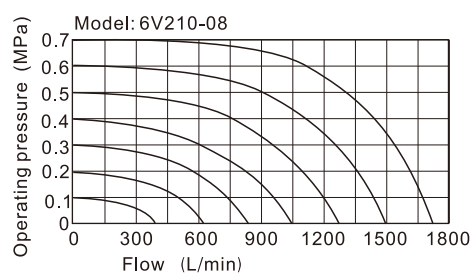
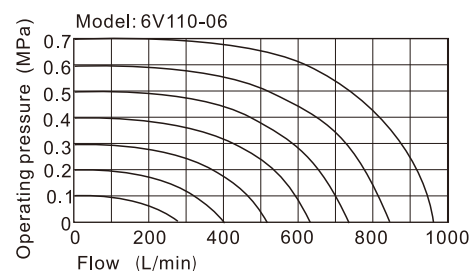
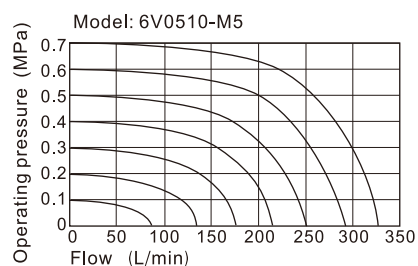
① Model		6V: Solenoid valve (5/2, 5/3 way)					
② Code		05: 0500 Series	1: 100 Series		2: 200 Series		3: 300 Series
③ Valve type		10: Single solenoid 5/2 way		20: Double solenoid 5/2 way			
		30C: Double solenoid 5/3 way closed center		30E: Double solenoid 5/3 way exhaust center			
		30P: Double solenoid 5/3 way pressure center					
④ Port type		Blank: Thread type J: Tube type					
⑤ Port size	Thread	M5: M5	M5: M5	06: 1/8"	06: 1/8"	08: 1/4"	10: 3/8"
	Tube	04: Φ4mm	04: Φ4mm/06: Φ6mm/08: Φ8mm		06: Φ6mm/08: Φ8mm/10: Φ10mm		-
⑥ Voltage		A: AC220V		B: DC24V	C: AC110V		F: DC12V
⑦ Line length				050: 0.5m	200: 2.0m		
⑧ Thread type [Note1]		-		Blank: PT Thread/ G: G Thread / T: NPT Thread			

[Note]: The base of the tube type solenoid valve is only used with the base.

Solenoid valve (5/2 way, 5/3 way)

6V Series

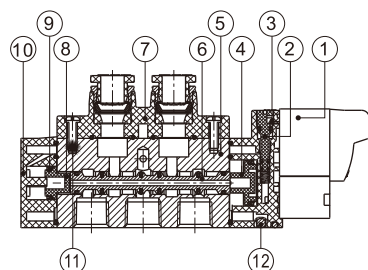
Flow chart



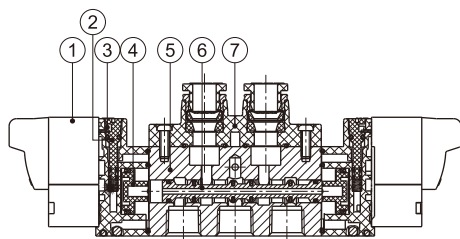
The data in flow rate chart are obtained from AirTAC lab.

Inner structure

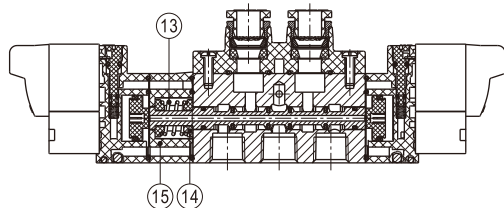
6V110



6V120



6V130C



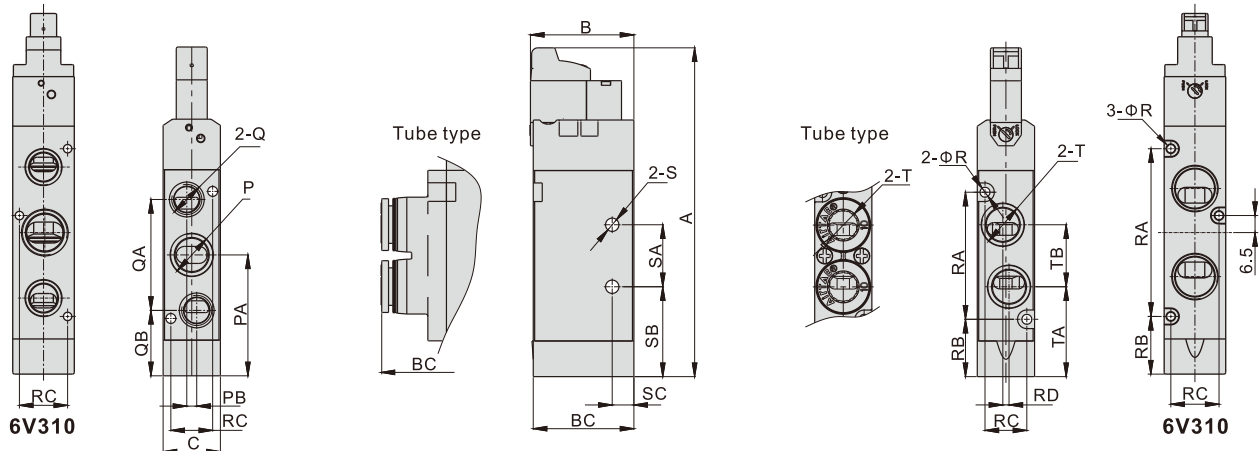
No.	Item	No.	Item	No.	Item
1	Pilot valve	6	Spool	11	Bolt
2	Manual override	7	Connecting block	12	Steel ball
3	Pilot kit	8	Little piston	13	Spring
4	Big piston	9	Gasket	14	Return holder
5	Body	10	Bottom cover	15	Side cover

