



4V series Solenoid Valve, 4A series Pneumatic Control Valve



Ordering Code

4V **2** **10** - **06** **□** - **AC220V** - **W**

Specification Code

4V:Two(Three)-position
Five-way Solenoid Valve
4A:Two(Three)-position
Five-way Pneumatic
Control Valve

Body Size

1: M5 and 1/8" Valve body
2: 1/8" and 1/4" Valve body
3: 1/4" and 3/8" Valve body
4: 1/2" Valve body

Coil and Places

10:Single-head Double-
position
20:Double-head Double-
position
30C:Double-head Three-
position Close Type
30E:Double-head Three-position
Exhaust Type
30P:Double-head Three-position Pressure Type

Port Size

M5:M5x0.8
06:G1/8"
08:G1/4"
10:G3/8"
15:G2"

Port connection and Initial State

Blank: Pipe Connection
Type
NC: Two-position Three-
way Normal Close Type
NO: Two-position Three-
way Normal Open Type

Standard Voltage

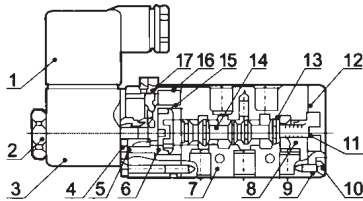
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

Wiring Form

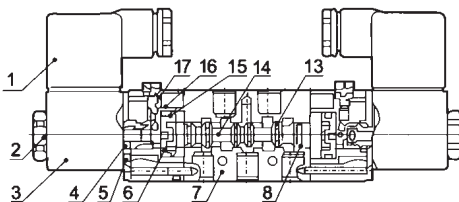
Blank:standard
Connector
LD:Brown with
Lighting Connector
LD1:White with
Lighting Connector
W:Lead Wire Type

Internal Structure

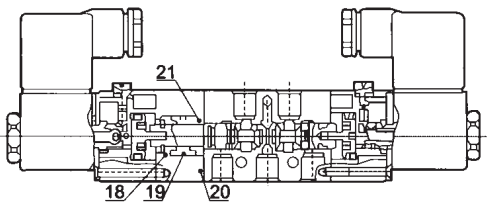
4V110~410



4V120~420



4V130~430



Specification

Model	4V110 ~ 410	4V120 ~ 420	4V130 ~ 430C/P/E
	4A110 ~ 410	4A120 ~ 420	4A130 ~ 430C/P/E
Position and Way NO.	Two-position Five-way		Three-position Five-way
Working Medium	40 Micron Filtered Air		
Motion Pattern	Inner Guide Type		
Working-Pressure	0.15 ~ 0.8MPa		
Max. Pressure Resistance	1.2MPa		
Operating Temperature	5 ~ 50°C		
Voltage Range	± 10%		
Power Consumption	AC:4.5VA DC:3W		
Insulation & Protection Class	F Class. IP65		
Electrical Entry	Lead Wire or Connector Type		
Highest Action Frequency	5 Cycle / Second		
Response time	0.05 Second		

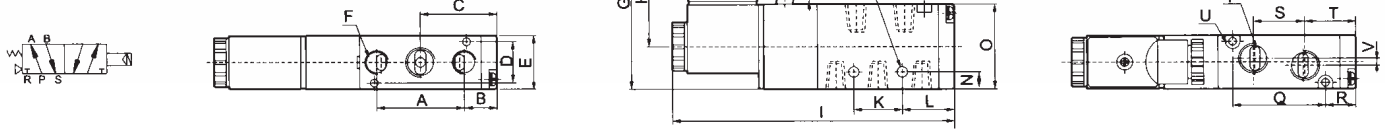
Parts

NO.	Designation	NO.	Designation
1	Connector	12	Seal ring
2	Nut	13	O-Ring
3	Coil	14	Spool
4	Active Amature	15	O-Ring
5	Steel Part	16	Spring
6	Piston	17	Pin
7	Body	18	Spring Seat
8	Wearing	19	Spring
9	End Cap	20	Side Cover
10	Screw	21	Spring seat
11	Spring		

