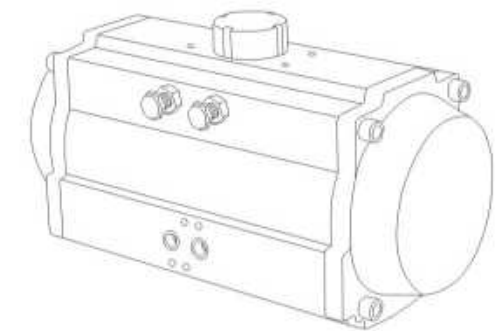


ACTUATORS SOLENOID VALVES PRODUCT CATALOGUE



 **XINGYU ELECTRON**

ACTUATORS SOLENOID VALVES



3D Show room

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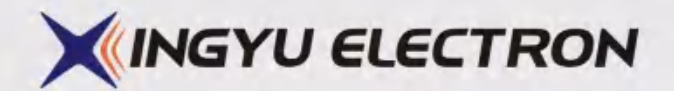
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Company Profile



XINGYU ELECTRON(NINGBO)CO.,LTD



FENGHUA XINGYU ELECTRON CO LTD is one of the key enterprises in Chinese pneumatic and valve industry. We specialize in development, manufacturing, marketing and service of pneumatic actuators, angle seat valves, solenoid valves, solenoids and DIN connectors.

Xingyu was founded in year 1990 and covers an area of 37000 m². Now we have 400 employees. Our company equips large number of CNC machines, automated assembling lines as well as other advanced equipments.

Our company is ISO9001:2008 certificated and has more than 30 national products patents; Most products are CE certificated and some are UL approved. Xingyu is the first company getting the license on Explosion proof coil production in China.

With high quality, competitive price, strict production control system and good service, our products have been selling all over the world, like UK, Germany, Russia, South Africa, India, Turkey, USA, South America, Australia, Korea and so on.

"Not to be the biggest, but to be the strongest" is our Business Goal and ideal.

We will try to make great efforts for a better future.

01



Pneumatic Actuator / Valve

83



Dust Collector Valves & Parts

35



Angle seat valve

101



Drain valves

45



Pneumatic valves

109



Steam Valve

65



2/2 Valve

119



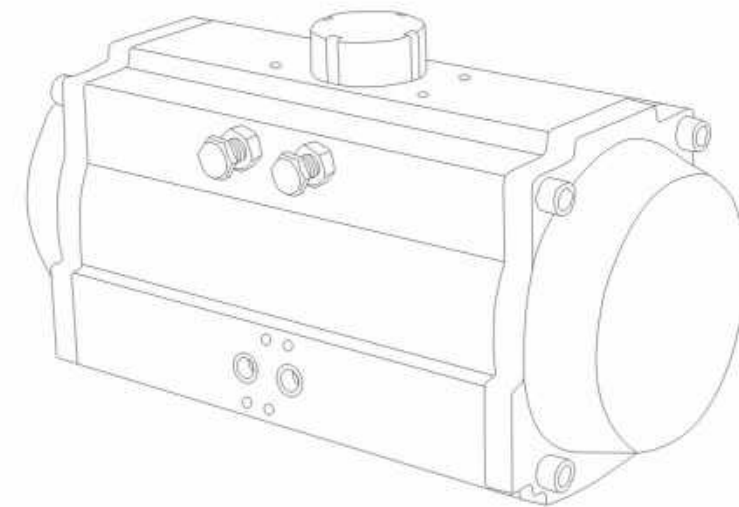
Special Solenoid Valve

Pneumatic Actuator / Valve

RAT Series Pneumatic Actuator was designed and developed based on the advanced technology and new material.

- **Pneumatic Actuator/Valve**
- Angle Seat Valve
- Pneumatic Valves
- 2/2 Valve
- Dust Collector Valves & Parts
- Drain Valves
- Steam Valve
- Special Solenoid Valve

PREMIER QUALITY
GLOBAL REPUTATION



RAT Series

RAT Series Pneumatic Actuator was designed and developed based on the advanced technology and new material.



Features

- Conform to the latest international standard: ISO5211, DIN3337, VD/VDE3845 and NAMUR.
- Excellent, compact and modernized design as well as complete specifications is good for your selection.
- All acting surfaces adopt high quality bearings, resulting in low friction, long cycle life and no noise.
- The two independent stroke adjusting devices can easily and precisely adjust at $\pm 5^\circ$ open or close.
- Double acting type and single acting type (spring return) are with the same external structure, which is easy to install the accessories.
- NAMUR standard multifunction position indicator indicates visually.
- Pre-compressed load spring is convenient for safe mounting and teardown procedures.
- Pistons and end caps are made from die-casting aluminum which has high intensity and light weight.
- Different seal materials are available for high or low temperature
- We can offer Multi-travel rotations (e.g. 120° 135° 180°) and three position actuators.
- Solenoid valves can be easily mounted without connecting plank.

Order Code

R

1

1. RFS product

AT

2

2. Actuator type

032

3

3. Size
032-400

SA

4

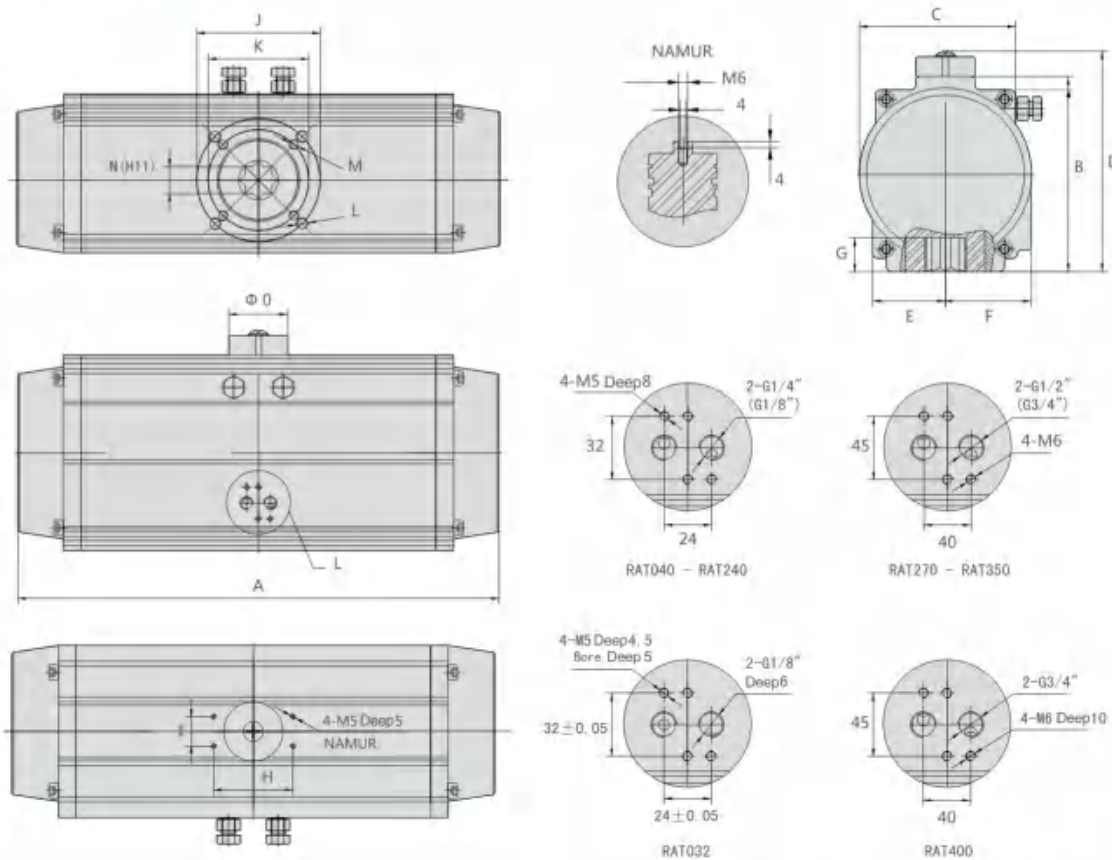
4. SA: Spring Return Type
DA: Air return type

2

5

5. Qty of Springs
2: 032-040
5-12: 052-400
(Optional only within the specification range)

The dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Airconnection
RAT032DA	112	45	51	71	22.5	28.5	12	50	25		F03/Φ36	M6X9	M5×8	9	Φ40	G1/8"
RAT032SA	142	45	51	71	22.5	28.5	12	50	25		F03/Φ36	M6×9	M5×8	9	Φ40	G1/8"
RAT040DA	124	59.5	65	86	36.4	24	14	80	30		F03/Φ36	M6×9	M5×8	11	Φ40	G1/4"
RAT040SA	149	59.5	65	86	36.4	24	14	80	30	F05/Φ50	F03/Φ36	M8×10	M5×8	11	Φ40	G1/4"
RAT052	163.5	72	73	98	26	42	14	80	30	F05/Φ50	F03/Φ36	M8×12	M5×8	11	Φ40	G1/4"
RAT063	181	87.6	80.2	113	33	47	18	80	30	F07/Φ70	F05/Φ50	M8×12	M6×9	14	Φ40	G1/4"
RAT075	207	99.4	91.6	125	38.7	52.5	20	80	30	F07/Φ70	F05/Φ50	M8×12	M6×9	14	Φ40	G1/4"
RAT083	213	108.9	98.3	134.5	40	56.5	21	80	30	F07/Φ70	F05/Φ50	M10×15	M6×9	17	Φ40	G1/4"
RAT092	258	117	109.5	143	44	59	21	80	30	F07/Φ70	F05/Φ50	M10×15	M6×10	17	Φ40	G1/4"
RAT105	287	133	127.2	158.5	52	64	24.5	80	30	F10/Φ102	F07/Φ70	M12×20	M8×12	22	Φ40	G1/4"
RAT125	342.5	154.4	138	180.5	59.7	74	29	80	30	F10/Φ102	F07/Φ70	M12×20	M8×12	22	Φ40	G1/4"
RAT140	411	173.7	158.3	200	65	77	32	80	30	F12/Φ125	F10/Φ102	M16×22	M10×15	27	Φ50	G1/4"
RAT160	488	198	188.7	224	73.8	86.7	34.5	80	30	F12/Φ125	F10/Φ102	M16×24	M10×15	27	Φ60	G1/4"
RAT190	525	232	189	260	103	103	40	130	30	Φ190		M20×26		36	Φ80	G1/4"
RAT210	537	254	210	285	113	113	50	130	30	Φ210		M20×26		36	Φ80	G1/4"
RAT240	607	290	245	319	130	130	50	130	30	Φ240		M20×26		46	Φ80	G1/4"
RAT270	717	330	273	358	147	147	50	130	30	Φ270		M20×26		46	Φ80	G1/2"
RAT300	777	355	290	378	203	203	60	130	30	Φ300		M20×26	M20×25	46	Φ80	G1/2"
RAT350	888	408	336	438	230	230	60	130	30	Φ350			M20×25	55	Φ80	G1/2"
RAT400	930	480	360	510	258	258	60	130	30	Φ400			M20×25	55	Φ80	G1/2"

Note: A120 and A180 means the acting length of 120° and 180° of rotary respectively.

» Output torque of RAT spring return actuator

Output torque of Air supply N·m														Spring stroke N·m	
Air pressure (bar)		3		4		5		6		7		8		9	
Model	Spring qty	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
RAT032SA	2					4.76	0.92	6.26	2.42	7.26	3.42	2.74	6.58		
RAT040SA	2					7.59	1.18	9.93	3.52	11.5	5.09	4.13	10.54		
RAT052SA	5	8.48	6.28	12.64	10.44							4	6.2		
	6	7.68	4.98	11.84	9.14							4.8	7.5		
	7	6.98	3.78	11.14	7.94							5.5	8.7		
	8			10.34	6.74	14.5	10.9					6.3	9.9		
	9			9.54	5.44	13.7	9.6					7.1	11.2		
	10			8.74	4.24	12.9	8.4	17.06	12.56			7.9	12.4		
	11					12.1	7.1	16.26	11.26	20.42	15.42	8.7	13.7		
RAT063SA	12					11.3	5.9	15.46	10.06	19.62	14.22	9.5	14.9		
	5	15	11.2	22.3	18.5	29.6	25.8					7	10.8		
	6	13.5	9	20.8	16.3	28.1	23.7					8.5	12.95		
	7	12	6.9	19.4	14.2	26.7	21.5					9.9	15.1		
	8			18	12	25.3	19.3	32.6	26.6			11.3	17.3		
	9			16.5	9.9	23.9	17.2	31.2	24.52			12.7	19.4		
	10			15.3	7.7	22.6	15	29.9	22.3	37.2	29.6	14	21.6		
RAT075SA	11			13.8	5.6	21.1	12.9	28.4	20.2	35.7	27.5	15.5	23.7		
	12					19.7	10.7	27	18	34.3	25.3	16.9	25.9		
	5	23.4	17.8	35.1	29.5							11.9	17.5		
	6	21.1	14.3	32.8	26							14.2	21		
	7	18.7	10.8	30.4	22.5							16.6	24.5		
	8			28	19	39.8	30.8					19	28		
	9			25.7	15.5	37.5	27.3					21.3	31.5		
RAT083SA	10			23.3	12	35.1	23.8	46.8	35.5	58.6	47.3	23.7	35		
	11					32.7	20.3	44.4	32	56.2	43.8	26.1	38.5		
	12					30.4	16.8	42.1	28.5	53.9	40.3	28.4	42		
	5	30.9	23.8	46.1	38.9							14.5	21.7		
	6	28.1	19.5	43.3	34.6							17.39	26		
	7	25.2	15.1	40.3	30.2							20.3	30.4		
	8			37.4	25.9	52.6	41.1					23.2	34.7		
RAT092SA	9			34.5	21.5	49.7	36.7					26.1	39.1		
	10			31.6	17.2	46.8	32.4	62	47.6	77.1	62.7	29	43.4		
	11					43.9	28.1	59.1	43.3	74.2	58.4	31.9	47.7		
	12					41	23.7	56.2	38.8	71.3	54	34.78	52.08		
	5	45.7	34.7	68.6	57.6							22.5	33.5		
	6	41.2	28	64.1	50.9							27	40.2		
	7	36.7	21.4	59.6	44.3							31.5	46.8		
RAT105SA	8			55.1	37.6	77.7	60.2					36	53.5		
	9			50.6	30.8	73.2	53.4					40.5	60.3		
	10			47.1	26.1	69.7	48.7	92.4	71.4	115.2	94.2	44	65		
	11					64.2	40	86.9	62.7	109.7	85.5	49.5	73.7		
	12					59.7	33.5	82.4	56.2	105.2	79	54	80.2		
	5	68.6	52	103.6	87							33.2	49.8		
	6	61.9	42	96.9	77							39.9	59.8		
RAT125SA	7	55.3	32.1	90.3	67.1							46.5	69.7		
	8			83.7	57.1	116.6	90					53.1	79.7		
	9			77	47.4	109.9	80.3					59.8	89.4		
	10			70.4	37.2	103.3	70.1	137.3	104	171.2	138	66.4	99.6		
	11					96.7	60.1	130.6	94	164.6	128	73	109.6		
	12					90	50.2	123.9	64.1	157.9	118.1	79.7	119.5		
	5	115.5	88	173.8	146.3							59.4	86.9		
RAT140SA	6	103.6	70.6	161.9	128.9							71.3	104.3		
	7	91.8	53.5	150.1	111.6							83.1	121.6		
	8			138.2	94.2	196.5	152.5					95	139		
	9			126.3	76.8	184.6	135.1					106.9	156.4		
	10			114.4	59.4	172.7	117.7	231	176			118.8	173.8		
	11					160.9	100.4	219.2	158.7	277.5	217	130.6	191.1		
	12					149	83	207.3	141.3	265.6	199.6	142.5	208.5		

» Output torque of RAT spring return actuator

Air pressure (bar)		Output torque of Air supply N·m										Spring stroke N·m		
		3		4		5		6		7				
		Model	Spring qty	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start
RAT140SA	5	174.7	131.2	262.5	219								88.5	132
	6	157	104.8	244.8	192.6								106.2	158.4
	7	133.9	78.4	227.1	166.2								123.9	184.8
	8			209.4	139.8	297.1	227.5						141.6	211.2
	9			191.7	113.4	279.4	201.1						159.3	237.6
	10			174	87	261.7	174.7	349.4	262.4	437.8	350.1	177	264	
	11					244	148.3	331.7	236	419.5	323.8	194.7	290.4	
	12					226.3	121.9	314	209.6	401.8	297.4	212.4	316.8	
RAT160SA	5	264.6	197.1	398.3	330.8								136.5	204
	6	237.3	156.2	371	289.9								163.8	244.9
	7	210	115.4	343.7	249.1								191.1	285.7
	8	182.7	74.6	316.4	208.3	450.1	341.9						218.4	326.5
	9			289.1	167.5	422.8	301.2						245.7	367.3
	10			261.8	126.7	395.5	260.4	529.2	394.1				273	408.1
	11					368.2	219.6	501.9	353.3	635.6	487	300.3	448.9	
	12					340.9	178.8	474.6	312.5	608.3	446.2	327.6	489.7	
RAT190SA	5	429	320.4	644.5	535.9								217.4	326
	6	385.5	255.5	601	470.7								260.9	391.2
	7	342	190	557.5	405.5								304.4	456.4
	8			514	340.3	729.5	555.8						347.9	521.6
	9			470.6	275.1	686.1	490.6						391.3	586.8
	10			427.1	209.9	642.6	425.4	858.1	640.9	1073.6	856.4	434.8	652	
	11					599.1	360.2	814.6	575.7	1030.1	791.2	478.3	717.2	
	12					555.6	295	771.1	510.5	986.6	726	521.8	782.4	
RAT210SA	5	589.6	440.6	885.7	736.7								298.8	447.8
	6	529.8	351.1	825.9	647.2								358.6	537.3
	7	470.1	261.5	766.2	557.6								418.3	626.9
	8			706.4	468.1	1002.5	764.2						478.1	716.4
	9			646.7	375.5	942.8	671.6						537.8	809
	10			586.9	289	883	585.1	1179.1	881.2	1475.2	1177.3	597.6	895.5	
	11					823.2	495.5	1119.3	791.6	1415.4	1087.7	657.4	958.1	
	12					763.5	406	1059.6	702.1	1355.7	998.2	717	1074.6	
RAT240SA	5	924	690.5	1488.1	1154.6								468.5	702
	6	829.9	550.1	1294	1014.2								562.6	842.4
	7	736.7	409.7	1200.8	873.8								655.8	982.8
	8			1107.1	733.4	1571.3	1197.6						749.5	1123.2
	9			1013.4	593	1477.6	1057.2						843.2	1263.6
	10			919.7	452.6	1383.9	916.8	1848.1	1381	2312.2	1845.1	936.9	1404	
	11					1290.2	776.4	1754.4	1240.6	2218.5	1704.7	1030.6	1544.4	
	12					1196.5	636	1660.7	1100.2	2124.8	1564.3	1124.3	1684.8	
RAT270SA	5	1299.7	971.2	1952.4	1623.9								658.5	987
	6	1168	773.8	1820.7	1426.5								790.2	1184.4
	7	1036.3	576.4	1689	1229.1								921.9	1381.8
	8			1557.3	1031.7	2210	1684.4						1053.6	1579.2
	9			1425.6	834.3	2078.3	1487						1185.3	1776.6
	10			1293.9	636.9	1946.6	1289.6	2599.3	1942.3	3252	2595	1317	1974	
	11					1814.9	1092.2	2467.6	1744.9	3120.3	2397.6	1448.7	2171.4	
	12					1683.2	894.8	2335.9	1547.5	2988.6	2200.2	1580.4	2368.8	

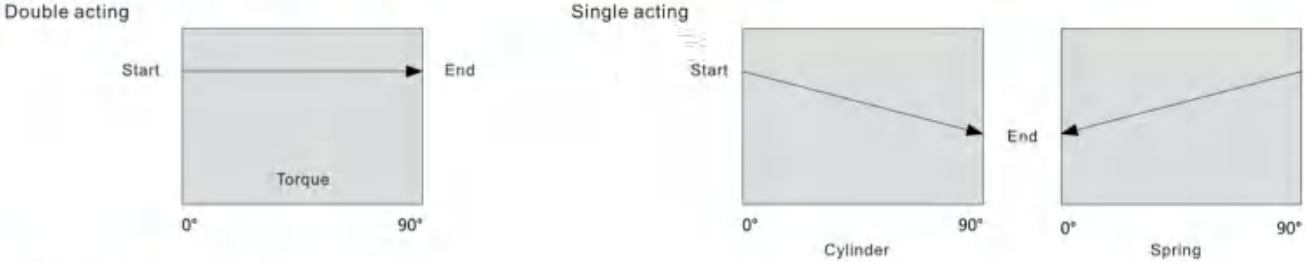
» Output torque of RAT spring return actuator

Output torque of Air supply N m													
Air pressure (bar)		3		4		5		6		7		Spring stroke N m	
Model	Spring qty	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
RAT300SA	5	1603	1183									800	1220
	6	1483	1066									920	1337
	7	1330	844	2132	1646							1073	1559
	8	1177	621	1979	1423	2780	2224					1226	1782
	9			1825	1201	2626	2002	3427	2803			1380	2004
	10			1652	977	2473	1778	3274	2579	4075	3380	1533	2228
	11					2320	1556	3121	2357	3922	3158	1686	2450
RAT350SA	12					2014	1077	2815	1878	3686	2679	1922	2929
	5	2399	1739									1199	1859
	6	2120	1453									1478	2145
	7	1874	1096	3074	2296							1724	2502
	8	1627	738	2827	1938	4027	3138					1971	2860
	9			2580	1581	3780	2781	4979	3980			2218	3217
	10			2335	1223	3535	2423	4734	3622	5934	4822	2463	3575
RAT400SA	11					3288	2066	4487	3265	5687	4465	2710	3932
	12					3120	1537	4319	2736	5519	3936	2878	4461
	5	3418	2479									1709	2648
	6	2922	1670									2205	3457
	7	2647	1239	4357	2949							2480	3888
	8	2372	806	4082	2516	5191	4225					2755	4321
	9			3806	2085	5515	3794	7224	5503			3031	4752
RAT400SA	10			3531	1652	5240	3361	6949	5070	8658	6779	3306	5185
	11					4963	2930	6672	4639	8381	6348	3583	5616
	12					4445	2190	6154	3899	8106	5608	4101	6356

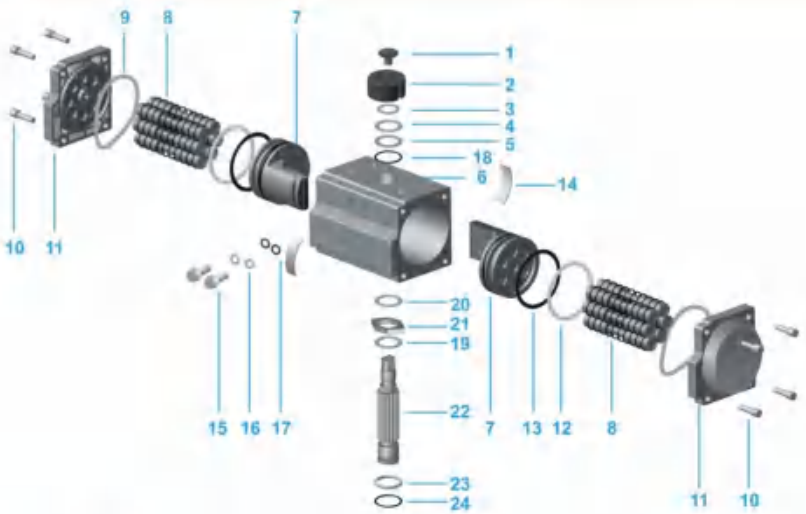
» Output torque of RAT spring return actuator

Model		Air pressure (bar)					
		2	3	4	5	6	7
RAT 032DA		2.78	4.20	6.00	7.50	9.00	10.00
RAT 040DA		4.44	6.56	9.83	11.72	14.06	15.63
RAT 052DA		8.32	12.48	16.64	20.8	24.96	29.12
RAT 063DA		14.64	21.96	29.28	36.6	43.92	51.24
RAT 075DA		23.5	35.3	47	58.8	70.5	82.3
RAT 083DA		29.7	44.5	59.4	74.2	89.1	103.9
RAT 092DA		45.5	68.2	91.1	113.7	136.4	159.2
RAT 105DA		67.88	101.82	136.76	169.7	203.64	237.58
RAT 125DA		116.6	174.9	233.2	291.5	349.8	408.1
RAT 140DA		175.48	263.22	350.96	438.7	526.44	614.18
RAT 160DA		267.4	401.1	534.8	668.5	802.2	935.9
RAT 190DA		430.96	646.44	861.9	1077.4	1292.9	1508.4
RAT 210DA		592.2	888.4	1184.5	1480.6	1776.7	2072.8
RAT 240DA		831.9	1220.8	1627.8	2030.7	2444.6	2848.6
RAT 270DA		1305.4	1958.2	2610.9	3263.6	3916.3	4569
RAT 300DA		1602	2403	3205	4006	4807	5608
RAT 350DA		2399	3598	4798	5998	7197	8397
RAT 400DA		3418	5127	6837	8546	10255	11964

» Torque diagram of actuator

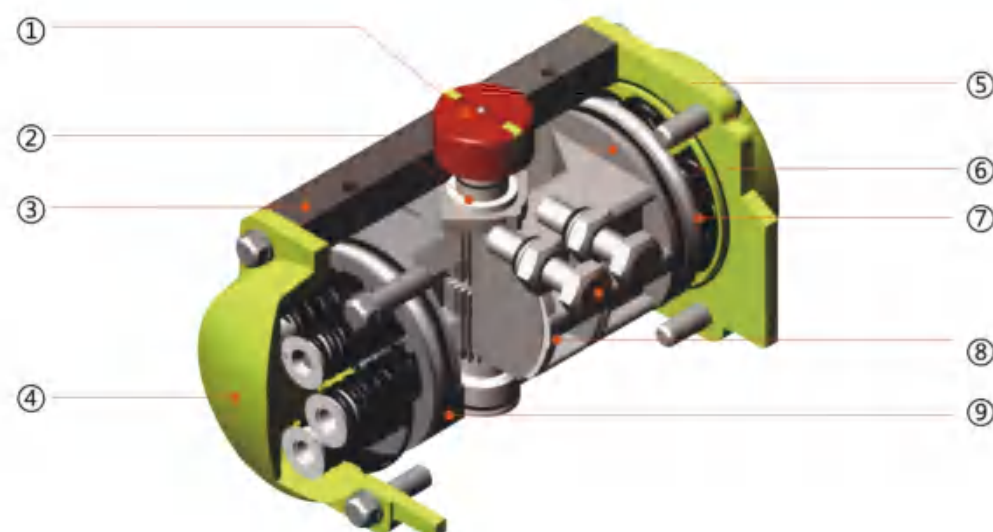


» Parts and Material



No	Description	Qty	Material	Anti-corrode treatment	Optional Material	Wearing parts
1	Indicator screw	1	PA66+SS			
2	Indicator	1	POM			
3	Spring clip	1	Circlip			
4	Washer	1	Stainless steel			
5	Outside washer	1	PTFE			
6	Body	1	Aluminum alloy	Hard anodized etc.		
7	Piston	2	Cast aluminum	Hard anodized	Stainless steel	
8	Spring assembly	*	60Si2Mn2 + PA66	Dip coating		
9	End cap O-ring	2	NBR/HNBR/FKM		Viton / Silicone	X
10	Cap screw	8	Stainless steel			
11	End cap	2	Cast aluminum	Powder spraying etc		
12	Bearing (Piston)	2	PTFE			
13	O-ring(Piston)	2	NBR/HNBR/FKM		Viton / Silicone	X
14	Guide (Piston)	2	POM		PTFE	
15	Adjusting bolt	2	Stainless steel			
16	Adjusting screw nut	2	Stainless steel			
17	O-ring (adjusting nut)	2	NBR/HNBR/FKM		Viton / Silicone	
18	O-ring (pinion top)	1	NBR/HNBR/FKM		Viton / Silicone	X
19	Bearing(pinion top)	1	PTFE			X
20	Inside washer	1	PTFE			
21	Cam	1	Stainless iron			
22	Pinion	1	Alloy steel		Stainless steel	
23	Bearing(pinion bottom)	1	PTFE	Nickel plated		
24	O-ring (pinion bottom)	1	NBR/HNBR/FKM		Viton / Silicone	X

Parts Introduction



① Indicator

NAMUR standard indicator is convenient for mounting accessories such as Limit switch box, Positioner and so on

③ Actuator Body

According to the different requirements, the extruded aluminum alloy ASTM6005 body can be treated with hard anodized, powder polyester painted (different colors like blue, orange, yellow and so on are available), PTFE or Nickel plated.

⑤ Pistons

The twin rack pistons are made from Die-casting aluminum treated with hard anodized or made from Cast steel with galvanization. Symmetric mounting position, long cycle life and fast operation, reversing rotation by simply inverting the pistons.

⑦ High performance springs

Preloaded coating springs are made from the high quality material for resistant to corrosion and long service life, which can be demounted safely and conveniently to satisfy different requirements of torque by changing quantity of springs.

⑨ O-rings

Normal: NBR
High temp. & low temp. : Viton or Silicone

② Actuator Shaft

Nickel plated alloy steel and high-precision shaft conforms to NAMUR, ISO5211 and DIN3337 standard. The dimensions and stainless steel one can be customized.

④ End Caps

Die-casting aluminum powder polyester can be painted in different colors, PTFE coated or Nickel plated.

⑥ Stroke adjustment

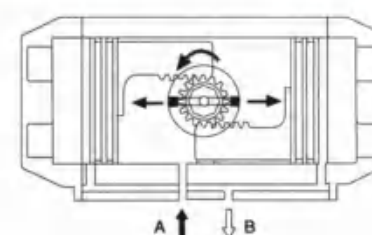
The two independent external stroke adjustment bolts can adjust $\pm 5^\circ$ at both open and close directions easily and precisely.

⑧ Bearings and Guides

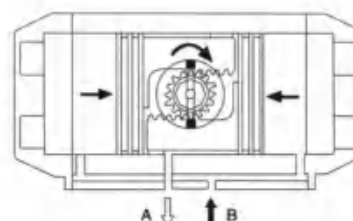
Made from low friction and long-life compound material which to avoid the direct contact between metals and also easy to be maintained.

Operating Principle

Double action

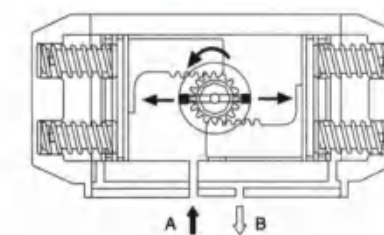


Input the air into Port A forces the pistons move outwards, the pinion turns counterclockwise and open the valve, then the air be exhausted from Port B.

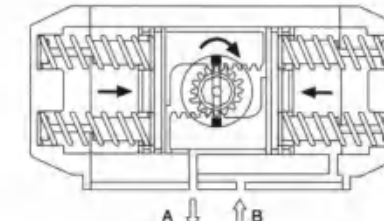


Input the air into Port B forces the pistons move inwards, the pinion turns clockwise and close the valve, then the air be exhausted from Port A.

Single acting



Input the air into Port A forces the pistons move outwards, the pinion turns counterclockwise and open the valve, then the air be exhausted from Port B.



When loss air pressure or power, the stored energy in the springs forces the pistons inwards, causing the pinion turns clockwise while air be exhausted from Port.

Note: 1. The standard rotation is clockwise for closing the valve and counterclockwise for opening. 2. If the direction of the piston is assembled reversely, then the standard rotation is counterclockwise for closing the valve and clockwise for opening.

The function and usage of the actuator and the parts

- Double action actuator: open and close the valve
- Single action actuator (spring return): when the air is cut off, it will close (normal close type)
- Double control solenoid valve: the valve open when one solenoid coil power on and close when another coil power on, it has memory function. (Ex-proof type is available)
- Single control solenoid valve: the valve open or close when power on, and close or open when power off. (Ex-proof type is available).
- Limit switch box: transmit the signal of open or close of the valve remotely. (Ex-proof type is available)
- Pneumatic positioner: control the medium flow rate of the valve according to air pressure (0.2~1bar) (Ex-proof type is available)
- Electric positioner: control the medium flow rate of the valve according to electric current (4-20mA) (Ex-proof type is available)
- Electric-pneumatic transducer: transduce current signal to air pressure signal for compatibility with positioner.
- FRL: includes filter, regulation and lubrication which can clean and lubricate the connection parts
- Manual equipments: manual operate on the valve in case of the cut off or stoppage of the air or power.

How to choose

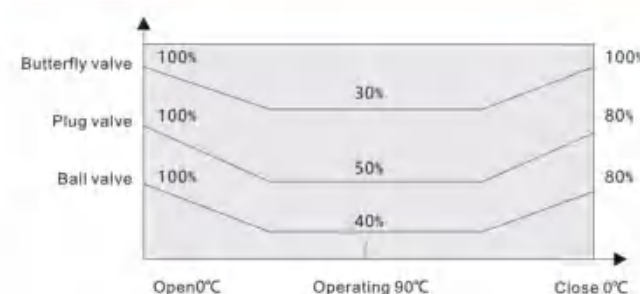
Firstly, confirm the torque that will need during the open or close of the valve. Normally the safety factor is 15~20%. If the medium is steam or non-lubricated liquid, then set it to 25%. The safety factor for non-lubricated slurry liquid is 40% and for non-lubricated granule powder is 80%. Then check output torque table form of double action or single action, you can get a right model. On the output torque table of single action actuator, the torque on the line of spring stroke is the torque of closing the valve.

» Example

Firstly, confirm the torque that will need during the open or close of the valve. Normally the safety factor is 15~20%. If the medium is steam or non-lubricated liquid, then set it to 25%. The safety factor for non-lubricated slurry liquid is 40% and for non-lubricated granule powder is 80%. Then check output torque table form of double action or single action, you can get a right model. On the output torque table of single action actuator, the torque on the line of spring stroke is the torque of closing the valve.

» Sample of choosing single action actuators

During the selecting of the spring return actuators, we can choose a more reasonable and economical actuator if we know the different torque of valve on opening, operation and closing.



Example

A butterfly valve need torque=80N.m
The max torque needed by the butterfly valve $80(1+30\%) = 104\text{N.m}$
The torque after opened (operating) $104 \times 30\% = 32\text{N.m}$
Air supply=4bar
We can select RAT125 SA K10

- Air stroke $0^\circ = 114.4\text{N.m} > 104\text{N.m}$
- Air stroke $90^\circ = 59.4\text{N.m} > 32\text{N.m}$
- Spring stroke $90^\circ = 173.8\text{N.m} > 32\text{N.m}$
- Spring stroke $0^\circ = 118.8\text{N.m} > 104\text{N.m}$
- The above data shows the actuator's torque can satisfy the requirement of the butterfly valve.

Attention: During the restoration, the spring return actuator's torque will not be affected by inputting air from port B. On the contrary, it will help restoration of springs.

» Air consumption

Air volume opening & closing					
Model	Air volume opening(L)	Air volume closing(L)	Model	Air volume opening(L)	Air volume closing(L)
RAT032	0.035L	0.045L	RAT140	1.7L	2.4L
RAT040	0.062L	0.082L	RAT160	2.6L	3.7L
RAT052	0.09L	0.12L	RAT190	4.2L	5.9L
RAT063	0.14L	0.2L	RAT210	5.7L	8.2L
RAT075	0.21L	0.3L	RAT240	9L	12.8L
RAT083	0.29L	0.41L	RAT270	12.6L	17.9L
RAT092	0.49L	0.71L	RAT300	21.4L	30L
RAT105	0.7L	0.99L	RAT350	31.2L	43.7L
RAT125	1.4L	1.6L	RAT400	47.9L	67.1L

- Air consumption of double action actuator (L/min) = air volume (air volume opening + air volume closing) x (air supply (kpa) + 101.3) ÷ 101.3 x action cycle time (/min).
- Air consumption of single action actuator (L/min) = air volume opening x (air supply (kpa) + 101.3) ÷ 101.3 x action cycle time (/min).

» The weight of actuator

Model	Weight(kg)	Spring weight(kg)	Model	Weight(kg)	Spring weight(kg)
RAT032DA	0.65	0.016	RAT140DA	14.88	0.24
RAT040DA	1	0.0252	RAT160DA	22.98	0.37
RAT052DA	1.52	0.104	RAT190DA	40.5	0.5
RAT063DA	2.28	0.198	RAT210DA	43.5	0.5
RAT075DA	3.12	0.02	RAT240DA	65.5	1.3
RAT083DA	3.48	0.434	RAT270DA	91	1.6
RAT092DA	5	0.06	RAT300DA	114.5	2.25
RAT105DA	6.52	0.08	RAT350DA	160.5	4
RAT125DA	10.12	0.15	RAT400DA	283	5.12

» Operating conditions

Working medium

- Dry or lubricated air or inert gas, as long as the medium is compatible with the inside parts and lubricant of the actuator.
- The dew-point temperature of the operating media is -20°C . The dimension of the impurity particle cannot be larger than 30μ .
- If the positioner is needed, the dimension of impurity particle cannot be larger than 5μ .

Air pressure

- 3bar to 8bar

Working temperature

- Standard: $-5^\circ\text{C} \sim +80^\circ\text{C}$
- Low temperature type: $-40^\circ\text{C} \sim +80^\circ\text{C}$
- High temperature type: $-10^\circ\text{C} \sim +150^\circ\text{C}$

Lubrication

- Usually the standard types no need to use lubricant. In the low temperature or high temperature occasion, it will need special lubricant.

» Three position actuator

Three position actuator provides an operation of 0° , 45° , 90° or the random travel of middle position. The middle position is achieved by the mechanical brake which is caused by the movement of the two auxiliary pistons. It is adjustable.

How to order

- Pneumatic actuators: double acting or spring return type (normal close or normal open)
- Please note the working pressure of the valve, working medium, working temperature and the seals.
- Solenoid valve: please note whether you need double coil or single coil, voltage and Ex-proof or not.
- Signal feedback: mechanical or approachable switch, voltage, output current and ex-proof type.
- Positioner: pneumatic positioner, electric positioner, current signal, voltage, electrical converter, ex-proof type.
- FRL
- Manual device
- Special one can be customized

Quality Assurance

- Each actuator is tested and checked before delivery.
- Each actuator has a QC passed label.
- Each actuator is with the standard NUMAR connection and mounting size.
- Each actuator is packed by the carton.

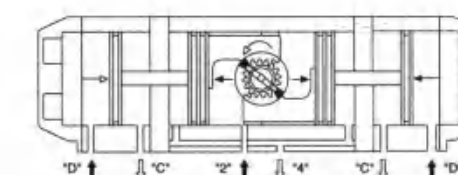


Chart 1: it is middle position, which is achieved when the air is supplied to port 2 and port D, meantime port 4 and port C are in a state of exhaust air. When the air is supplied to port D, it forces the auxiliary pistons move to the center, and make the inner pistons stopped at the setted position.

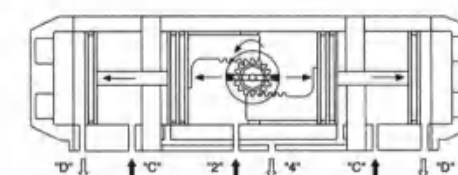


Chart 2: it is fully open position, which is achieved when the air is supplied to port 2 and port C (air to port C is optional), meantime port 4 and port D are in a state of exhaust air.

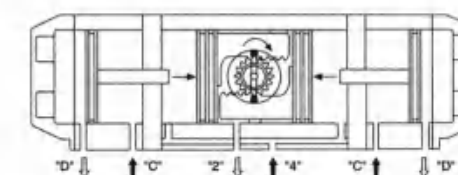


Chart 3: it is fully close position, which is achieved when the air is supplied to port 4 and port 2 is in a state of exhaust air. No need to operate port C and Port D.

Common problems and the solutions

Common problems	Checking Item	Solution
Pneumatic valve does not work	1. Check if the solenoid valve works normally? Is the solenoid coil failure? If the armature of the solenoid valve is jammed by impurity?	Replace the solenoid valve or coil and remove the impurity.
	2. Test the pneumatic actuator with air supply to check if the o-ring and cylinder are broken.	Replace the broken o-ring and cylinder.
	3. Is impurity blocking the valve?	Clean out the impurity, replace the broken parts.
	4. Is the handle of the manual device at the manual state?	Put the handle to the pneumatic state.
Acting slowly	1. Is the air supply pressure insufficient?	Increase the air pressure (0.4~0.7Mpa).
	2. Is the output torque of pneumatic actuator not enough?	Select a bigger model of the pneumatic actuator.
	3. Is the valve stem or other parts assembled too tight?	Re-assemble and adjust the valve.
	4. Is the air supply pipe blocked making the air flow too small?	Clean out the block and replace the filter stem.
The feedback has no signal	1. Check if the power is short circuit or open circuit.	Examine and repair the circuit.
	2. Is the cam of the feedback in the incorrect position?	Adjust the cam to the correct position.
	3. Is the micro switch broken?	Replace the micro switch.

RBV Series

Unique design and high platform structure. ISO5211 connection, easy to be installed.



Features

- Unique design and beautiful appearance.
- High platform structure and ISO5211 connection, makes the installation of electric or pneumatic actuator to be more professional.
- Valve body is overlaid with reinforced bar, which can be permanently used in corrosion medium, and keep away from the cracking and failure during the installation.
- Grinding process of the valve stem reduces the torque of electric or pneumatic valve during the installation.
- The valve body of carbon steel is phosphate coated, which won't be discolored and rusty. It is durable and beautiful.