Solenoid valve (5/2 way, 5/3 way)

6V Series

Dimensions

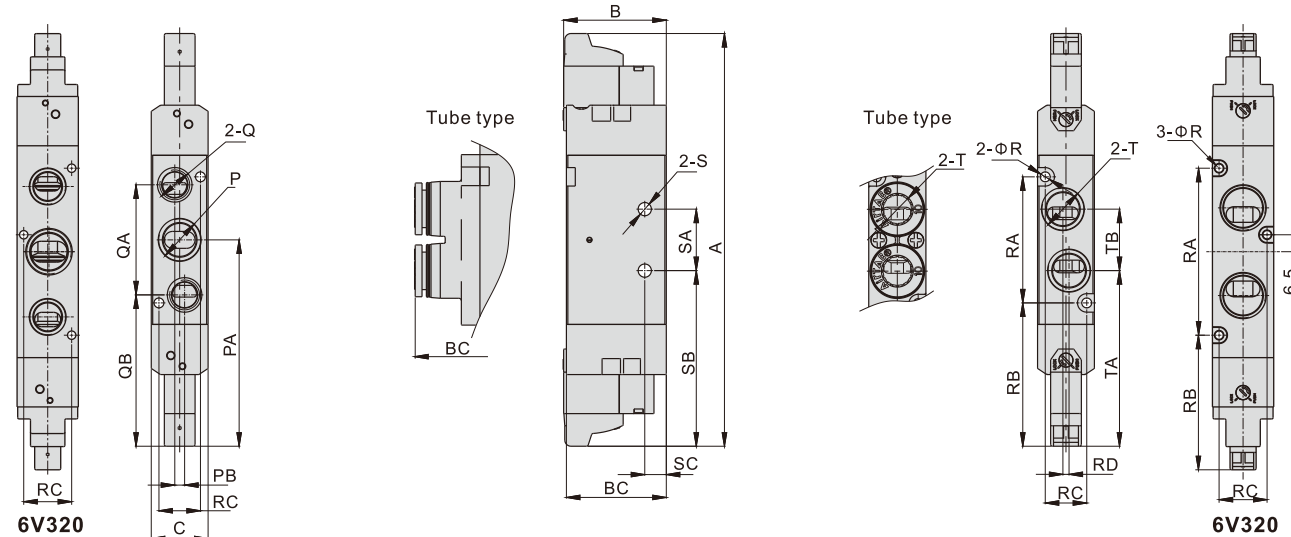
6V0510
6V110
6V210
6V310



Model\Item	A	B	BC	C	P	PA	PB	Q	QA	QB	T	TA	TB	R	RA	RB	RC	RD	S	SA	SB	SC	
6V0510M5	73	31	21	10.6	M5X0.8	22.5	1	M5X0.8	19	13	M5X0.8	17.5	10	2.1	22.5	11	7.5	0	Φ2.6	10	17.5	4	
6V0510J04			32.5								Φ4(Tube)								-	-	-	-	
6V110M5	93.5	32	24	15.5	PT1/8	33	2.6	PT1/8	28	19	M5X0.8	25.2	15.4	2.6	34	16	11	0	-	Φ3.2	14	26	4
6V110J04			39.5								PT1/8								Φ4(Tube)	-	-	-	-
6V110J06			41								Φ6(Tube)								-	-	-	-	-
6V110J08			42.5								Φ8(Tube)								-	-	-	-	-
6V21006	106	33.5	32.5	18.5	PT1/4	39	3.2	PT1/8	36	21	PT1/8	30	18	3.2	41	18.5	13.5	2	-	Φ4.3	20	29	7
6V21008			50.6								PT1/4								Φ6(Tube)	-	-	-	-
6V210J06			50.6								Φ8(Tube)								-	-	-	-	-
6V210J08			53.5								Φ10(Tube)								-	-	-	-	-
6V31010	137.5	46	46	23.5	PT3/8	54	0.5	PT1/4	50	29	PT3/8	37	33.5	3.2	64	22	18.4	0	Φ4.3	25	41.5	8	

[Note]: The base of the tube type solenoid valve is only used with the base. No through hole "S" on the side.