4V series Solenoid Valve, 4A series Pneumatic Control Valve

Overall Dimension

4V110~410

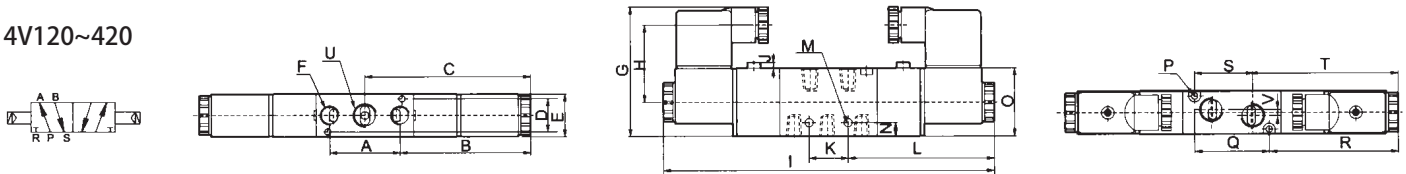


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
4V110-M5	27	14.5	28	13	18	5-M5×0.8	53.5	32.5	98	2.5	14	21	2-Φ3.3	4	27	2-Φ3.3	30	13	14	21	/	/
4V110-06	28	14	28	13	18	5-G1/8"	53.5	32.5	98	2.5	14	21	2-Φ3.3	4	27	2-Φ3.3	30	13	14	21	2	3
4V210-06	36	13.5	31.5	17	22	5-G1/8"	66.5	40	116.5	3	20	21.5	2-Φ4.3	7	35	2-Φ3.3	38	12.5	18	22.5	/	/
4V210-08	36	13.5	31.5	17	22	2-G1/4"	66.5	40	116.5	3	20	21.5	2-Φ4.3	7	35	2-Φ3.3	38	12.5	18	22.5	3-G1/4"	3
4V310-08	45	17.5	40	20	27	5-G1/4"	69	40	134.5	2.4	24	28	2-Φ4.3	6.5	40	2-Φ4.3	50	15	22	29	/	/
4V310-10	45	17.5	40	20	27	2-G3/8"	69	40	134.5	2.4	24	28	2-Φ4.3	6.5	40	2-Φ4.3	50	15	24	28	3-G3/8"	4
4V410-15	63	25.5	57	27	34	5-G1/2"	74	/	168	/	28	43	2-Φ5.5	7.5	50	2-Φ4.3	72	21	36	39	/	4

Overall Dimension

4V120~420

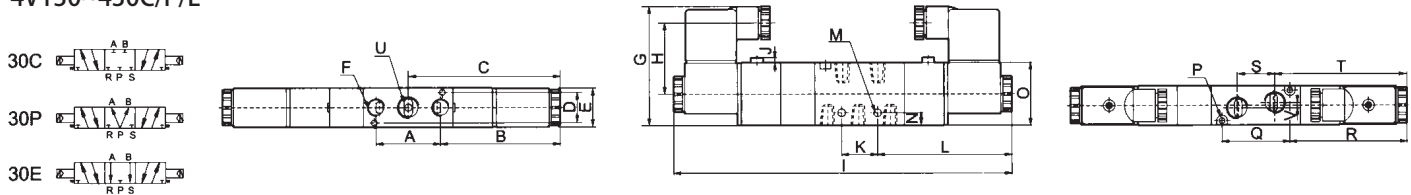


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
4V120-M5	27	56.3	69.8	13	18	5-M5×0.8	53.5	32.5	139.6	2.5	14	62.8	2-Φ3.3	4	27	2-Φ3.3	30	54.8	14.1	62.8	/	/
4V120-06	28	56	69.8	13	18	5-G1/8"	53.5	32.5	139.6	2.5	14	62.8	2-Φ3.3	4	27	2-Φ3.3	30	54.8	16	62.8	2	3
4V220-06	36	67	85	17	22	5-G1/8"	66.5	40	169.8	3	20	75	2-Φ4.3	7	35	2-Φ3	38	66	18	76	/	/
4V220-08	36	67	85	17	22	2-G1/4"	66.5	40	169.8	3	20	75	2-Φ4.3	7	35	2-Φ3.2	38	66	21	74.4	3-G1/4"	3
4V320-08	45	71.9	94.4	20	27	5-G1/4"	69	40	188.8	2.4	24	82.4	2-Φ4.3	6.5	40	2-Φ4.3	50	69.4	22	83.4	/	/
4V320-10	45	71.9	94.4	20	27	2-G3/8"	69	40	188.8	2.4	24	85.4	2-Φ4.3	6.5	40	2-Φ4.3	50	69.4	24	82.4	3-G3/8"	4
4V420-15	63	79.5	111	27	34	5-G1/2"	74	/	/	/	28	97	2-Φ5.5	7.5	50	2-Φ4.3	72	75	36	93	/	4