Order Code

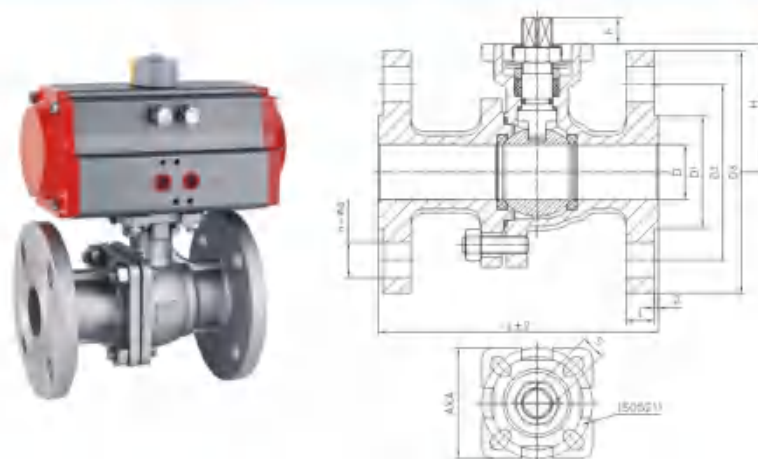
R	BV	P	4	1	—		—	15	Z
1	2	3	4	5		6		7	8
1. RFS product		5. Structure		7. Nominal diameter					
2. Ball valve		1: 1 Straight bore		08:1/4"		50:2"			
3. Type		2: Y 3-way Y type		10:3/8"		65:2-1/2"			
P: Pneumatic		4: L 3-way L type		15:1/2"		80:3"			
L: Lever		5: T 3-way T type		20:3/4"		100:4"			
E: Electric		6. Tandem structure		25:1"		125:5"			
4. Connection		1: 1PCS type		32:1-1/4"		150:6"			
1: Female thread connection		2: 2PCS type		40:1-1/2"					
2: Male thread connection		3: 3PCS type				8. Valve body material			
4: Flanged connection		Blank: Other				Z: CI			
7: Wafer Type						Q: DI			
8: Clamp type						P: Stainless steel 304			
						R: Stainless steel 316			
						C: Carbon steel			

Pneumatic ANSI Flange Ball valve

Features

The nominal pressure: PN 1.6, 2.5MPa
 Strength test pressure: PT2.4/8MPa
 Seal test pressure (low pressure): 0.6MPa
 Suitable medium: Water,oil,Gas,Nitric acid,Acetic acid
 Suitable temperature: PTFE: -20℃~+150℃
 PPL: -20℃~+200℃
 (WCB, CF8, CF8M, Ti, Ni)

GB: china national Standard



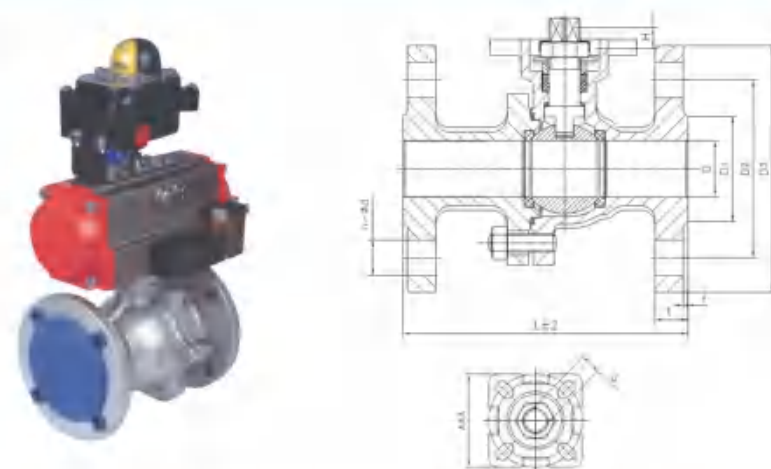
Model	INCH	DN	D	L	H	A	D1	D2	D3	ISO5211	t	n-φd	S	h	Actuator
RBVP41-3-15-ANSI	1/2"	15	15	108	48	43	34.9	60.3	90	F03/F04	9.6	4-φ15.9	9	8.5	RAT052DA
RBVP41-3-20-ANSI	3/4"	20	20	117	53	43	42.9	69.9	100	F03/F04	11.2	4-φ15.9	9	9.5	RAT052DA
RBVP41-3-25-ANSI	1"	25	25	127	58	50	50.8	79.4	110	F04/F05	12.7	4-φ15.9	11	11	RAT063DA
RBVP41-3-32-ANSI	1-1/4"	32	32	140	62	50	63.5	88.9	115	F04/F05	14.3	4-φ15.9	11	12	RAT063DA
RBVP41-3-40-ANSI	1-1/2"	40	38	165	75	68	73	98.4	125	F05/F07	15.9	4-φ15.9	14	16.5	RAT075DA
RBVP41-3-50-ANSI	2"	50	50	178	85	68	92.1	120.7	150	F05/F07	17.5	4-φ19.1	14	16.5	RAT083DA
RBVP41-3-65-ANSI	2-1/2"	65	65	190	104	96	104.8	139.7	180	F07/F10	20.7	4-φ19.1	17	20	RAT092DA
RBVP41-3-80-ANSI	3"	80	78	203	114	96	127	152.4	190	F07/F10	22.3	4-φ19.1	17	20	RAT105DA
RBVP41-3-100-ANSI	4"	100	95	229	135	96	157.2	190.5	230	F07/F10	22.3	8-φ19.1	19	22.5	RAT125DA

Pneumatic Din Flange Ball Valve

Features

The nominal pressure: PN 1.6, 2.5MPa
 Strength test pressure: PT 3.0/7.5MPa
 Seal test pressure (low pressure): 0.6MPa
 Suitable medium: Water,oil,Gas,Nitric acid,Acetic acid
 Suitable temperature: PTFE: -20℃~+150℃
 PPL: -20℃~+200℃
 (WCB, CF8, CF8M, Ti, Ni)

Ansi: American Standard



Model	INCH	DN	D	L	S	D1	D2	D3	t	f	n-φd	ISO5211	H	Actuator
RBVP41-2-15-GB	1/2"	15	15	130	9	45	65	95	14	2	4-φ14	F03/F04	10.5	RAT052DA
RBVP41-2-20-GB	3/4"	20	20	140	9	55	75	105	14	2	4-φ14	F03/F04	10.7	RAT052DA
RBVP41-2-25-GB	1"	25	25	150	11	65	85	115	14	2	4-φ14	F04/F05	11	RAT063DA
RBVP41-2-32-GB	1-1/4"	32	32	165	11	78	100	135	16	2	4-φ18	F04/F05	11.5	RAT063DA
RBVP41-2-40-GB	1-1/2"	40	38	180	14	85	110	145	16	2	4-φ18	F05/F07	17	RAT075DA
RBVP41-2-50-GB	2"	50	50	200	14	100	125	160	16	3	4-φ18	F05/F07	17	RAT083DA
RBVP41-2-65-GB	2-1/2"	65	65	220	17	120	145	180	18	3	4-φ18	F07/F10	20	RAT092DA
RBVP41-2-80-GB	3"	80	76	250	17	135	160	195	20	3	8-φ18	F07/F10	20	RAT105DA
RBVP41-2-100-GB	4"	100	100	280	19	155	180	215	20	3	8-φ18	F07/F10	22.5	RAT125DA

Pneumatic Female Thread 3-part Ball Valve

Features

Screw type: NPT, BSPT, BSP
 ISO-228 Class A Thread
 Temperature range: PTFE: -20℃~+150℃
 PPL: -20℃~+200℃
 Suitable medium: Water, oil, Air and some corrosive liquid
 Nominal pressure: 1000PSI (PN63) For 1/2"~4"
 Blowout proof stem
 Locking device
 Material: CF8M (DIN 1.4408),
 CF8 (DIN 1.4308),
 WCB (DIN 1.0619)
 (WCB, CF8, CF8M/I, Ti, Ni)

The actuator needs to be replaced for the PN64

Model	INCH	DN	d	L	h1	h2	ISO5211	A	S	Actuator
RBVP11-3-15	1/2"	15	15	75	39	10.5	F03/F04	42	9	RAT052DA
RBVP11-3-20	3/4"	20	20	80	44	10.5	F03/F04	42	9	RAT052DA
RBVP11-3-25	1"	25	25	90	52	11	F04/F05	50	11	RAT052DA
RBVP11-3-32	1-1/4"	32	32	110	56	11.5	F04/F05	50	11	RAT063DA
RBVP11-3-40	1-1/2"	40	38	120	65	17	F05/F07	70	14	RAT075DA
RBVP11-3-50	2"	50	49	140	75	17	F05/F07	70	14	RAT083DA
RBVP11-3-65	2-1/2"	65	64	177	105.5	19.5	F07/F10	95	17	RAT092DA
RBVP11-3-80	3"	80	80	209	118	19.5	F07/F10	95	17	RAT105DA
RBVP11-3-100	4"	100	100	267	141	20	F07/F10	96	19	RAT125DA

Pneumatic Female Thread 2-part Ball Valve

Features

Screw type: NPT, BSPT, BSP
 ISO-228 Class A Thread
 Temperature range: PTFE: -20℃~+150℃
 PPL: -20℃~+200℃
 Suitable medium: Water, oil, Air and some corrosive liquid
 Nominal pressure: PN16, PN25, PN40,
 1000PSI (PN63) For 1/2" ~ 4"
 Anti roll stem
 Locking device
 Material: CF8M (DIN 1.4408),
 CF8 (DIN 1.4308),
 WCB (DIN 1.0619)
 (WCB, CF8, CF8M/I, Ti, Ni)

The actuator needs to be replaced for the PN64

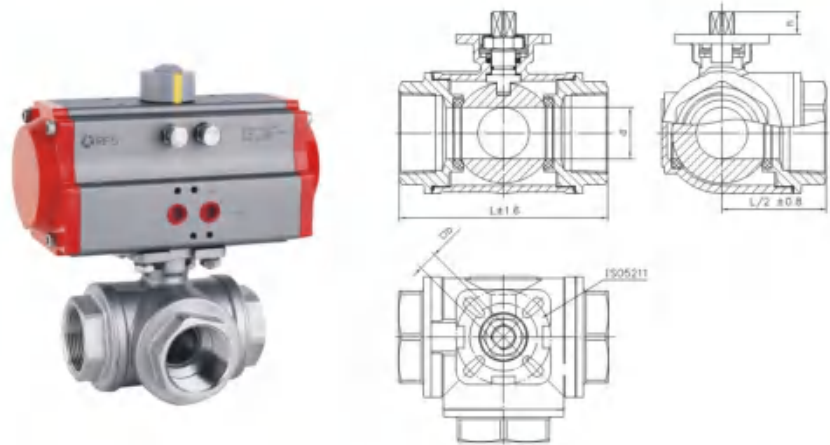
Model	INCH	DN	d	L	h	h1	E	d1	d2	R1	R2	A	S	Actuator
RBVP11-2-15	1/2"	15	15	59	10.5	35	125	36.5	42.5	3	3	42	9	RAT052DA
RBVP11-2-20	3/4"	20	20	66	10.7	39	125	36.5	42.5	3	3	42	9	RAT052DA
RBVP11-2-25	1"	25	25	80	11	46	135	42.5	50.5	3	3.5	50	11	RAT052DA
RBVP11-2-32	1-1/4"	32	32	90	11.5	52	150	42.5	50.5	3	3.5	50	11	RAT063DA
RBVP11-2-40	1-1/2"	40	38	103	17	63	160	50	70	3.5	4.5	70	14	RAT075DA
RBVP11-2-50	2"	50	49	117	17	73.5	180	50	70	3.5	4.5	70	14	RAT083DA
RBVP11-2-65	2-1/2"	65	64	147	20	94.5	260	70	102	4.5	5.5	96	17	RAT092DA
RBVP11-2-80	3"	80	76	169	20	103.5	260	70	102	4.5	5.5	96	17	RAT105DA
RBVP11-2-100	4"	100	98	204	22.5	122	300	70	102	4.5	5.5	96	19	RAT125DA

» Pneumatic 3-Way Ball Valve

Features

The nominal pressure: PN 1.6, 2.5, 4.0, 6.4MPa
Strength test pressure: PT 2.4, 3.8, 6.0, 9.6MPa
Seal test pressure (low pressure): 0.6MPa
Seal test pressure (pressure): 1.8, 2.8, 4.4, -7.1Mpa
Suitable medium: Water.oil.Gas.Nitric acid.Acetic acid
Suitable temperature: PTFE: -20 °C~+150 °C
PPL: -20 °C~+200 °C
(WCB, CF8, CF8M, Ti, Ni)

The actuator needs to be replaced for the PN40、PN64

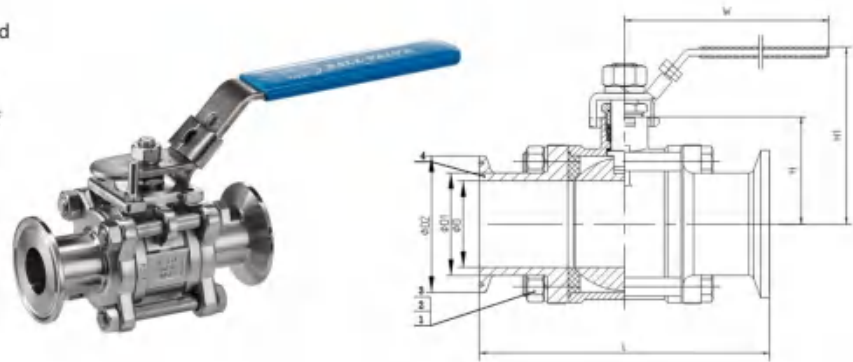


Model	INCH	DN	d	L	h	b	ISO5211	Actuator
RBVP14-15	1/2"	15	12	72	8.5	9	F03/F04	RAT052DA
RBVP14-20	3/4"	20	15	82	9.5	9	F03/F04	RAT052DA
RBVP14-25	1"	25	18	90	11	11	F04/F05	RAT052DA
RBVP14-32	1-1/4"	32	25	128	12	11	F04/F05	RAT063DA
RBVP14-40	1-1/2"	40	32	137	16.5	14	F05/F07	RAT075DA
RBVP14-50	2"	50	38	154	16.5	14	F05/F07	RAT083DA
RBVP14-65	2-1/2"	65	48	185	20	17	F07/F10	RAT092DA
RBVP14-80	3"	80	55	212	20	17	F07/F10	RAT105DA
RBVP14-100	4"	100	74	254	22.5	19	F07/F10	RAT125DA

» Manual three-piece quick release ball valves

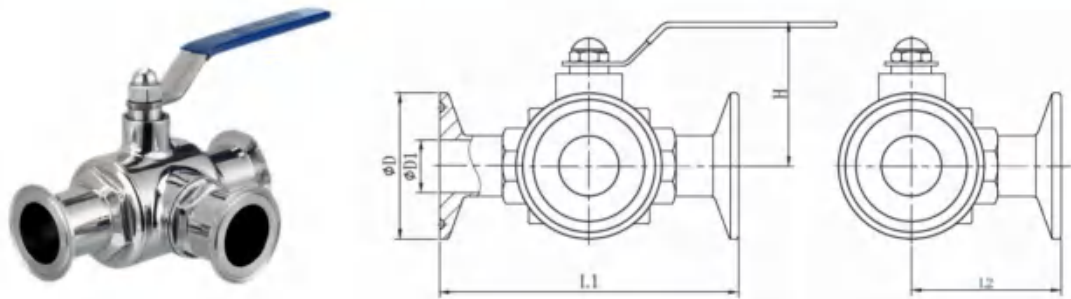
Features

- 1、Design and manufacture of technical requirements according to the provisions of the ASME B1634 standard
- 2、the length of the valve body structure according to the provisions of DIN3202-M3 standards.
- 3、Valve inspection and test according to the provisions of API598 standard.
- 4、Threads are processed according to the requirements of the order.



Model	INCH	ΦD	L	H	H1	W	D1	D2
RBVL81-3-15	1/2"	15	89	28	64.5	120	18	50.5
RBVL81-3-20	3/4"	20	101	30.5	67	120	23	50.5
RBVL81-3-25	1"	25	114	39	78.5	150	26	50.5
RBVL81-3-32	1-1/4"	32	132	44	83.5	150	34	50.5
RBVL81-3-40	1-1/2"	40	140	54	98	170	38	50.5
RBVL81-3-50	2"	05	156	63	107	170	52	64
RBVL81-3-65	2-1/2"	65	190	80.3	133	250	70	91
RBVL81-3-80	3"	80	205	91	143.5	250	94	106
RBVL81-3-100	4"	100	245	107.5	168	300	106	119

» Manual sanitary three-way quick release ball valve



Model	DN	D	D1	L1	L2	H	Inner hole	Weight(Kg)
RBVL85-19	19	50.5	16	105	57	58	15	0.84
RBVL85-25	25	50.5	22	126	62	62	20	1.04
RBVL85-32	32	50.5	29	137	68	71	25	1.3
RBVL85-38	38	50.5	35	154	77	81	32	1.7
RBVL85-45	45	64	41.7	165	81	90	40	2.09
RBVL85-51	51	64	48	186	90	90	40	2.7
RBVL85-63	63	77.5	59	184	92	103	50	3.65
RBVL85-76	76	91	72	220	105	110	65	7
RBVL85-89	89	106	84	240	133	118	80	9.3
RBVL85-102	102	119	98	266	150	130	94	13

RDV Series

Specialized manufacture, Specialized service, RFS valve devote to satisfy user's expectation, improving service quality continuously.keeping improving.



Features

- Small and light, easy for installation and repair, and can be installed in any position.
- Simple structure, compact, prompt 90 degree turn round, open and close.
- Small operating torque
- Flow rate characteristic tend to straight, well regulate.
- Open and close test over 10,000 times, long life.
- Complete seal, no leakage during air testing.
- Choose different material as parts, fit for kinds of medium.

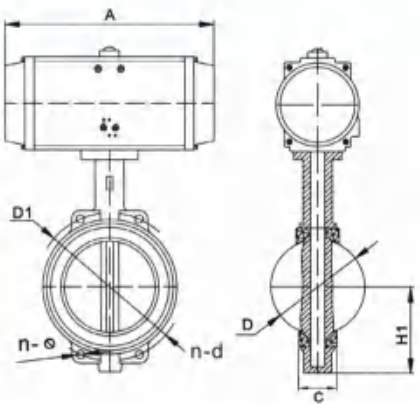
Order Code

R	DV	P	7	P	—	B3	—	7	—	50
1	2	3	4	5		6		7		8
1. RFS product			5. Body material			7. Seal material				
2. Butterfly valve			Z: CI			H: Stainless steel				
3. Type			Q: DI			1: Natural rubber				
P: Pneumatic control			R: Stainless steel 304			2: Hypalon seal				
L: Lever control			C: Carbon steel			3: EPDM				
W: Wheel type			T: Aluminum bronze			5: Neoprene				
E: Electric			6. Disc material			6: NBR				
4. Connection			B1: Plated DI			7: Abrasion resistant rubber				
4: Flanged connection			B2: Aluminum bronze			8: Viton				
7: Wafer type			B3: Stainless steel 304			9: Heat-resistant EPDM				
			B4: Titanium steel			F4: PTFE				
			B5: Stainless steel 316			8. Orifice				
			B6: Carbon steel			50-1000				

RDVP7PB Pneumatic wafer type soft-sealing butterfly valve

Product features

- Small and lightweight, easy to disassemble and maintain, and can be installed in any position.
- Simple and compact structure, quick opening and closing with 90° swing.
- Small operating torque, energy-saving and lightweight.
- Flow characteristics tend to be linear, good regulation performance. Opening and closing test times up to tens of thousands of times, long life.
- Achieve complete sealing, gas test leakage is zero.
- Choose different parts materials, can be applied to a variety of media.

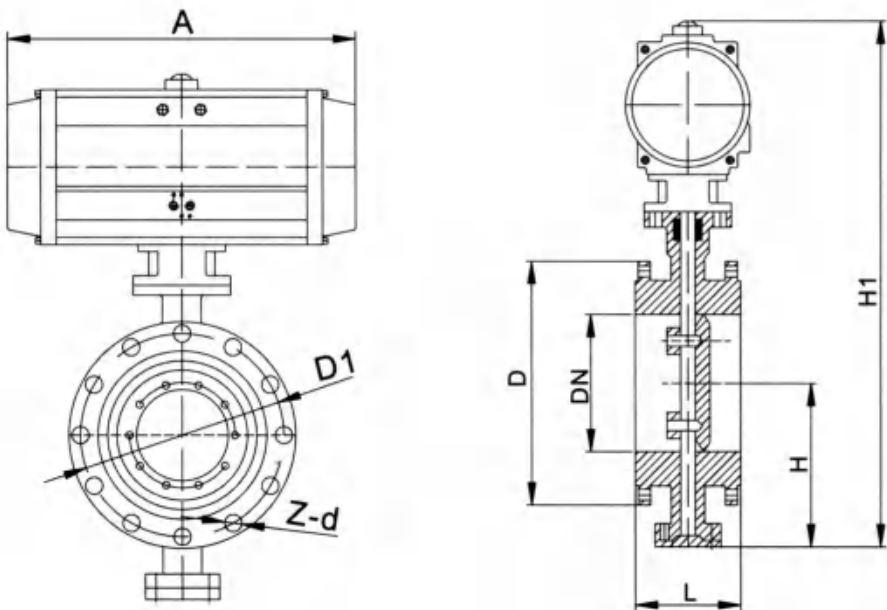


Overall dimensions

Model	DN(mm)	D	D1	H1	A	C	n-d	Actuator
RDVP7PB-7-50	50	52.9	125	80	181	42	4-18	RAT063DA
RDVP7PB-7-65	65	64.5	145	89	207	44.7	4-18	RAT075DA
RDVP7PB-7-80	80	78.8	160	95	213	45.2	8-18	RAT083DA
RDVP7PB-7-100	100	104	180	114	258	52.1	8-18	RAT092DA
RDVP7PB-7-125	125	123.3	210	127	287	54.4	8-18	RAT105DA
RDVP7PB-7-150	150	155.6	240	139	342.5	55.8	8-23	RAT125DA
RDVP7PB-7-200	200	202.5	295	175	342.5	60.6	8-23	RAT125DA
RDVP7PB-7-250	250	250.5	350	203	411	65.6	12-23	RAT140DA
RDVP7PB-7-300	300	301.6	400	242	488	76.9	12-23	RAT160DA
RDVP7PB-7-350	350	333.3	460	267	488	76.5	16-23	RAT160DA
RDVP7PB-7-400	400	389.6	515	309	544	85.7	16-26	RAT190DA
RDVP7PB-7-450	450	440.51	565	328	580	105.6	20-26	RAT210DA
RDVP7PB-7-500	500	491.5	620	361	622	130.3	20-26	RAT240DA
RDVP7PB-7-600	600	592.5	725	459	766	151.4	20-30	RAT270DA
RDVP7PB-7-700	700	695	840	520	766	163	24-30	RAT270DA
RDVP7PB-7-800	800	794.7	950	591	794	188	24-33	RAT300DA
RDVP7PB-7-900	900	864.7	1050	656	880	203	28-33	RAT350DA
RDVP7PB-7-1000	1000	965	1160	721	1067	213	28-36	RAT400DA

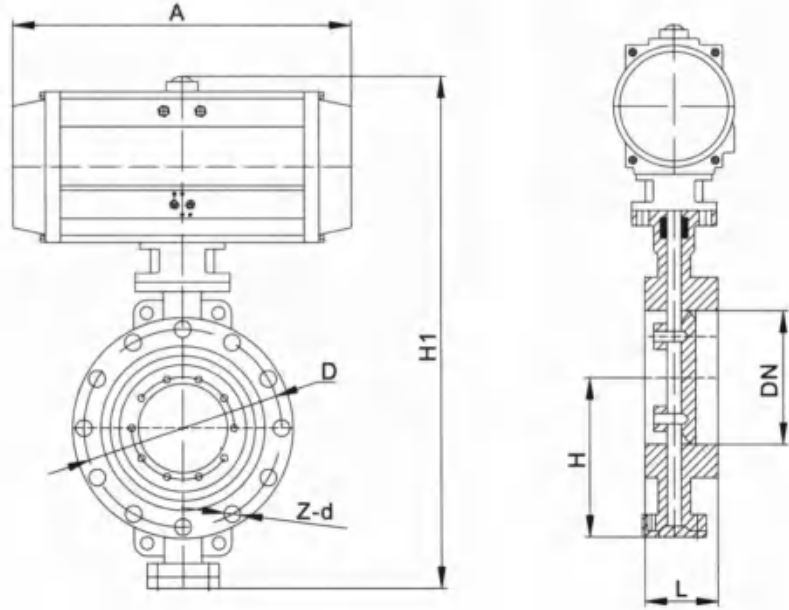
Valve body		Disc		Rotating shaft		Seal material		
Material item	Code	Material item	Code	Material item	Material item	Material item	Code	Suitable temperature
CI	Z	Plated DI	B1			Natural rubber	X1	-20~+85°C
DI	Q	Aluminum bronze	B2			Hypalon seal	X2	-18~+135°C Short time -18~+149°C
Aluminum bronze	T	Stainless steel 304	B3	Stainless steel	Lubrication bronze	EPDM	X3	-45~+135°C Short time -50~+150°C
						Neoprene	X4	-7~+93°C Short time -7~107°C
Stainless steel 304	P	Titanium steel	B4	Carbon steel	PTFE	NBR	X5	-12~+82°C Short time -12~+93°C
Stainless steel 316	R	Stainless steel 316	B5			Abrasion resistant rubber	X6	-10~+50°C
						Viton	X7	-23~+150°C
Carbon steel	C	Carbon steel	B6			Heat-resistant EPDM Rubber	X9	-20~+150°C
						PTFE	F4	-10~+150°C

» Pneumatic flanged hard-sealing butterfly valve



Model	DN (mm)	L		D	D1	H	H1	A	Z - d	Actuator
		短	长							
RDVP7R-B5-H-50	50	108	150	165	125	112		196.5	4-18	RAT083DA
RDVP7R-B5-H-65	65	112	170	185	145	115		241	4-18	RAT092DA
RDVP7R-B5-H-80	80	114	180	200	160	120		263.5	8-18	RAT105DA
RDVP7R-B5-H-100	100	127	190	220	180	138	548	319	8-18	RAT125DA
RDVP7R-B5-H-125	125	140	200	250	210	164	605	390	8-18	RAT140DA
RDVP7R-B5-H-150	150	140	210	285	240	175	653	449	8-22	RAT160DA
RDVP7R-B5-H-200	200	152	230	340	295	200	772	449	8-22	RAT160DA
RDVP7R-B5-H-250	250	165	250	395	350	243	866	515	12-22	RAT190DA
RDVP7R-B5-H-300	300	178	270	445	400	250	964	560	12-22	RAT210DA
RDVP7R-B5-H-350	350	190	290	505	460	280	1068	560	16-22	RAT210DA
RDVP7R-B5-H-400	400	216	310	565	515	305	1108	560	16-26	RAT210DA
RDVP7R-B5-H-450	450	222	330	615	565	350	1177	654	20-26	RAT240DA
RDVP7R-B5-H-500	500	291	350	670	620	380	1289	725	20-26	RAT270DA
RDVP7R-B5-H-600	600	267	390	780	725	445	1439	745	20-30	RAT300DA
RDVP7R-B5-H-700	700	292	430	892	840	480	1494	745	24-30	RAT300DA
RDVP7R-B5-H-800	800	318	470	1015	950	530	1718	860	24-33	RAT350DA
RDVP7R-B5-H-900	900	330	510	1115	1050	580	1818	860	28-33	RAT350DA
RDVP7R-B5-H-1000	1000	410	550	1230	1160	650	2041	918	28-36	RAT400DA
RDVP7R-B5-H-1200	1200	470	630	1455	1380	760	1176	918	32-39	RAT400DA

» Pneumatic wafer type hard-sealing butterfly valve



Model	DN (mm)	L	D	H	H1	A	Z - d	Actuator
RDVP4R-B5-H-50	50	43	125	112		196.5	4-18	RAT083DA
RDVP4R-B5-H-65	65	46	145	115		241	4-18	RAT092DA
RDVP4R-B5-H-80	80	64	160	120		263.5	8-18	RAT105DA
RDVP4R-B5-H-100	100	64	180	138	548	319	8-18	RAT125DA
RDVP4R-B5-H-125	125	70	210	164	605	390	8-18	RAT140DA
RDVP4R-B5-H-150	150	76	240	175	653	449	8-22	RAT160DA
RDVP4R-B5-H-200	200	89	295	215	772	449	8-22	RAT160DA
RDVP4R-B5-H-250	250	114	350	243	866	515	12-22	RAT190DA
RDVP4R-B5-H-300	300	114	400	285	964	560	12-22	RAT210DA
RDVP4R-B5-H-350	350	127	460	320	1068	560	16-22	RAT210DA
RDVP4R-B5-H-400	400	140	515	350	1108	560	16-26	RAT210DA
RDVP4R-B5-H-450	450	152	565	350	1176	654	20-26	RAT240DA
RDVP4R-B5-H-500	500	152	620	380	1289	725	20-26	RAT270DA
RDVP4R-B5-H-600	600	154	725	435	1439	745	20-30	RAT300DA
RDVP4R-B5-H-700	700	165	840	480	1494	745	24-30	RAT300DA
RDVP4R-B5-H-800	800	190	950	530	1718	860	24-33	RAT350DA
RDVP4R-B5-H-900	900	203	1050	595	1818	860	28-33	RAT350DA
RDVP4R-B5-H-1000	1000	216	1160	650	2041	918	28-36	RAT400DA
RDVP4R-B5-H-1200	1200	254	1380	775	2276	918	32-39	RAT400DA

Tri - eccentric Multi - layer Metal - sealed Butterfly Valve

Product Features

Since the butterfly valve of this product is designed based on the three-dimensional eccentric principle, the spatial motion trajectory of the sealing surfaces is optimized. There is no friction or interference between the sealing surfaces. Moreover, with the proper selection of sealing materials, the sealing performance, corrosion resistance, high-temperature resistance and wear resistance of the butterfly valve are reliably ensured.

Its main features are as follows:

- It has a small opening torque, is flexible and convenient to operate, and is energy-saving as it requires less effort.
- With the three-eccentric structure, the butterfly disc gets tighter as it is closed, and its sealing performance is reliable, achieving zero leakage.
- It can withstand high pressure, is resistant to wear and has a long service life.



Parameter

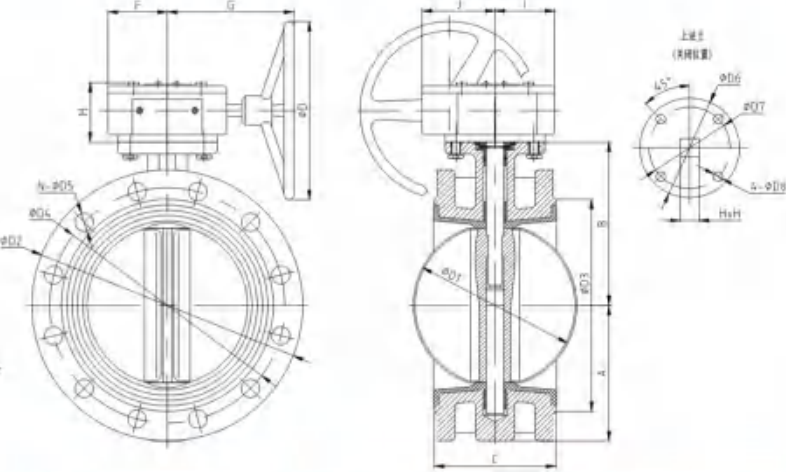
Nominal diameter		DN (mm)		50 - 200			50 - 500	
Nomina pressure		PN (MPa)		0.6	1.0	1.6	2.5	4.0
Test pressure	Strength Test (MPa)		0.9	1.5	2.4	3.75	6.0	
	Seal Test (MPa)		0.66	1.1	1.76	2.75	4.4	
	Gas Seal Test (MPa)		0.6	0.6	0.6	0.6	0.6	
Permeability		<0.1xDNmm ³ /s (GB/T13927-92 standard)						
Applicable temperature		Carbon steel: -29°C~425°C/ Stainless steel: -40°C~600°C						
Applicable Medium		Air, water, steam, coal gas, oil products, as well as acids, alkalis, salts and weakly - corrosive media						
Drive Type		Worm-gear Transmission, Pneumatic Transmission						

Ps: The actuator needs to be replaced for the PN4.0

Materials of Main Components

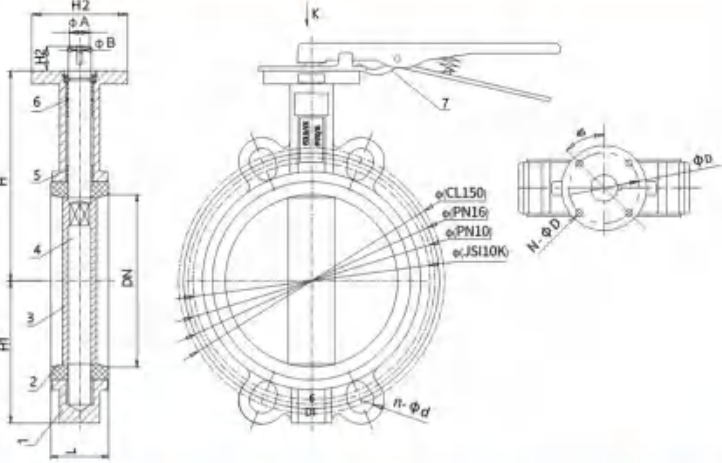
Port name	Material
Valve Body	Cast Iron, Stainless Steel, Chrome-Molybdenum Steel, Alloy Steel
Butterfly Disc	Cast iron, Stainless Steel, Chrome - Molybdenum Steell, Alloy Steel
Sealing Ring	Stainless steel with graphite
Valve Stem	2Cr13, 1Cr13 Stainless Steel, Chrome - Molybdenum Steel
Bearing	Oxidation Treatment of Stainless Steel
Packing	Flexible Graphite

Manual Flanged Butterfly Valve



Model	DN	A	B	C	D1	PN10				PN16				D3	D6	D7	D8	H
						D2	D4	N	D5	D2	D4	N	D5					
RDVL4-50	50	83	120	108	52.88	165	125	4	19	165	125	4	19	99	65	50	7	9
RDVL4-65	65	93	130	112	64.49	185	145	4	19	185	145	4	19	118	65	50	7	9
RDVL4-80	80	100	145	114	78.84	200	160	8	19	200	160	8	19	132	65	50	7	9
RDVL4-100	100	114	155	17	104	220	180	8	19	220	180	8	19	156	90	70	10	11
RDVL4-125	125	125	170	140	123.3	250	210	8	19	250	210	8	19	184	90	70	10	14
RDVL4-150	150	143	190	140	155.6	285	240	8	23	285	240	8	23	211	90	70	10	14
RDVL4-200	200	170	205	152	202.5	340	295	8	23	340	295	12	23	266	125	102	12	17
RDVL4-250	250	198	235	165	250.5	395	350	12	23	395	355	12	28	319	125	102	12	22
RDVL4-300	300	220	280	178	301.5	445	400	12	23	445	410	12	28	370	125	102	12	22
RDVL4-350	350	245	330	190	333.3	505	460	16	23	505	470	16	28	429	125	102	12	22

Manual Wafer-type (Pin-less) Butterfly Valve



Model	DN	A	B	L	H	H1	H2	K	E	N-ΦD	ISO	PN10		PN16		CL150		JS110K	
												ΦD	n-Φd	ΦD	n-Φd	ΦD	n-Φd	ΦD	n-Φd
RDVL7-40	40	12.6	3	33	126	74	28	54	42	4-Φ6.5	F40	110	4-Φ19	125	4-Φ19	98.5	4-Φ16	105	4-Φ19
RDVL7-50	50	12.6	3	42	126	74	28	65	50	4-Φ7.5	F05	125	4-Φ19	125	4-Φ19	120.5	4-Φ19	120	4-Φ19
RDVL7-65	65	12.6	3	44.5	137	83	28	65	50	4-Φ7.5	F05	145	4-Φ19	145	4-Φ19	139.5	4-Φ19	140	4-Φ19
RDVL7-80	80	12.6	3	44.5	144	92	28	65	50	4-Φ7.5	F05	160	8-Φ19	160	8-Φ19	152.5	4-Φ19	150	8-Φ19
RDVL7-100	100	15.77	5	51	165	108	28	90	70	4-Φ10	F07	180	8-Φ19	180	8-Φ19	190.5	8-Φ19	176	8-Φ19
RDVL7-125	125	18.92	5	54.5	176	127	28	90	70	4-Φ10	F07	210	8-Φ19	210	8-Φ19	216	8-Φ22	210	8-Φ23
RDVL7-150	150	18.92	5	54.5	198	144	28	90	70	4-Φ10	F07	240	8-Φ23	240	8-Φ23	241.5	8-Φ22	240	8-Φ23
RDVL7-200	200	22.1	5	60	228	170	35	125	102	4-Φ12	F10	295	8-Φ23	295	12-Φ23	298.5	8-Φ22	290	12-Φ23

RVP Series

The pneumatic plastic ball valves adopt special additive formula materials to ensure their acid resistance, alkali resistance and relatively high mechanical strength. They are widely used in water pipeline systems in many fields.



Features

- Working Pressure: 1.0 MPa.
- The double flexible joint nut design enables it to be used as both a flexible joint and a valve simultaneously.
- The tightness of the gasket seat can be adjusted appropriately.
- It can be quickly assembled without the need for special tools.
- A copper post can be embedded to install an automatic controller.

Order Code

R

1

VP

2

—

64

3

0

4

15

5

1. RFS product

2. Pneumatic Plastic Valves

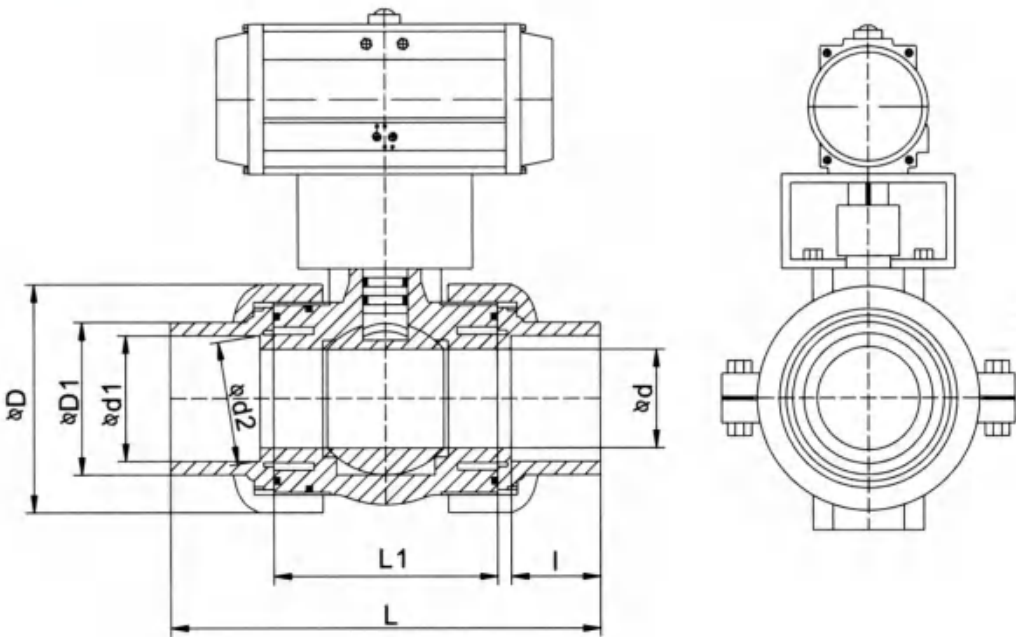
3. Valve type
64: Ball valve
83: Butterfly valve

4. Material
0: PVC
1: CPVP
3: PVDF
4: PP
5: ABS

5. Nominal diameter
15-600

Model	Orifice	Standard	Material	Gasket Seat	O - Ring	Connector
RVP-640	1/2"~4"	ANSI,JIS,DIN,BS	PVC	PTFE	EPDM,FPM	Receptacle,thread,flange
RVP-641	1/2"~4"	ANSI,JIS,DIN,BS	CPVC	PTFE	EPDM,FPM	Receptacle,thread,flange
RVP-643	1/2"~4"	ANSI,JIS,DIN,BS	PVDF	PTFE	EPDM,FPM	Receptacle,thread,flange
RVP-644	1/2"~4"	ANSI,JIS,DIN,BS	PP	PTFE	EPDM,FPM	Receptacle,thread,flange
RVP-645	1/2"~4"	ANSI,JIS,DIN,BS	ABS	PTFE	EPDM,FPM	Receptacle,thread,flange

Overall Dimension



Model	Orifice	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")
JIS	d1	22.30	26.30	32.33	38.43	48.46	60.56	76.60	89.6	114.7
	d2	21.70	25.70	31.67	37.57	47.54	59.44	75.87	88.83	113.98
		22.22	25.4	28.6	31.8	34.9	38.1	44.45	63	69.0
ANSI	d1	21.54	26.87	33.65	42.42	48.56	60.63	73.38	89.31	114.76
	d2	21.23	26.57	32.27	42.04	48.11	60.17	72.85	88.7	114.07
		22.22	25.40	28.58	31.75	34.93	38.10	44.45	47.63	57.15
DIN	d1	20.3	25.3	32.3	40.3	50.3	63.0	75.3	90.3	110.4
	d2	20.1	25.1	32.1	40.1	50.1	63.1	75.1	90.1	110.1
		16	19	22	26	31	38	44	51	61
BS	d1	21.5	26.9	33.7	42.4	48.4	60.5	-	-	-
	d2	21.3	26.7	33.5	42.2	42.8	60.3	-	-	-
		16.5	19.5	22.5	27	30	36	-	-	-
THD/IN	NPT	14	14	11.5	11.5	11.5	11.5	8	8	8
	PT	14	14	11	11	11	11	11	11	11
D		45	55	66	82	98	120	140	160	225
D1		31	37	44	54	65	79	92	108	146
d		13	18	23	30	38	48	61	69	99
L		112	132	144	165	171	200	273	303	326
L1		60	73	78	87	92	112	136	158	176
Actuator		RAT032DA	RAT052DA	RAT052DA	RAT063DA	RAT075DA	RAT083DA	RAT092DA	RAT105DA	RAT140DA

Pneumatic Plastic Butterfly Valve

The opening angle of the butterfly disc can be arbitrarily set by adding a valve electric positioner.

- The specifications of the pneumatic actuator comply with ISO5211, DIN3337, VDI/VDE3845 NAMUR. Solenoid valves, limit switches and other accessory parts can be added.
- It is recommended that the maximum inlet air pressure for the pneumatic actuator is 0.8 MPa and the minimum is 0.5 MPa.

