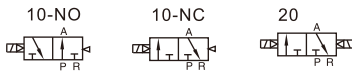


Solenoid valve(3/2 way)

6TV Series



Symbol



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 port.
3. The body is extruded by aluminum alloy, and the inner hole is specially processed to increase the flow rate.
4. Threaded type and quick connector type are optional, and can integrate manifold to form valve group to save space.

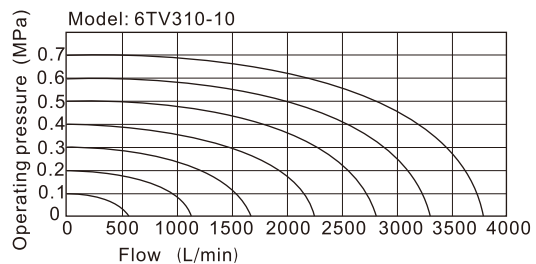
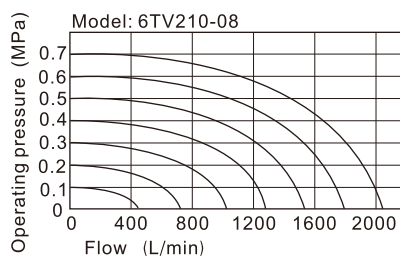
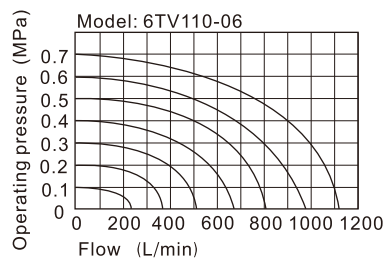
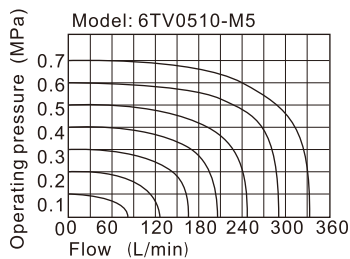
Ordering code

6TV 1 10 06 NC B 050 □



① Model	6TV: Solenoid valve (3/2 way)					
② Code	05: 0500 Series	1: 100 Series		2: 200 Series		3: 300 Series
③ Valve type	10: Single solenoid			20: Double solenoid		
④ Port size	M5: M5	M5: M5	06: 1/8"	06: 1/8"	08: 1/4"	10: 3/8"
⑤ Acting type	NC: Normally closed		NO: Normally opened		[Note: Double solenoid no this code]	
⑥ Voltage	A: AC220V		B: DC24V	C: AC110V	F: DC12V	
⑦ Line length			050: 0.5m		200: 2.0m	
⑧ Thread type	-		Blank: PT Thread / G: G Thread / T: NPT Thread			

Flow chart



Specification

Model	6TV0510	6TV0520	6TV110	6TV120
Port size [Note1]	In=Out=Exh=M5		In=Out=Exh=M5(or=1/8")	
Orifice size(Cv)	5.0mm ² (0.28)		M5: 5.0mm ² (0.28)	
			06: 10.0mm ² (0.58)	
Weight (g)	28	43	52	67
	Model	6TV210	6TV220	6TV310
Port size [Note1]	06: In=Out=Exh=1/8"		In=Out=3/8" Exh=1/4"	
Orifice size(Cv)	08: In=Out=1/4" Exh=1/8"		36.0mm ² (2.00)	
	06: 10.0mm ² (0.58)			
Weight (g)	90	105	180	215
	Fluid: Air(to be filtered by 40 μm filter element)			
Acting: Internal pilot				
Operating pressure: 0.15~0.8MPa(21~114psi)				
Proof pressure: 1.2MPa(175psi)				
Temperature: -20~70°C				
Material of body: Aluminum alloy				
Lubrication [Note2]: Not required				
Exhaust type of pilot valve: Main valve and pilot valve concentrated exhaust				
Max.frequency [Note3]: 5 cycle/sec				

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

[Note2] Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.

[Note3] The maximum actuation frequency is in the no-load state.

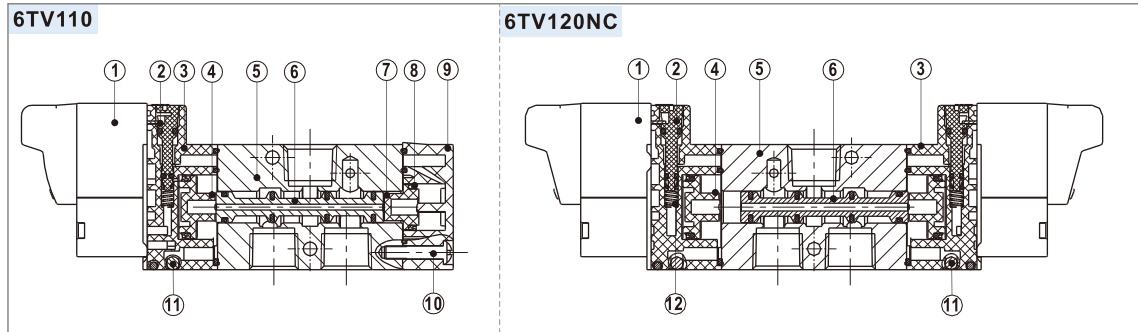
Coil specification

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

Solenoid valve(3/2 way)

