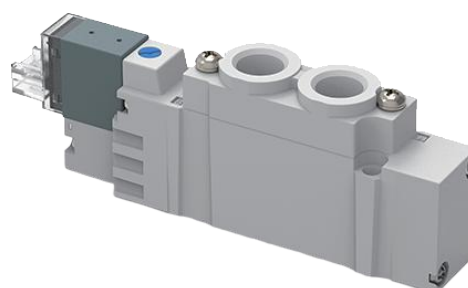


Electrically Control Valve

PSY Series



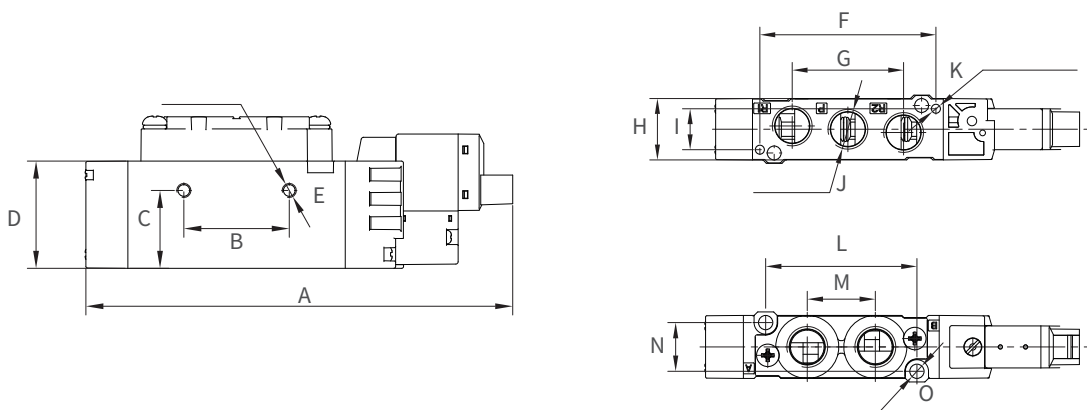
► Technical Parameter

Model		PSY3020N Series	PSY5020N Series	PSY7020N Series
Service substance		Compressed air		
Working temperature		-10~50°C(unfrozen)		
Manual switch		Screwdriver pressure-locking type		
Exhausting Method of Pilot Valve		Centralized exhaust type		
Oil feed		No oil supply		
Way to install		Freedom		
Protective structure		Dustproof		
Operating pressure range (MPa)	2-Position single electronic control	0.15~0.7		
	2-Position dual electronic control	0.1~0.7		
	3-Position	0.2~0.7		
Maximum action frequency (Hz)	2-Position single-electric control, dual-electric control	10	5	5
	3-Position	3	3	3
Response time at 0.5 MPa	2-Position single electronic control	16ms以下	19ms以下	38ms以下
	2-Position dual electronic control	16ms以下	19ms以下	38ms以下
	3-Position	20ms以下	32ms以下	56ms以下
C value: sound velocity flow resistance $\text{dm}^3(\text{m/s} \cdot \text{bar})$ B-value: Critical pressure ratio	2-Position single-electric control, dual-electric control	0.65	1.87	4.1
	3-Position medium seal type	0.48	1.6	2.9
	2-Position single-electric control, dual-electric control	0.44	0.3	0.23
	3-Position medium seal type	0.46	0.38	0.31
Weight (g)	2-Position single electronic control	43.9	89	138
	2-Position dual electronic control	62.2	107.3	153.6
	3-Position	65.3	115	168.6
Service life (10,000 cycles)		5000	5000	5000