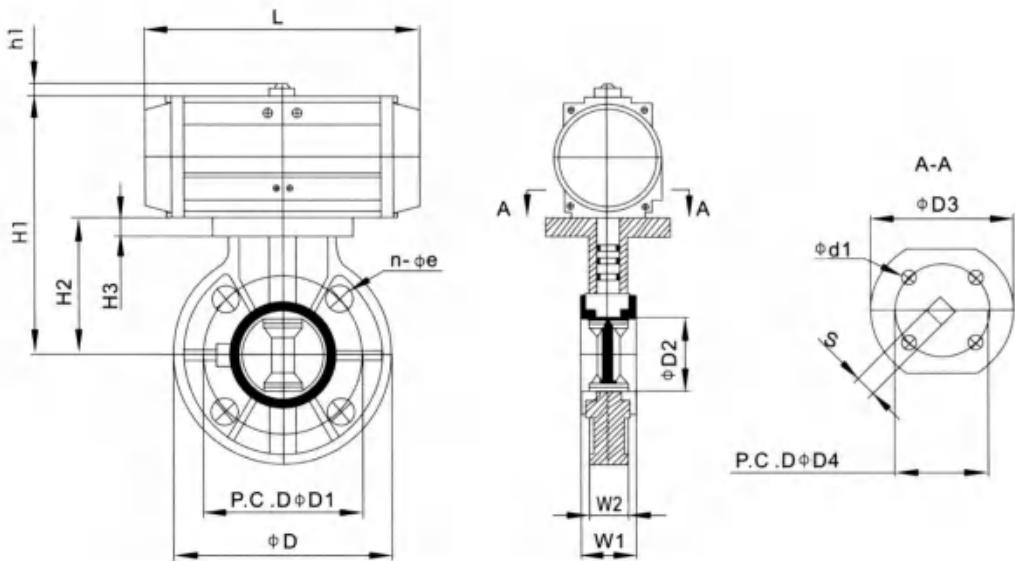


Specification	Maximum Working Pressure
2" - 10"	1.0MPa
12"	0.7MPa
14" 16"	0.6MPa
18"	0.5MPa
20"~24"	0.35MPa

Model	Orifice	Standard	Material	Gasket Seat	O - Ring	Butterfly Disc	Connector
RVP-830	2"~24"	ANSI,JIS,DIN	PVC	EPDM,FPM	EPDM,FPM	PP	法兰
RVP-831	2"~24"	ANSI,JIS,DIN	CPVC	EPDM,FPM	EPDM,FPM	CPVC	法兰
RVP-833	2"~24"	ANSI,JIS,DIN	PVDF	EPDM,FPM	EPDM,FPM	PVDF	法兰
RVP-834	2"~24"	ANSI,JIS,DIN	PP	EPDM,FPM	EPDM,FPM	PP	法兰

Model	Orifice	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")	125mm (5")	150mm (6")	200mm (8")	250mm (10")	300mm (12")	350mm (14")	400mm (16")	450mm (18")	500mm (20")	600mm (24")
JIS	D1	120	140	150	175	210	240	290	355	400	445	510	565	620	730
	n-Φe	4-19	4-19	8-19	8-19	8-23	8-23	12-23	12-25	16-25	16-25	16-27	20-27	20-27	24-35
ANSI	D1	120.39	139.44	152.40	190.50	216	241.55	298.5	362	432	476	540	578	635	749
	n-Φe	4-19	4-19	4-19	8-19	8-22	8-22	8-22	12-25	12-25	12-29	16-29	16-32	20-32	20-30
DIN	D1	125	145	160	180	210	240	295	350	400	460	515	565	620	725
	n-Φe	4-18	4-18	4-18	8-18	8-18	8-18	8-23	8-23	12-23	12-23	16-23	16-27	20-27	24-30
D		165	185	200	229	257	285	343	411	490	533	597	635	699	813
D2		56.5	69.5	79.5	102.5	130	152	203	255	309.5	365	406	452	502	603
D3		105	120	123	135	164	169	201	205	237	236	300	335	335	335
H2		103	113	115	135.5	165	177	210	342	302	300	350	370	400	465
H3		13	13	13	13	15	19	21	22	26	25	32	35	40	46
W1		43	46	46	56	69	705	85	109	133	127	168	189.5	189	209
W2		29	31	31	40	50	54	69	88	103.5	113	153	163	171	191
T-DIN259 85P		1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"
Single-acting	Φd1	6.5	6.5	8.5	8.5	8.5	10.5	10.5	10.5	12.5					
	ΦD4	50	50	70	70	70	102	102	102	105					
	h1	20	20	20	20	20	20	30	30	30					
	H1	188	188	217	237.5	280	304	367	399	498					
	L	158.5	158.5	210.5	210.5	247.5	268.5	345	345	437.5					
Double-acting	S	14	14	17	17	17	22	27	27	27					
	Φd1	6.5	6.5	8.5	8.5	10.5	10.5	12.5	12.5						
	ΦD4	50	50	70	70	102	102	125	125						
	h1	20	20	20	20	20	30	30	30						
	H1	205	205	230	250.5	292	334	406	438						
	L	210.5	210.5	247.5	247.5	268.5	345	437.5	437.5						
	S	17	17	17	17	22	27	27	27						

Overall Dimension



REP Series

The positioner is used for operation of pneumatic rotary valve actuators by means of electrical controller or control systems with a similar output signal of DC4 to 20mA or split ranges.



Features

- There is no resonance at 5~200Hz
- The change of RA/DA acting is convenient. It's able to apply to single or double acting actuator.
- It's possible to prevent the hunting with orifice to the small size actuator.
- It's economical due to less air consumption.
- It's able to control the 1/2 split range with simple operation without replacement of parts.

Order Code

R	EP-1000	R	S	m	1	1	1	S	1
1	2	3	4	5	6	7	8	9	10
1. RFS product	2. Item number EP-1000	3. Working principle R: Angular Stroke L: Linear Stroke	4. Action type S: single acting D: double acting	5. Ex-proof rate m: Exd mIIBT5 n: Non ex-proof	6. Feedback pole 1: M6×40L 2: M6×63L 3: M8×40L 4: M8×63L 5: NAMUR	7. Throttle pole 1: φ1 2: φ2 3: NONE	8. Connection type 1: PT 2: NPT	9. Environment temperature S: -20°C~60°C H: -20°C~120°C L: -40°C~70°C	10. Select accessories 1: +PTM(Intrnal) 2: +PTM(External) 3: +L/S(Intrnal) 4: +L/S(External) 5: +PTM+L/S(Intrnal)

Parameter

Item / Type	Single action	Double action
Input Signal	4-20mA DC	
Impedance	250±15 Ohm	
Supply Pressure	1.4-7kgf/cm ² (20-100psi)	
Stroke	0~90°C	
Air Connection	PT(NPT)1/4"	
Gauge Connection	PT(NPT)1/8"	
Conduit	PF1/2"(G1/2")	
Explosion Proof	Exia IIC T6 Ga, Exd IIB T6	
Protection	IP66	
Ambient Temp	Operating: -20°C~70°C Explosion: -20°C~60°C	
Linearity	±1%F.S	±2%F.S
Hysteresis	±1%F.S	
Sensitivity	±0.2%F.S	±0.5%F.S
Repeatability	±0.5%F.S	
Air Consumption	3LPM(Sup=1.4kgf/cm ² , 20psi)	
Flow Capacity	80LPM(Sup=1.4kgf/cm ² , 20psi)	
Material	Aluminum Diecasting	
Weight	2.8kg(6.2lb)	



Order Code

RFS	2	10	N	EX
1	2	3	4	5
1. RFS product	2. Size Series 2: 2 Series 3: 3 Series 4: 4 Series	3. Machinery jiggle switch	4. The shell is fixed by screw	5. Ex-proof

Limit switch box ,ex-proof limit switch box

Features

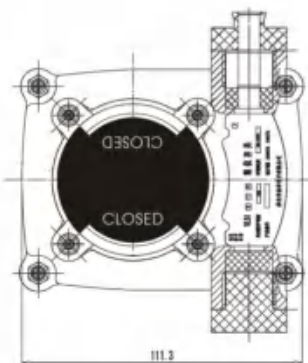
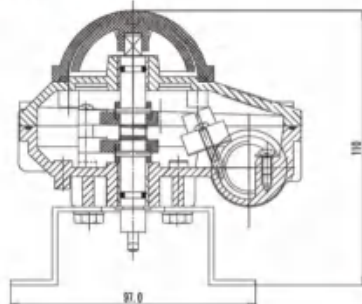
Limit switch box is designed based on advanced technology which are solid beautiful, high-level quality and with the following characteristic:

- Visual position indicator and waterproof type.
- Easy to set without tool based on spring loaded plined cam
- There are many connection terminal and 8pcs of points, easy to connect and safety.
- Standard dual cable connections.
- No worry to loose bolts while cover opens.
- Namur standard stainless steel shaft and bracket.

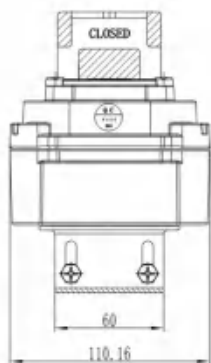
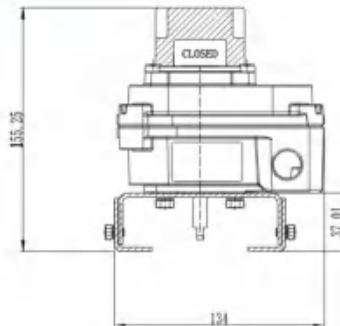
Model	RFS-210N/RFS-310N	RFS-410N-EX
Explosion Proof	IP 65	Exd IIBT4
Ambient Temp	-25°C~85°C	
Cable Entry	G1/2" G3/4"	
Terminal Stripe	8	
Position Indicator	0~90°C	
Switches	Mechanical Type	
Potentiometer	1 KΩ	
Current	4~20mA	

» Overall Dimension

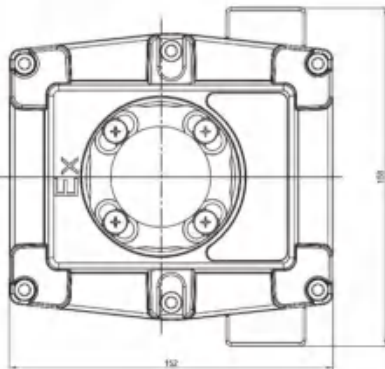
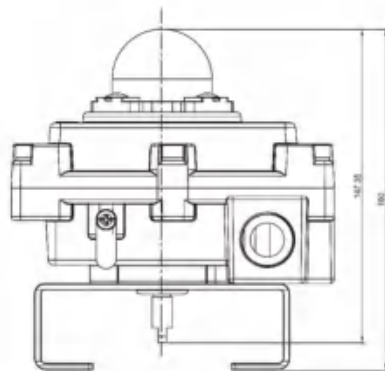
RFS-210N



RFS-310N



RFS-410N



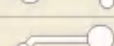
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RSD Series

The pneumatic butterfly valve and ball valve with handle mechanism, as long as by the simple switching, then can achieve the handle operation of valve. Handle mechanism installed between pneumatic actuator and valve, quite convenience for operation.



» Structure character and using method

Transmission type	RSD1~8		Stem and wheel transmit	
Stroke	90° ±5°			
Special design	The bearing of the stem are two pcs of eccentric body, using the connection stem for turning into integrative, at the same time, also can run 180 degree for combine and disconnection between stem and wheel, combine condition is by handle, disconnection condition is by pneumatic.			
Installation	The upper end	The standard size hole is connecting with pneumatic actuator. The square body is in the middle which hold out extracorporeal, connecting with the inner eight-square of pneumatic actuator directly.		
	The lower end	The standard screw hole on the shell is connecting with the valve or bracket. The middle output shaft is a standard inner eight-square.		
Usage	Handle		Pulling the side round handle, then can turn spanner. When the spanner is at the appointed place, the round handle reset fastness eccentric bearing. Warning: It can not be operated by pneumatic when at the handle position, otherwise the parts will be damaged.	
	Pneumatic			

Model

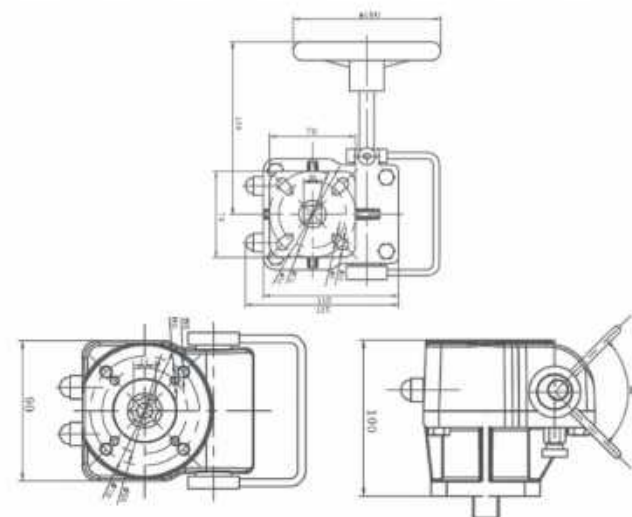
» Parameter

Model	Handwheel Model	Shaft Square	Speed Ratio	Diameter	Input Torque	Out Torque	Model	Handwheel Model
DA				φ	NM	NM	SR	
RAT052DA	RSD-1	11*11	26: 1	200	60	150	RAT052SA	RSD-1
RAT063DA	RSD-1	14*14	26: 1	200	60	150	RAT063SA	RSD-1
RAT075DA	RSD-1	14*14	26: 1	200	60	150	RAT075SA	RSD-1
RAT083DA	RSD-2	17*17	28: 1	200	60	300	RAT083SA	RSD-2
RAT092DA	RSD-2	17*17	28: 1	220	60	300	RAT092SA	RSD-2
RAT105DA	RSD-3	22*22	38: 1	280	60	600	RAT105SA	RSD-3
RAT125DA	RSD-3	22*22	38: 1	280	60	600	RAT125SA	RSD-3
RAT140DA	RSD-4	27*27	54: 1	350	90	1000	RAT140SA	RSD-4
RAT160DA	RSD-4	27*27	54: 1	350	90	1000	RAT160SA	RSD-4
RAT190DA	RSD-5	36*36	80: 1	500	110	2000	RAT190SA	RSD-5
RAT210DA	RSD-5	36*36	80: 1	500	140	2000	RAT210SA	RSD-5
RAT240DA	RSD-6	46*46	78: 1	500	140	3500	RAT240SA	RSD-6
RAT270DA	RSD-6	46*46	78: 1	500	200	3500	RAT270SA	RSD-6
RAT300DA	RSD-6	46*46	78: 1	500	200	3500	RAT300SA	RSD-7
RAT350DA	RSD-6	46*46	78: 1	500	200	3500	RAT350SA	RSD-7
RAT400DA	RSD-7	55*55	98: 1	600	200	4500	RAT400SA	RSD-8

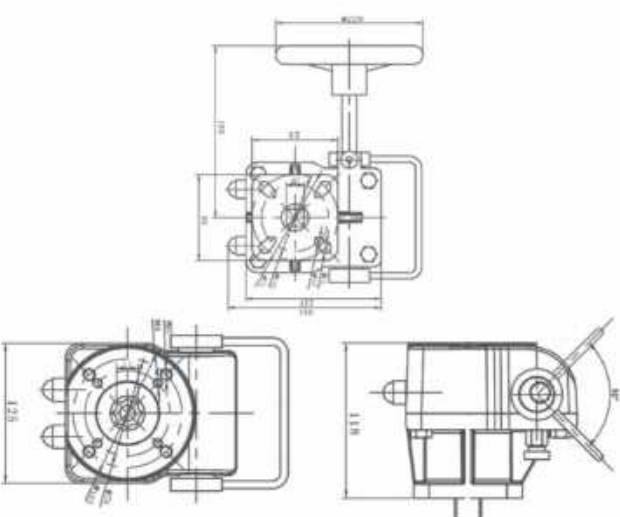
» Overall Dimension

» Overall Dimension

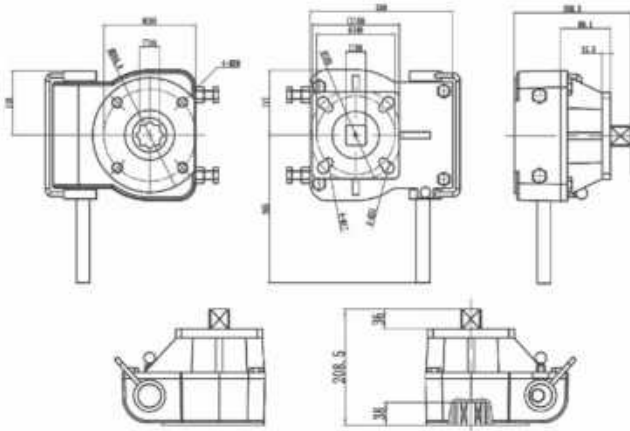
RSD-1



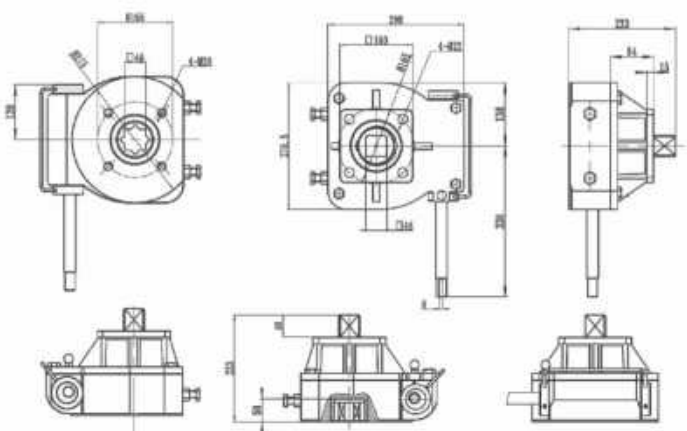
RSD-2



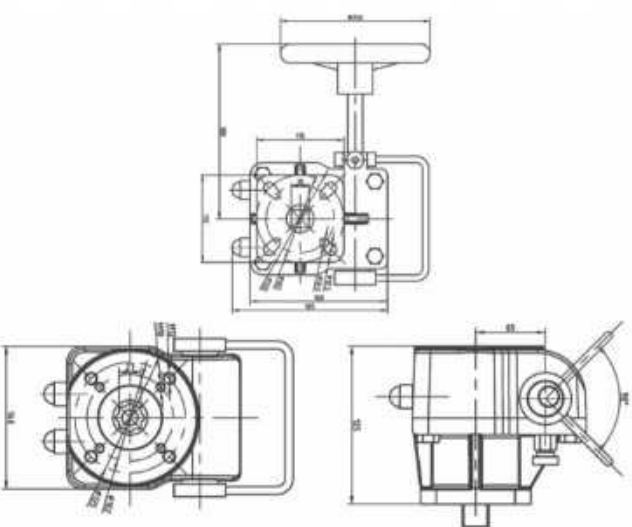
RSD-5



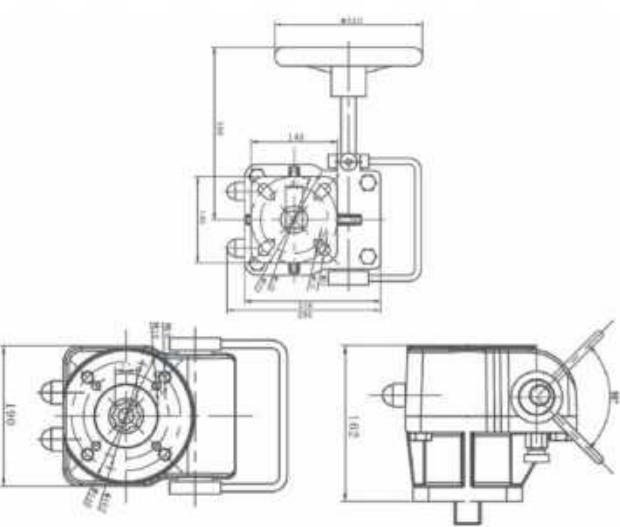
RSD-6



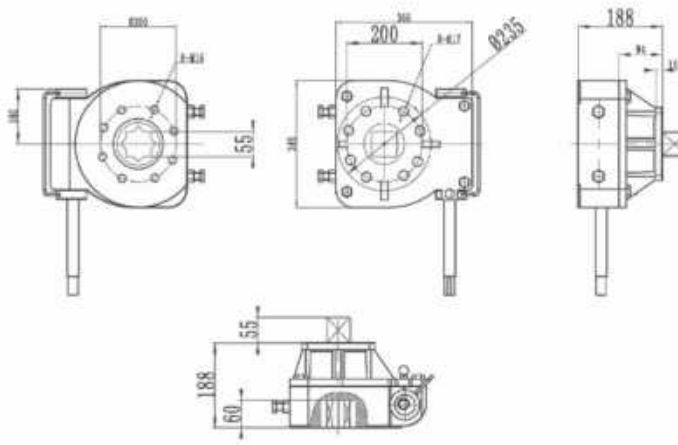
RSD-3



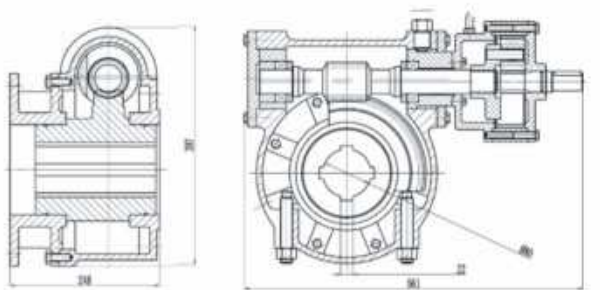
RSD-4



RSD-7



RSD-8

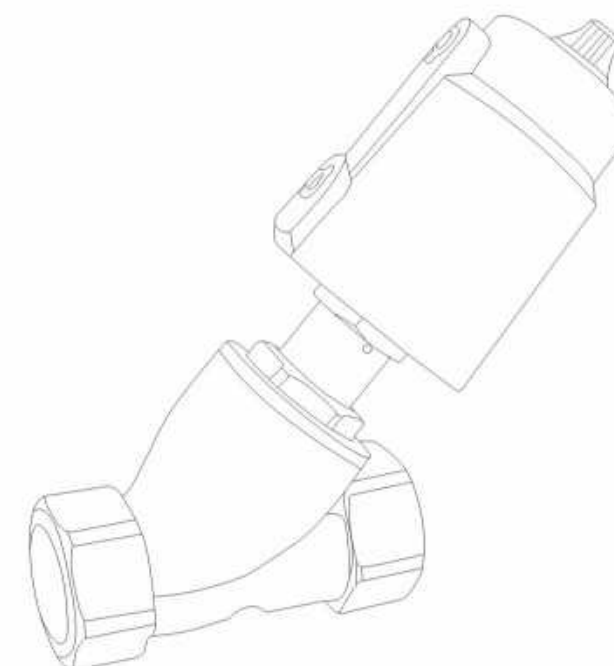


Angle seat valve

There is automatic adjustable seal gland bush between overflow outlet and slide block. The bevel structure have big flow rate, no water hammer, no noise and credible seal performance.

- Pneumatic Actuator/Valve
- **Angle Seat Valve**
- Pneumatic Valves
- 2/2 Valve
- Dust Collector Valves & Parts
- Drain Valves
- Steam Valve
- Special Solenoid Valve

**PREMIER QUALITY
GLOBAL REPUTATION**



XINGYU ELECTRON(NINGBO)CO.,LTD.

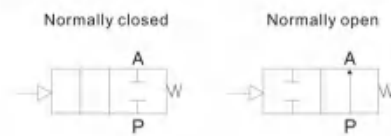
RJQ22

Bevel Valve

Design character

- Can see the position indication.
- Easy to install.
- Actuator adopt low abrasion piston structure, big capacity and low wastage.
- There is lubricative for inner parts, no need maintenance.
- The actuator material have stainless steel and aluminium.
- Long life for the piston pole, PTFE seal, avoid the reif come in.
- No water hammer effect, when the liquid flowed from valve underside, the water hammer will be absorbed.

Symbol



Order Code

RJQ — 22 — S — 50 — 25 S — 1

1 2 3 4 5 6 7

1. RFS product

2. Two way two position

3. Actuator material
S: Stainless steel
Blank: Aluminium
P: Plastic

4. Actuator size	5. Connection size
40	10
	15
50	10
	15
	20
	25
63	25
	32
	40
	40
80	50
	63
	65
	65
100	65
	80
125	100

Note: Please refer to the corresponding size table for the actual cylinder diameter and through diameter of each model.

6. Type of action

S: Normally closed with water hammer
W: Normally closed without water hammer
K: normally open
D: double acting

7. Connection

1: Threaded
4: Flange
8: Quick-fit
9: Welding

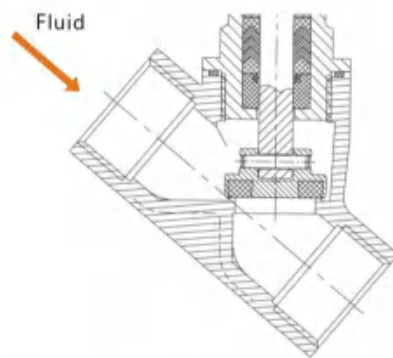


Technical parameters

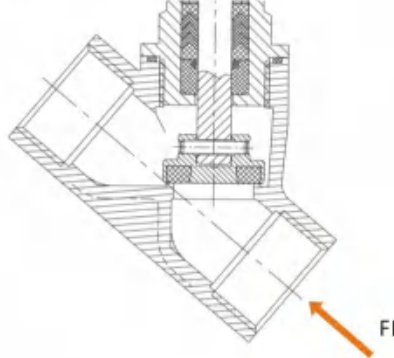
Medium temperature	-20°C ~ +180°C
Environment temperature	-20°C ~ +60°C
Liquid working pressure	1.6MPa
Controlling medium	Air or Neutral gas
Controlling pressure range	0.3~0.8MPa
Orifice	DN15-DN100
Valve material	CF8 CF8M
Valve core seal	PTFE
Valve stem seal	304
Seal material	NBR
Actuator material	Aluminium, Stainless steel, Plastic

Action type

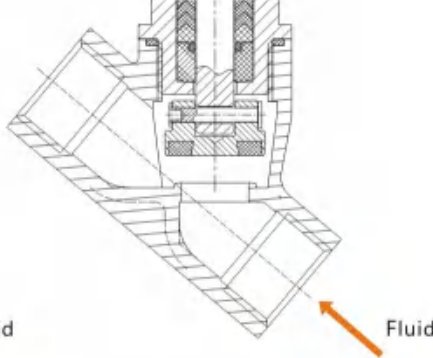
Normally closed with water hammer
type medium flow direction



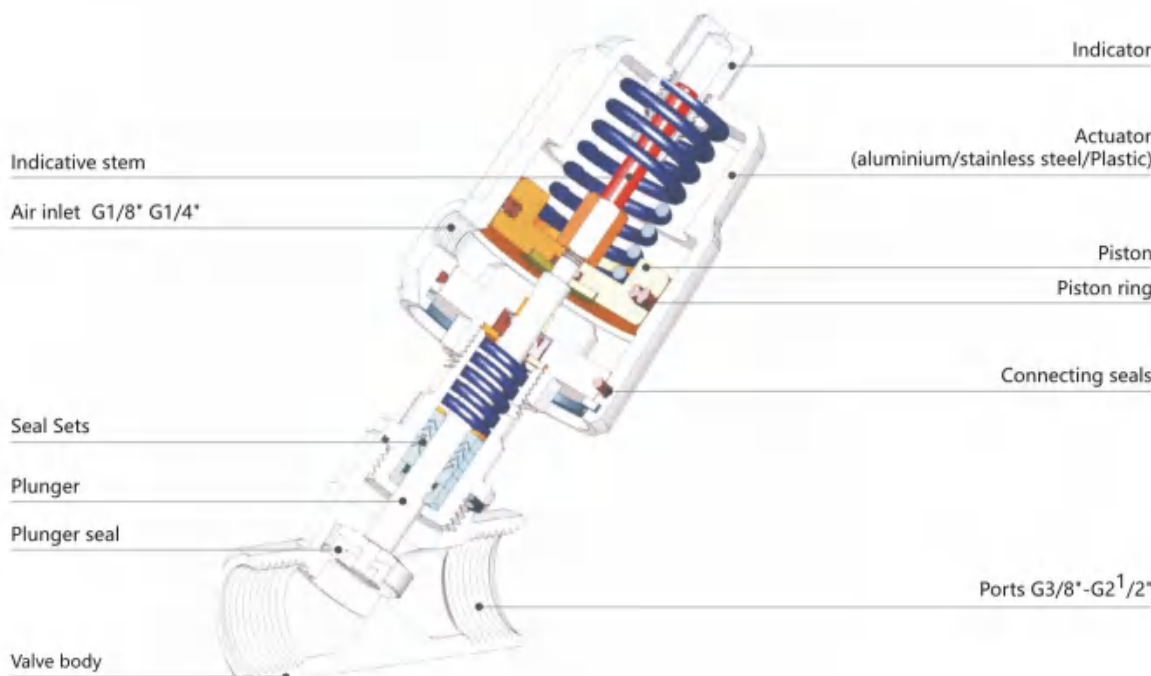
Normally closed without water hammer
type medium flow direction



Normally open medium
flow direction



Note: For double-acting plastic angle valves, refer to the medium direction of " normally closed type with water hammer " for regular use. If the control air pressure is large enough, it can also be used in the direction of the medium of the " normally closed type without water hammer " .

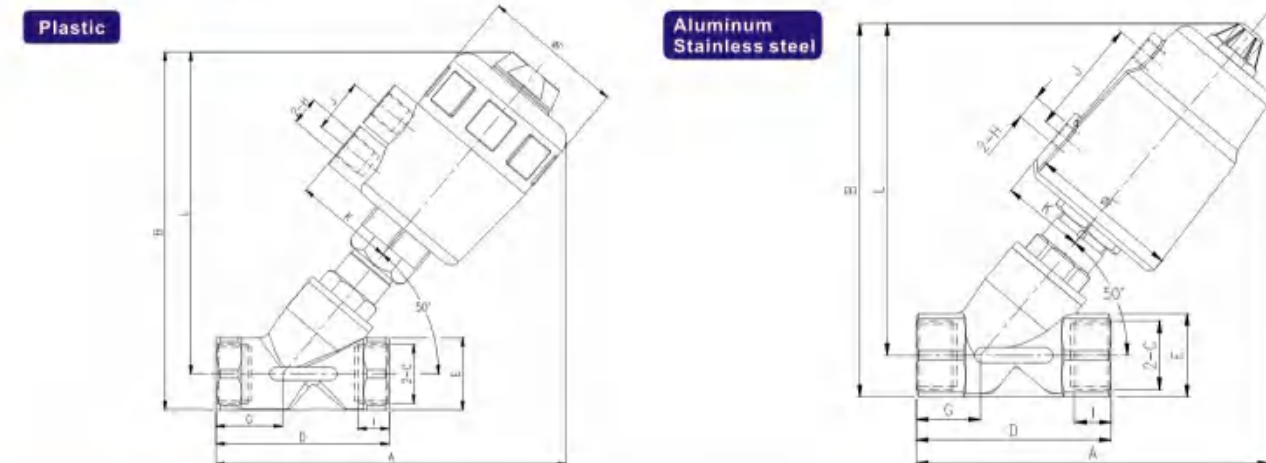


RJQ22

Pneumatic Threaded
Angled Seat Valve



Overall Dimension



Plastic														
Model	Flow diameter DN(mm)	Actuator size	A	B	C	D	E	F	G	H	I	J	K	L
RJQ22-P40-10-1	13	40	138	147	G3/8"	69	27	53	25	G1/4	12	20.5	33	133.5
RJQ22-P50-10-1	13	50	148	157	G3/8"	69	27	63.3	25	G1/4	12	24	44.5	143.5
RJQ22-P50-15-1	13	50	148	157	G1/2"	69	27	63.3	23.1	G1/4	12	24	44.5	143.5
RJQ22-P50-20-1	18	50	151	161.5	G3/4"	75.5	32	63.3	25	G1/4	14	24	44.5	145.5
RJQ22-P50-25-1	22	50	172	183.5	G1"	90.5	39	63.3	30.3	G1/4	14.5	24	44.5	164
RJQ22-P63-25-1	22	63	213.5	209	G1"	90.5	39	79.5	30.3	G1/4	14.5	24	51.8	189.5
RJQ22-P63-32-1	31	63	213.5	227	G1-1/4"	117.5	50	79.5	37.7	G1/4	20	24	51.8	199.5
RJQ22-P63-40-1	35	63	213.5	227	G1-1/2"	117.5	55	79.5	33.7	G1/4	18.5	24	51.8	199.5
RJQ22-P80-40-1	35	80	229	243.5	G1-1/2"	117.5	55	100	37.7	G1/4	18.5	24	59	216
RJQ22-P63-50-1	45	63	219.5	251	G2"	137.5	70	79.5	48	G1/4	22	24	51.8	216
RJQ22-P80-50-1	45	80	237.5	270.5	G2"	137.5	70	100	48	G1/4	22	24	59	235.5

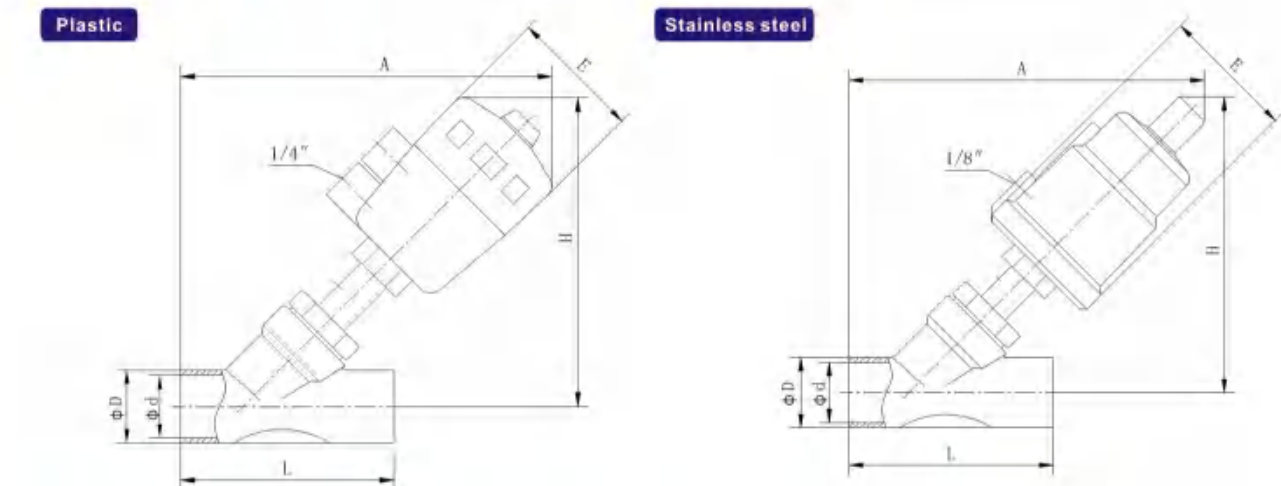
Aluminum, stainless steel														
Model	Flow diameter DN(mm)	Actuator size	A	B	C	D	E	F	G	H	I	J	K	L
RJQ22-S40-10-1	13	40	127.5	136	G3/8"	69	27	50	25	G1/8	12	33.5	26.5	122.5
RJQ22-S50-10-1	13	50	140	150	G3/8"	69	27	60.5	25	G1/8	12	45	32	136.5
RJQ22-S40-15-1	13	40	127.5	136	G1/2"	69	27	50	23.1	G1/8	12	33.5	26.5	122.5
RJQ22-S50-15-1	13	50	140	150	G1/2"	69	27	60.5	23.1	G1/8	12	45	32	136.5
RJQ22-S50-20-1	18	50	143	155	G3/4"	75.5	32	60.5	25	G1/8	14	45	32	139
RJQ22-S50-25-1	22	50	163.5	176	G1"	90.5	39	60.5	30.3	G1/8	14.5	45	32	156.5
RJQ22-S63-25-1	22	63	174.5	189.5	G1"	90.5	39	77	30.3	G1/8	14.5	60	40.5	170
RJQ22-S63-32-1	31	63	190.5	207.5	G1-1/4"	117.5	50	77	37.7	G1/8	20	60	40.5	180
RJQ22-S63-40-1	35	63	190.5	207.5	G1-1/2"	117.5	55	77	33.7	G1/8	18.5	60	40.5	180
RJQ22-S80-40-1	35	80	207.5	220.5	G1-1/2"	117.5	55	98	37.7	G1/4	18.5	74.5	51	193
RJQ22-S63-50-1	45	63	219.5	232.5	G2"	137	70	77	48	G1/8	22	60	40.5	207.5
RJQ22-S80-50-1	45	80	233	253	G2"	137	70	98	48	G1/4	22	74.5	51	218
RJQ22-S80-65-1	58	80	261.5	278	G2-1/2"	170	85	98	52	G1/4	24	74.5	51	237.5
RJQ22-S100-65-1	58	100	270	290.5	G2-1/2"	170	85	116	52	G1/4	24	80.5	63.5	248

RJQ22

Pneumatic Welded
Angle Seat Valve



Overall Dimension



Plastic								
Model	Flow diameter DN(mm)	Actuator size	L	d	D	A	H	E
RJQ22-P50-15-9	15	50	120	15	21	175	137	64
RJQ22-P50-20-9	20	50	130	20	25	180	145	64
RJQ22-P63-25-9	25	63	140	25	33	215	185	80
RJQ22-P63-32-9	32	63	150	35	41	235	210	80
RJQ22-P63-40-9	40	63	180	38	45	245	260	80
RJQ22-P80-50-9	50	80	195	48	57	325	300	100
RJQ22-P80-63-9	63	80	200	58	64	325	350	100
RJQ22-P80-65-9	65	80	230	68	77	352	368	100
RJQ22-P100-80-9	80	100	250	82	92	385	380	126
RJQ22-P125-100-9	100	125	295	98	108	412	400	156

Stainless steel								
Model	Flow diameter DN(mm)	Actuator size	L	d	D	A	H	E
RJQ22-S50-15-9	15	50	120	15	21	155	120	62
RJQ22-S50-20-9	20	50	130	20	25	160	130	62
RJQ22-S63-25-9	25	63	140	25	33	180	150	62
RJQ22-S63-32-9	32	63	150	35	41	215	195	76
RJQ22-S63-40-9	40	63	180	38	45	225	245	76
RJQ22-S80-50-9	50	80	195	48	57	282	295	76
RJQ22-S80-63-9	63	80	200	58	64	320	350	96
RJQ22-S80-65-9	65	80	230	68	77	340	385	96
RJQ22-S100-80-9	80	100	250	82	92	360	400	114
RJQ22-S125-100-9	100	125	295	98	108	385	410	114

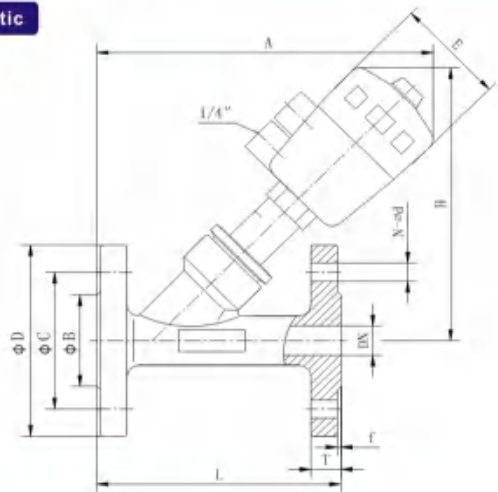
RJQ22

Pneumatic Flanged
Angle Seat Valves

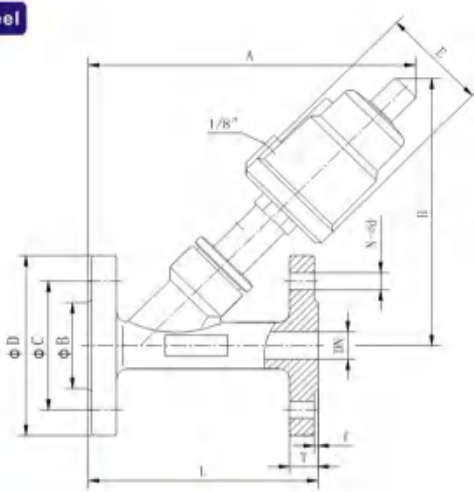


Overall Dimension

Plastic



Stainless steel



Plastic

Model	Flow diameter DN(mm)	Actuator size	L	T	f	D	C	B	A	H	E	N-Φd
RJQ22-P50-15-4	15	50	120	14	2	95	65	40	180	137	64	4-Φ14
RJQ22-P50-20-4	20	50	130	14	2	105	75	50	185	145	64	4-Φ14
RJQ22-P63-25-4	25	63	140	14	2	115	85	60	220	185	80	4-Φ14
RJQ22-P63-32-4	32	63	150	16	2	135	100	70	240	210	80	4-Φ18
RJQ22-P63-40-4	40	63	180	16	2	145	110	80	245	260	80	4-Φ18
RJQ22-P80-50-4	50	80	195	16	2	160	125	92	265	280	100	4-Φ18
RJQ22-P80-65-4	65	80	230	18	2	185	145	115	280	300	100	4-Φ18
RJQ22-P100-80-4	80	100	250	18	2	195	160	130	320	330	126	8-Φ18
RJQ22-P125-100-4	100	125	295	18	2	215	180	150	360	350	156	8-Φ18

Stainless steel

Model	Flow diameter DN(mm)	Actuator size	L	T	f	D	C	B	A	H	E	N-Φd
RJQ22-S50-15-4	15	50	120	14	2	95	65	40	185	145	62	4-Φ14
RJQ22-S50-20-4	20	50	130	14	2	105	75	50	188	155	62	4-Φ14
RJQ22-S63-25-4	25	63	140	14	2	115	85	60	208	165	62	4-Φ14
RJQ22-S63-32-4	32	63	150	16	2	135	100	70	225	195	76	4-Φ18
RJQ22-S63-40-4	40	63	180	16	2	145	110	80	240	205	76	4-Φ18
RJQ22-S80-50-4	50	80	195	16	2	160	125	92	265	228	76	4-Φ18
RJQ22-S80-65-4	65	80	230	18	2	185	145	115	290	264	96	4-Φ18
RJQ22-S100-80-4	80	100	250	18	2	195	160	130	330	300	114	8-Φ18
RJQ22-S125-100-4	100	125	295	18	2	215	180	150	350	320	114	8-Φ18

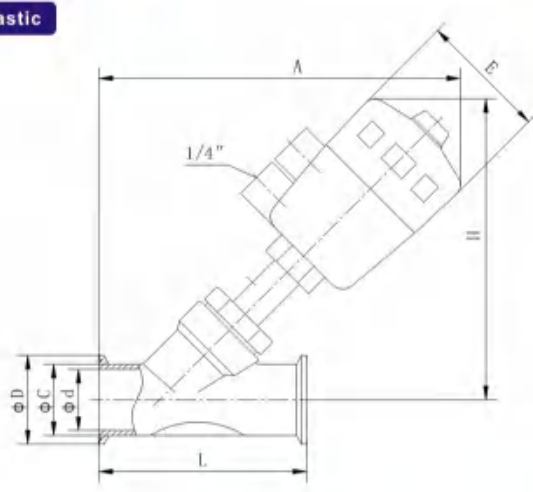
RJQ22

Pneumatic Quick-mounting
Angle Seat Valve

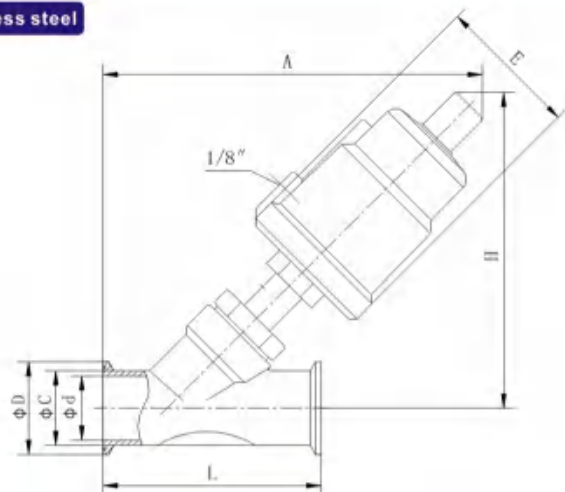


Overall Dimension

Plastic



Stainless steel



Plastic

Model	Flow diameter DN(mm)	Actuator size	L	d	C	D	A	H	E
RJQ22-P50-15-8	15	50	120	15	21	50.5	180	137	64
RJQ22-P50-20-8	20	50	140	20	25	50.5	185	145	64
RJQ22-P63-25-8	25	63	160	25	33	50.5	220	183	80
RJQ22-P63-32-8	32	63	175	35	40	50.5	240	210	80
RJQ22-P63-40-8	40	63	190	38	44	50.5	250	260	80
RJQ22-P80-50-8	50	80	210	48	56	64	320	300	100
RJQ22-P80-63-8	63	80	210	58	64	77.5	330	340	100
RJQ22-P80-65-8	65	80	245	68	77	91	380	375	100

Stainless steel

Model	Flow diameter DN(mm)	Actuator size	L	d	C	D	A	H	E
RJQ22-S50-15-8	15	50	120	15	21	50.5	160	120	62
RJQ22-S50-20-8	20	50	140	20	25	50.5	165	130	62
RJQ22-S63-25-8	25	63	160	25	33	50.5	185	160	62
RJQ22-S63-32-8	32	63	175	35	40	50.5	220	195	76
RJQ22-S63-40-8	40	63	190	38	44	50.5	230	245	76
RJQ22-S80-50-8	50	80	210	48	56	64	280	285	76
RJQ22-S80-63-8	63	80	210	58	64	77.5	320	350	96
RJQ22-S80-65-8	65	80	245	68	77	91	360	370	96

RQ22HD Right angle valve

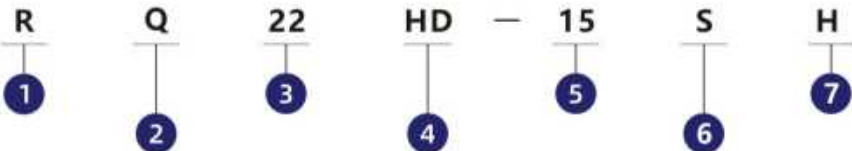
Classical design, durable
Air control design, energy saving and environmental protection
Big flow rate, safety and Precision

Features

Can work at low pressure, smartness for on and There are many types of structure single acting and double acting control,etc structure single acting type and double acting type. Application: food, medicine, industry, abstersion, landification, printing, etc.