Overall Dimension

4V130~430C/P/E



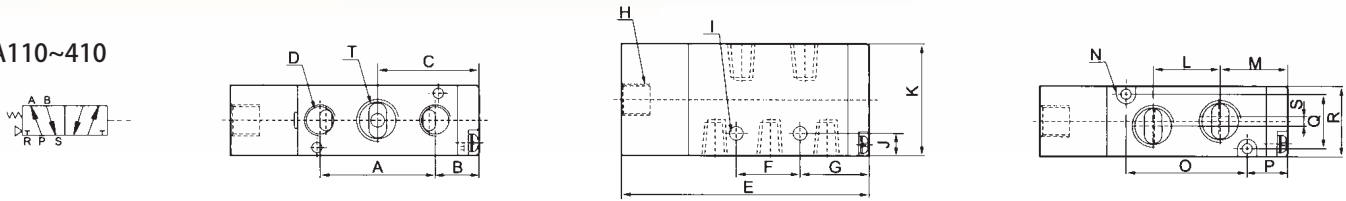
Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
4V130-M5	27	56.3	69.8	13	18	5-M5×0.8	53.5	32.5	154.6	2.5	14	62.8	2-Φ3.3	4	27	2-Φ3.3	30	54.8	14	62.8	/	/
4V130-06	28	56	69.8	13	18	5-G1/8"	53.5	32.5	154.6	2.5	14	62.8	2-Φ3.3	4	27	2-Φ3.3	30	54.8	16	62	2	3
4V230-06	36	67	84.9	17	22	5-G1/8"	66.5	40	189	3	20	75	2-Φ4.3	7	35	2-Φ3.2	38	65.9	18	75.9	/	/
4V230-08	36	67	84.9	17	22	2-G1/4"	66.5	40	189	3	20	75	2-Φ4.3	7	35	2-Φ3.2	38	65.9	21	74.4	3-G1/4"	3
4V330-08	45	71.9	94.4	20	27	5-G1/4"	69	40	208	2.4	24	82.4	2-Φ4.3	6.5	40	2-Φ4.3	50	69.4	22	83.4	/	/
4V330-10	45	71.9	94.4	20	27	2-G3/8"	69	40	207.8	2.4	24	82.4	2-Φ4.3	6.5	40	2-Φ4.3	50	69.4	24	82.4	3-G3/8"	4
4V430-15	63	79.5	111	27	34	5-G1/2"	74	/	/	/	28	97	2-Φ5.5	7.5	50	2-Φ4.3	72	75	36	93	/	4

4V series Solenoid Valve, 4A series Pneumatic Control Valve

Overall Dimension

4A110~410

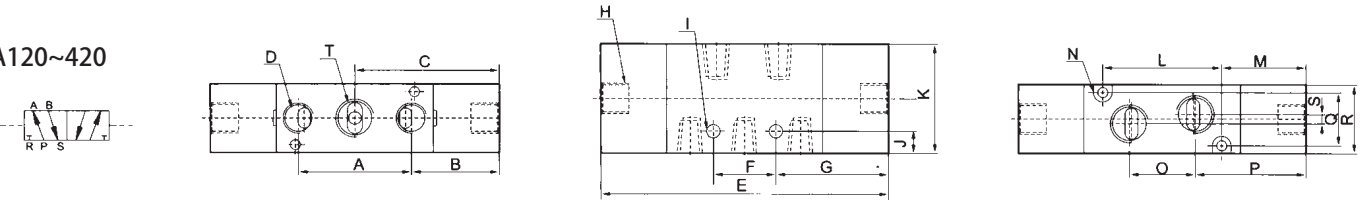


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
4A110-M5	27	14.5	28	5-M5×0.8	68.7	14	21	G1/8"	2-Φ3.3	4	27	30	13	2-∅3.3	21	14	13	18	/	/
4A110-06	28	14.2	28.2	5-G1/8"	68.7	14	21	G1/8"	2-∅3.3	4	27	30	13	2-∅3.3	20.2	16	13	18	3	2
4A210-06	36	13.5	31.5	5-G1/8"	77.7	20	21.5	G1/8"	2-∅4.3	7	35	38	12.5	2-∅3.2	22.5	18	17	22	/	/
4A210-08	36	13.5	31.7	2-G1/4"	77.7	20	21.5	G1/8"	2-∅4.3	7	35	38	12.5	2-∅3.2	21	21	17	22	3	3-G1/4"
4A310-08	45	17.5	40	5-G1/4"	95.5	24	28	G1/8"	2-∅4.3	6.5	40	50	15	2-∅4.3	29	22	20	27	/	/
4A310-10	45	17.5	40	2-G3/8"	95.5	24	28	G1/8"	2-∅4.3	6.5	40	50	15	2-∅4.3	28	24	20	27	4	3-G3/8"
4A410-15	63	25.5	57	5-G1/2"	128	28	43	G1/8"	2-∅5.5	7.5	50	72	21	2-∅4.3	39	36	27	34	4	/