Selection Table

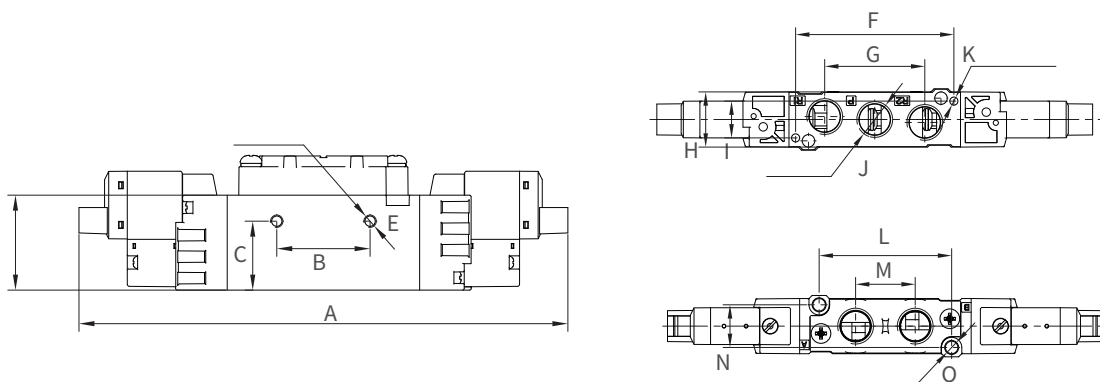
		PSY				20	N	-	5			-			
Series	Code												Connection diameter	Applicable type	Code
PSY3020	3												Threaded piping		
PSY5020	5												M5 Thread	PSY3020	M5
PSY7020	7												Rc1/8	PSY5020	01
Electronic control method	Code												Rc1/4	PSY7020	02
													Quick connect fitting		
													4mm Air hose	PSY5020	C4
													6mm Air hose	PSY5020	C6
													8mm Air hose	PSY5020	C8
Form	Code												Common connect fitting		
													4mm Air hose	PSY3020	C4
													6mm Air hose	PSY3020	C6
													8mm Air hose	PSY7020	C8
													10mm Air hose	PSY7020	C10
Voltage	Code												Wire length Type		
													300mm		-
													1000mm		1
													2000mm		2
													3000mm		3
Wiring lead-out method	Code												5000mm		5
													</		

► **Dimensional draw-PSY*120N-5E-***



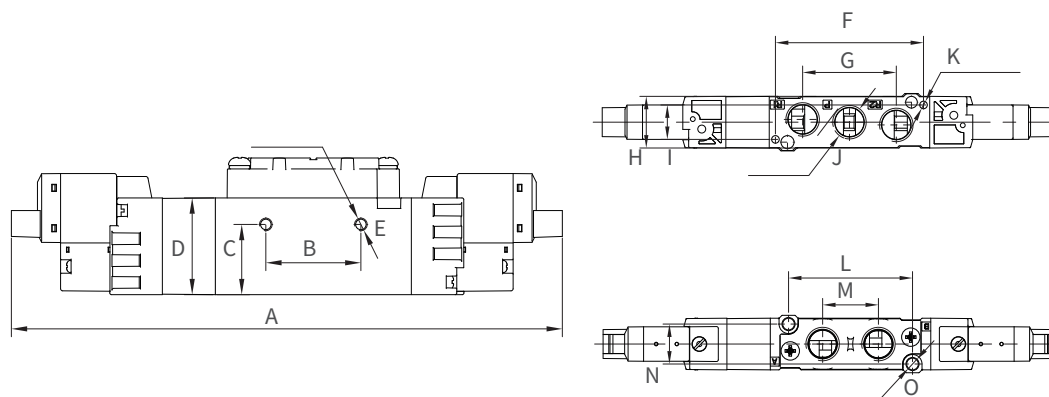
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
PSY3120N-5E-M5	73.1	9.5	4	18.5	2-M3 D 3.5	25	19	10	6	5-M5	2- ϕ 1.6	21.4	10.2	8.6	2- ϕ 2.1
PSY5120N-5E-01	91.5	22.6	16.7	23	2-M3 D 4	43	27.2	15	10	5-RC1/8	2- ϕ 2.2	36	16.2	11.6	2- ϕ 3.4
PSY7120N-5E-02	106	20	7	28	2-M4 D 8	51.3	36	18	12	3-RC1/4	2- ϕ 2.2	42	19	13.6	2- ϕ 4.5