Order Code



1. RFS product

2. Right angle valve code

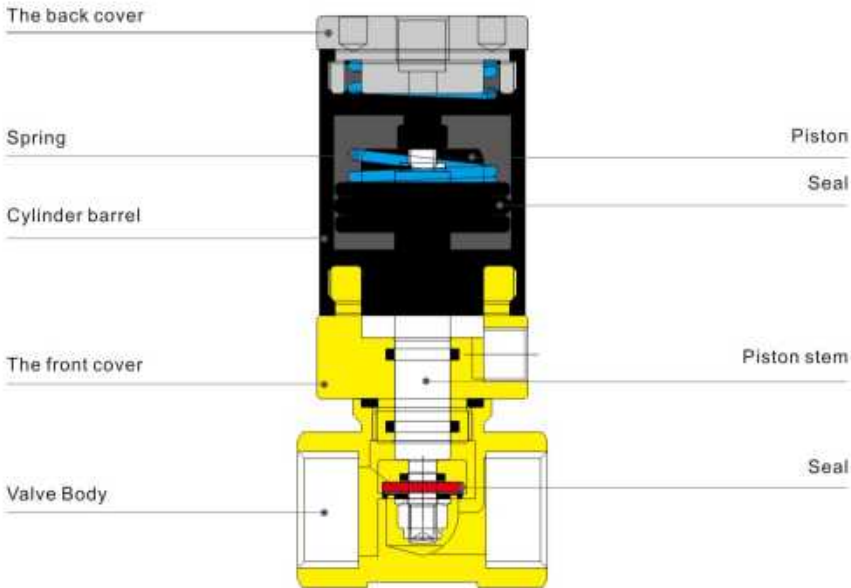
3. Two way two position

4. Air control liquid valve
5. Connection size
15: 1/2"
20: 3/4"
25: 1"
40: 1-1/2"
50: 2"
6. S: single acting type
D: double acting type
K: normally open

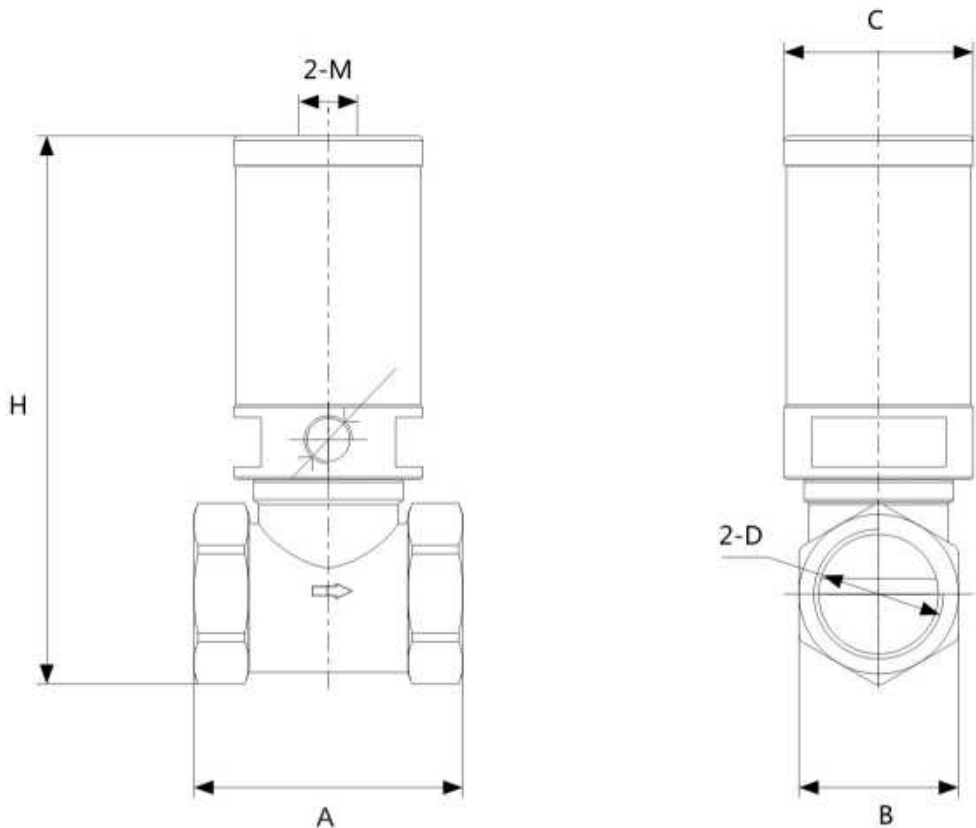
7. Material
H: high temperature type
Blank: normal type

Remark: Normally open: Flow comes under the piston seal, against arrow on body.

Structure chart



Overall Dimension



Model	A	B	C	2-D	H	M
RQ22HD-15	45	25	37	G1/2"	89.5	G1/8"
RQ22HD-20	50	31	37	G 3/4"	109	G1/8"
RQ22HD-25	64.5	38	37	G1"	118	G1/8"
RQ22HD-40	80	53	55	G1-1/2"	162	G1/8"
RQ22HD-50	99.5	65	78	G2"	179	G1/4"

Model	Orifice	Media	Working pressure	Control pressure	Temp range	Kv value (m ³ /k)
RQ22HD-15	13mm	Compress Air Water Oil	0-0.8MPa	0.4-0.8MPa	-5~80(High temp) -20~150(High temp)	4
RQ22HD-20	16mm					5
RQ22HD-25	22mm					10
RQ22HD-40	35mm					25
RQ22HD-50	45mm					40

Pneumatic valves

Low power consumption, exhaust for the pilot and main valve, small size, large flow, good appearance, flexible, can be integrated installation, high wear resistance and long life.

- Pneumatic Actuator/Valve
- Angle seat valve
- **Pneumatic valves**
- 2/2 Valve
- Dust Collector Valves & Parts
- Drain valves
- Steam Valve
- Special Solenoid Valve

PREMIER QUALITY
GLOBAL REPUTATION



4V100

Low power consumption, exhaust for the pilot and main valve, small size, large flow , good appearance, flexible, can be integrated installation , high wear resistance and long life.



Order Code

4V 1 10 06 B AC220V W

1. Type
4V: 5/2 or 5/3 way solenoid valve
4A: 5/2 or 5/3 way pneumatic control valve
3V: 3/2 way solenoid valve
3A: 3/2 way pneumatic control valve
2. Series code
100: Series
3. Coil and position
10: Single-coil double-position
20: Double-coil double-position
30C: Double-coil three-position center close type
30E: Double-coil three-position center exhaust type
30P: Double-coil three-position center pressure type

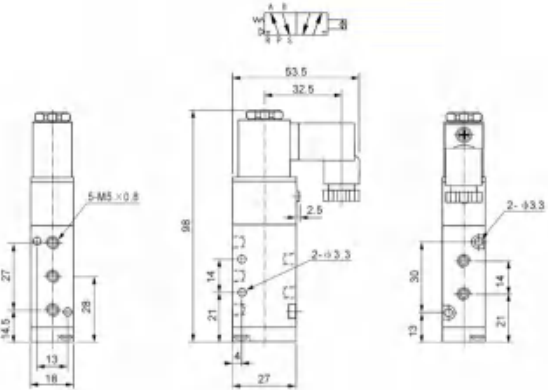
4. Joint pipe bore
M5: M5×0.8
06: 1/8"
5. Connection type
Blank: Thread type
B: Namur
6. Standard voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

7. Terminal
Blank: Black connector
LD: Brown with LED connector
LD1: White with LED connector
W: Lead wire type

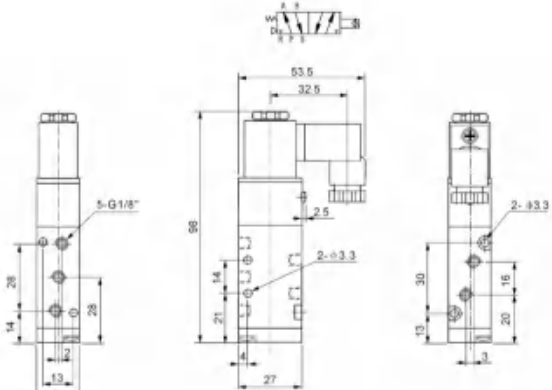
Specification

Model	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06	
	4A110-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06	
Type	5/2		5/3			5/2		5/3			
Flow rate	10mm ² (Cv=0.56)		7mm ² (Cv=0.40)			12mm ² (Cv=0.67)		9mm ² (Cv=0.5)			
Model	3V110-M5		3V120-M5		3A110-M5	3A120-M5	3V110-06		3V120-06	3A110-06	3A120-06
Type	3/2					3/2					
Flow rate	10mm ² (Cv=0.56)					12mm ² (Cv=0.67)					
Connection ports	Inlet = Outlet = Exhaust = M5x0.8					Inlet = Outlet = Exhaust = G1/8"					
Media	Clean air										
Working type	Pilot										
Working pressure	0.15 ~ 0.8MPa										
Max. pressure	1.2MPa										
Ambient temp.	-5 ~ 50°C										
Voltage tolerance	±10%										
Power	AC:2.5VA DC:2.5W										
Insulation class	F class. IP65										
Protection class											
Terminal	Flying Lead Or Din43650C PIN										
Frequency	5 cycles/s										
Response time	0.05s										

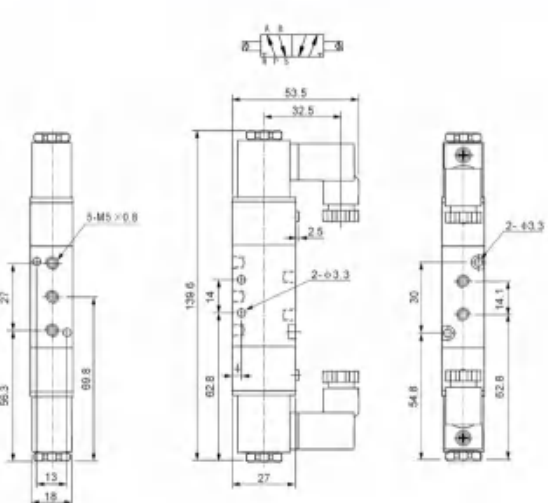
4V110-M5



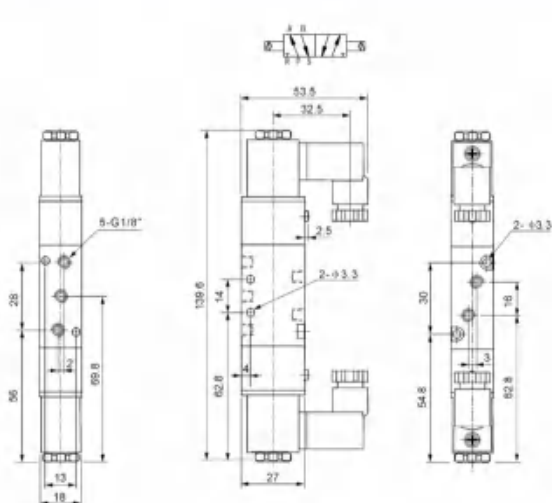
4V110-06



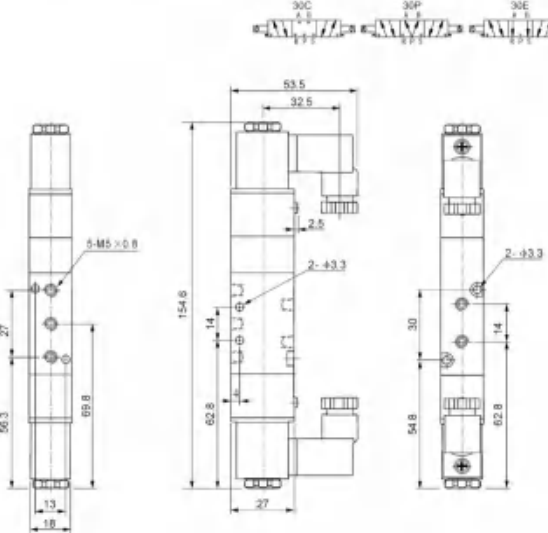
4V120-M5



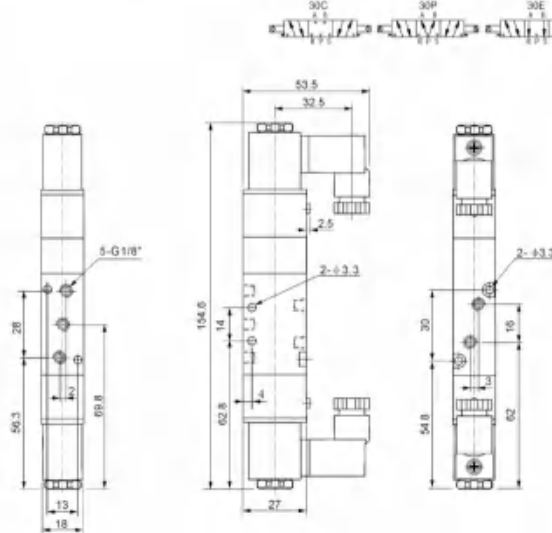
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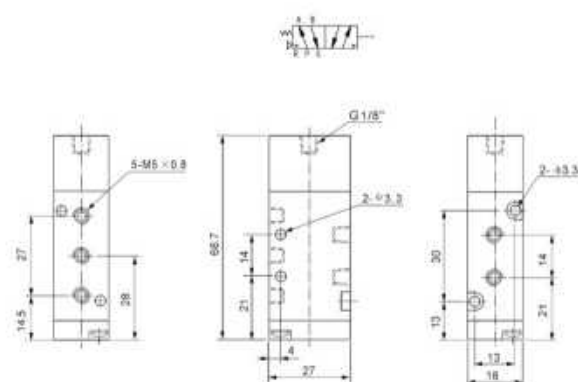
4V130-M5



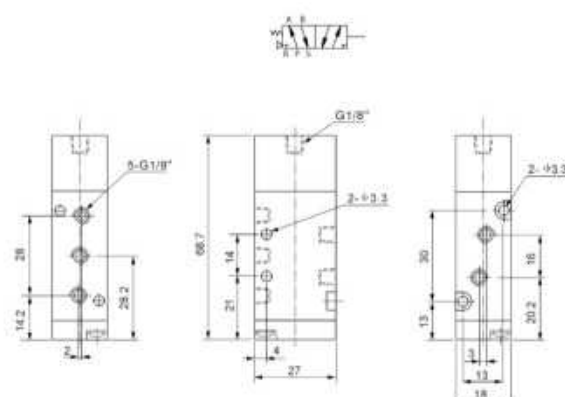
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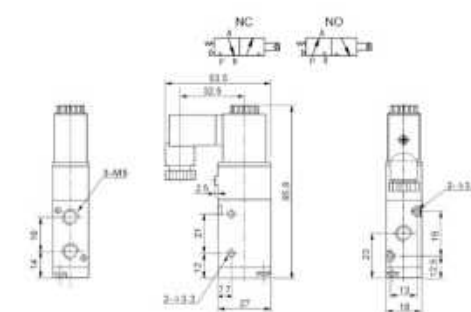
4A110-M5



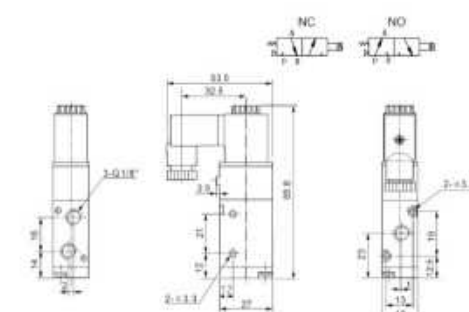
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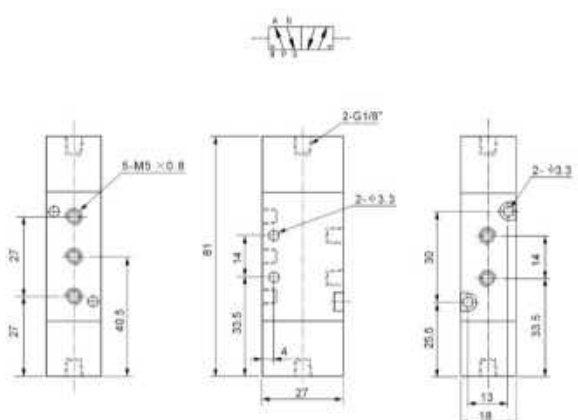
3V110-M5



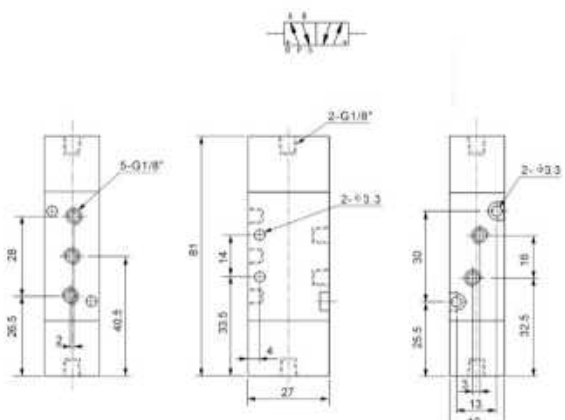
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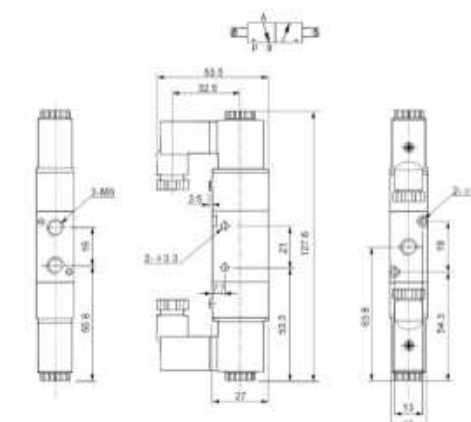
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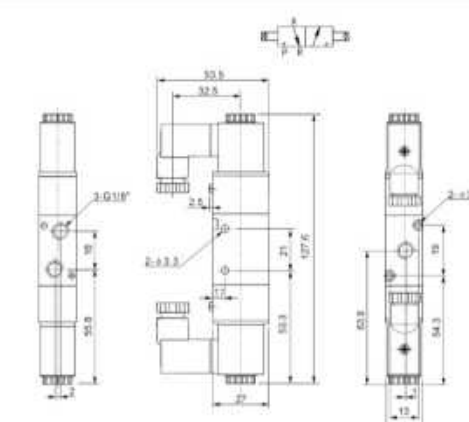
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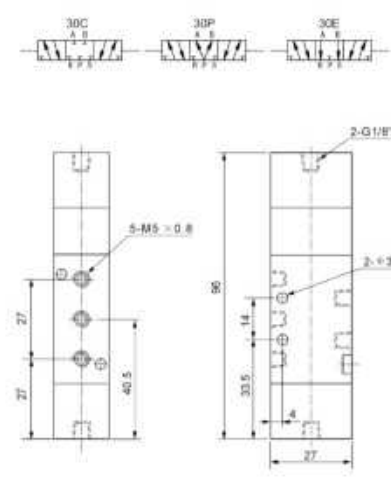
3V120-M5



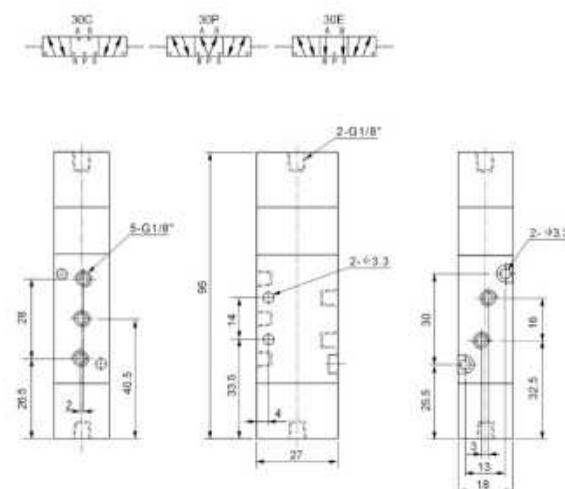
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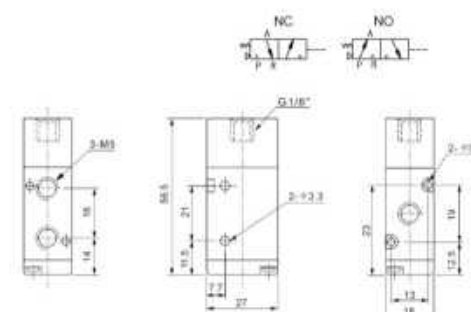
4A130-M5



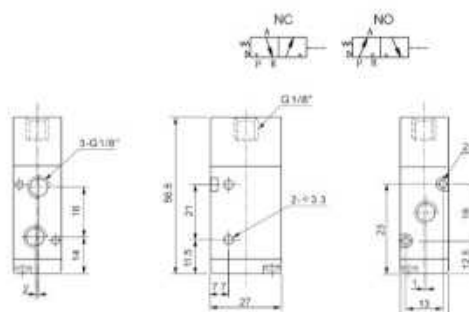
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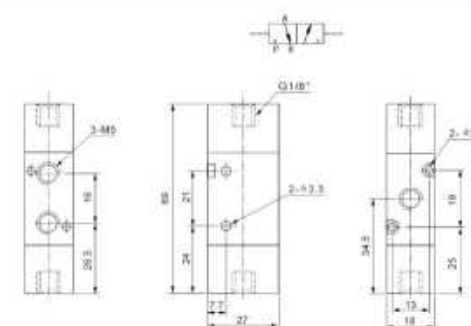
3A110-M5



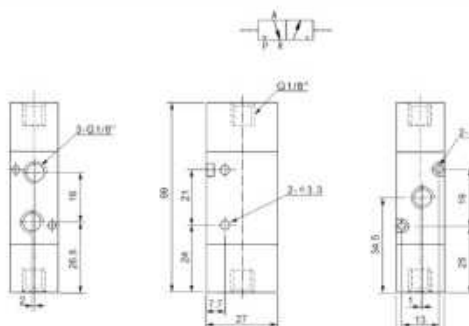
3A110-06



3A120-M5



3V120-06

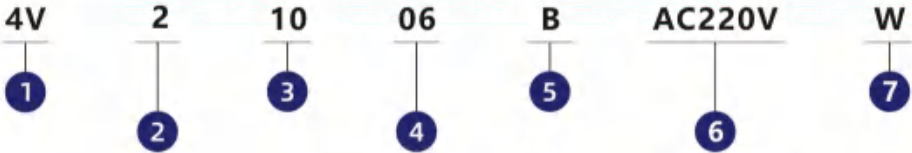


4V200

Low power consumption, exhaust for the pilot and main valve, small size, large flow , good appearance, flexible, can be integrated installation , high wear resistance and long life.



Order Code



1. Type
4V: 5/2 or 5/3 way solenoid valve
4A: 5/2 or 5/3 way pneumatic control valve
3V: 3/2 way solenoid valve
3A: 3/2 way pneumatic control valve
2. Series code
200: Series
3. Coil and position
10: Single-coil double-position
20: Double-coil double-position
30C: Double-coil three-position center close type
30E: Double-coil three-position center exhaust type
30P: Double-coil three-position center pressure type

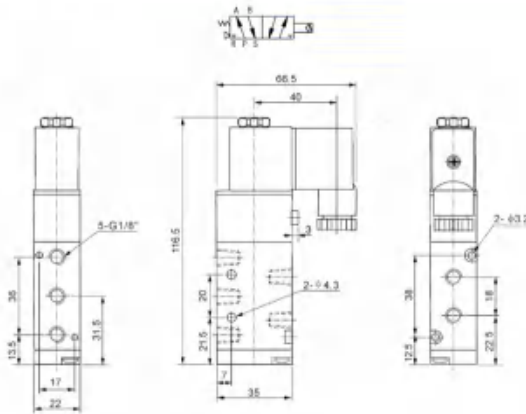
4. Joint pipe bore
06 1/8"
08 1/4"
5. Connection type
Blank: Thread type
B: Namur
6. Standard voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

7. Terminal
Blank: Black connector
LD: Brown with LED connector
LD1: White with LED connector
W: Lead wire type

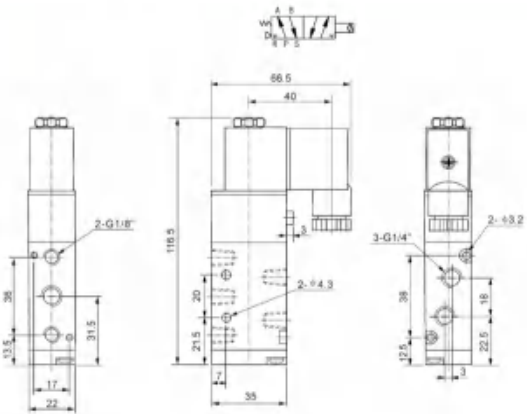
Specification

Model	4V210-06	4V220-06	4V230C-06	4V230E-06	4V230P-06	4V210-08	4V220-08	4V230C-08	4V230E-08	4V230P-08
	4A210-06	4A220-06	4A230C-06	4A230E-06	4A230P-06	4A210-08	4A220-08	4A230C-08	4A230E-08	4A230P-08
Type	5/2		5/3			5/2		5/3		
Flow rate	14mm ² (Cv=0.78)		12mm ² (Cv=0.67)			16mm ² (Cv=0.89)		12mm ² (Cv=0.67)		
Model	3V210-06	3V220-06	3A210-06	3A220-06		3V210-08	3V220-08	3A210-08	3A220-08	
Type	3/2					3/2				
Flow rate	14mm ² (Cv=0.78)					16mm ² (Cv=0.89)				
Connection ports	Inlet = Outlet = Exhaust = G1/8"					Inlet = Outlet = G1/4" Exhaust = G1/8"				
Media	Clean air									
Working type	Pilot									
Working pressure	0.15 ~ 0.8MPa									
Max. pressure	1.2MPa									
Ambient temp.	-5 ~ 50℃									
Voltage tolerance	±10%									
Power	AC:4.5VA DC:3W									
Insulation class Protection class	F class. IP65									
Terminal	Flying Lead Or Din43650B PIN									
Frequency	5 cycles/s									
Response time	0.05s									

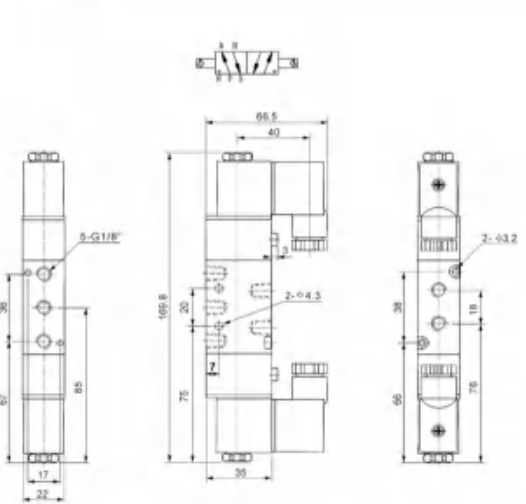
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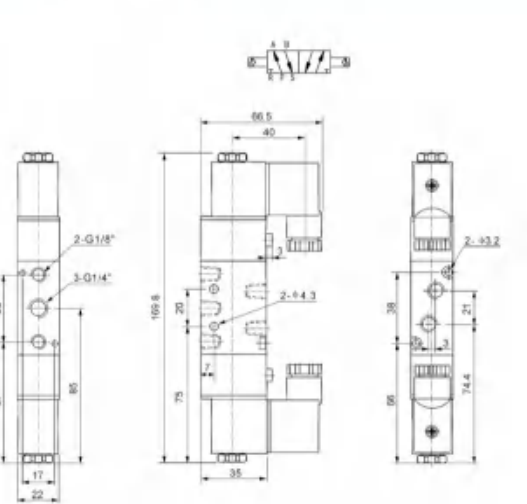
4V210-08



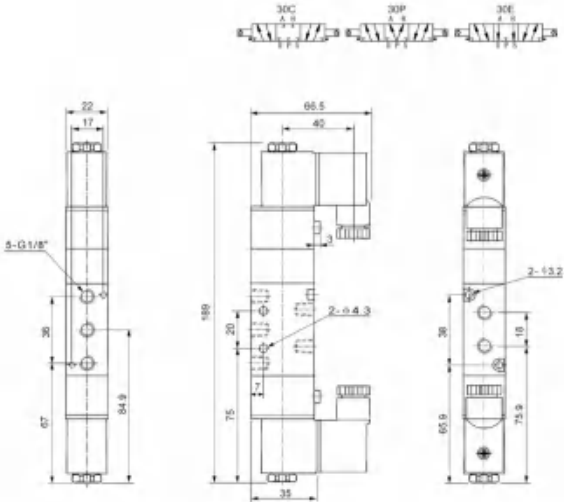
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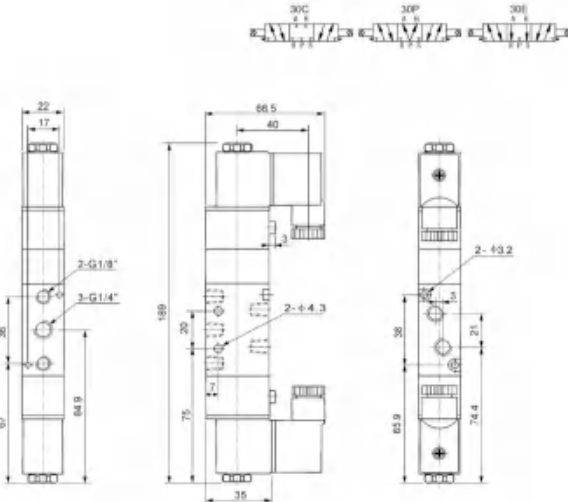
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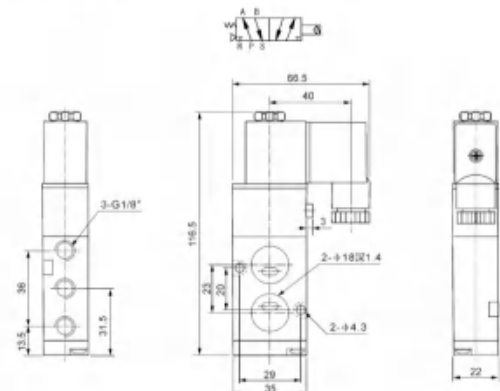
4V230-06



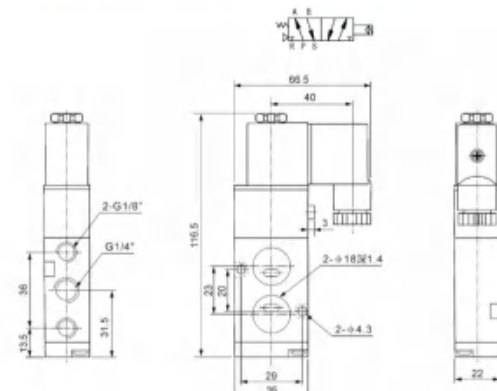
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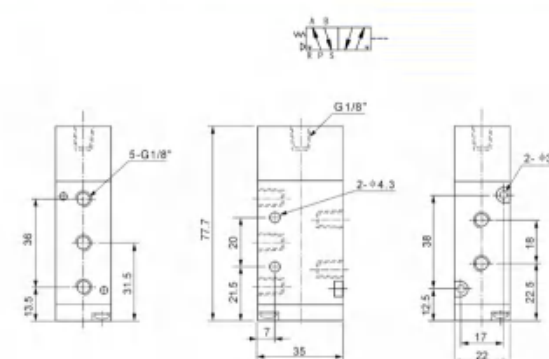
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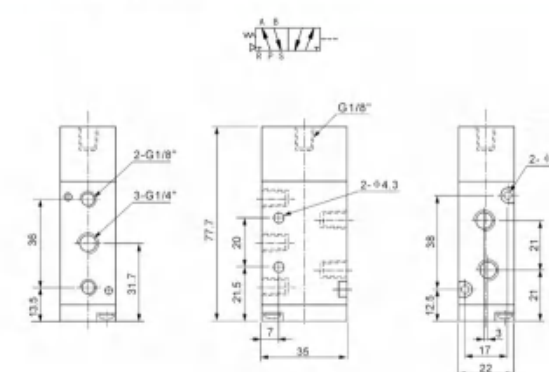
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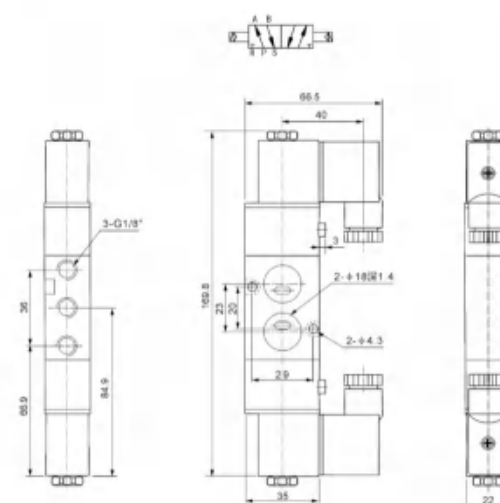
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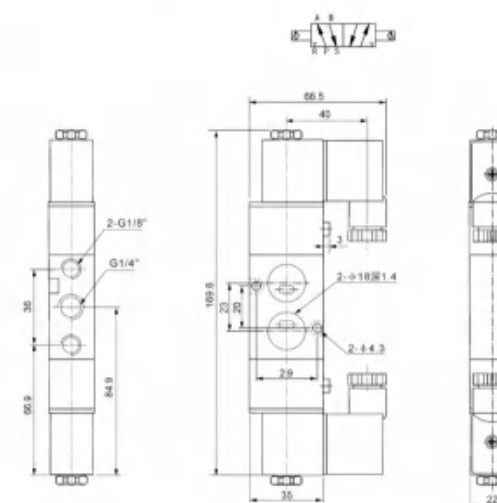
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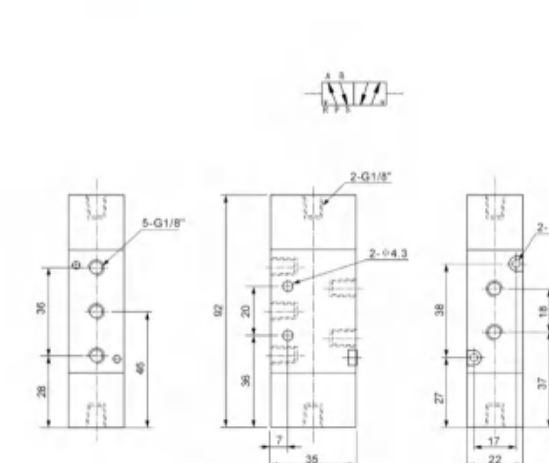
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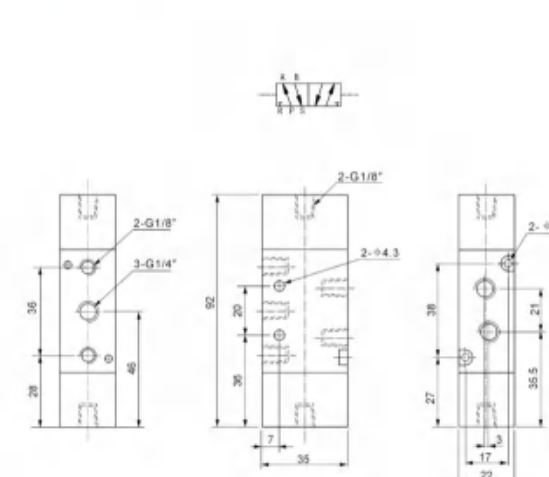
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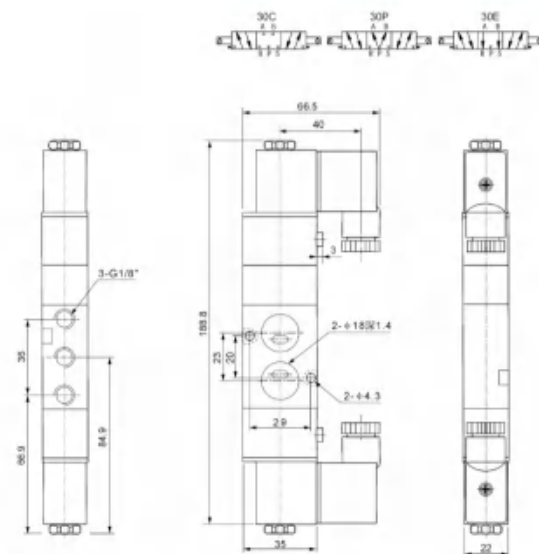
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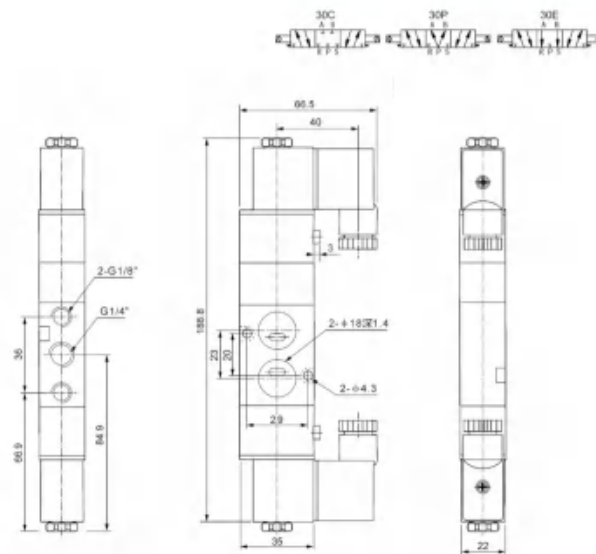
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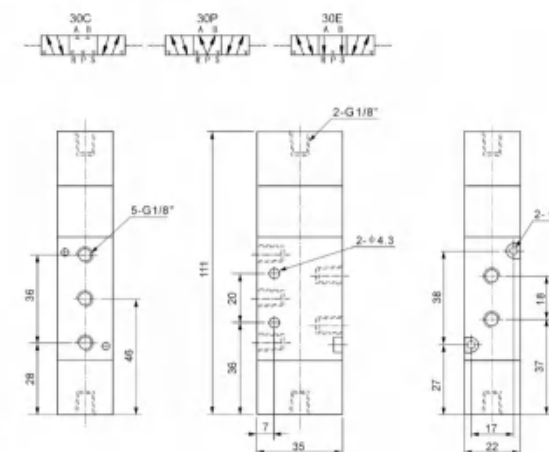
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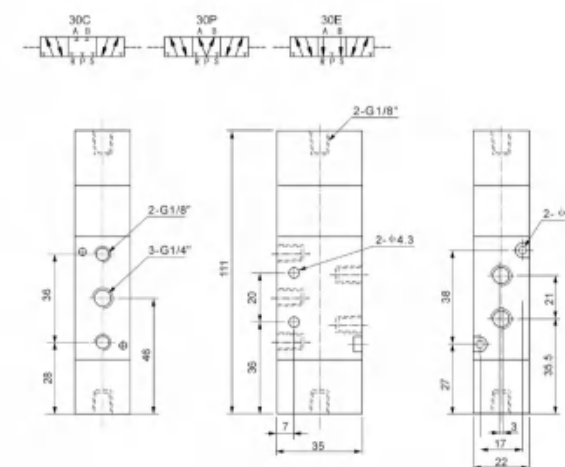
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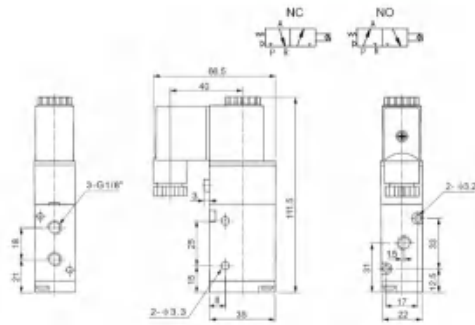
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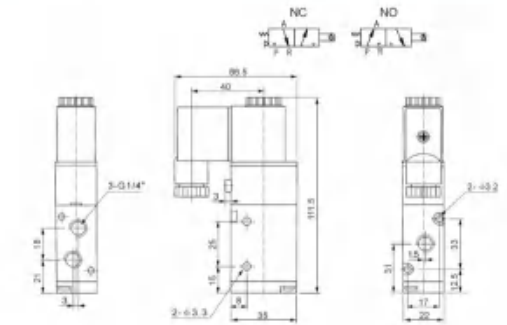
4A230-08



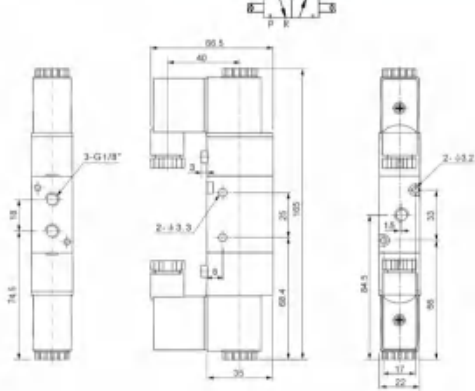
3V210-06



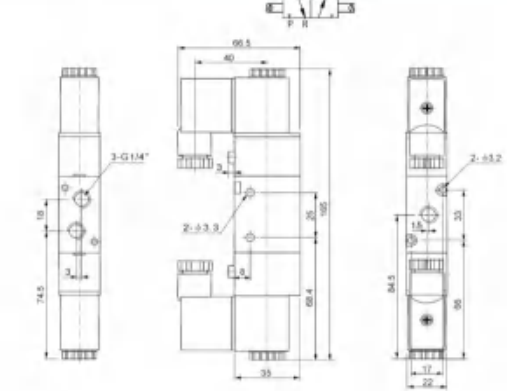
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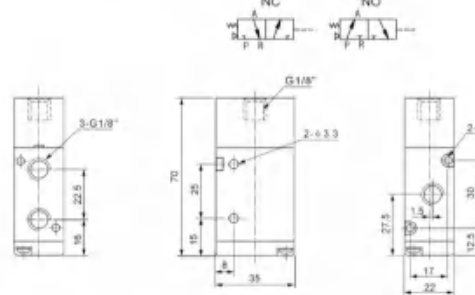
3V220-06



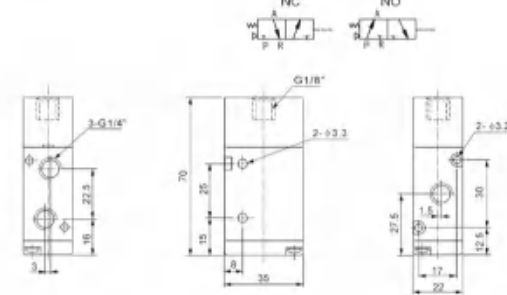
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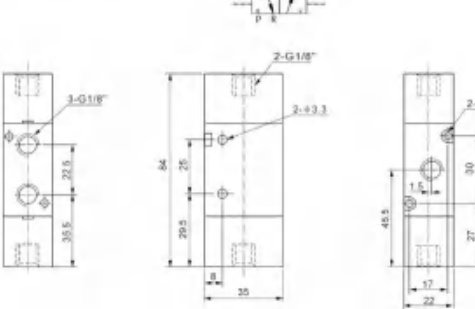
3A210-06



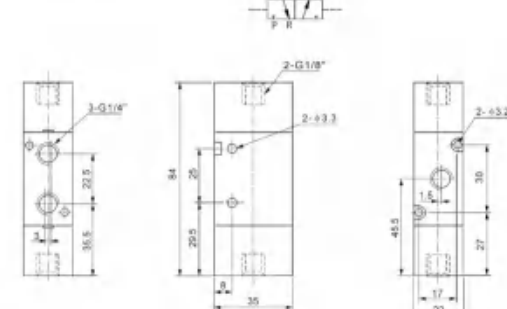
3A210-08



3A220-06



3A220-08

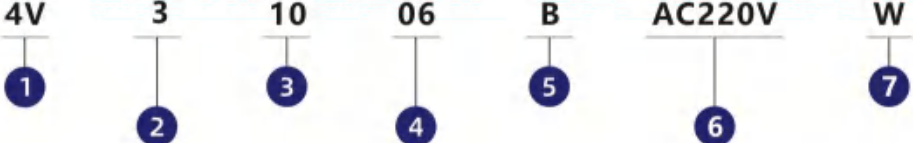


4V300

Low power consumption, exhaust for the pilot and main valve, small size, large flow , good appearance, flexible, can be integrated installation , high wear resistance and long life.