6V0520
6V120
6V220
6V320



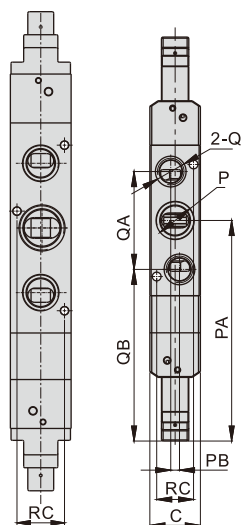
Model\Item	A	B	BC	C	P	PA	PB	Q	QA	QB	T	TA	TB	R	RA	RB	RC	RD	S	SA	SB	SC	
6V0520M5	101.5	31	21	10.6	M5X0.8	51	1	M5X0.8	19	41	M5X0.8	45.5	10	2.1	22.5	39.5	7.5	0	Φ2.6	10	45.5	4	
6V0520J04			32.5								Φ4(Tube)								-	-	-	-	
6V120M5	121.5	32	24	15.5	PT1/8	61	2.6	PT1/8	28	47	M5X0.8	53.7	15.4	2.6	34	44	11	0	-	Φ3.2	14	54	4
6V120J04			39.5								PT1/8								-	-	-	-	
6V120J06			41								Φ4(Tube)								-	-	-	-	
6V120J08			42.5								Φ6(Tube)								-	-	-	-	
6V22006	134	33.5	32.5	18.5	PT1/8	67	3.2	PT1/8	36	49	PT1/8	58	18	3.2	41	46.5	13.5	2	-	Φ4.3	20	57	7
6V22008			50.6		PT1/4						-								-	-	-		
6V220J06			50.6		Φ6(Tube)						-								-	-	-		
6V220J08			53.5		Φ8(Tube)						-								-	-	-		
6V220J10											Φ10(Tube)												
6V32010	167	46	46	23.5	PT3/8	83.5	0.5	PT1/4	50	58.5	PT3/8	67	33.5	3.2	64	51.5	18.4	0	Φ4.3	25	71	8	

[Note]: The base of the tube type solenoid valve is only used with the base. No through hole "S" on the side.

Solenoid valve (5/2 way, 5/3 way)

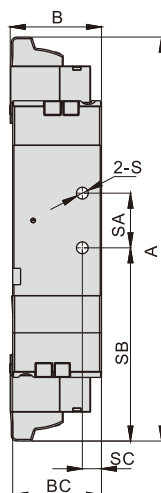
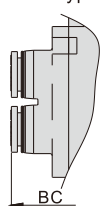
6V Series

6V0530
6V130
6V230
6V330

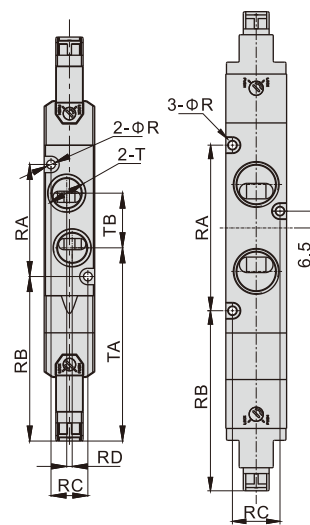


6V330

Tube type



Tube type



6V330

Model\Item	A	B	BC	C	P	PA	PB	Q	QA	QB	T	TA	TB	R	RA	RB	RC	RD	S	SA	SB	SC
6V0530M5	110	31	21	10.6	M5X0.8	59	1	M5X0.8	19	50	M5X0.8	54	10	2.1	22.5	48	7.5	0	Φ2.6	10	54	4
6V0530J04			32.5								Φ4(Tube)								-	-	-	-
6V130M5	133	32	24	15.5	PT1/8	72.5	2.6	PT1/8	28	59	M5X0.8	64.7	15.4	2.6	34	55.5	11	0	Φ3.2	14	65.5	4
6V130J04			39.5								PT1/8								-	-	-	-
6V130J06			41								Φ4(Tube)								-	-	-	-
6V130J08			42.5								Φ6(Tube)								-	-	-	-
6V230J06	148	33.5	32.5	18.5	PT1/8	81	3.2	PT1/8	36	63	PT1/8	72	18	3.2	41	60.2	13.5	2	Φ4.3	20	70.7	7
6V230J08			50.6								PT1/4								-	-	-	-
6V230J10			53.5								Φ6(Tube)								-	-	-	-
6V230J10			53.5								Φ8(Tube)								-	-	-	-
6V330J10	185	46	46	23.5	PT3/8	101.5	0.5	PT1/4	50	76.5	PT3/8	85	33.5	3.2	64	69.5	18.4	0	Φ4.3	25	89	8

[Note]: The base of the tube type solenoid valve is only used with the base. No through hole "S" on the side.