► **Dimensional draw-PSY*220N-5E-***



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
PSY3220N-5E-M5	101.2	9.5	4	18.5	2-M3	25	19	10	6	5-M5	2- ϕ 1.6	21.4	10.2	8.6	2- ϕ 2.1
PSY5220N-5E-01	118.4	22.6	16.7	23	2-M3	43	27.2	15	10	5-RC1/8	2- ϕ 2.2	36	16.2	11.6	2- ϕ 3.4
PSY7220N-5E-02	133.8	20	7	28	2-M4	51.3	36	18	12	3-RC1/4	2- ϕ 2.2	42	19	13.6	2- ϕ 4.5

► Dimensional draw-PSY*3/4/520N-5E-*

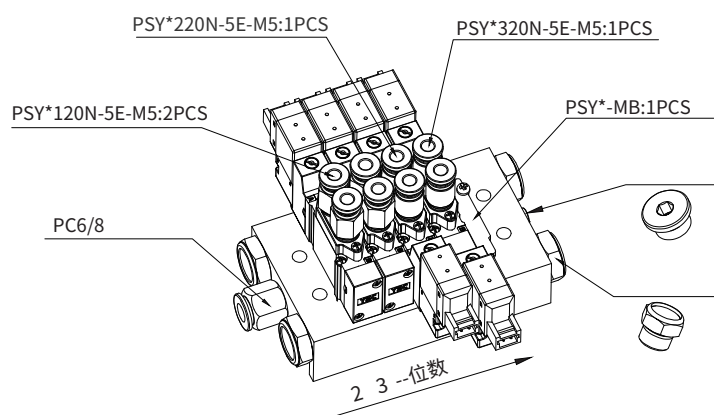


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
PSY33/4/520N-5E-M5	109.7	9.5	4	18.5	2-M3	25	19	10	6	5-M5	2- ϕ 1.6	21.4	10.2	8.6	2- ϕ 2.1
PSY53/4/520N-5E-01	131	22.6	16.7	23	2-M3	43	27.2	15	10	5-RC1/8	2- ϕ 2.2	36	16.2	11.6	2- ϕ 3.4
PSY73/4/520N-5E-02	146.8	20	7	28	2-M4	51.3	36	18	12	3-RC1/4	2- ϕ 2.2	42	19	13.6	2- ϕ 4.5

► PSY Series Valve Assembly Hub Plate Selection Table

Series	Code	Interface	Code
PSY3020	3	2 linked	2
PSY5020	5		
PSY7020	7	24 linked	24