Order Code

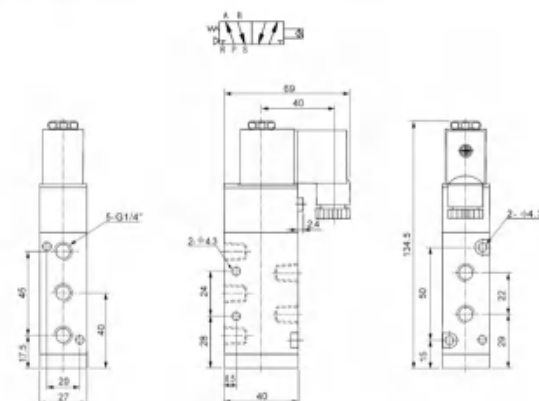


- 1. Type
4V: 5/2 or 5/3 way solenoid valve
4A: 5/2 or 5/3 way pneumatic control valve
3V: 3/2 way solenoid valve
3A: 3/2 way pneumatic control valve
- 2. Series code
300: Series
- 3. Coil and position
10: Single-coil double-position
20: Double-coil double-position
30C: Double-coil three-position center close type
30E: Double-coil three-position center exhaust type
30P: Double-coil three-position center pressure type
- 4. Joint pipe bore
08 1/4"
10 3/8"
- 5. Connection type
Blank: Thread type
B: Namur
- 6. Standard voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz
- 7. Terminal
Blank: Black connector
LD: Brown with LED connector
LD1: White with LED connector
W: Lead wire type

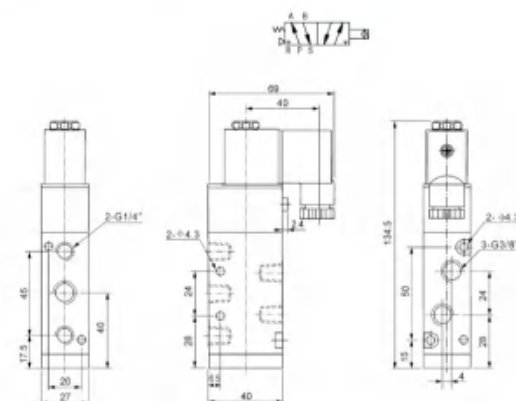
Specification

Model	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Type	5/2		5/3			5/2		5/3		
Flow rate	25mm ² (Cv=1.40)		18mm ² (Cv=1.00)			30mm ² (Cv=1.68)		18mm ² (CV=1.0)		
Model	3V310-08	3V320-08	3A310-08	3A320-08	3V310-10	3V320-10	3A310-10	3A320-10		
Type	3/2				3/2					
Flow rate	25mm ² (Cv=1.40)				30mm ² (Cv=1.68)					
Connection ports	Inlet = Outlet = Exhaust = G1/4"				Inlet = Outlet = G3/8" Exhaust = G1/4"					
Media	Clean air									
Working type	Pilot									
Working pressure	0.15 ~ 0.8MPa									
Max. pressure	1.2MPa									
Ambient temp.	-5 ~ 50°C									
Voltage tolerance	±10%									
Power	AC:4.5VA DC:3W									
Insulation class	F class. IP65									
Protection class	Flying Lead Or Din43650B PIN									
Terminal										
Frequency	5 cycles/s									
Response time	0.05s									

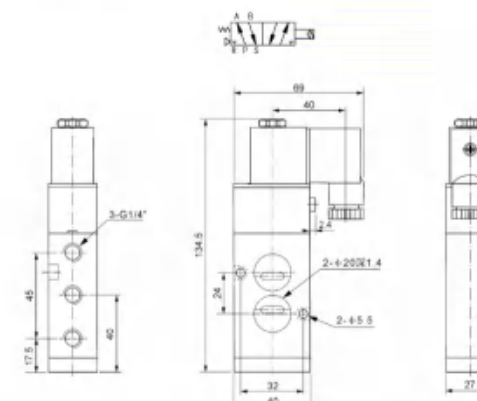
4V310-08



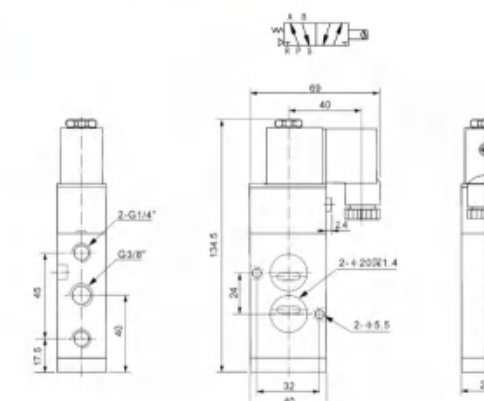
4V310-10



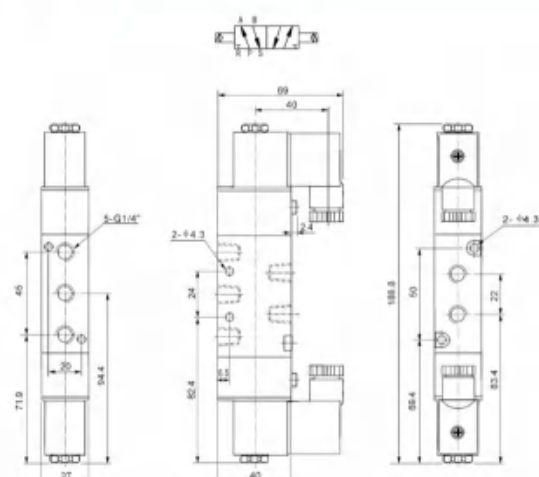
4V310-08B



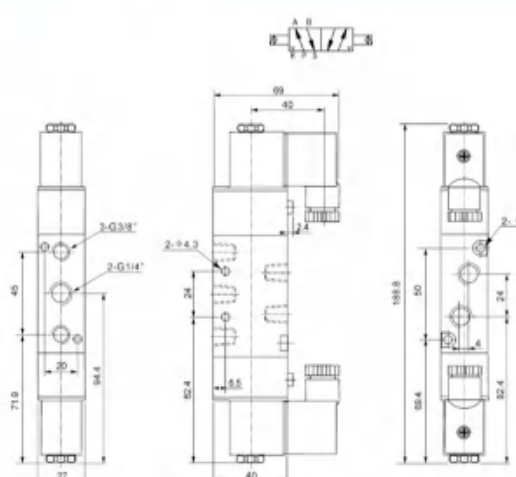
4V310-10B



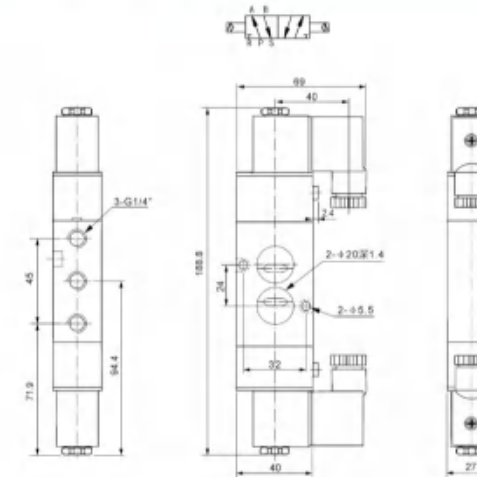
4V320-08



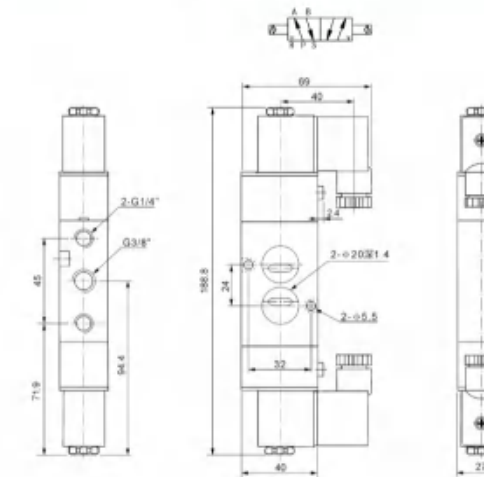
4V320-10



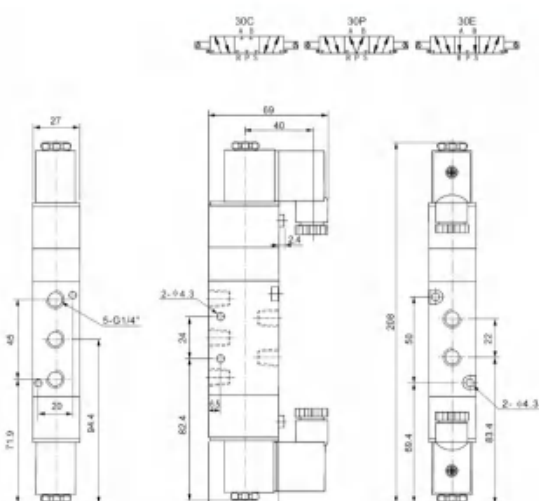
4V320-08B



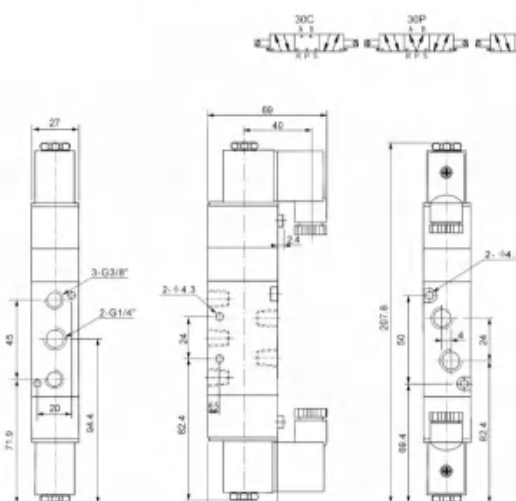
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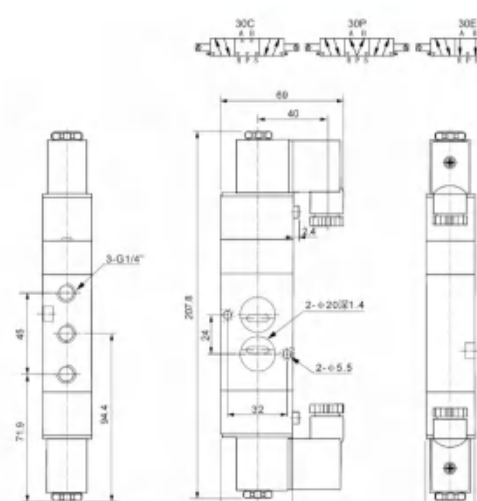
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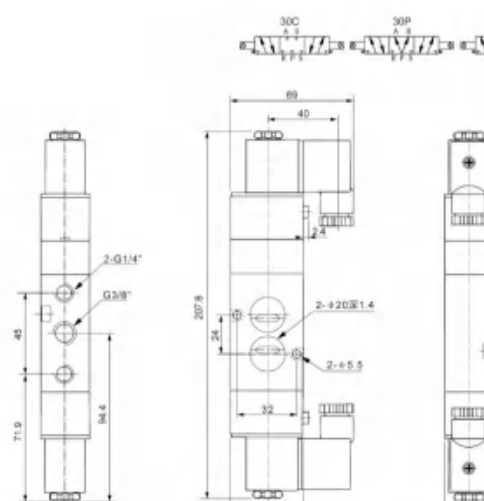
4V330-10



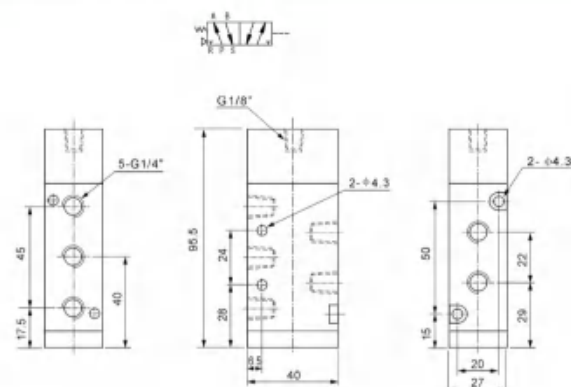
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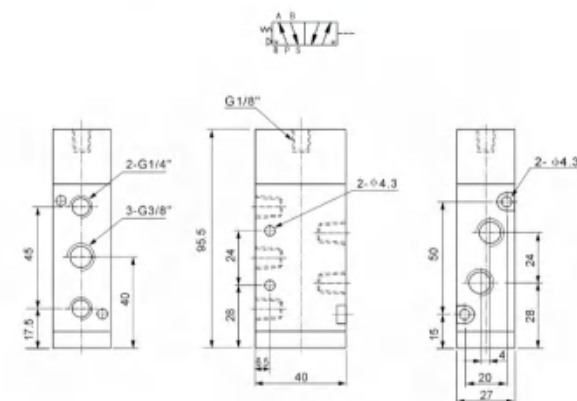
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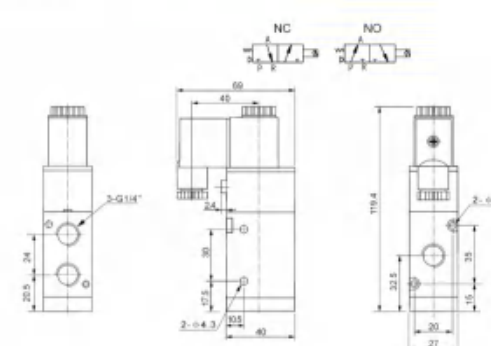
4A310-08



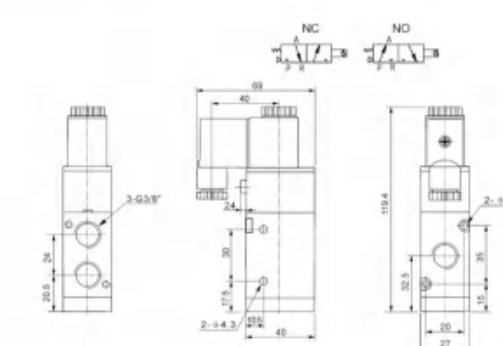
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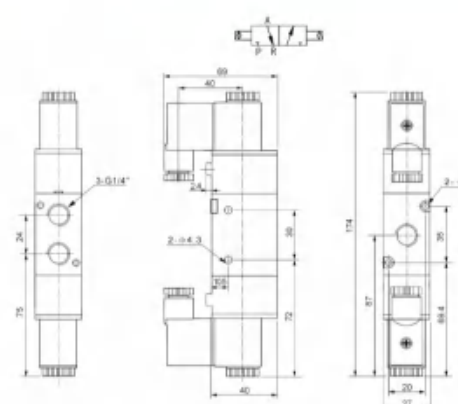
3V310-08



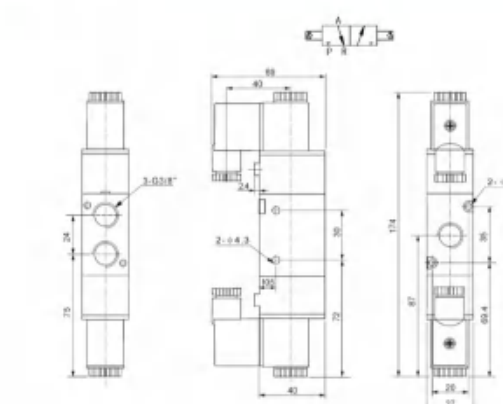
3V310-10



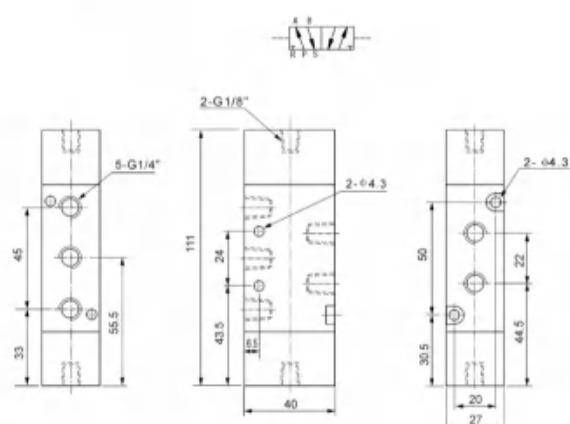
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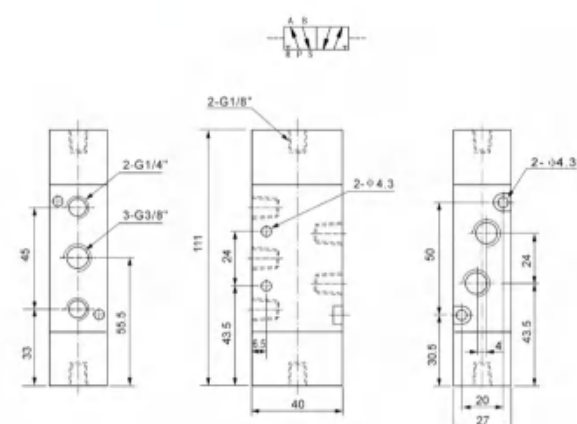
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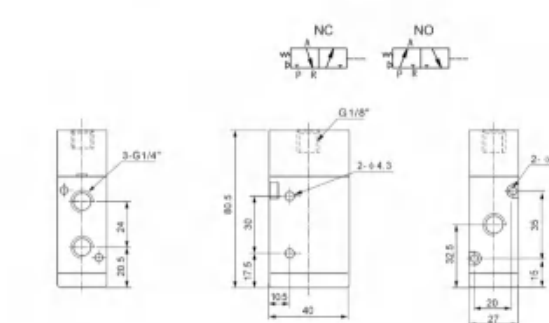
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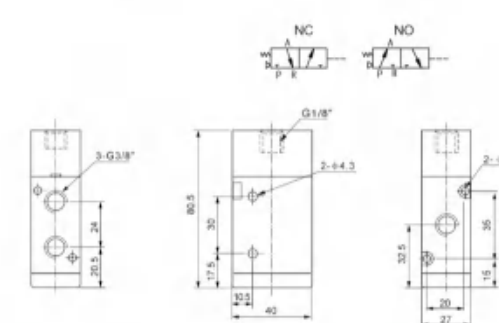
4A320-10



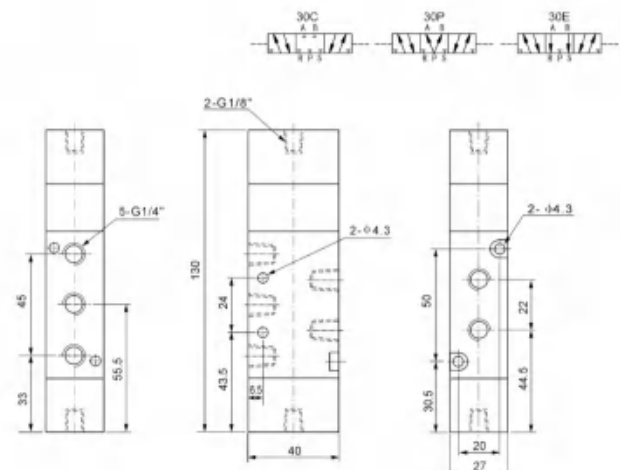
3A310-08



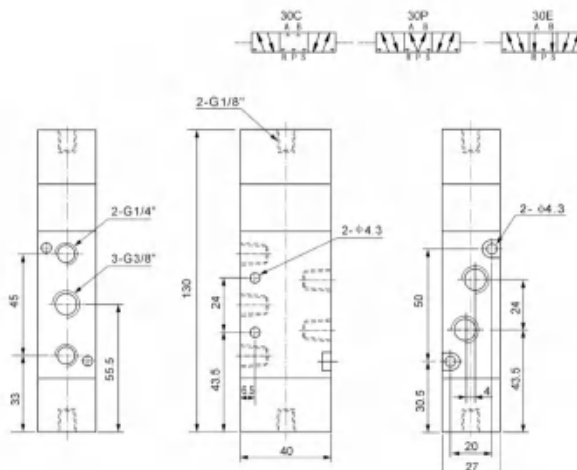
3A320-10



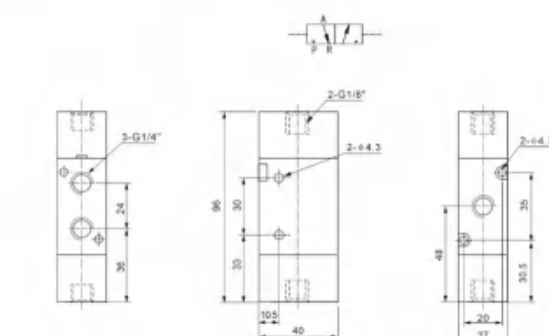
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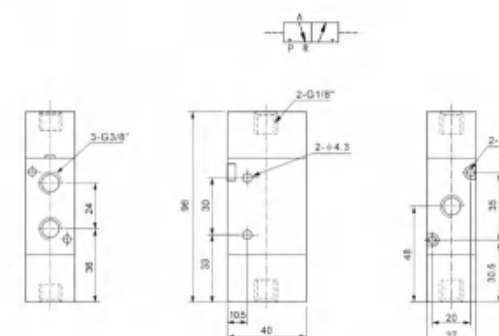
4A330-10



3A320-08



3A320-10

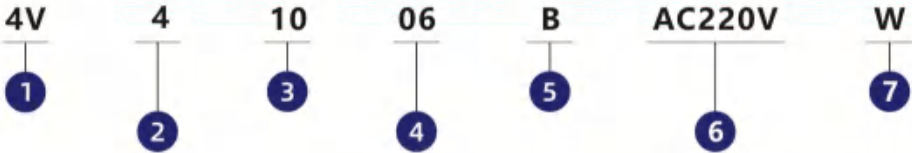


4V400

Low power consumption, exhaust for the pilot and main valve, small size, large flow , good appearance, flexible, can be integrated installation , high wear resistance and long life.



Order Code



1. Type
4V: 5/2 or 5/3 way solenoid valve
4A: 5/2 or 5/3 way pneumatic control valve
3V: 3/2 way solenoid valve
3A: 3/2 way pneumatic control valve
2. Series code
400: Series
3. Coil and position
10: Single-coil double-position
20: Double-coil double-position
30C: Double-coil three-position center close type
30E: Double-coil three-position center exhaust type
30P: Double-coil three-position center pressure type

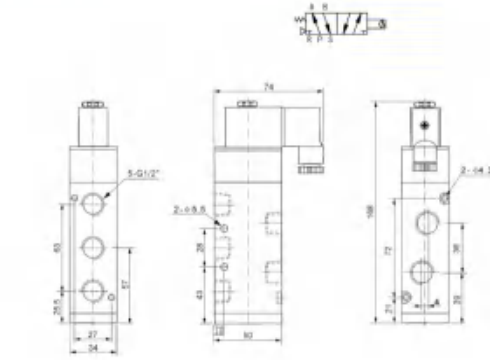
4. Joint pipe bore
15 1/2"
5. Connection type
Blank: Thread type
B: Namur
6. Standard voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

7. Terminal
Blank: Black connector
LD: Brown with LED connector
LD1: White with LED connector
W: Lead wire type

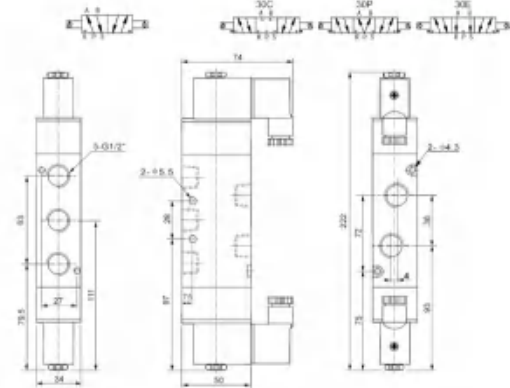
Specification

Model	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
	4A410-15	4A420-15	4A430C-15	4A430E-15	4A430P-15
Type	5/2		5/2		
Flow rate	50mm ² (Cv=2.79)		30mm ² (Cv=1.68)		
Model	3V410-15	3V420-15	3A410-15	3AV420-15	
Type	3/2				
Flow rate	50mm ² (Cv=2.79)				
Connection ports	Inlet = Outlet = Exhaust = G1/2"				
Media	Clean air				
Working type	Pilot				
Working pressure	0.15 ~ 0.8MPa				
Max. pressure	1.2MPa				
Ambient temp.	-5 ~ 50°C				
Voltage tolerance	±10%				
Power	AC:4.5VA DC:3W				
Insulation class	F class. IP65				
Protection class	F class. IP65				
Terminal	Flying Lead Or Din43650B PIN				
Frequency	5 cycles/s				
Response time	0.05s				

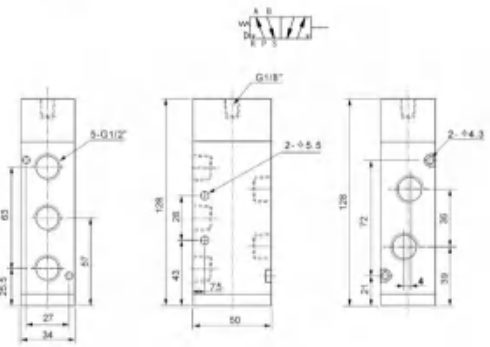
4V410-15



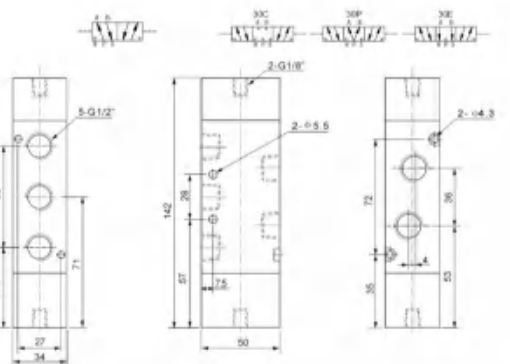
4V420-15 4V430-15



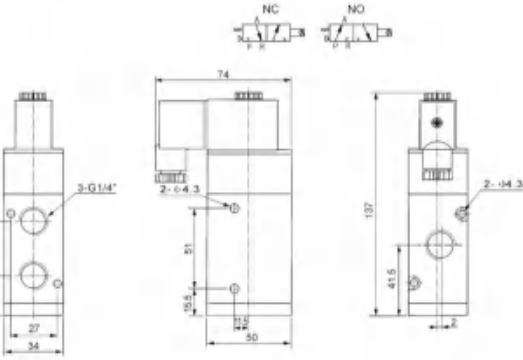
4A410-15



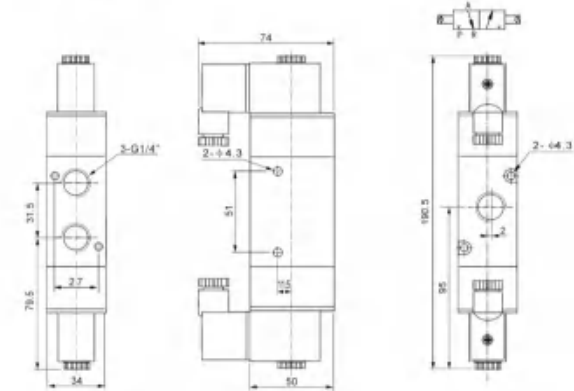
4A420-15 4A430-15



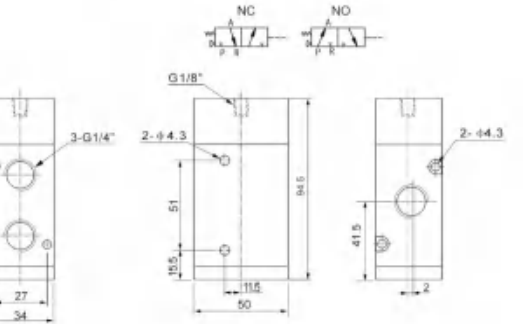
3A410-15



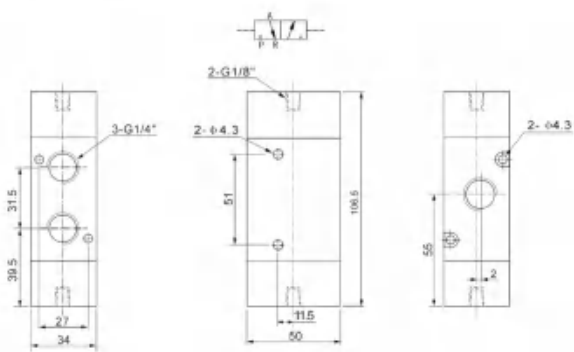
3V420-15



3A420-15



3A420-15

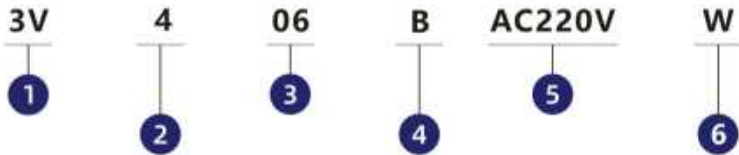


3V1

Low power consumption, exhaust for the pilot and main valve, small size, large flow , good appearance, flexible, can be integrated installation , high wear resistance and long life.



Order Code



1. Type
3V: 3/2 solenoid valve

2. Series code
100: series

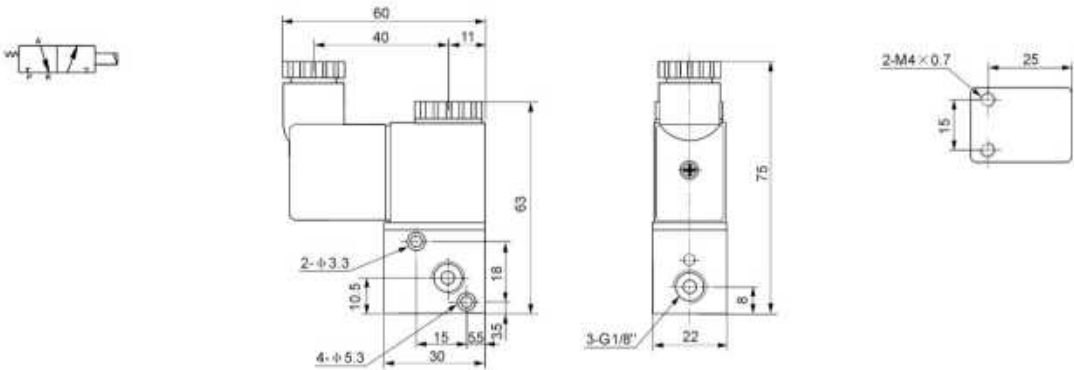
3. Connection ports
M5: M5
06: 1/8"
4. Connection type
Blank: Thread type
B: namur type

5. Standard voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz
7. Terminal
Blank: Black connector
LD: Brown with LED connector
LD1: White with LED connector
W: Lead wire type

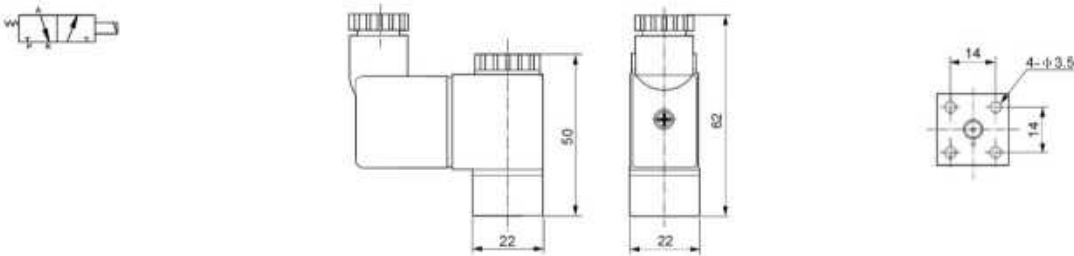
Specification

Model	3V1-M5	3V1-06
Medium	Clean air	
Working type	Direct action	
Model	M5	1/8"
Ambient temp.	-10~60℃	
Working Temp	-5~60℃	
Orifice	1.0mm	
Lubrication	No	
Pressure	0~0.8MPa	
Max. pressure	1.2MPa	
Power	AC 4.5VA DC 3W	
Protection class	IP65	
Cable Entry	Flying Lead Or Din43650C PIN	
Valve body material	Aluminum	
Frequency	10 cycles/s	
Insulation class	F class	
Voltage tolerance	±10%	
Response time	0.05s	

3V1-06



3V1-06B

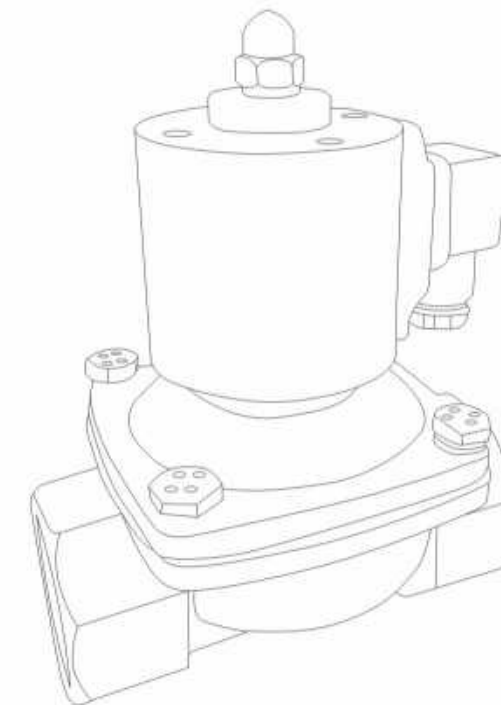


2/2 Valve

Various material for you chose, Reasonable design ,
Reliable quality

- Pneumatic Actuator/Valve
- Angle seat valve
- Pneumatic valves
- **2/2 Valve**
- Dust Collector Valves & Parts
- Drain valves
- Steam Valve
- Special Solenoid Valve

PREMIER QUALITY
GLOBAL REPUTATION



XINGYU ELECTRON(NINGBO)CO.,LTD.

2W(S)(large orifice)

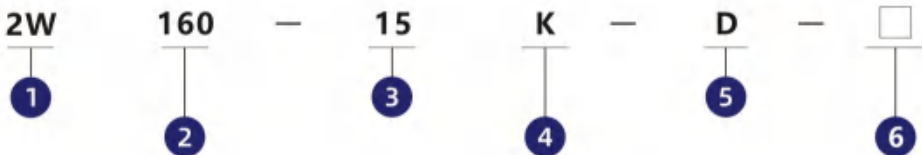
Various material for you chose,
Reasonable design , Reliable quality



Features

- Direct acting, diaphragm structure, can be work at zero pressure, expanding the using area.
- Plate diaphragm structure, high reliability, long life.
- Valve body can be made from brass, stainless steel.
- Plastic encapsulating coil , be able to use under numerous environment.

Order Code



1. Valve body
2W: Brass
2S: stainless steel
2WH: High Temperature
2P: Plastic

2. Orifice
160: 16mm
200: 20mm
250: 25mm
350: 35mm
400: 40mm
500: 50mm

3. Connection port
10: 3/8"
15: 1/2"
20: 3/4"
25: 1"
35: 1-1/4"
40: 1-1/2"
50: 2"

4. Initial state
Blank: normal close
K: normal open

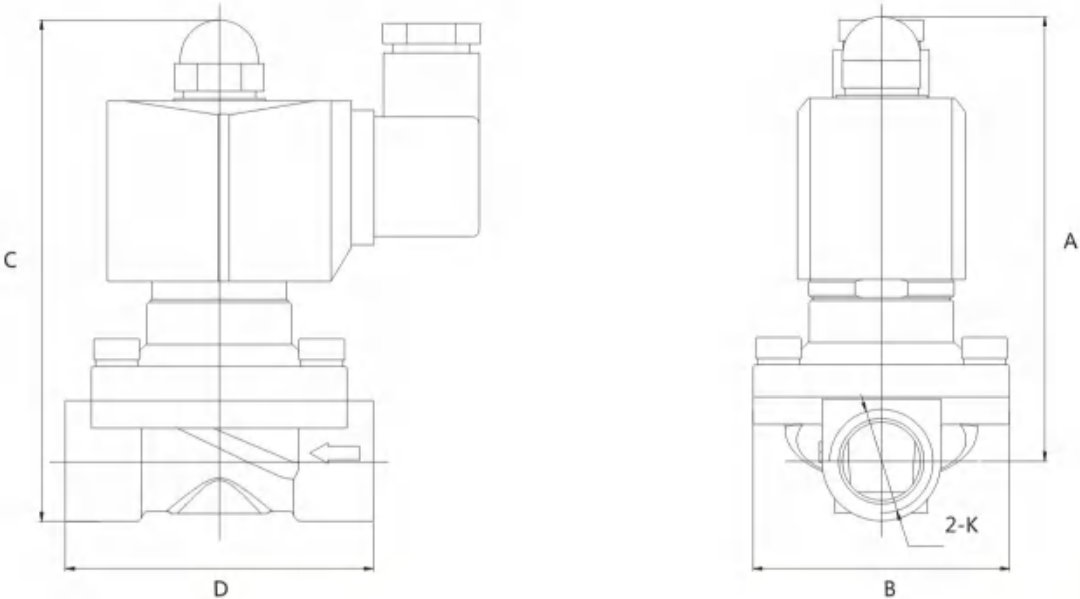
5. Standard voltage
A: DC12V
B: DC24V
C: AC24V
D: AC36V
E: AC110V
F: AC220V
G: AC380V

6. Seal code
Blank: NBR
H: VITON
E: EPDM

Technical parameters

Model	Media	Working type	Pattern	Orifice (mm)	Cv Value	Connection ports	Fluid viscosity	Working pressure (MPa)	Max. pressure (MPa)	Working temp (°C)	Rated voltage	Power	Valve body material	Seal material
2W160-10	Air Water Oil	Direct action	Normally close	16	4.8	3/8"	< 20CST	0-0.8 0-1.0	1.2	-5~80	DC12V-24V AC24V-380V	DC23.4W-40W AC26VA-50VA	Brass Stainless steel	NBR EPDM VITON
2W160-15				16	4.8	1/2"								
2W200-20				20	7.6	3/4"								
2W250-25				25	12	1"								
2W350-35				35	24	1-1/4"								
2W400-40				40	29	1-1/2"								
2W500-50				50	48	2"								

Overall Dimension



Model	A		B		C		D		K
	2W	2S	2W	2S	2W	2S	2W	2S	
2W160-10	95	96	57	57	107	109	66	67	G3/8
2W160-15	95	96	57	57	107	109	66	67	G1/2
2W200-20	98.5	101	57	57	114	117	70.5	73	G3/4
2W250-25	101	106	73	77	120	126	99	97	G1
2W350-35	137	136.5	93	86	161	160	118	116	G1-1/4
2W400-40	138	138.5	93	93	165	166	118	122	G1-1/2
2W500-50	144	145	93	122	178	184	136	165	G2

2W(S)

The material of Valve is optional,
reasonable design, reliable quality



Features

- 2W series is direct acting type two-position two-way solenoid valve, which can work at Zero pressure with good shape and large flow. It is a common components used for industrial pipes.
- Connection port : G1/8"~G3/8"
- Working pressure : 0~0.7MPa
- Operating Temperature : -5~80°C

Order Code

2W

1

025

2

—

06

3

K

4

—

D

5

—

6

1. Valve body
2W: Brass
2S: stainless steel
2WH: High Temperature
2P: Plastic

2. Orifice
012: 1.2mm
020: 2.0mm
025: 2.5mm
040: 4.0mm

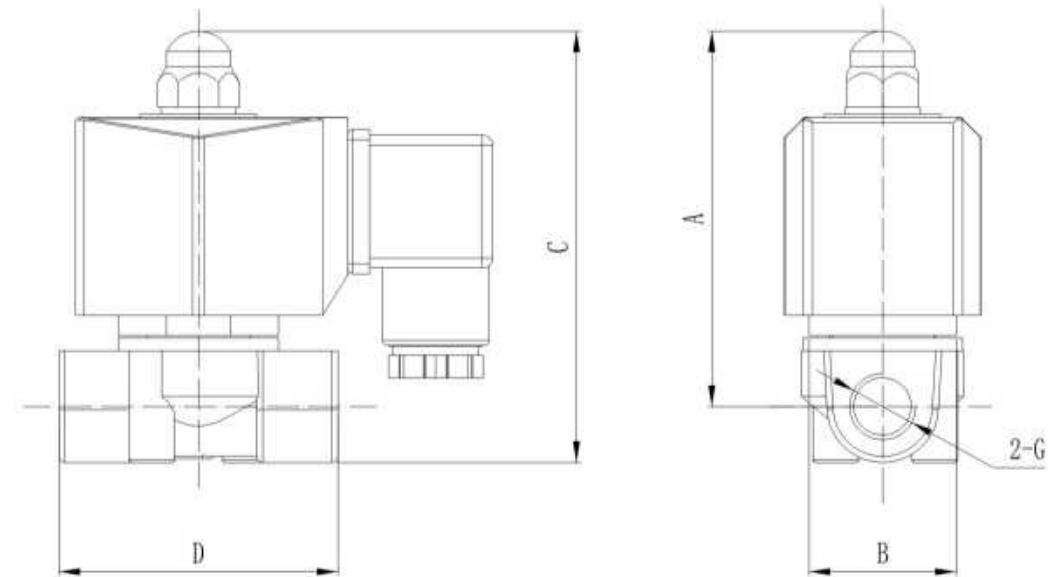
3. Connection port
06: 1/8"
08: 1/4"
10: 3/8"

4. Initial state
Blank: normal close
K: normal open

5. Standard voltage
A: DC12V
B: DC24V
C: AC24V
D: AC36V
E: AC110V
F: AC220V
G: AC380V

6. Seal code
Blank: NBR
H: VITON
E: EPDM

Overall Dimension



Model	A	B	C	D	G
2W012-06	66	30.3	75	42	1/8"
2W012-08	66	30.3	75	42	1/4"
2W020-10	76	32.5	87	53	3/8"
2W025-06	66	30.3	75	42	1/8"
2W025-08	66	30.3	75	42	1/4"
2W040-10	76	32.5	87	53	3/8"

Technical parameters

Model	Media	Working type	Pattern	Orifice (mm)	Cv Value	Connection ports	Fluid viscosity	Working pressure (MPa)	Max. pressure (MPa)	Working temp (°C)	Rated voltage	Power	Valve body material	Seal material
2W012-06	Air Water Oil	Direct action	Normally close	1.2	0.05	1/8"	<20CST	Air Water Gas 0~0.8	1.0	-5~80	DC12V-24V AC24V-380V	DC23.4W-40W AC26VA-50VA	Brass Stainless steel	NBR VITON EPDM
2W012-08				1.2	0.05	1/4"								
2W020-10				2	0.15	3/8"								
2W025-06				2.5	0.23	1/8"								
2W025-08				2.5	0.23	1/4"								
2W040-10				4	0.60	3/8"								

2L

Various material for you chose,
Reasonable design , Reliable quality



Features

- Using PTFE sealing, it is suitable for high temperature fluid flow.
- Top-centre structure, automatic sealing compensation extended the service life of valve
- Solenoid magnetic field design can make this valve reach higher pressure
- The balance of piston gap design enhance the reliable of valve in high temperature.