6TV Series

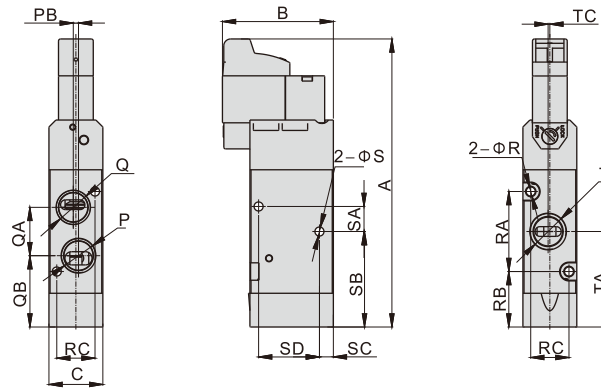
Inner structure



No.	Item
1	Pilot valve
2	Manual override
3	Pilot kit
4	Big piston
5	Body
6	Spool
7	Small piston
8	Gasket
9	Bottom cover
10	Bolt
11	Steel ball
12	Spring

Dimensions

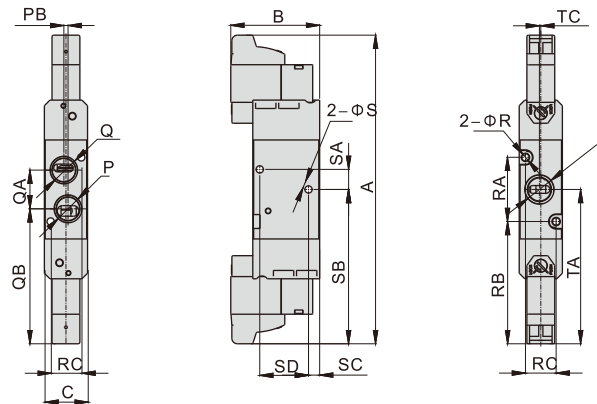
6TV0510
6TV110
6TV210
6TV310



Model\Item	A	B	C	P	PB	Q	QA	QB	R	RA	RB	RC	S	SA	SB	SC	SD	T	TA	TC
6TV0510M5	64.5	30.5	10.6	M5X0.8	1	M5X0.8	9.5	13.5	2.1	14	11.5	7.5	-	-	-	-	-	M5X0.8	18.5	0.5
6TV110M5	83	32	15.5	M5X0.8	-	M5X0.8	14	20.5	2.6	23	16	11	Φ2.6	7.2	27.5	4	17.5	M5X0.8	27.5	-
6TV11006	83	32	15.5	1/8"	1.5	1/8"	14	20.5	2.6	23	16	11	Φ2.6	7.2	27.5	4	17.5	1/8"	27.5	0.5
6TV21006	97	33.5	18.5	1/8"	-	1/8"	18	25.5	3.2	33	18	13.5	Φ3.2	12	34.5	7	21	1/8"	34.5	-
6TV21008	97	33.5	18.5	1/4"	-	1/8"	18	25.5	3.2	33	18	13.5	Φ3.2	12	34.5	7	21	1/4"	34.5	1
6TV31010	116.5	46	23.5	3/8"	-	1/4"	28	29.5	3.2	43	22	18.4	Φ4.3	15	58.5	8	31	3/8"	43.5	-

[Note]: 6TV0510 type no through hole "S" on the side.

6TV0520
6TV120
6TV220
6TV320



Model\Item	A	B	C	P	PB	Q	QA	QB	R	RA	RB	RC	S	SA	SB	SC	SD	T	TA	TC
6TV0520M5	93	30.5	10.6	M5X0.8	1	M5X0.8	9.5	41.5	2.1	14	39.5	7.5	-	-	-	-	-	M5X0.8	18.5	0.5
6TV120M5	110.5	32	15.5	M5X0.8	-	M5X0.8	14	48.5	2.6	23	44	11	Φ2.6	7.2	55.5	4	17.5	M5X0.8	27.5	-
6TV12006	110.5	32	15.5	1/8"	1.5	1/8"	14	48.5	2.6	23	44	11	Φ2.6	7.2	55.5	4	17.5	1/8"	27.5	0.5
6TV22006	125	33.5	18.5	1/8"	-	1/8"	18	53.5	3.2	33	46	13.5	Φ3.2	12	62.5	7	21	1/8"	34.5	-
6TV22008	125	33.5	18.5	1/4"	-	1/8"	18	53.5	3.2	33	46	13.5	Φ3.2	12	62.5	7	21	1/4"	34.5	1
6TV32010	146	46	23.5	3/8"	-	1/4"	28	59	3.2	43	51.5	18.4	Φ4.3	15	73	8	31	3/8"	43.5	-

[Note]: 6TV0520 type no through hole "S" on the side.