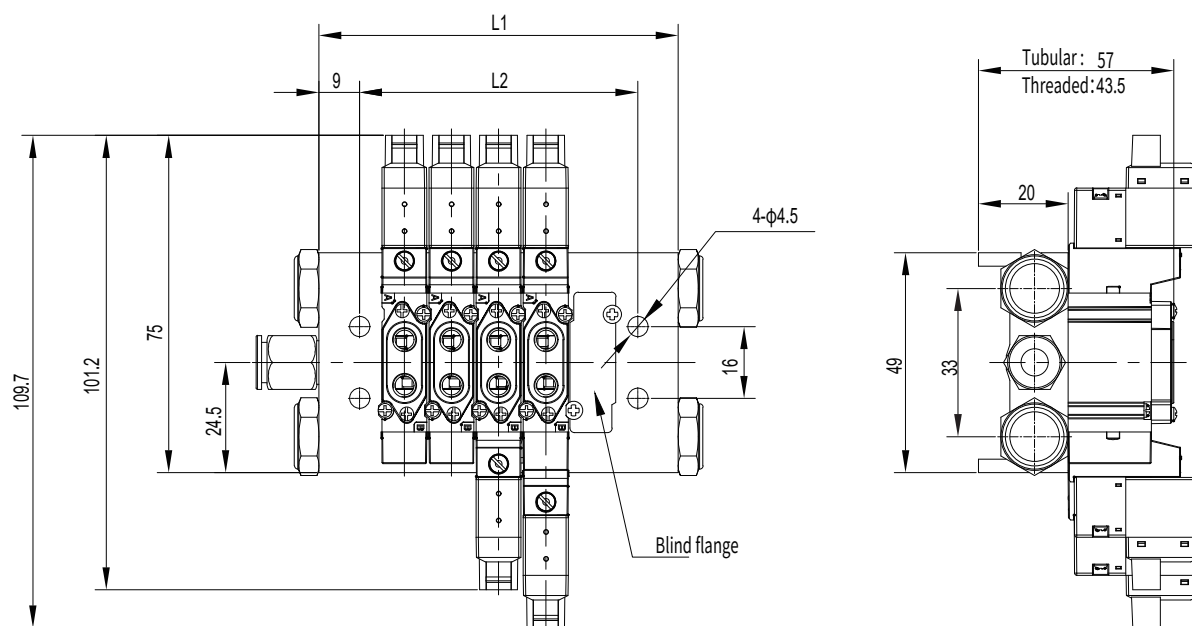
PSY*-2DSFM-5E-2D**C*-DD6/8D



- 2DSFM: denotes a configuration comprising 2 single-unit electronic control systems, 1 dual electronic control system, 1 medium-sealed unit, and 1 blind plate unit.
- 5E: Designates the pilot valve with a rated voltage of 24V DC and an E-type lead configuration.
- 2D**C*: Indicates the gas outlet end with corresponding fittings;
- DD6/8D: The left intake end connects to the PC6/8 connector, while the other end features a D-type plug and links to a copper muffler at the exhaust end.

※The valve position number starts from the D-side end as the first position; The quantity of adjacent valves and piping codes of the same type can be combined

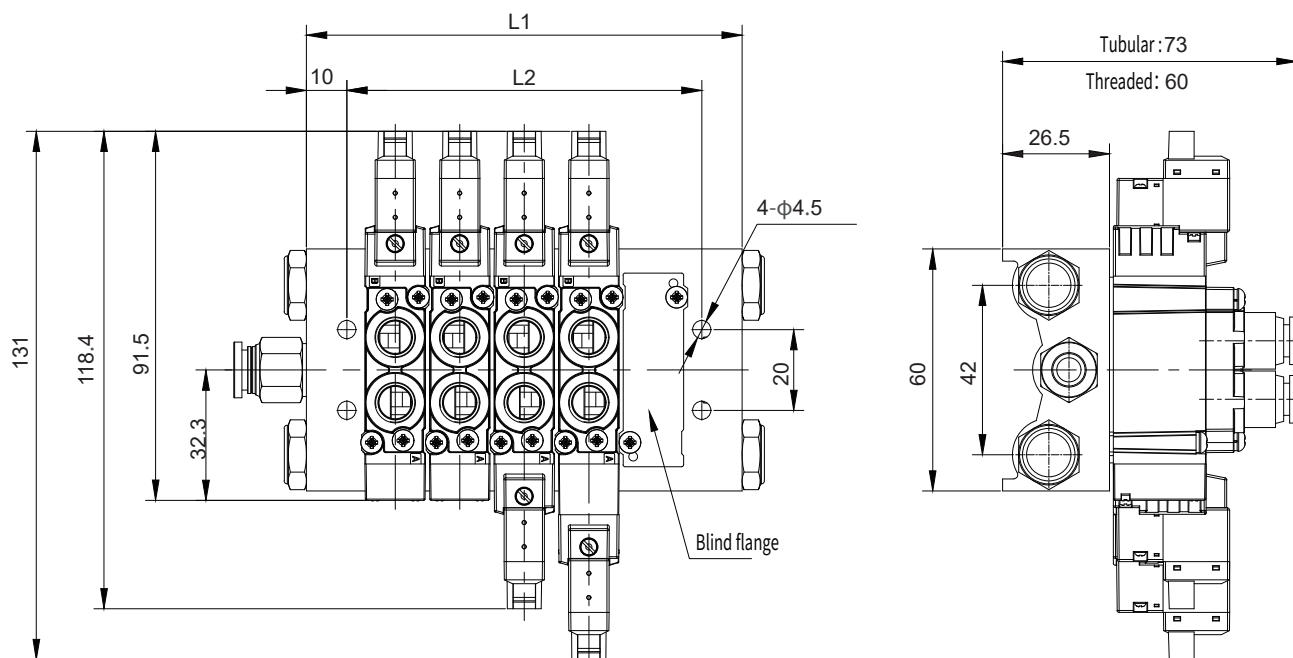
► **Dimensional draw-PSY3020**



Model	2	3	4	5	6	7	8	9	10	11	12	13
L1	48.5	59	69.5	80	90.5	101	111.5	122	132.5	143	153.5	164
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146