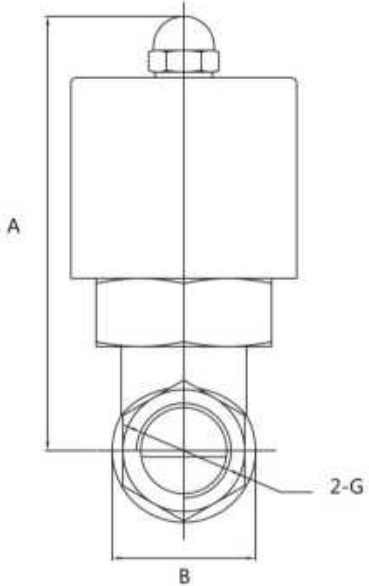
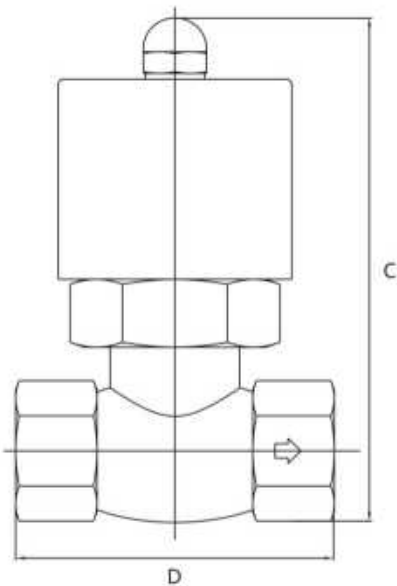
Order Code

2L	—	170	—	15	—	D
1		2		3		4
1. 2L Steam Valve		3. Connection port		4. Standard voltage		
2. Orifice		10: 3/8"		A: DC12V		
170: 17mm		15: 1/2"		B: DC24V		
200: 20mm		20: 3/4"		C: AC24V		
300: 30mm		25: 1"		D: AC36V		
500: 50mm		35: 1-1/4"		E: AC110V		
		40: 1-1/2"		F: AC220V		
		50: 2"		G: AC380V		

Technical parameters

Model	Media	Working type	Pattern	Orifice (mm)	Cv Value	Connection ports	Fluid viscosity	Working pressure (MPa)	Max. pressure (MPa)	Working temp (°C)	Rated voltage	Power	Valve body material	Seal material		
2L170-10	Air Water Oil	Direct action	Normally close	17	4.8	3/8"	< 20CST	0.1~1.5	2.5	-5~180	DC12V-24V	DC40W	Brass	PTEE		
2L170-15				17	4.8	1/2"										
2L170-20				17	4.8	3/4"					AC24V-380V	AC50VA				
2L200-25				22	12	1"										
2L300-35				30	20	1-1/4"										
2L300-40				30	20	1-1/2"										
2L500-50				50	48	2"										

Overall Dimension



Model	A	B	C	D	G
2L170-10	125	42	146	82	3/8"
2L170-15	125	42	146	82	1/2"
2L170-20	125	42	146	82	3/4"
2L200-25	136	52	162	90.5	1"
2L300-35	148	74	185	111	1-1/4"
2L300-40	148	74	185	111	1-1/2"
2L500-50	176	94.5	223	163	2"

PU

Compact and good appearance, small dimension
It can work at low pressure
Coil made from thermosetting plastic encapsulating



Features

- Compact and good appearance, small dimension
- Direct acting, diaphragm structure, it can work at low pressure
- Coil made from thermosetting plastic encapsulating, the protection class IP65, the temperature class can reach H Class.

Order Code

PU

1

225S

2

10

3

A

4

D

5

1. Pu series

2. Specification
220: Direct type
225: Pilot type
225S: Pilot type

3. Connection port
06: 1/8"
08: 1/4"
10: 3/8"
15: 1/2"
20: 3/4"
25: 1"
35: 1-1/4"
40: 1-1/2"
50: 2"

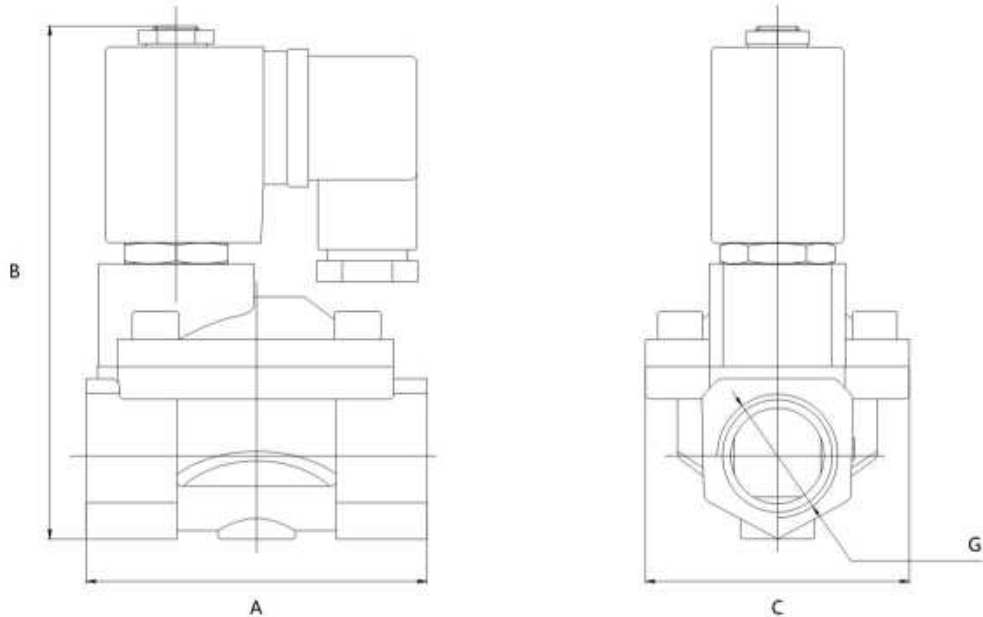
4. Installing form
A: standard
F: flange form

5. Standard voltage
A: DC12V
B: DC24V
C: AC24V
D: AC36V
E: AC110V
F: AC220V
G: AC380V

Technical parameters

Model	Media	Working type	Pattern	Orifice (mm)	Cv Value	Connection ports	Fluid viscosity	Working pressure (MPa)	Max. pressure (MPa)	Rated voltage	Power	Working temp (°C)	
PU225-10A	Air Water Oil	Direct Action /Pilot Type	Normally close	13	4.5	3/8"	<50CST	0.05-1.0	1.2	DC12V-24V	DC22W	-5~80	
PU225-15A				13	4.5	1/2"							
PU225-20A				25	12	3/4"				AC24V-380V	AC27VA		
PU225-25A				25	12	1"							
PU225-35A				38	22	1-1/4"							
PU225-40A				38	30	1-1/2"							
PU225-50A				50	48	2"							

Overall Dimension



Model	A	B	C	G
PU225-10A	66.5	106.5	48	G 3/8"
PU225-15A	66.5	106.5	48	G1/2"
PU225-20A	96	126	70	G 3/4"
PU225-25A	96	126	70	G1"
PU225-35A	131	145.5	96	G1-1/4"
PU225-40A	131	145.5	96	G1-1/2"
PU225-50A	160	160	112	G2"

SB115

Small dimension, fast action and low noise.



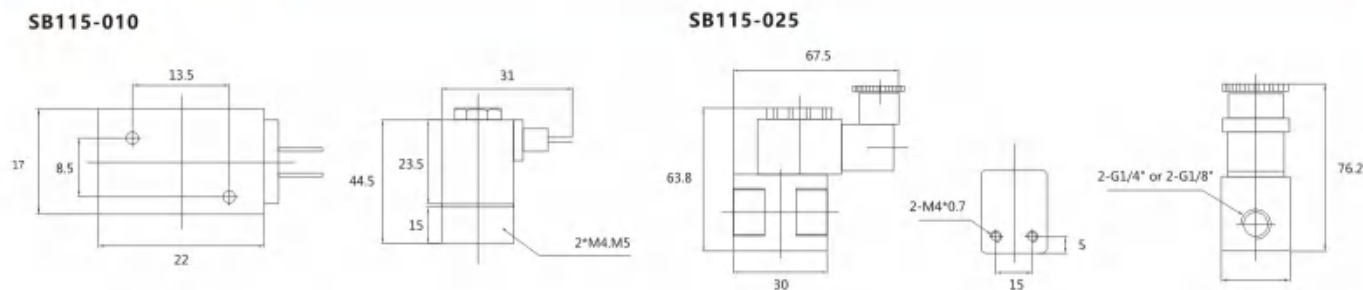
Order Code

SB115	C	025	08	D	
1	2	3	4	5	6
1. Item No.	2. Valve body C: Brass L: Aluminum alloy S: Stainless steel	3. Orifice 010: 1.0mm 020: 2.0mm 025: 2.5mm	4. Connection port M5 06: 1/8" 08: 1/4"	5. Standard Voltage A: DC12V B: DC24V C: AC24V D: AC36V E: AC110V F: AC220V G: AC380V	6. Sealing material Blank: NBR H: VITON

Technical parameters

Model	SB115-010-M5	SB115-020-06	SB115-025-08
Media	Air / Water / Oil		
VOLTAGE	Direct action		
Pattern	Normally close		
Orifice	1.0mm	2.0mm	2.5mm
Cv Value	0.10	0.23	
Connection ports	M5	1/8"	1/4"
Fluid viscosity	< 20CST		
Working pressure	0~0.8MPa	0~1.0MPa	0~0.7MPa
Max. pressure	1.2MPa	1.2MPa	1.2MPa
Working temp	DC12-24V/AC24V-380V		
Protection class	IP65		
Power consumption	AC6.5VA DC6W		
Insulation class	F class		
Valve body material	Aluminum / Brass / Stainless steel		
Seal material	NBR or VITON		
Response time	0.05s		

Overall Dimension



SB116

- Working at Zero Pressure and used below 90°C
- It can be used in gas,water,oil,weak acid& Alkali.
- Low noise, No-water hammer impact ,low noise, stable working, large flow, long service life.
- Change to Ex-proof & suitable armature, it can used as Ex-proof valve. The coil made from thermosetting plastic encapsulating, the protection class IP65.Plug confirms with ISO standard.



Order Code

SB116	2A	10	08	D	
1	2	3	4	5	6
1. Item No.	2. Code Form 2A: Zero pressure 2B: Differential pressure 4: High temperature 5: High Pressure 2AS: Zero pressure Stainless Steel 2BS: Low pressure Stainless Steel	3. Orifice 08: 8mm 10: 10mm 13: 13mm 14: 14mm 20: 20mm 25: 25mm 40: 40mm 50: 50mm	4. Connection port 08: 1/4" 10: 3/8" 15: 1/2" 20: 3/4" 25: 1" 35: 1-1/4" 40: 1-1/2" 50: 2"	5. Standard Voltage A: DC12V B: DC24V C: AC24V D: AC36V E: AC110V F: AC220V G: AC380V	6. K: Normally Open Blank: Normally Closed

SB116-2A Series

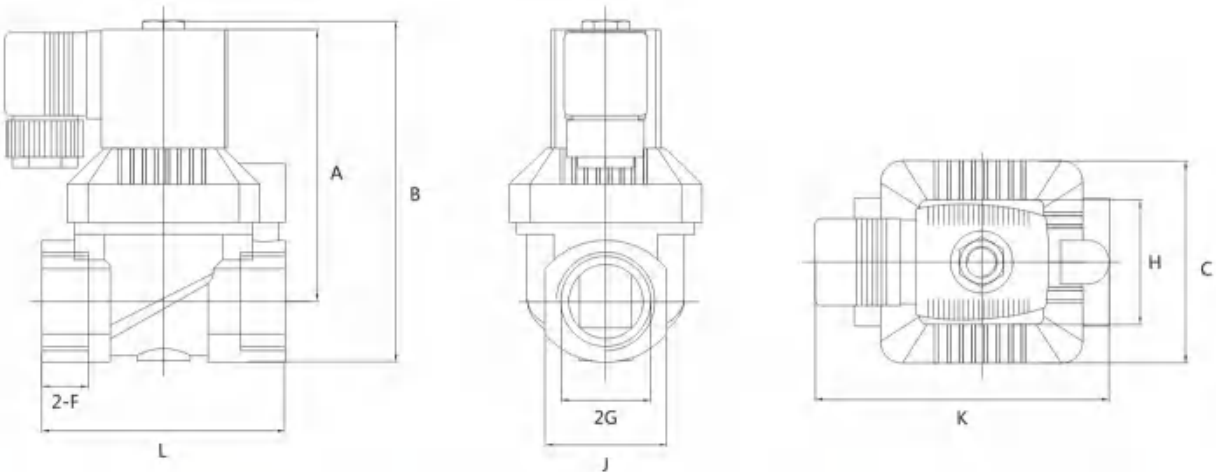
» Features

- Working at Zero Pressure and used below 90°C
- It can be used in gas,water,oil,weak acid& Alkali.
- Low noise, No-water hammer impact ,low noise, stable working, large flow, long service life.
- Change to Ex-proof & suitable armature, it can used as Ex-proof valve. The coil made from thermosetting plastic encapsulating, the protection class IP65.Plug confirms with ISO standard.

» Technical parameters

Model	Orifice	Connection ports	Working pressure (MPa)	Ambient Temp.	Medium Temp.	Kv value (m ³ /h)	Power Consumption		Response Frequency (Hz)	Voltage
							AC(VA)	DC(W)		
SB116-2A1008	10mm	G1/4	0~1.0	-10~+55	-10~+90	1.4	20	13	≥1Hz	DC12V DC24V AC24V AC36V AC110V AC220V AC380V
SB116-2A1010	10mm	G3/8				1.4	20	13	≥1Hz	
SB116-2A1015	10mm	G1/2				1.4	20	13	≥1Hz	
SB116-2A1415	14mm	G1/2				2.52	20	13	0.5Hz	
SB116-2A1420	14mm	G3/4				2.52	20	13	0.5Hz	
SB116-2A2020	20mm	G3/4				7.0	20	13	0.5Hz	
SB116-2A2025	20mm	G1				7.0	20	13	0.5Hz	

» Overall Dimension



Model	G	C	F	L	J	A	B	H	K
SB116-2A1008	G1/4"	38	13	50	26	71	85	36	76
SB116-2A1010	G3/8"	38	13	50	26	71	85	36	76
SB116-2A1015	G1/2"	38	13	50	26	71	85	36	76
SB116-2A1415	G1/2"	41	14	65	26	77	98	36	76
SB116-2A1420	G3/4"	41	16	58	31	80	103	36	76
SB116-2A2020	G3/4"	60	20	80	41	111	103	36	88
SB116-2A2025	G1"	60	20	80	41	111	110	36	88

SB116-2B Series

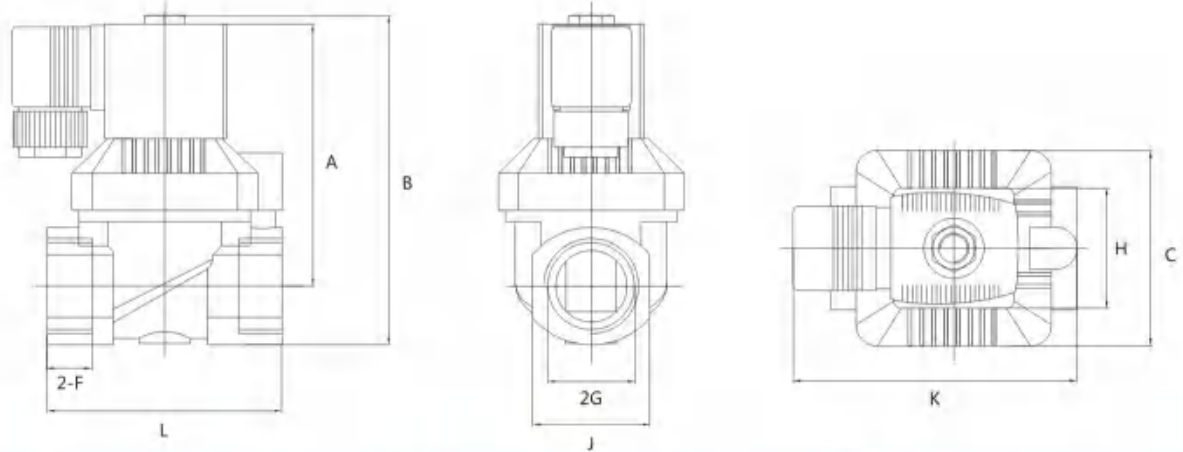
» Features

- It can be used in gas,water,oil,weak acid& Alkali.
- Low noise, No-water hammer impact ,low noise, stable working, large flow, long service life.
- Coil model:BD-A-3
- Change to Ex-proof & suitable armature, it can used as Ex-proof valve. The coil made from thermosetting plastic encapsulating, the protection class IP65.Plug confirms with ISO standard.

» Technical parameters

Model	Orifice	Connection ports	Working pressure (MPa)	Ambient Temp.	Medium Temp.	Kv value (m ³ /h)	Power Consumption		Response Frequency (Hz)	Voltage
							AC(VA)	DC(W)		
SB116-2B1008	10mm	G1/4	0.02~1.0	-10~+55	-10~+90	1.4	20	13	≥1Hz	DC12V DC24V AC24V AC36V AC110V AC220V AC380V
SB116-2B1010	10mm	G3/8				1.4	20	13	≥1Hz	
SB116-2B1015	10mm	G1/2				1.4	20	13	≥1Hz	
SB116-2B1415	14mm	G1/2				2.52	20	13	≥0.5Hz	
SB116-2B1420	14mm	G3/4				2.52	20	13	≥0.5Hz	
SB116-2B2020	20mm	G3/4				5	20	13	≥0.5Hz	
SB116-2B2025	20mm	G1				5	20	13	≥0.5Hz	
SB116-2B4035	40mm	G1-1/4	0.025~1.6			18	20	13	≥0.33Hz	
SB116-2B4040	40mm	G1-1/2				18	20	13	≥0.33Hz	
SB116-2B5050	50mm	G2				28	20	13	≥0.33Hz	

» Overall Dimension



Model	G	C	2-F	L	J	A	B	H	K
SB116-2B1008	G1/4"	38	15	50	27	72.5	86	36	76
SB116-2B1010	G3/8"	38	15	50	27	72.5	86	36	76
SB116-2B1015	G1/2"	38	15	50	27	72.5	86	36	76
SB116-2B1415	G1/2"	41	16	65	27	78.5	98	36	76
SB116-2B1420	G3/4"	41	16	58	32	79	103	36	76
SB116-2B2020	G3/4"	66	18	83	40	100	120	36	76
SB116-2B2025	G1"	66	18	83	40	100	120	36	76
SB116-2B4035	G1-1/4"	92	25	125	57	109.5	143	36	76
SB116-2B4040	G1-1/2"	92	25	125	57	109.5	143	36	76
SB116-2B5050	G2"	109	28	150	68	122	161	36	76

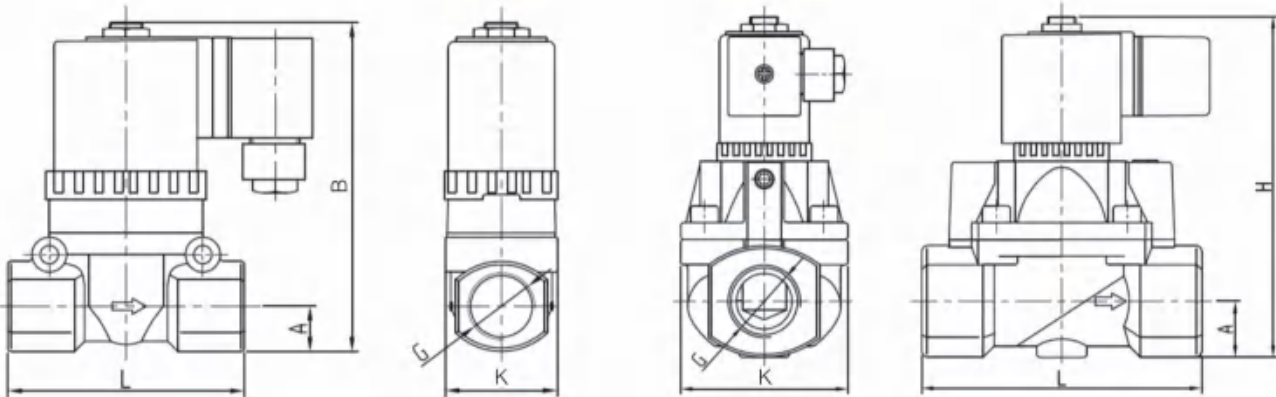
SB116-4 Series



Technical parameters

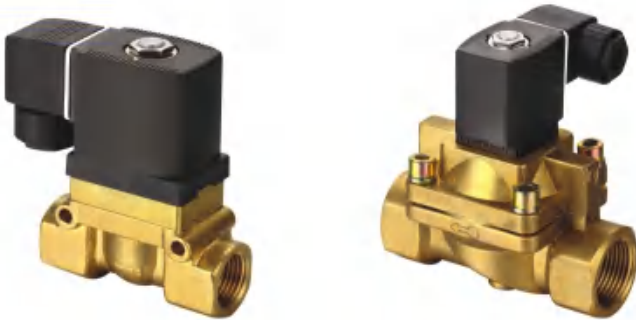
Model	Orifice	Connection ports	Working pressure (MPa)	Ambient Temp.	Medium Temp.	Kv value (m ³ /h)	Power Consumption		Response Frequency (Hz)	Voltage
							AC(VA)	DC(W)		
SB116-41308	13mm	G1/4"	0.1~1.6	-20~55	0~180	3.6	20	13	≥1Hz	DC12V DC24V AC24V AC36V AC110V AC220V AC380V
SB116-41310	13mm	G3/8"				3.6	20	13	≥1Hz	
SB116-41315	13mm	G1/2"				3.6	20	13	≥1Hz	
SB116-42520	25mm	G3/4"				11	20	13	≥0.5Hz	
SB116-42525	25mm	G1"				11	20	13	≥0.5Hz	

Overall Dimension



Model	G	K	L	B	A
SB116-41308	G1/4"	33.5	72	98	13
SB116-41310	G3/8"	33.5	72	98	13
SB116-41315	G1/2"	33.5	72	98	13
SB116-42520	G 3/4"	60	100	120	20
SB116-42525	G1"	60	100	120	20

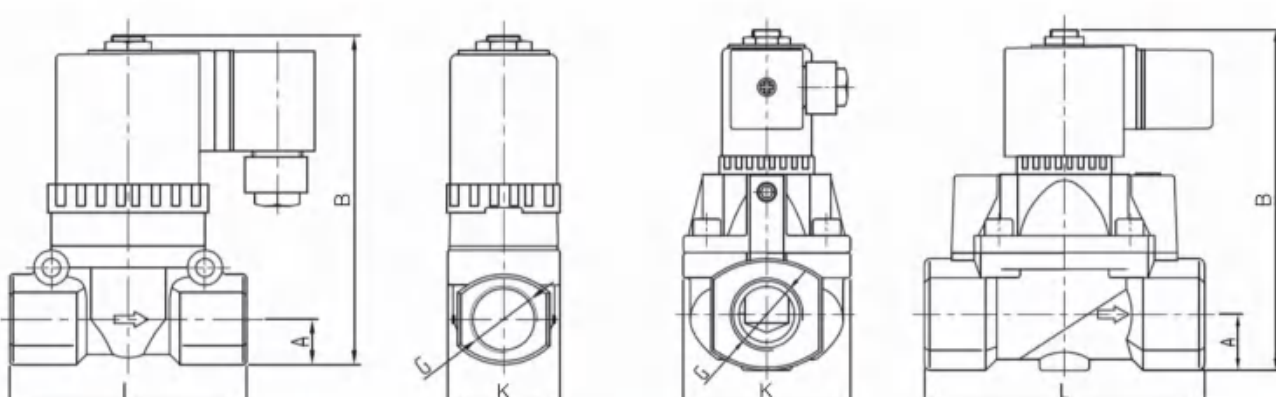
SB116-5 Series



Technical parameters

Model	Orifice	Connection ports	Working pressure (MPa)	Ambient Temp.	Medium Temp.	Kv value (m ³ /h)	Power Consumption		Response Frequency (Hz)	Voltage
							AC(VA)	DC(W)		
SB116-51308	13mm	G1/4"	0.1~1.6	-20~55	0~90	2.52	20	13	≥1Hz	DC12V DC24V AC24V AC36V AC110V AC220V AC380V
SB116-51310	13mm	G3/8"				2.52	20	13	≥1Hz	
SB116-51315	13mm	G1/2"				2.52	20	13	≥1Hz	
SB116-52520	25mm	G3/4"				5.0	20	13	≥0.5Hz	
SB116-52525	25mm	G1"				8.5	20	13	≥0.5Hz	

Overall Dimension



Model	G	K	L	B	A
SB116-51308	G1/4"	33.5	72	85	13
SB116-51310	G3/8"	33.5	72	85	13
SB116-51315	G1/2"	33.5	72	85	13
SB116-52520	G 3/4"	60	100	120	20
SB116-52525	G1"	60	100	120	20

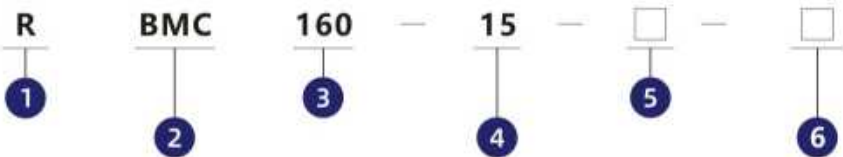
RBMC



Features

- Direct-acting, diaphragm structure, it can work at Zero Pressure.
- Plate type diaphragm structure, it is reliable of starting and off.
- Valve body material: BMC
- Choosing thermosetting plastic encapsulating coil which make the valve used in different kinds of environment

Order Code



1. RFS product

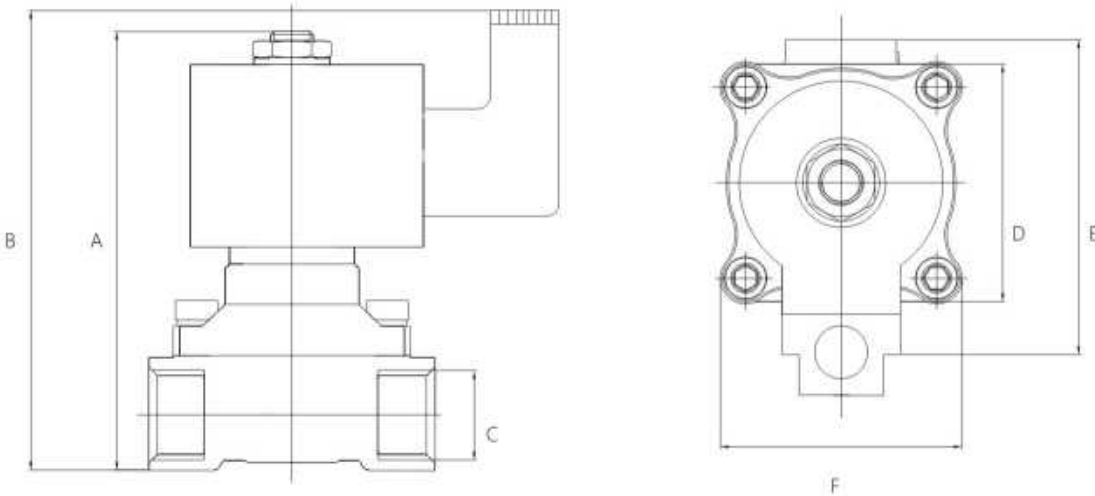
2. BMC valve body material

3. Orifice
160: 16mm
200: 20mm
250: 25mm
4. Connection port
15: 1/2"
20: 3/4"
25: 1"
5. Standard voltage
A: DC12V
B: DC24V
C: AC24V
D: AC36V
E: AC110V
F: AC220V
G: AC380V
6. Sealing material
Blank: NBR
V: VITON
E: EPDM

Specifications

Model	RBMC-160-15		RBMC-200-20		RBMC-250-25	
Media	Air / Water / Oil					
Working type	Direct action					
Pattern	Normally close					
Orifice	16mm		20mm		25mm	
Connection ports	G1/2" G3/4" G1"					
Working pressure	0~0.7MPa					
Medium viscosity	< 20CST					
Working temp	-5~80℃					
Voltage	DC12-24V/AC24V-380V ±10%					
Power	AC28VA DC20W					
Max. pressure	1.2MPa					
Valve body material	BMC					
Seal material	NBR / EPDM or VITON					

Overall Dimension



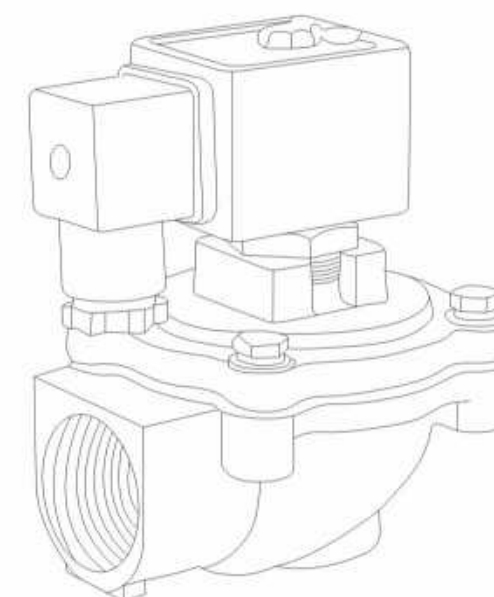
Model	RBMC-15	RBMC-20	RBMC-25
A	115mm	115mm	124mm
B	118mm	118mm	127mm
C	G1/2"	G3/4"	G1"
D	67mm	67mm	74mm
E	80mm	80mm	103mm
F	64mm	64mm	74.5mm

Dust Collector Valves & Parts

Introducing and improving upon advanced international design technology; used for dust collector cleaning systems' compressed air switch dust removal; critical component parts made from imported materials; available in air-controlled, electromagnetic, and electromagnetic explosion-proof models; connected with pipe threads, ensuring reliable installation.

- Pneumatic Actuator/Valve
- Angle Seat Valve
- Pneumatic Valves
- 2/2 Valve
- **Dust Collector Valves & Parts**
- Drain Valves
- Steam Valve
- Special Solenoid Valve

**PREMIER QUALITY
GLOBAL REPUTATION**



RMF

- Introduction of advanced international technology and make some improvements
- Pulse Valve used for controlling the compressed air of dust remover filter system
- The key components adopt advanced material
- Pneumatic control type, solenoid control type and Ex-proof solenoid control type for optional
- Female thread connection port, it is easy for installing



Order Code

R

1

MF

2

Z

3

□

4

□

5

S

6

EX

7

1. RFS product
R: Plateau Type

2. Solenoid Pulse valve

3. Y: Quick mount
Z: Right Angle Thread
Q: Air control

4. Blank: Aluminium
S: Stainless steel

5. Orifice

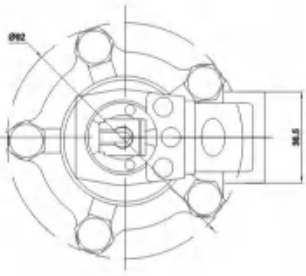
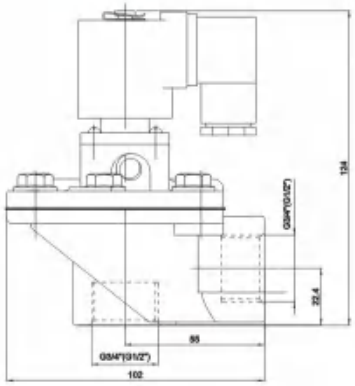
6. S: Double diaphragm
M: Quincunx
P: P type
A: Single insert pipe type
J: Economical type
DD: Insert pipe type
Blank: Thread type

7. EX: Ex-proof

Technical parameters

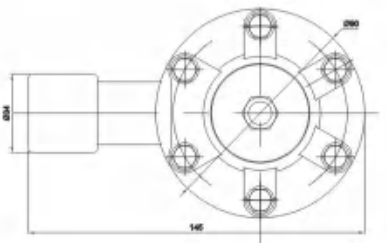
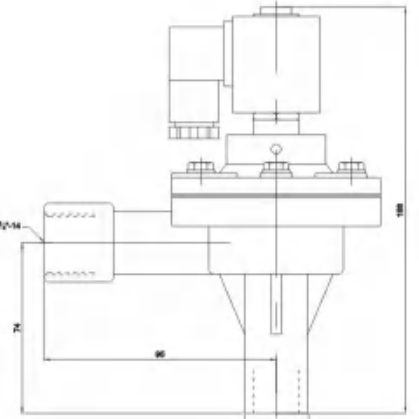
Model	Working pressure (MPa)	Ambient Temp.	Relative Humidity	Media	Voltage	Diaphragm Life	Orifice	Connection ports
RMF-Z-15M	0.3~0.8	-5~55℃	< 85%	Clean Air	AC110V AC220V DC24V	Over one Million cycles	Φ20	G1/2"
RMF-Z-20M							Φ20	G3/4"
RMF-Z-20A							Φ20	G3/4"
RMF-Z-20J							Φ20	G3/4"
RMF-Z-25J							Φ25	G1"
RMF-Z-20P							Φ20	G3/4"
RMF-Z-25P							Φ25	G1"
RMF-Z-20							Φ20	G3/4"
RMF-Z-25							Φ25	G1"
RMF-Z-35P							Φ40	G1-1/2"
RMF-Z-40S							Φ50	G1-1/2"
RMF-Z-45P							Φ47.5	G1-1/2"
RMF-Z-50S							Φ60	G2"
RMF-Z-62S							Φ76	G2-1/2"
RMF-Z-76S							Φ82	G3"
RMF-25DD							Φ36	Φ33~35
RMF-45DD							Φ50.5	Φ46.5~50

RMF-Z-15M



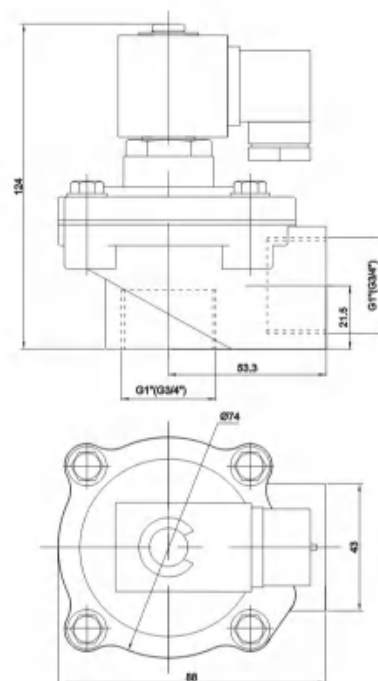
Model	RMF-Z-15M	RMF-Z-20M
Working-pressure	0.3~0.8MPa	
Ambient Temperature	-5℃~55℃	
Relative Humidity	< 85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life	Over One Million Cycles	
Orifice	Φ20	Φ20
Connection Port	G1/2"	G3/4"

RMF-Z-20A



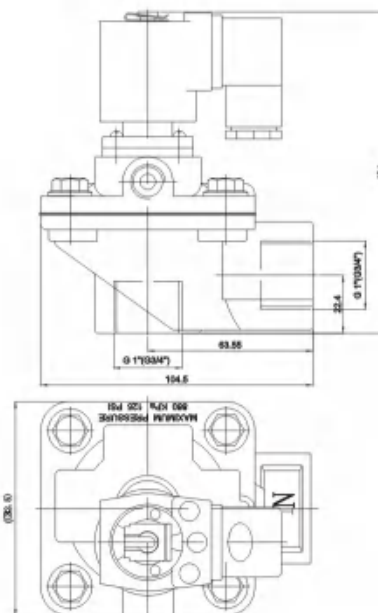
Model	RMF-Z-20A
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ20
Connection Port	G3/4"

))) RMF-Z-20J



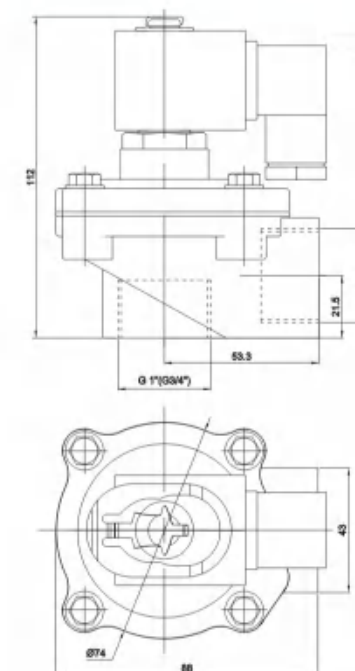
Model	RMF-Z-20J	RMF-Z-25J
Working-pressure	0.3~0.8MPa	
Ambient Temperature	-5℃~55℃	
Relative Humidity	<85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life	Over One Million Cycles	
Orifice	Φ20	Φ25
Connection Port	G3/4"	G1"

RMF-Z-20P



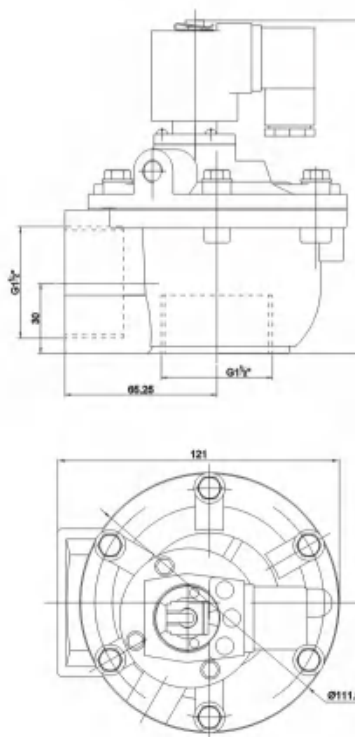
Model	RMF-Z-20P	RMF-Z-25P
Working-pressure	0.3~0.8MPa	
Ambient Temperature	-5℃~55℃	
Relative Humidity	<85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life	Over One Million Cycles	
Orifice	Φ20	Φ25
Connection Port	G3/4"	G1"

RMF-Z-25



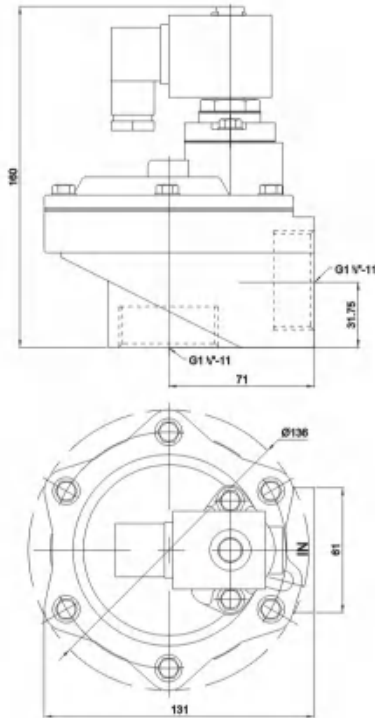
Model	RMF-Z-20	RMF-Z-25
Working-pressure	0.3~0.8MPa	
Ambient Temperature	-5℃~55℃	
Relative Humidity	< 85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life	Over One Million Cycles	
Orifice	Φ20	Φ25
Connection Port	G3/4"	G1"

» RMF-Z-35P



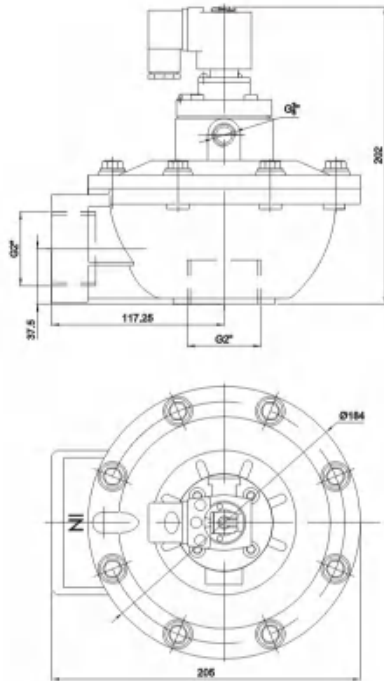
Model	RMF-Z-35P
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ40
Connection Port	G1 1/2"

RMF-Z-40S



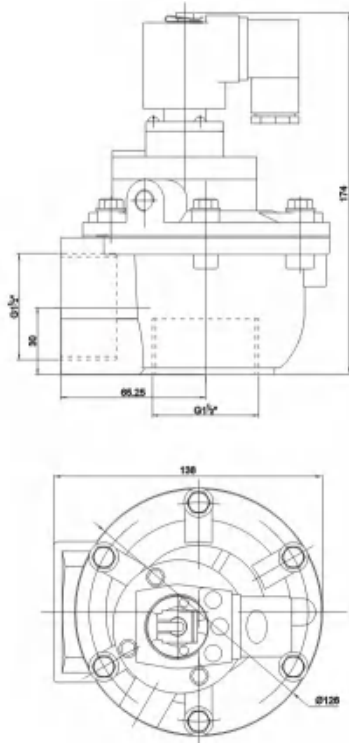
Model	RMF-Z-40S
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ50
Connection Port	G1 1/2"

RMF-Z-50S



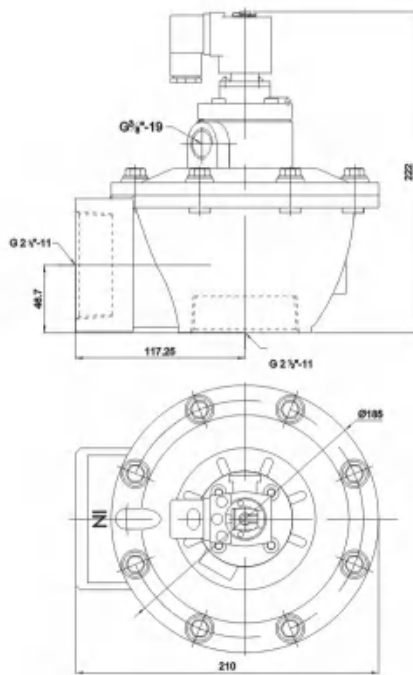
Model	RMF-Z-50S
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ60
Connection Port	G2"