Overall Dimension

4A120~420

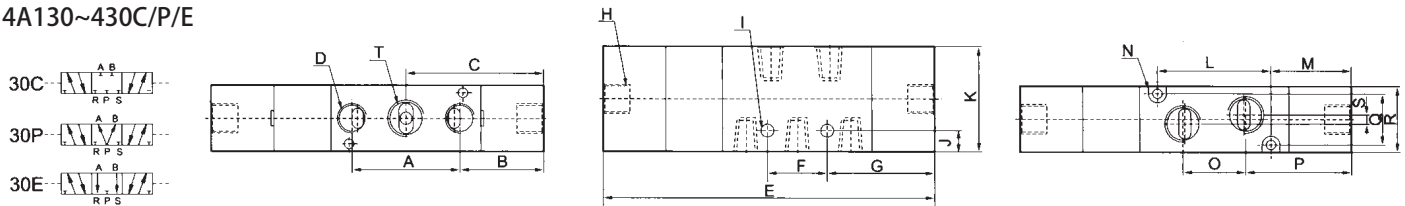


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
4A120-M5	27	27	40.5	5-M5×0.8	81	14	33.5	2-G1/8"	2-∅3.3	4	27	30	25.5	2-∅3.3	21	33.5	13	18	/	/
4A120-06	28	26.5	40.5	5-G1/8"	81	14	33.5	2-G1/8"	2-∅3.3	4	27	30	25.5	2-∅3.3	20.2	32.5	13	18	3	2
4A220-06	36	28	46	5-G1/8"	92	20	36	2-G1/8"	2-∅4.3	7	35	38	27	2-∅3.2	22.5	37	17	22	/	/
4A220-08	36	28	46	2-G1/4"	92	20	36	2-G1/8"	2-∅4.3	7	35	38	27	2-∅3.2	21	35.5	17	22	3	3-G1/4"
4A320-08	45	33	55.5	5-G1/4"	111	24	43.5	2-G1/8"	2-∅4.3	6.5	40	50	30.5	2-∅4.3	29	44.5	20	27	/	/
4A320-10	45	33	55.5	2-G3/8"	111	24	43.5	2-G1/8"	2-∅4.3	6.5	40	50	30.5	2-∅4.3	28	43.5	20	27	4	3-G3/8"
4A420-15	63	39.5	71	5-G1/2"	142	28	57	2-G1/8"	2-∅5.5	7.5	50	72	35	2-∅4.3	39	53	27	34	4	/

Overall Dimension

4A130~430C/P/E



Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
4A130-M5	27	27	40.5	5-M5×0.8	96	14	33.5	2-G1/8"	2-∅3.3	4	27	30	25.5	2-∅3.3	21	33.5	13	18	/	/
4A130-06	28	26.5	40.5	5-G1/8"	96	14	33.5	2-G1/8"	2-∅3.3	4	27	30	25.5	2-∅3.3	20.2	32.5	13	18	3	2
4A230-06	36	28	46	5-G1/8"	111	20	36	2-G1/8"	2-∅4.3	7	35	38	27	2-∅3.2	22.5	37	17	22	/	/
4A230-08	36	28	46	2-G1/4"	111	20	36	2-G1/8"	2-∅4.3	7	35	38	27	2-∅3.2	21	35.5	17	22	3	3-G1/4"
4A330-08	45	33	55.5	5-G1/4"	130	24	43.5	2-G1/8"	2-∅4.3	6.5	40	50	30.5	2-∅4.3	29	44.5	20	27	/	/
4A330-10	45	33	55.5	2-G3/8"	130	24	43.5	2-G1/8"	2-∅4.3	6.5	40	50	30.5	2-∅4.3	28	43.5	20	27	4	3-G3/8"
4A430-15	63	39.5	71	5-G1/2"	142	28	57	2-G1/8"	2-∅5.5	7.5	50	72	35	2-∅4.3	39	53	27	34	4	/