Model	14	15	16	17	18	19	20	21	22	23	24
L1	174.5	185	195.5	206	216.5	227	237.5	248	258.5	269	279.5
L2	156.5	167	177.5	188	198.5	209	219.5	230	240.5	251	261.5

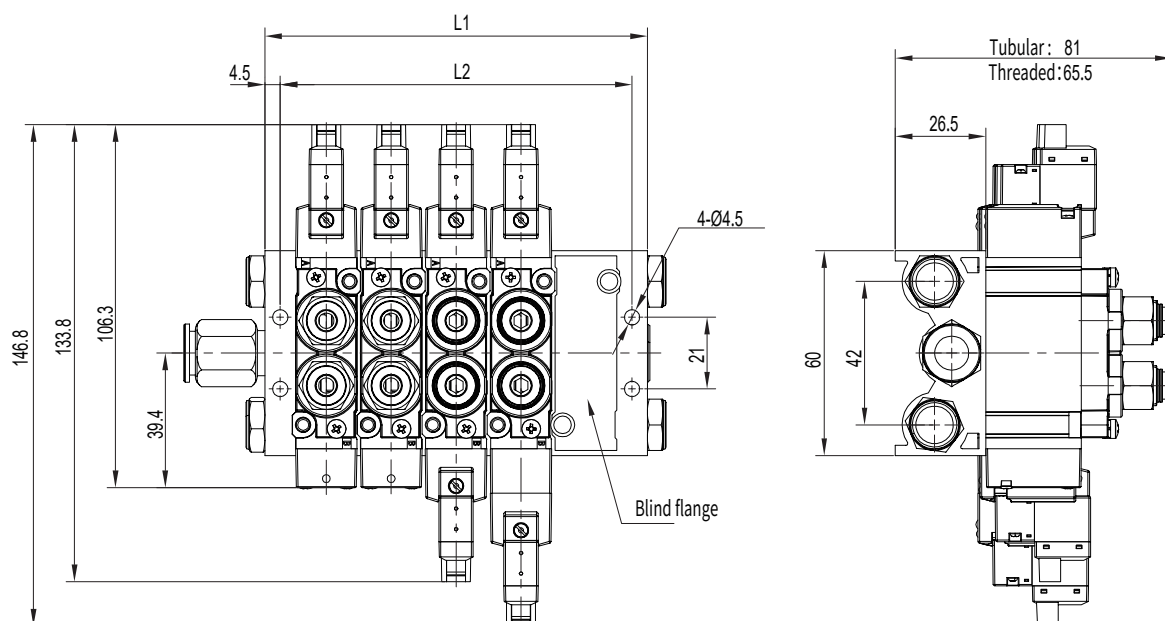
► **Dimensional draw-PSY5020**



Model	2	3	4	5	6	7	8	9	10	11	12	13
L1	60	76	92	108	124	140	156	172	188	204	220	236
L2	40	56	72	88	104	120	136	152	168	184	200	216

Model	14	15	16	17	18	19	20	21	22	23	24
L1	252	268	284	300	316	332	348	364	380	396	412
L2	232	248	264	280	296	312	328	344	360	376	392

► **Dimensional draw-PSY7020**



Model	2	3	4	5	6	7	8	9	10	11	12	13
L1	55	74	93	112	131	150	169	188	207	226	245	264
L2	46	65	84	103	122	141	160	179	198	217	236	255

Model	14	15	16	17	18	19	20	21	22	23	24
L1	283	302	321	340	359	378	397	416	435	454	473
L2	274	293	312	331	350	369	388	407	426	445	464