RMF-Z-45P



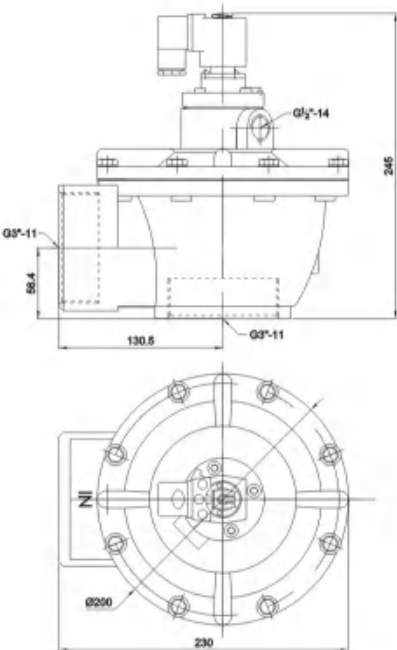
Model	RMF-Z-45P
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ47.5
Connection Port	G1 1/2"

RMF-Z-62S



Model	RMF-Z-62S
Working-pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ76
Connection Port	G2-1/2"

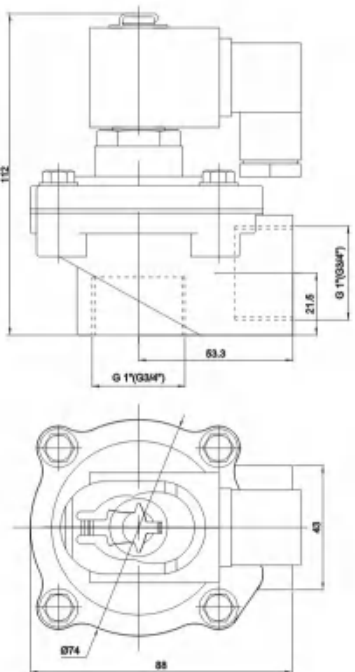
RMF-Z-76S



Model	RMF-Z-76S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ82
Connection Port	G3"

RMF-ZS-25

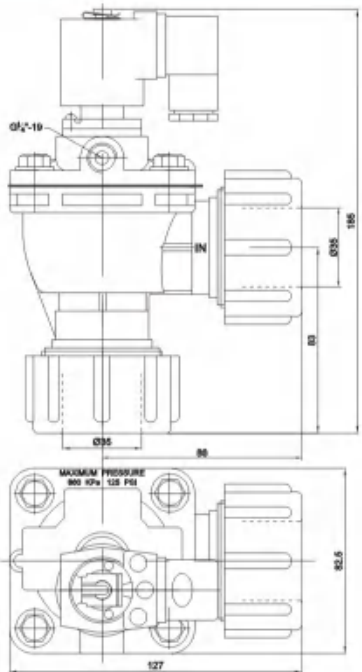
Stainless Steel Economic Right Angle



Model	RMF-ZS-25
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Electricity	0.46A/0.23A/0.8A±10%
Diaphragm Life	Over One Million Cycles
Orifice	Φ25
Connection Port	G1"

RMF-25DD

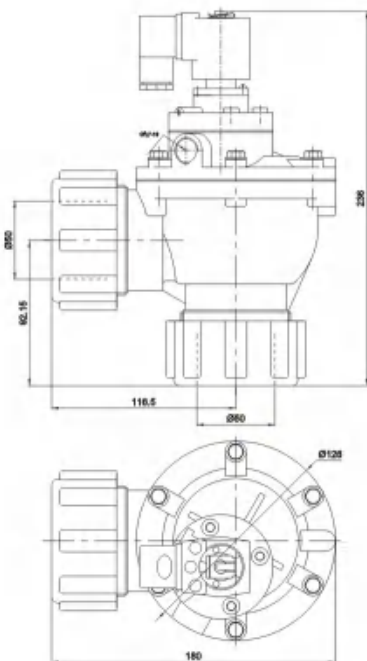
Right Angle Type



Model	RMF-25DD
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ36
Connection Port	Φ33~35

RMF-45DD

Right Angle Type

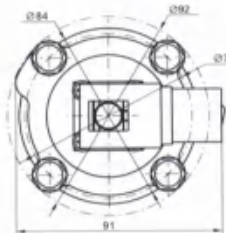
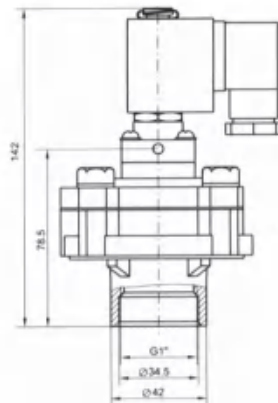


Model	RMF-45DD
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ47
Connection Port	Φ46.5~50

» Technical parameters

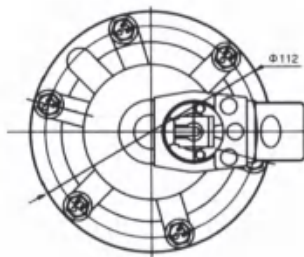
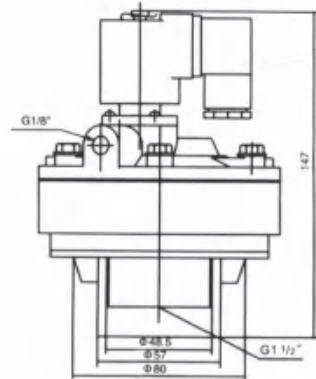
Model	Working pressure	Ambient Temperature	Relative Humidity	Working Medium	Voltage	Diaphragm Life	Orifice	Connection Port
RMF-Y-25	0.3~0.8MPa	-5~55℃	< 85%	Clean Air	AC110V AC220V DC24V	Over One Million Cycles	Φ28	G1"
RMF-Y-40							Φ45	G1-1/2"
RMF-Y-50S							Φ56	Φ65
RMF-Y-62S							Φ70	Φ80
RMF-Y-76S							Φ82	Φ90
RMF-Y-86S							Φ80.5	Φ90
RMF-Y-102S							Φ102	G3 1/2"

» RMF-Y-25



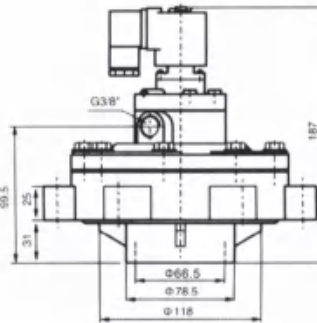
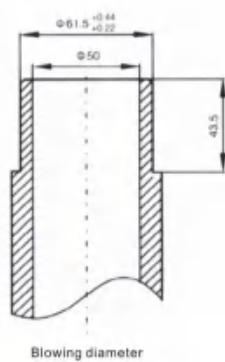
Model	RMF-Y-25
Working pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ28
Connection Port	G1"

» RMF-Y-40

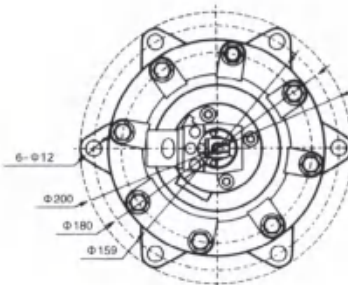


Model	RMF-Y-40
Working pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ45
Connection Port	G1-1/2"

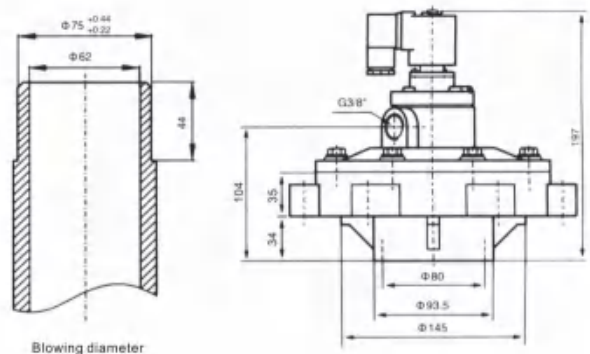
» RMF-Y-50S



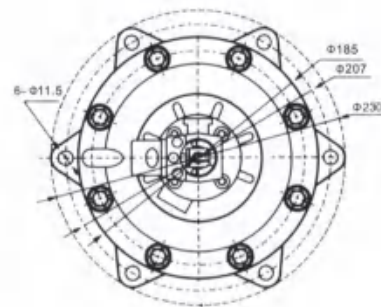
Model	RMF-Y-50S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ56
Connection Port	Φ65



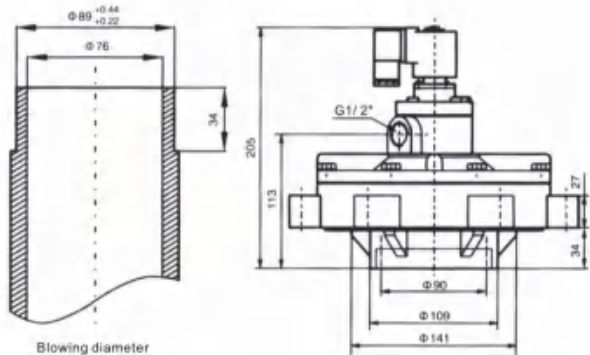
RMF-Y-62S



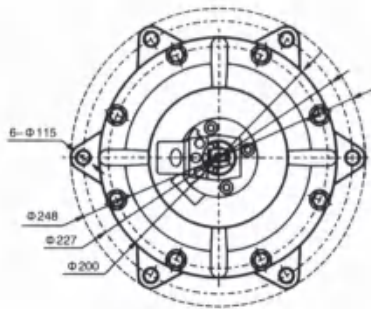
Model	RMF-Y-62S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ70
Connection Port	Φ80



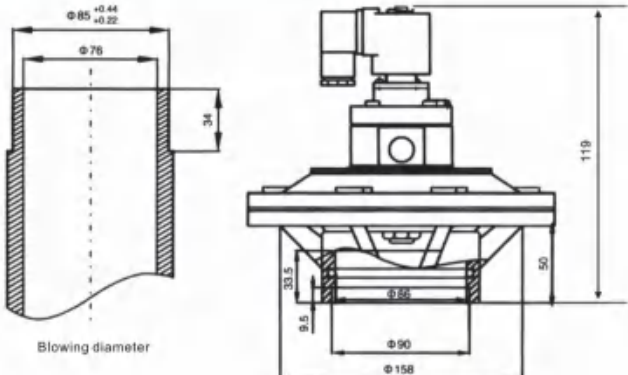
RMF-Y-76S



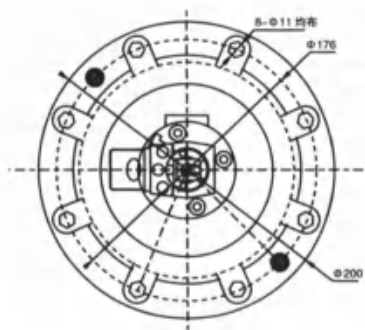
Model	RMF-Y-76S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ82
Connection Port	Φ90



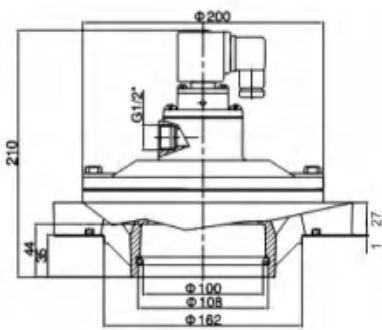
RMF-Y-86S



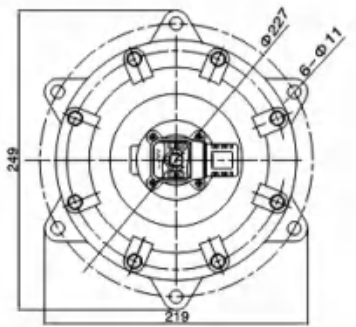
Model	RMF-Y-86S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ80.5
Connection Port	Φ90



RMF-Y-102S



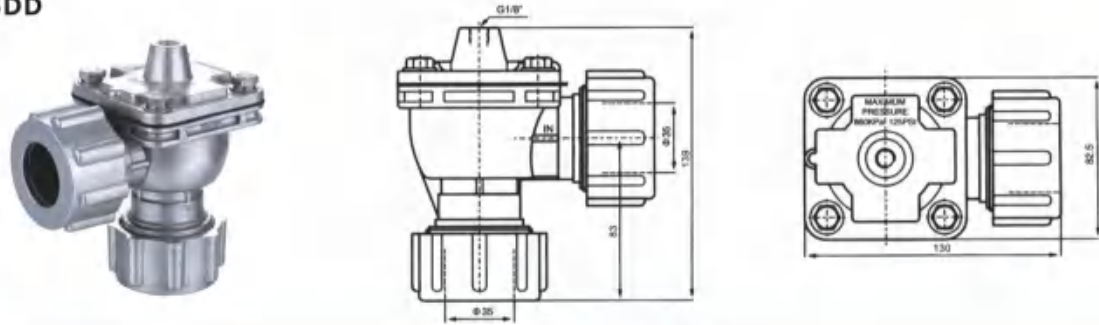
Model	RMF-Y-102S
Working pressure	0.3~0.8MPa
Ambient Temperature	-5°C~55°C
Relative Humidity	<85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ102
Connection Port	G3 1/2"



Technical parameters

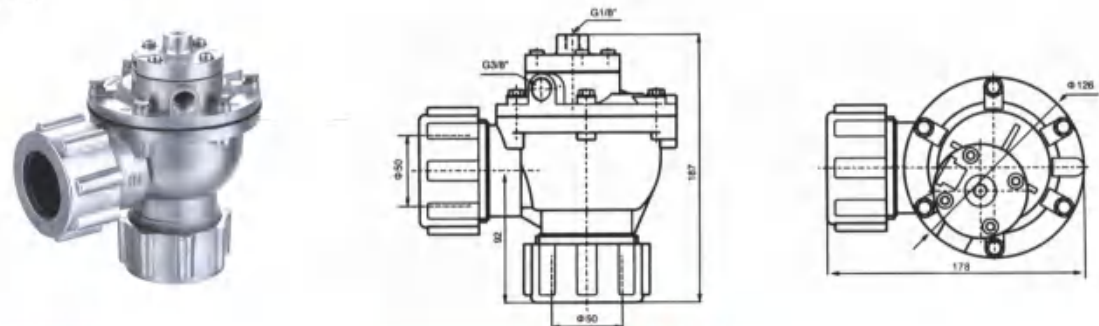
Model	Working pressure	Ambient Temperature	Relative Humidity	Working Medium	Voltage	Diaphragm Life	Orifice	Connection Port
RMF-Q-25DD	0.3~0.8MPa	-5~55℃	< 85%	Clean Air	AC110V AC220V DC24V	Over One Million Cycles	Φ25	Φ35
RMF-Q-45DD							Φ45	Φ50
RMF-Q-20P							Φ20	G3/4"
RMF-Q-25P							Φ25	G1"
RMF-ZQ-45P							Φ45	G1-1/2"
RMF-ZQ-50S							Φ50	G2"
RMF-ZQ-62S							Φ62	G2-1/2"
RMF-ZQ-76S							Φ76	G3"
RMF-YQ-50S							Φ50	Φ62.5
RMF-YQ-62S							Φ62	Φ76
RMF-YQ-76S							Φ76	Φ90

RMF-Q-25DD



Model	RMF-Q-25DD
Working pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ25
Connection Port	Φ35

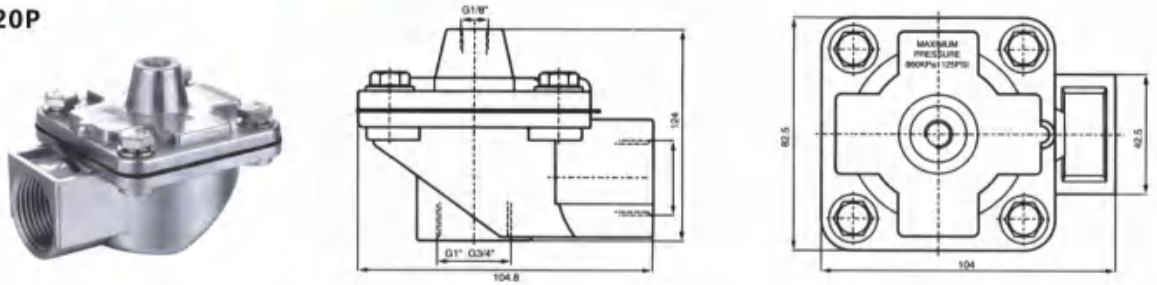
RMF-Q-45DD



Model	RMF-Q-45DD
Working pressure	0.3~0.8MPa
Ambient Temperature	-5℃~55℃
Relative Humidity	< 85%
Working Medium	Clean Air
Voltage	AC110V/AC220V/DC24V
Diaphragm Life	Over One Million Cycles
Orifice	Φ45
Connection Port	Φ50

Right Angle Air Control Pulse Valve

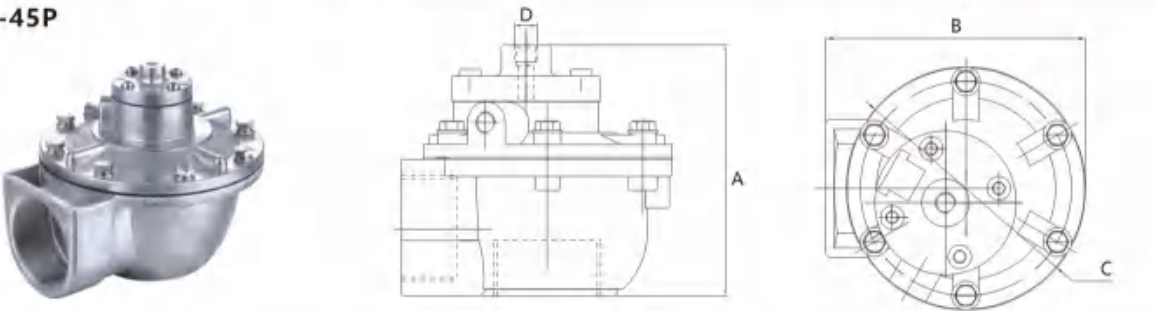
RMF-Q-20P



Model	RMF-Q-20P	RMF-Q-25P
Working pressure	0.3~0.8MPa	
Ambient Temperature	-5℃~55℃	
Relative Humidity	< 85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life	Over One Million Cycles	
Orifice	Φ20	Φ25
Connection Port	G3/4"	G1"

Right Angle Air Control Pulse Valve

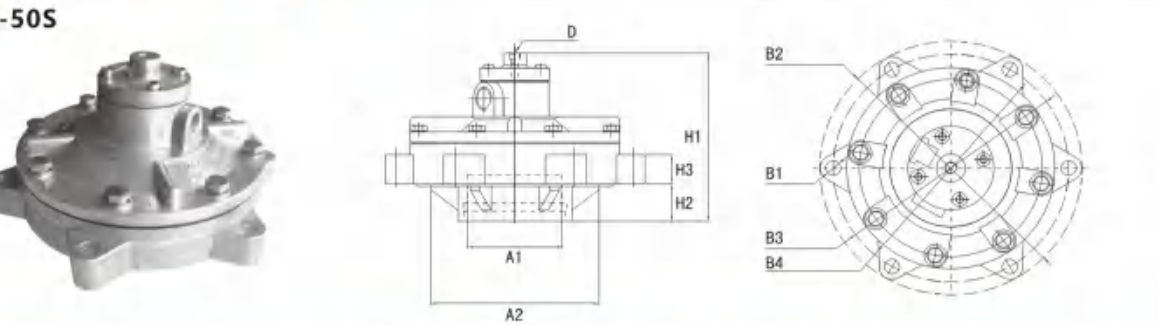
RMF-ZQ-45P



Model	A	B	C	D
RMF-ZQ-45P	125	138	Φ126	G1/8"
RMF-ZQ-50S	153	205	Φ184	G1/8"
RMF-ZQ-62S	173	210	Φ185	G1/8"
RMF-ZQ-76S	193	230	Φ200	G1/8"

In Line Gas control Pulse valve

RMF-YQ-50S



Model	A1	A2	B1	B2	B3	B4	H1	H2	H3	D
RMF-YQ-50S	Φ62.5	Φ118	6-Φ12	Φ200	Φ180	Φ159	138	30.5	34.5	G1/8"
RMF-YQ-62S	Φ76	Φ143.5	6-Φ11.5	Φ230	Φ207	Φ185	148	34	35	
RMF-YQ-76S	Φ90	Φ141	6-Φ12	Φ248	Φ277	Φ200	156	34.5	27	



- Ex class: Exm/II T4
- Using our own Explosion-proof coil, All the solenoid pulse valves can be changed into Ex-proof style
- Voltage & wire length can be made as your request
- When you order Ex-proof solenoid valve, Add "Ex" after model

Technical parameters

Model	Working pressure	Ambient Temperature	Relative Humidity	Working Medium	Voltage	Power	Orifice	Connection Port
RMF-25DD-EX	0.3~0.8MPa	-5~55℃	<85%	Clean Air	AC110V AC220V AC24V DC12V ±10%	DC15W	Φ25mm	Φ35mm
RMF-45DD-EX						AC13VA	Φ40mm	Φ50mm
RMF-Z-25J-EX						DC11W	Φ25mm	G1"
RMF-Z-20J-EX						AC13VA	Φ20mm	G3/4"
RMF-Z-20M-EX						DC15W	Φ20mm	G3/4"
RMF-Z-15M-EX						AC13VA	Φ15mm	G1/2"
RMF-Z-20A-EX						DC11W/AC13VA	Φ20mm	G3/4"
RMF-Z-20P-EX							Φ20mm	G3/4"
RMF-Z-25P-EX						DC15W	Φ25mm	G1"
RMF-Z-35P-EX						AC13VA	Φ35mm	G1-1/2"
RMF-Z-40S-EX						DC13W/AC23VA	Φ40mm	G1-1/2"
RMF-Z-45P-EX							Φ45mm	G1-1/2"
RMF-Z-50S-EX						DC15W/AC13VA	Φ50mm	G2"
RMF-Z-62S-EX							Φ62mm	G2-1/2"
RMF-Z-76S-EX						DC13W/AC23VA	Φ76mm	G3"
RMF-Y-40S-EX							Φ45mm	G1-1/2"
RMF-Y-50S-EX						DC15W AC13VA	Φ50mm	Φ62.5mm
RMF-Y-62S-EX							Φ62mm	Φ76mm
RMF-Y-76S-EX							Φ76mm	Φ90mm

Sequential controller is main control part of bag filter system. It controls the on/off of pulse solenoid valves sequentially, so circularly the air runs in the bag and shakes off the dust which adsorbs on bag surface, make the bag keep clean and sufficient air permeability.

Pulse signal controller



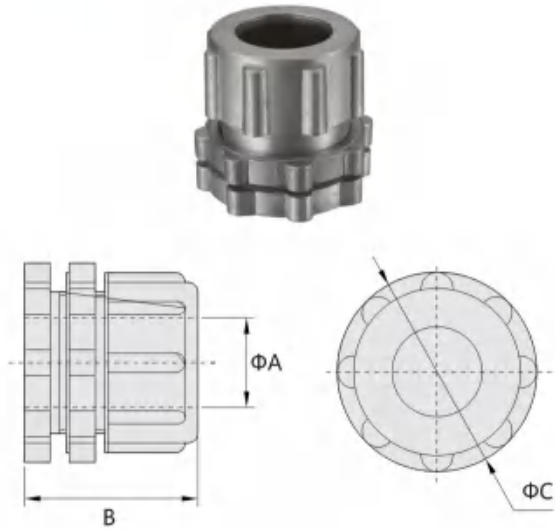
PIC-20DL Pulse signal controller



PIC-28AL Pulse signal controller

Model	PIC-20DL	PIC-28AL
Input Voltage	AC220V	AC220V
Output Voltage	DC24V	AC220V
Output Current	1A	1A
Pulse Width	0.01~99.99S	0.01~99.99S
Pulse Interval	1~9999S	1~9999S
Period Interval	1~9999S	1~9999S
Output Lines No	1~20 Lines	1~28 Lines
Dimension	240x160x90	240x160x90
IP Rating	IP65	IP65
Ambient Temperature	-20~70℃	-20~70℃

RB CONNECTION



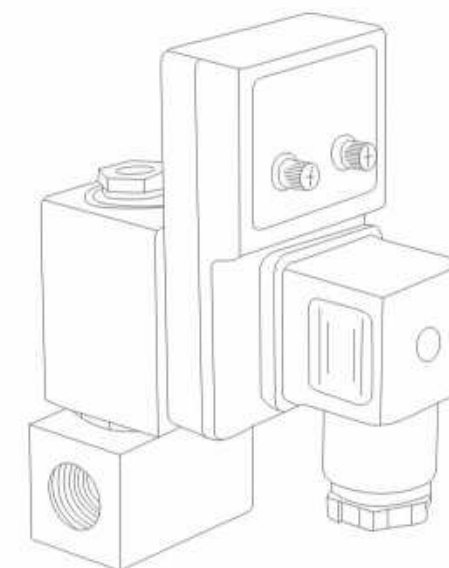
Model	Symbol	A	B	C
RB-25		35	67.5	77.5
RB-40		50	92.5	92

Drain valves

Fully automatic, maintenance-free Timer control drain valve.

- Pneumatic Actuator/Valve
- Angle seat valve
- Pneumatic valves
- 2/2 Valve
- Dust Collector Valves & Parts
- **Drain valves**
- Steam Valve
- Special Solenoid Valve

PREMIER QUALITY
GLOBAL REPUTATION



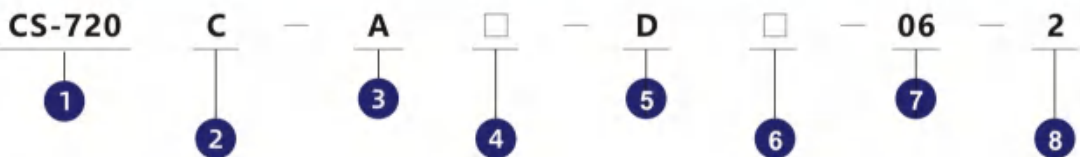
CS Automatic Drain valve

Fully automatic, maintenance-free Timer control drain valve

Features

- Conforming to CE standard
- Fully automatic, maintenance-free
- Suitable for automatic discharge of condense water in many occasions and automatic irrigation system
- Different voltage and port size are available for selection
- Interval and working time can be adjustable
- Without manual testing switch
- ABS flame-proof house, can reach IP65 class after right installed
- Applicable to a wide range of temperature
- Direct-acting, big orifice, to avoid blockade
- With filter ball valve, Port size and manual switch Can do any changes, easy to install and maintain

Order Code



1. Series code
CS-720
CS-728A
CS-711

2. Material
C: Copper
L: Aluminum
S: Stainless Steel

3. Timer
A: 720A Timer
H: 3801 Timer
W: Without Timer
WS: Stainless Steel,
Without Timer

4. Normally Open
Blank: Normally Closed

5. Standard Voltage
A: AC220V
B: DC24V
D: DC12V
C: AC110V
E: AC24V
G: AC36V
F: AC380V

6. Thread Type
Blank: G Thread
NPT: Thread
PT: Thread
RC: Thread

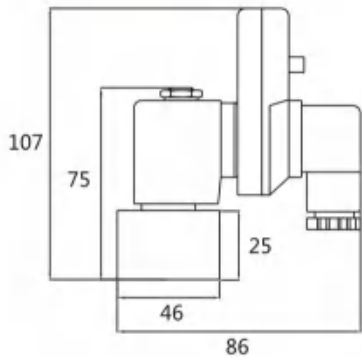
7. Interface Specification
06: 1/8"
08: 1/4"
10: 3/8"
15: 1/2"

Code	Series	Diameter
2	CS-720	2mm
2.5		2.5mm
4.5		4.5mm
3.5	CS-728A	3.5mm

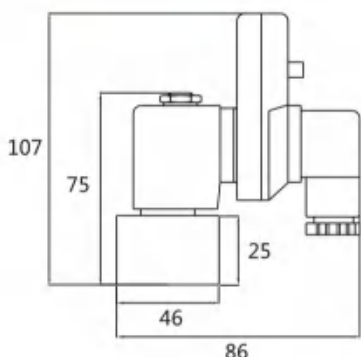
Technical parameters

Model	CS-720			
Valve Style	720		3801	
Connection ports	CS Automatic Drain valve			
	1/8" 1/4" 3/8" 1/2" Female			
Working pressure	1.6MPa(4.5mm)	4.0MPa(2.5mm)		8.0MPa(2mm)
On/off time	On 0.5~10s		On 1s ~ 99h59min59s	
	Off 0.5~45min		On 1s ~ 99h59min59s	
Working temp.	-20℃~60℃			
Highest Media Temperature	160℃			
Valve Body	Brass / Stainless steel			
Orifice	F/H class			
Protection class Insulation class	IP65(with plug)			
Voltage	AC24, AC110, AC220V, DC24V			
Power	AC22VA/DC20W			
Mounting	Any place			

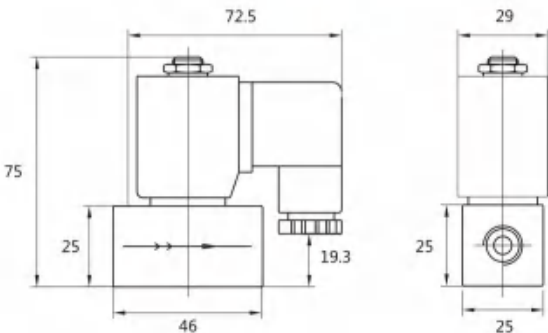
CS-720C-A



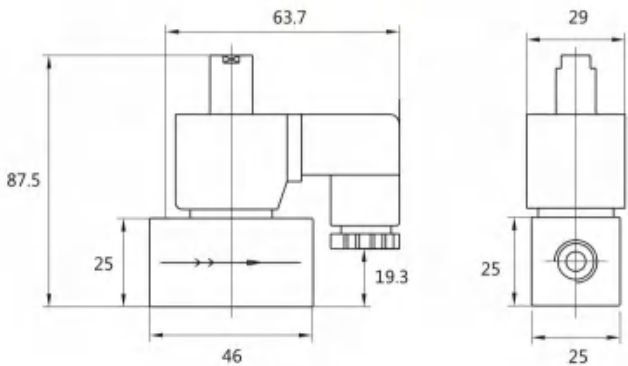
CS-720C-H



CS-720C



CS-720C-CK

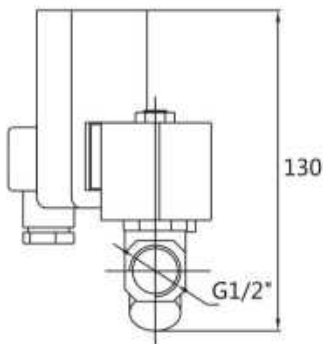
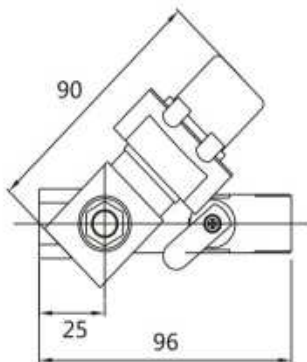
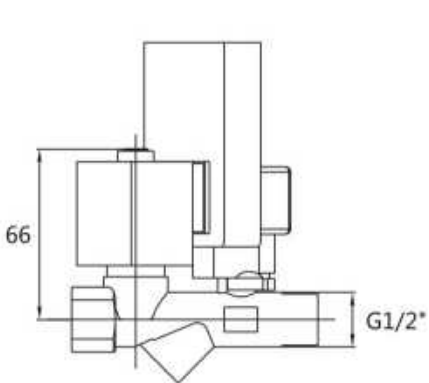


Technical parameters

Model	CS-728A	
Valve Style	720	3801
Orifice	3.5 mm	
Pattern	Normally close	
Rated voltage	AC24, AC110, AC220V, DC24V	
Power	AC22VA/DC20W	
Working pressure	0~1.6MPa	
Working temp.	0°C~80°C	
Valve body material	Brass	
Seal material	NBR / VITON	

Combine filter ball valve and Timer control drain valve together

CS-728AC-A



CS Strainer

Used alone or Together with CS-720 Series valve



Order Code

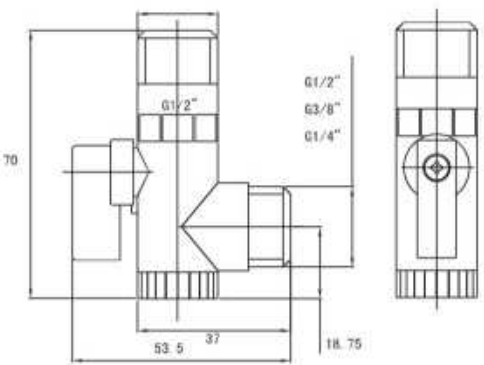
CS-S95 — G — 06

1 2 3

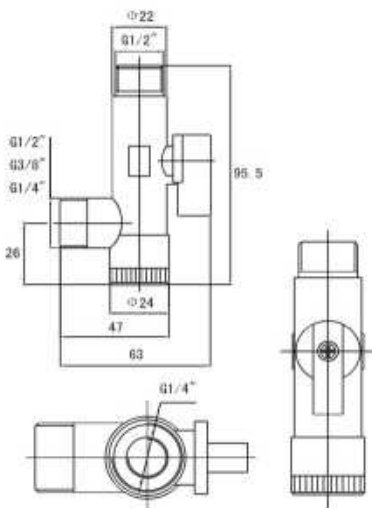
- 1. Series Code
S95: Length 95mm
S70: Length 70mm
- 2. Thread Type
G: GThread
N: NPT
- 3. Port size
06: 1/8"
08: 1/4"
10: 3/8"

Overall dimensions

CS-S70 Strainer



CS-S95 Strainer



PS Series

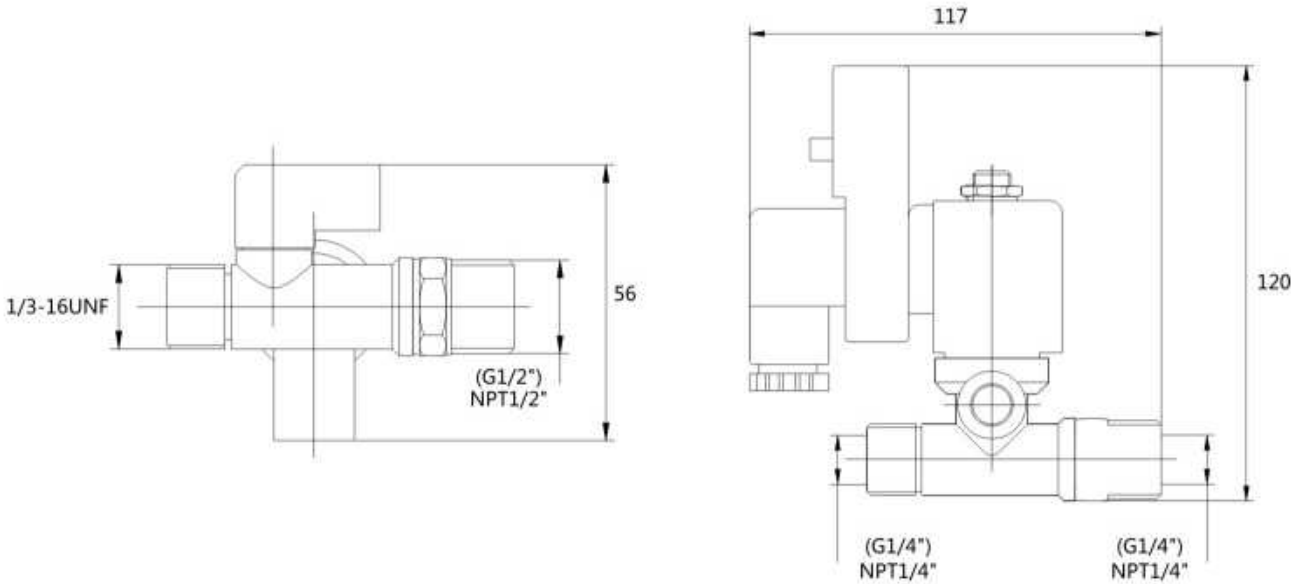
Combine filter ball valve and Timer control drain valve Together, Economic and benefits



Technical parameters

Orifice	4mm
Pattern	Normally close
Rated voltage	AC24, AC110, AC220V, DC24V
Power	AC22VA/DC20W
Working pressure	0~1.6MPa
Working temp.	-5℃~80℃
Valve body material	Brass
Seal material	NBR / VITON

Overall Dimension



RD Series

Automatic Discharge, without human management and other functions



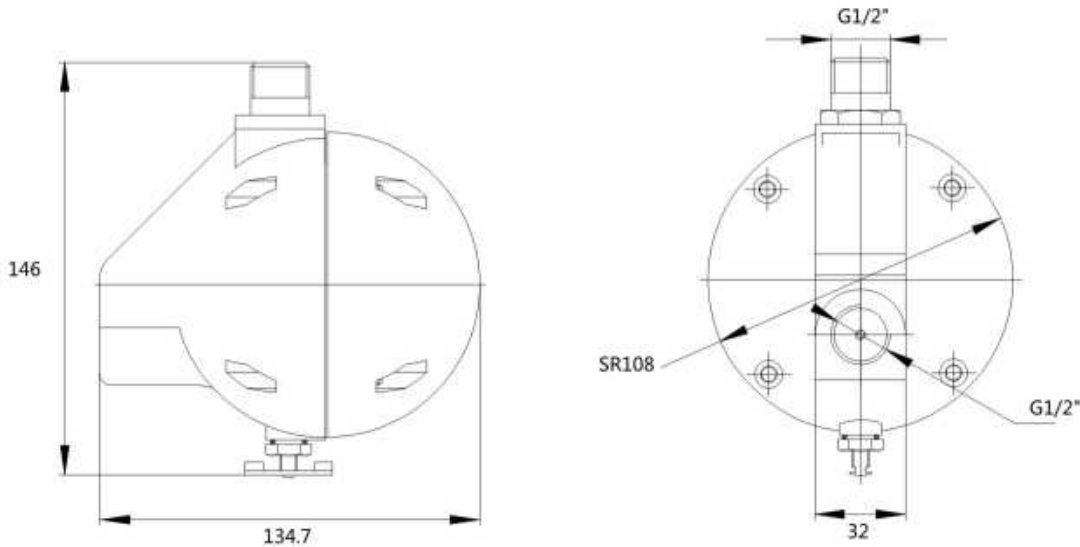
Technical parameters

Connection ports	G1/2"
Seal material	NBR
Media	Water
Working pressure	0~1.6MPa
Working temp.	-10℃~80℃
Working type	Leverage and Buoyancy type
Max. pressure	2.0MPa
Valve body material	Aluminum

Features

- Automatic Discharge, without human management and other functions
- When the water reaches a certain volume, Under the leverage and buoyancy Principle, discharge the water automatically
- Overall ball type design, save the installation space
- Directly Install on the inlet pipe , no need to install bolts

Overall Dimension

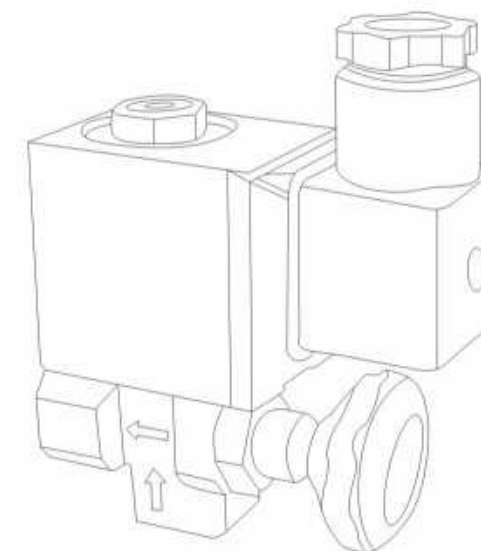


Steam Valve

Independently installed on the ironing equipment; made of heat-resistant materials with a temperature resistance up to H grade; adjustable steam flow for convenient operation; the electrical part has good waterproof performance.

- Pneumatic Actuator/Valve
- Angle seat valve
- Pneumatic valves
- 2/2 Valve
- Dust Collector Valves & Parts
- Drain valves
- **Steam Valve**
- Special Solenoid Valve

**PREMIER QUALITY
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DL Series

- Installed on the Ironing equipments independent
- Fully made of heat resistant H class material
- Steam flow rate can be adjustable, Easy to operate
- Electrical parts good water-proof
- Insert pipe, Female-male thread, Adjustable and angle adjustable type for choose



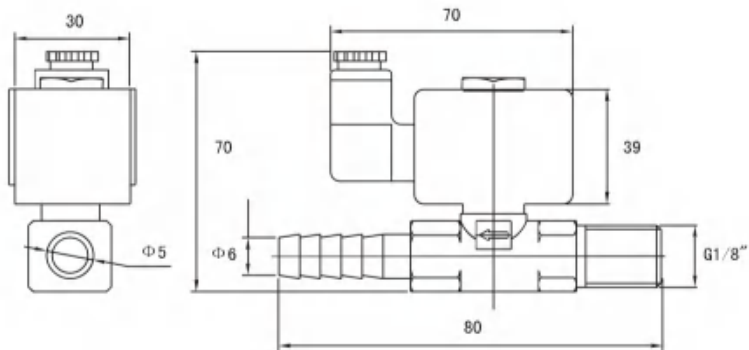
Order Code

DL	6A
1	2
1. RFS product	2. Series Code
	6A 6M
	6B 3T
	6C 3Q
	6E 3P
	6F 6I
	6G 6D
	6K 6N

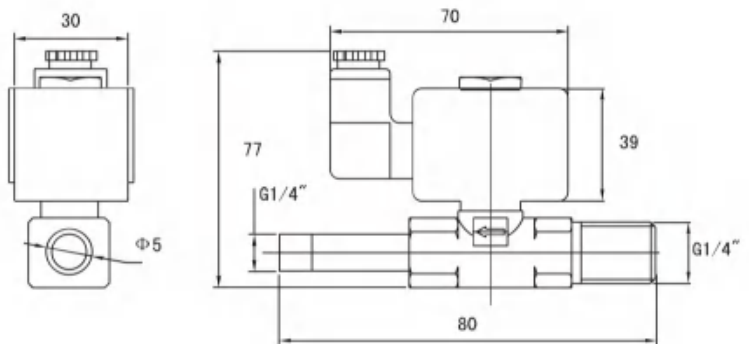
Technical parameters

Model	DL-6A	DL-6B	DL-6C	DL-6E	DL-6F	DL-6G	DL-6K
Media	Water / Steam / Clean Air						
Working type	2/2 Direct action						
Pattern	Normally close						
Orifice	2.5mm	2.5mm	2.7mm	1.8mm	2.5mm	2.5mm	2.5mm
Connection ports	Φ6 Intubation, External G1/8"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
Working pressure	0~0.8MPa	0~0.8MPa	0~0.8MPa	0~2.5MPa	0~2.5MPa	0~1.0MPa	0~0.8MPa
Max. pressure	1.6MPa	1.6MPa	1.6MPa	3MPa	3MPa	1.6MPa	1.6MPa
Working temp.	0℃~180℃						
Rated voltage	DC/AC24~240V						
Power	DC12W/AC15VA			DC20W/AC28VA		DC16W/AC19VA	DC12W/AC15VA
Protection class	IP65						
Insulation class	H class						
Valve body material	Brass						
Seal material	PTFE/FKM						

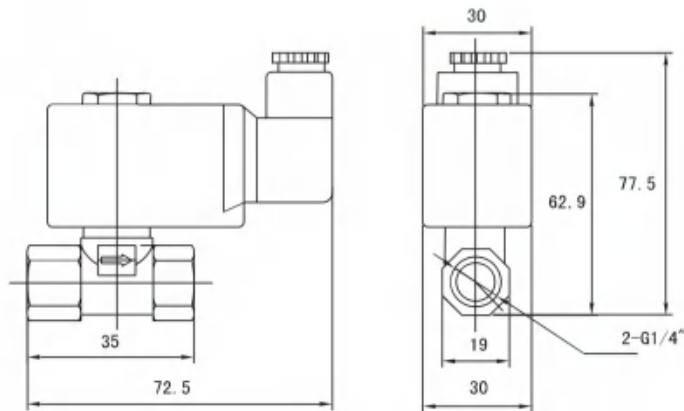
DL-6A



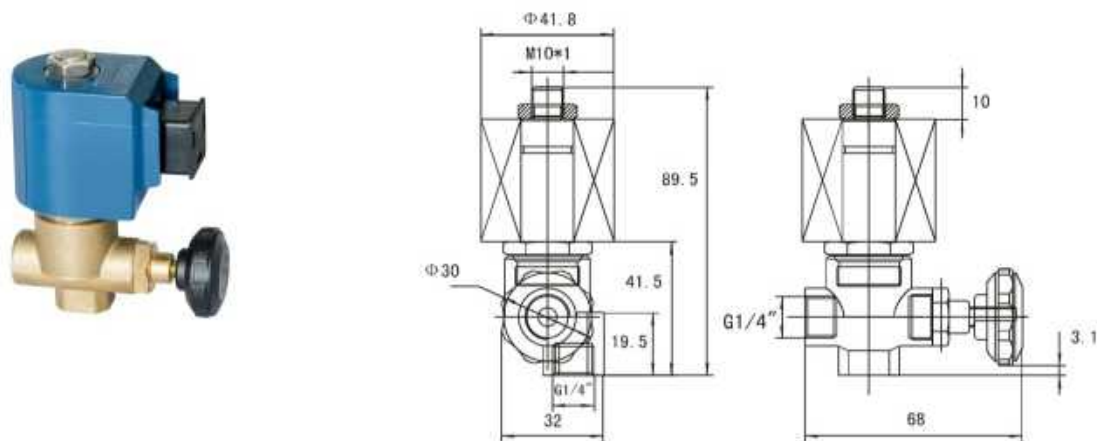
DL-6B



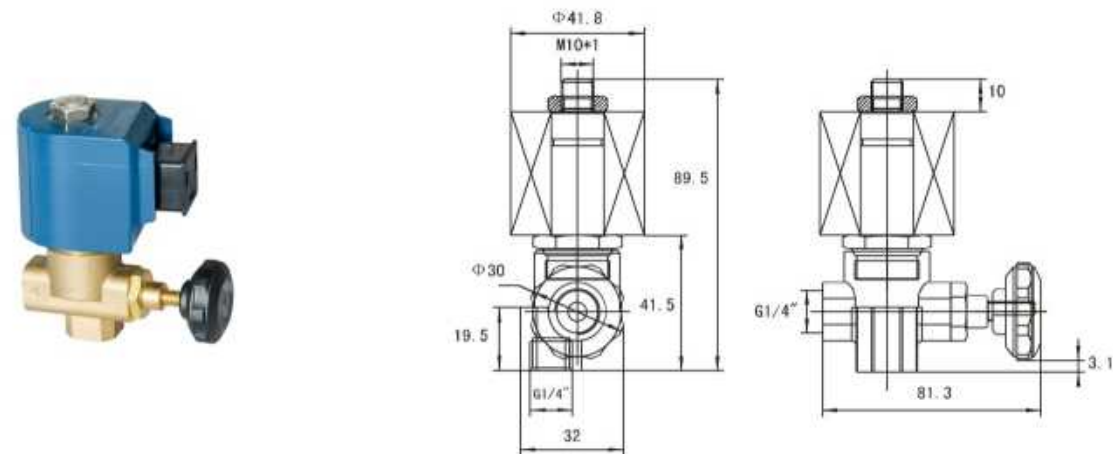
DL-6C



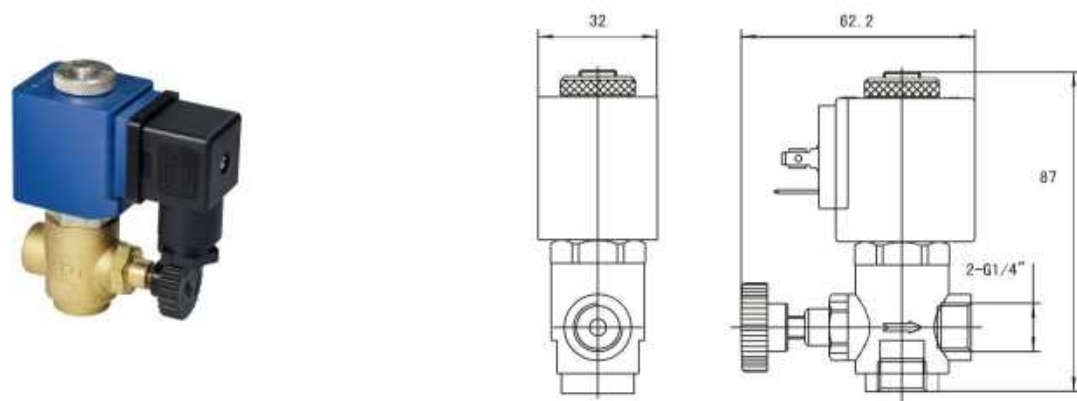
DL-6E



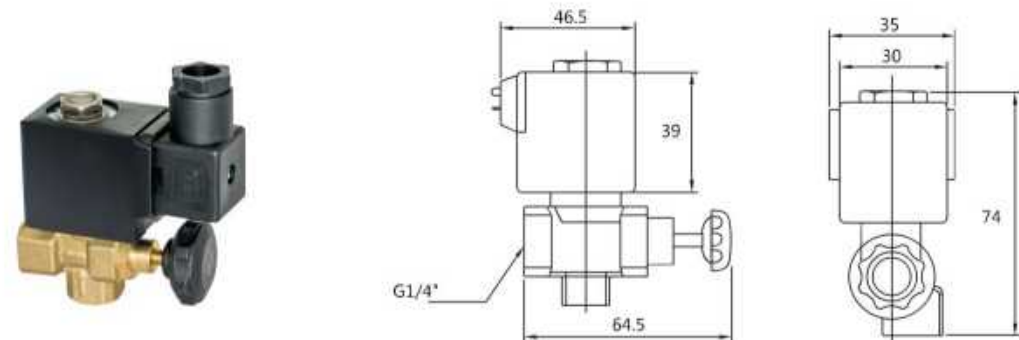
DL-6F



DL-6G



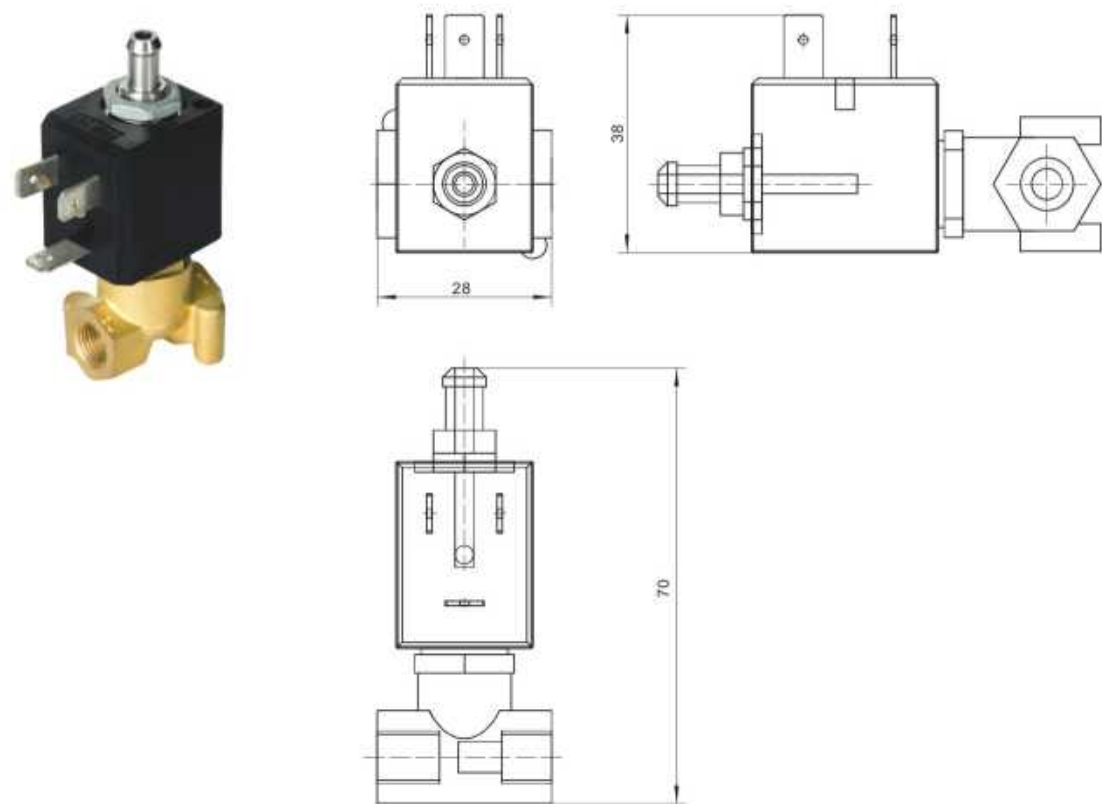
DL-6K



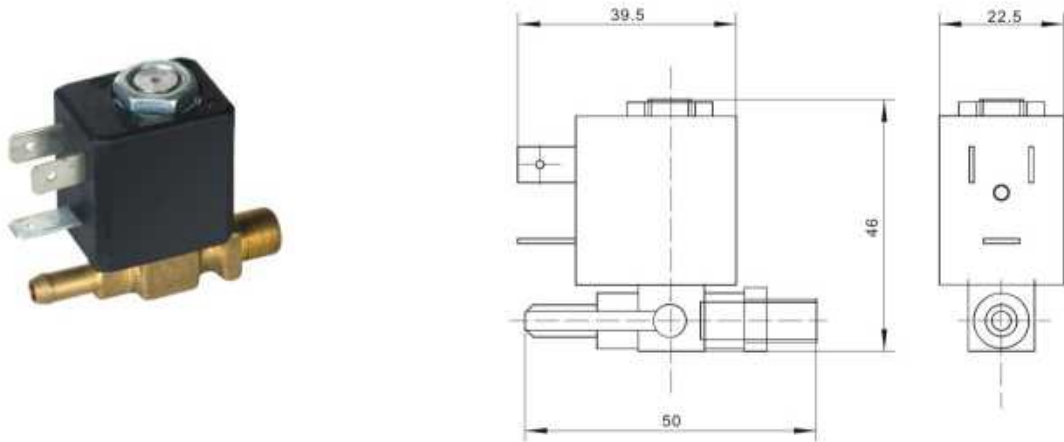
Technical parameters

Model	DL-6M	DL-3T	DL-3Q	DL-6P	DL-6I	DL-6D	DL-6N
Media	Water / Steam / Clean Air						
Working type	2/2 Direct action						
Pattern	Normally close						
Orifice	1mm	2.7mm	2.7mm	1.8mm	1.8mm	2mm	3mm
Working pressure	0.02-0.8MPa	0.02-0.45MPa	0.02-0.35MPa	0.02-0.1MPa	0.02-0.1MPa	0-0.8MPa	0-0.8MPa
Voltage	220V AC						
Connector Port	G1/8"						G1/4"

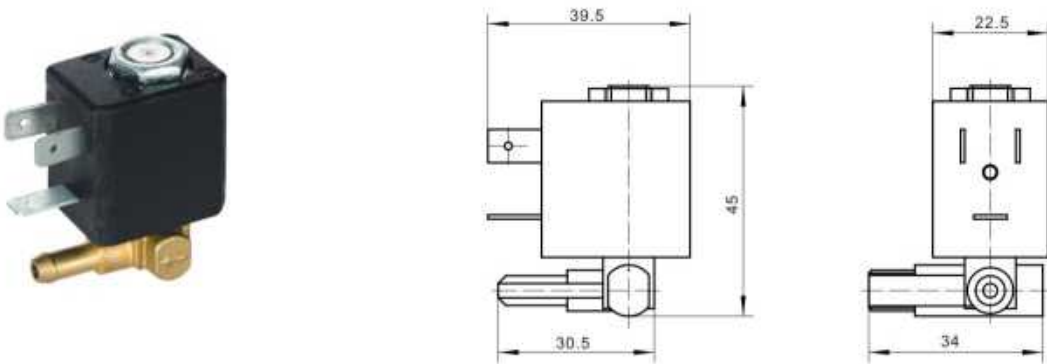
DL-6M



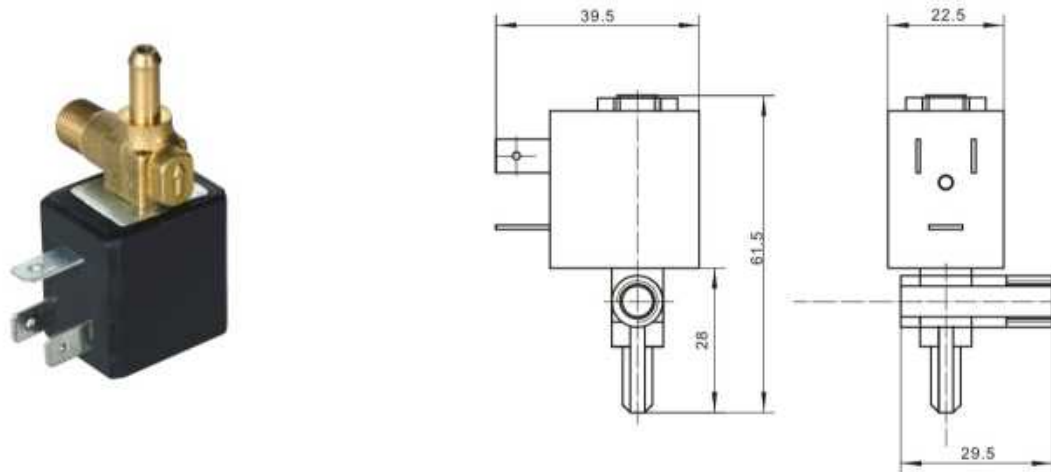
DL-3T



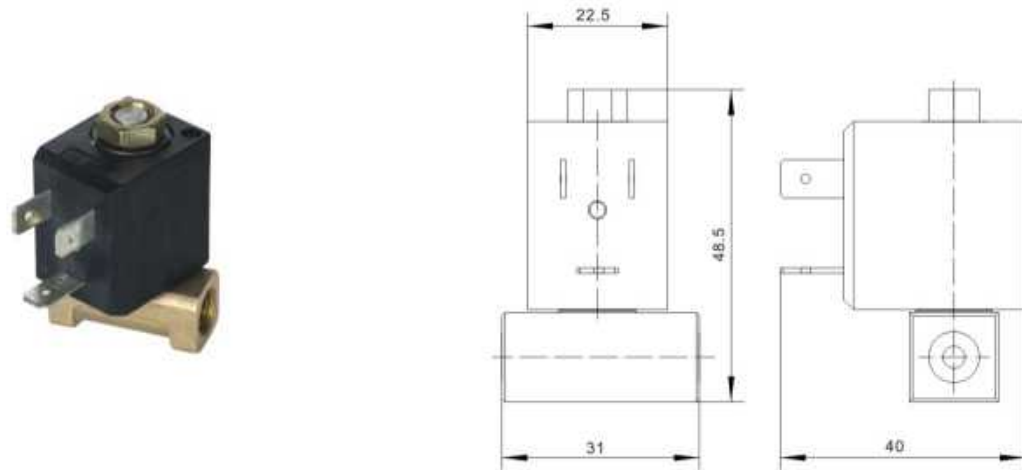
DL-6I



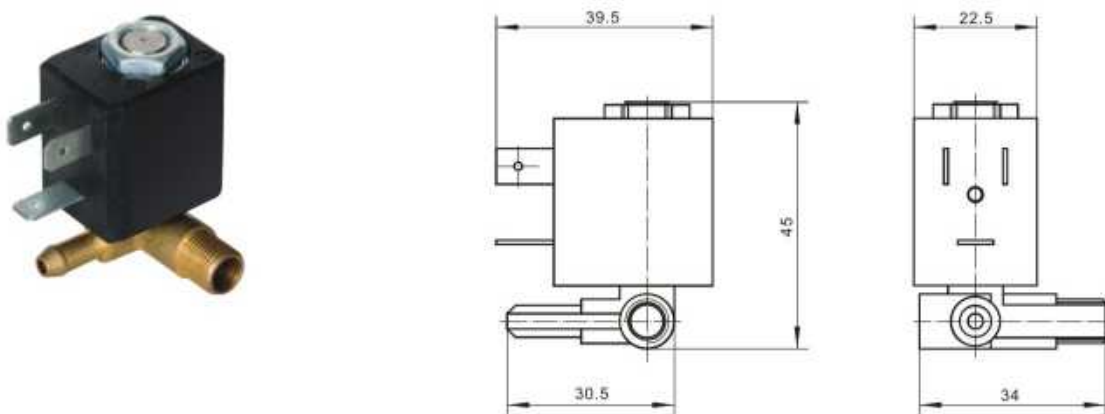
DL-3Q



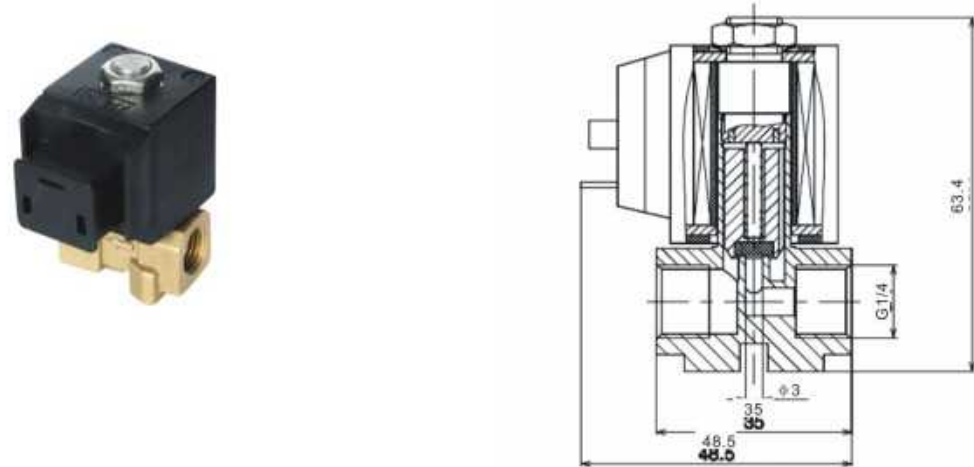
DL-6D



DL-3P



DL-6N



0121 Steam Valve

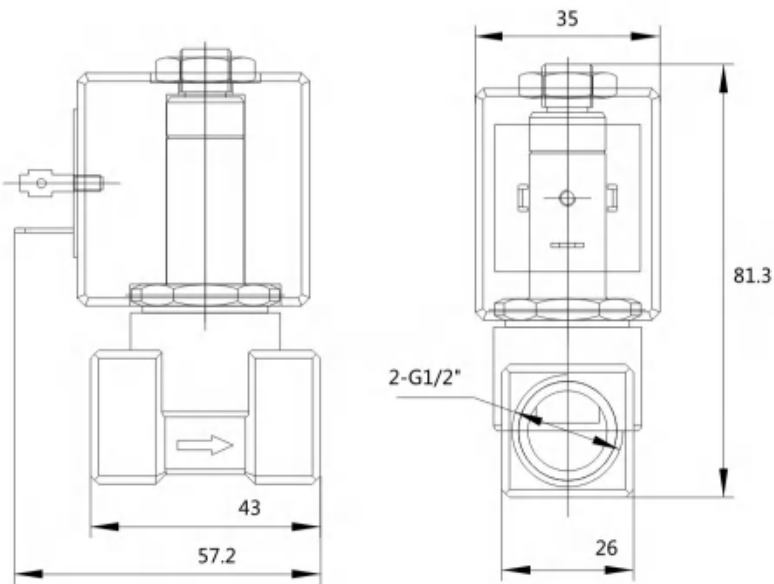
- International advanced technology
- Compact,easy to install
- For steam pipe



Technical parameters

Medium	Steam
Pattern	Normally close
Orifice	4.5mm
Connection ports	G1/2"
Working pressure	0~0.6MPa
Max. pressure	2.5MPa
Working temp.	-20°C~180°C
Rated voltage	AC220V
Power	32VA
Protection class	IP65
Insulation class	H class
Valve body material	Brass
Seal material	VITON

Overall Dimension



RV08102 Steam Valve

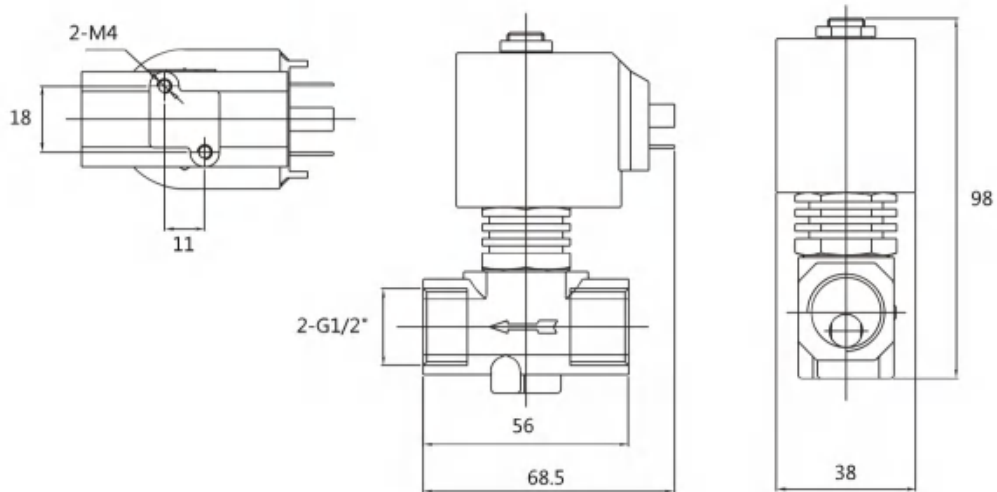
- Coil with heat sink,Resistant high temperature
- Piston type, big flow rate
- For steam pipe



Technical parameters

Medium	Steam
Pattern	Normally close
Orifice	8mm
Connection ports	G1/2"
Working pressure	0~1.0MPa
Max. pressure	2.5MPa
Working temp.	0~180°C
Rated voltage	AC220V
Power	19VA
Protection class	IP65
Insulation class	H class
Valve body material	Brass
Seal material	PTFE/VITON

Overall Dimension

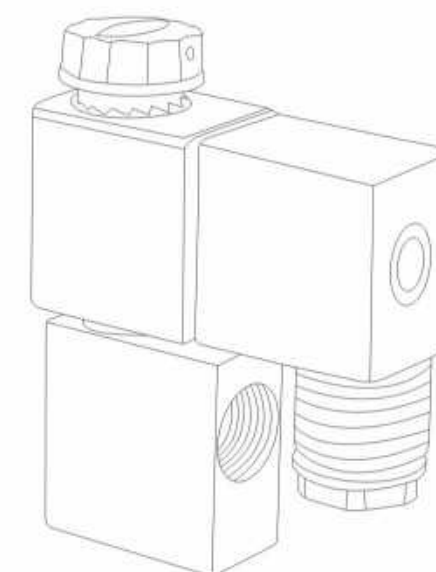


Special Solenoid Valve

Compact and Lightweight: Easy to install, occupies little space. Oil-Free Design: Ensures good durability. Indicator and Protection Devices: Built-in indicators and protection devices in the coil. Flexible Combination: Can be combined individually or in multiple ways for integrated control of one air inlet and multiple outputs. Wide Application: Often used as pilot valves for large diameter valves and for controlling micro single-acting cylinders. PC Compatibility: Suitable for direct control by PCs with lower power consumption.

- Pneumatic Actuator/Valve
- Angle seat valve
- Pneumatic valves
- 2/2 Valve
- Dust Collector Valves & Parts
- Drain valves
- Steam Valve
- **Special Solenoid Valve**

**PREMIER QUALITY
GLOBAL REPUTATION**



52001/52001-1 pressure valves

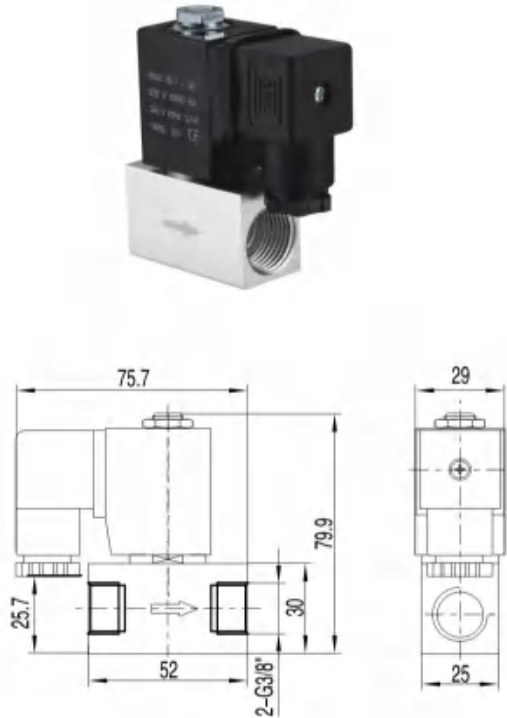
- 1. Compact design with in line inlet and outlet ports.
- 2. Low pressure for gas burner application.
- 3. mall power consumption.



Model	52001	52001-1
Media	Clean Air / Gas	
Working type	Direct action 2/2	
Pattern	Normally close	
Orifice	3.1mm 4.0mm	
Connection ports	G1/8"	
Working pressure	0~150mbar	
Max. pressure	1.0MPa	
Working temp.	-10°C~80°C	
Rated voltage	AC24V-220V	
Power	6VA	
Protection class	IP65	
Insulation class	F class	
Valve body material	Aluminum	
Seal material	NBR/FKM	

SB163

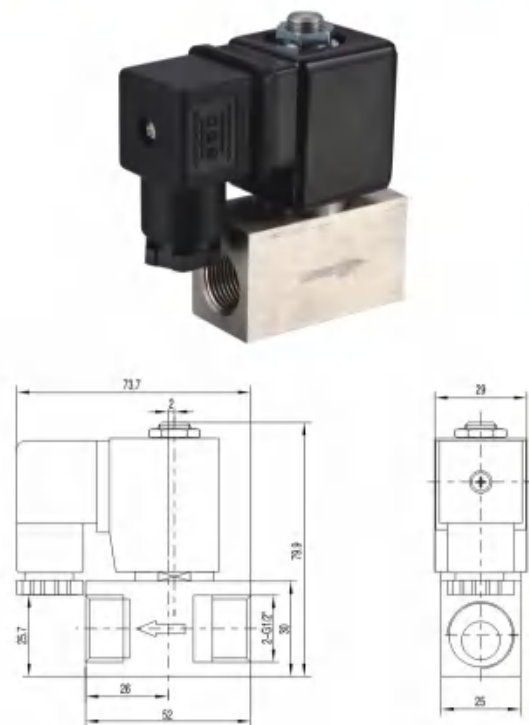
Low pressure valve for gas burner or waste water treatment system.



Model	SB163	SB163-4-A
Media	Clean Air	
Working type	Direct action 2/2	
Pattern	Normally close / Normally open	
Orifice	12mm/10mm/8mm	5mm
Connection ports	G1/2"	G1/4"
Working pressure	0~350mbar	0~2bar
Max. pressure	1.0MPa	
Working temp.	-10°C~80°C	
Rated voltage	AC24V/110V/220V DC12V/24V	
Power	AC22VA/DC14W	
Protection class	IP65	
Insulation class	F class	
Valve body material	Aluminum	
Seal material	NBR, FKM	

TEX891

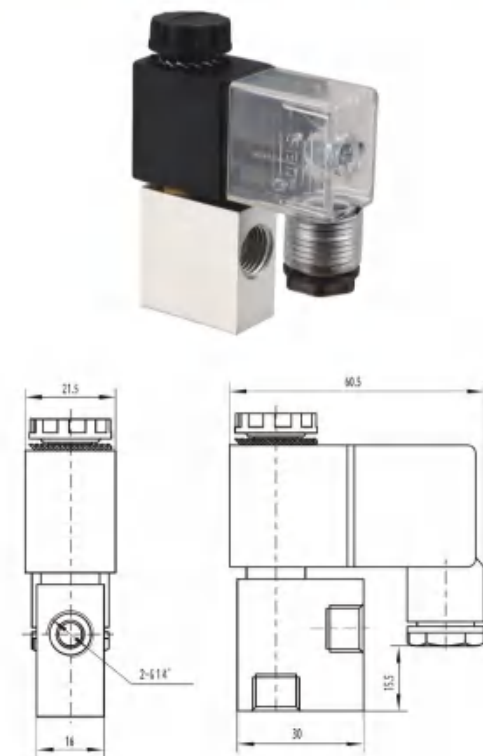
- 1. Large diameter, high flow rate.
- 2. Oxidized body treatment.
- 3. Commonly used for low-pressure air and gas.



Model	TEX891
Media	Clean Air / Gas
Working type	Direct action 2/2
Pattern	Normally close
Orifice	10mm
Connection ports	G1/2"
Working pressure	50mbar~150mbar
Max. pressure	1.0MPa
Working temp.	-10°C ~ 80°C
Rated voltage	AC24V-220V
Power	DC13W/AC10W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	FKM

51001 Low pressure valves

- 1. Compact design with right angle inlet and outlet ports.
- 2. Low pressure for gas burner application.
- 3. Small power consumption.



Model	51001
Media	Clean Air / Gas
Working type	Direct action 3/2 2/2
Pattern	Normally close
Orifice	1mm/5mm
Connection ports	G1/8" G1/4"
Working pressure	0-0.8MPa/0-0.5MPa
Max. pressure	1.2MPa
Working temp.	-10°C~80°C
Rated voltage	AC24V-220V
Power	6VA
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	NBR/FKM

KS-40 High pressure NO valve

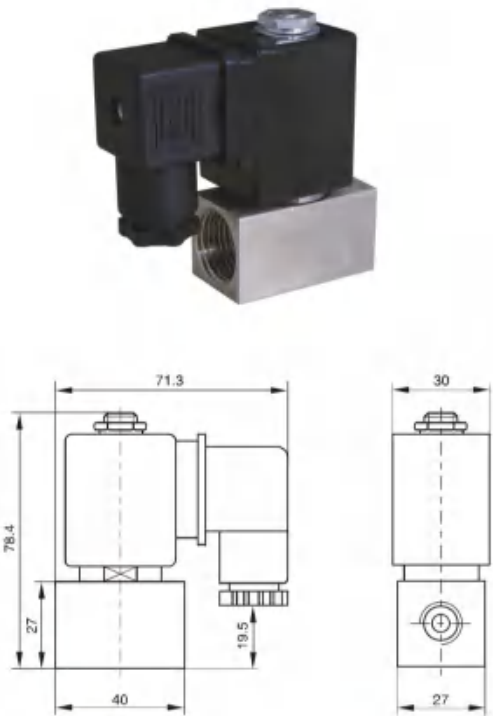
Normally open valve for high pressure application 0-4MPa.



Model	KS-40
Media	Clean Air / Water
Working type	Direct action 2/2
Pattern	Normally open
Orifice	1.5mm
Connection ports	G1/8"
Working pressure	0 ~ 4.0MPa
Max. pressure	6.0MPa
Working temp.	-20°C~ 120°C
Rated voltage	AC220V-380V
Power	10VA
Protection class	IP65
Insulation class	F class
Valve body material	Brass
Seal material	VITON

HP250/350 High pressure valve

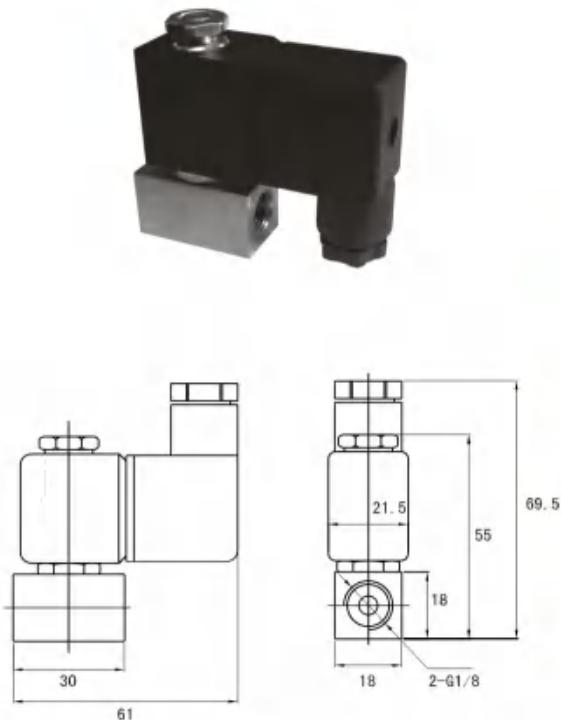
- 1、 For special very high pressure applications.
- 2、 SUS316 material with good Acid and alkali resistant.



Model	HP150	HP250	HP350	HP400
Media	Clean Air / Water			
Working type	Direct action 2/2			
Pattern	Normally close			
Orifice	1.3mm	0.9mm		
Connection ports	G1/8"-G1/2"			
Working pressure	0-15MPa	0-40MPa		
Max. pressure	45MPa			
Working temp.	-10°C~120°C			
Rated voltage	AC24V/110V/220V		DC12V/24V	
Power	AC22VA/DC14W			
Protection class	IP65			
Insulation class	F class			
Valve body material	Stainless steel SUS316			
Seal material	PTFE			

RSS210-70 High-Pressure Solenoid Valve

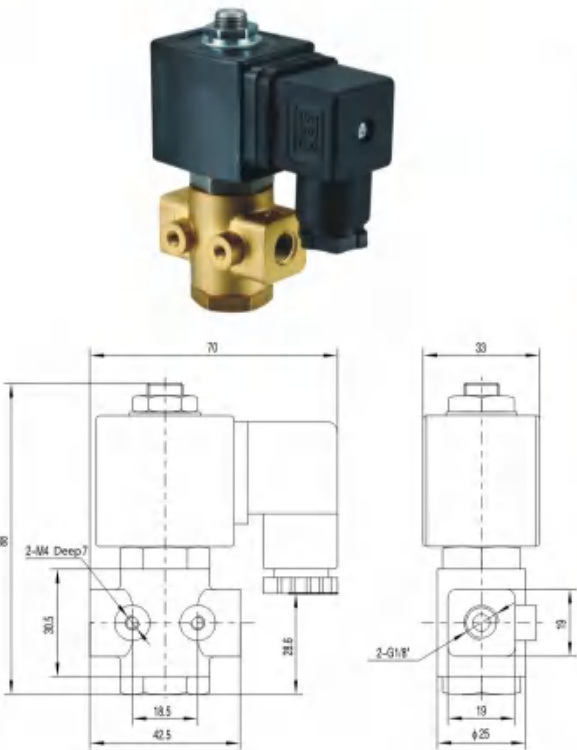
Compact valve for high pressure application, good Acid and alkali resistant, low power consumption.



Model	RSS210-70
Media	Clean Air / Water
Working type	Direct action 3/2 2/2
Pattern	Normally close
Orifice	1.2mm
Connection ports	G1/8"
Working pressure	0~7.0MPa
Max. pressure	10MPa
Working temp.	-20°C~120°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC6VA/DC6W
Protection class	IP65
Insulation class	F class
Valve body material	Stainless steel SUS316
Seal material	VITON

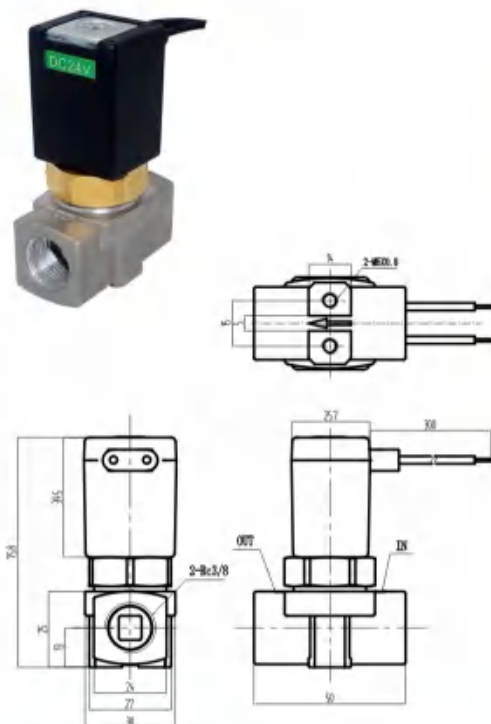
440000672 Normally open valve

Normally open with bottom valve seat, perfect and stable function.



Model	440000672
Media	Clean Air
Working type	Direct action 2/2
Pattern	Normally open
Orifice	2mm
Connection ports	G1/8"-G1/4"
Working pressure	0~1.0MPa
Max. pressure	2MPa
Working temp.	-10°C~80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC18VA/DC19W
Protection class	IP65
Insulation class	H class
Valve body material	Brass
Seal material	VITON

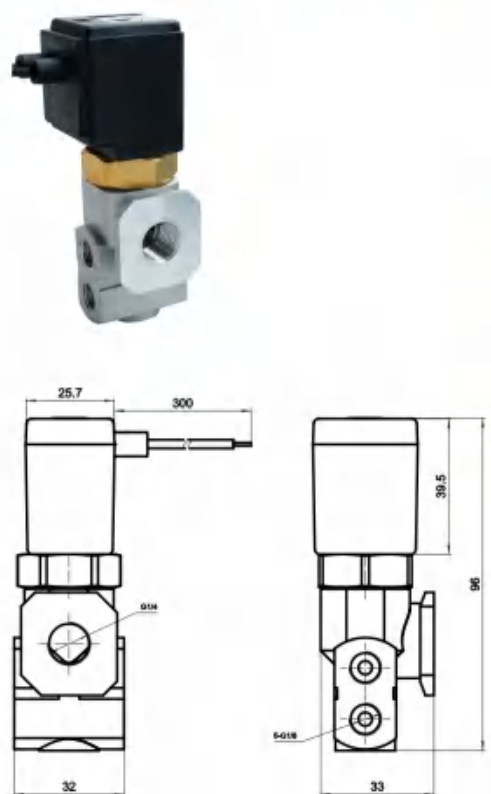
GP3220 Two-position, two-way high-frequency solenoid valve for air-jet weaving machines



No Rust, No Blockage, Clear Labels.

Product Model	GP3220
Inlet/Outlet Interface Mode	Thread (RC3/8)
Bottom Interface Mode	Thread (M5X0.8)
Working Medium	Compressed air
Operating Voltage	DC24V
Working Pressure	0.2MPa~0.7MPa
Power	DC18W
Response Time	20ms
Operating Frequency	25Hz
Flow Rate (Cv value)	1200L/min (1.2)
Fluid Temperature	5~50°C (Unfrozen)
Service Life	More than 1 billion times

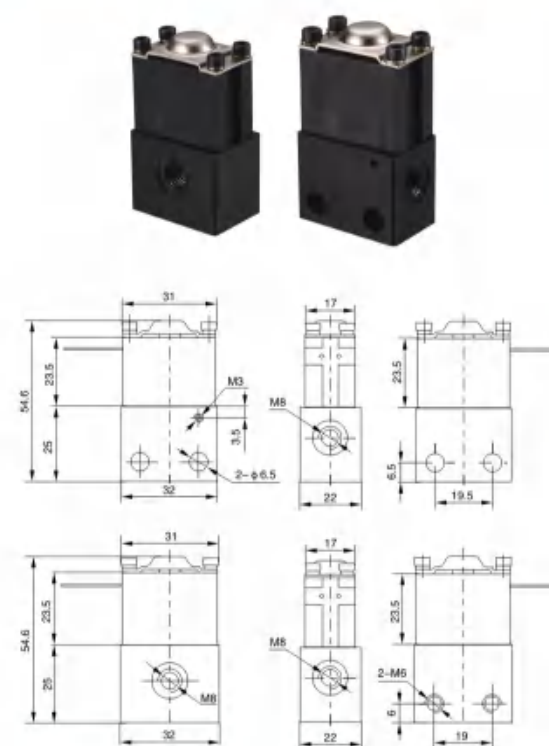
GB208 Two-Position, Two-Way High-Frequency Solenoid Valve



No Rust, No Blockage, Clear Labels.

Product Model	GB208
Inlet/Outlet Interface Mode	Thread Type
Working Medium	Compressed air
Service Life	More than 1 billion times
Working Pressure	0.2 MPa~0.7MPa
Power	DC18W
Response Time	20ms
Operating Frequency	25Hz
Flow Rate (Cv value)	1200L/min (1.2)
Fluid Temperature	5~50°C (Unfrozen)

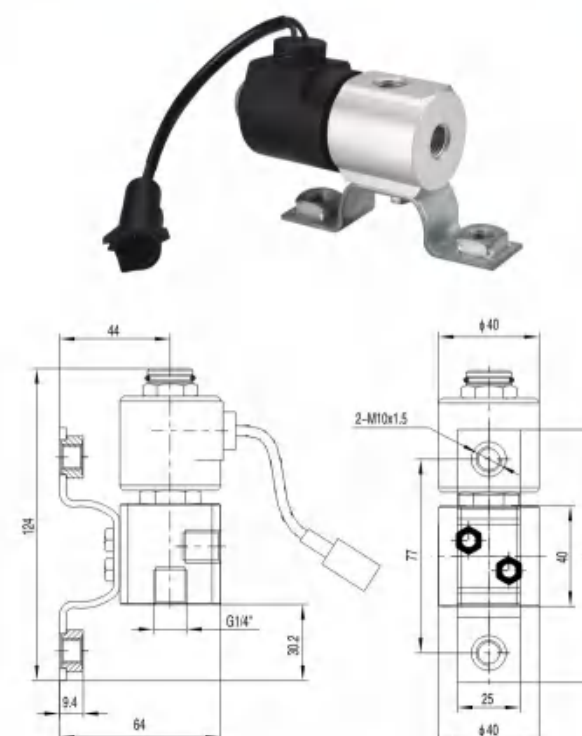
ESD Automobile Valve



1. Solenoid valve used in diesel locomotive start, fuel cut-off, and flameout device.
2. Dustproof and vibration-resistant design, ensures good durability.
3. Made of heat-resistant and fire-resistant materials, widely adaptable.

Product Model	ESD21 / ESD22
Working Medium	Compressed Air
Operation Mode	Direct Acting, Two-Position, Three-Way
Form	Normal Close
Flow Aperture	0.6mm
Connection Diameter	M8×1/M8×1.25
Working Pressure	0-0.8MPa
Max. Pressure	1.6MPa
Working Temperature	-40°C ~ 100°C
Operating Voltage	DC12V/24V/48V
Protection Level	IP65
Insulation Level	F Class
Body Material	Aluminum
Density Material	FKM, NBR

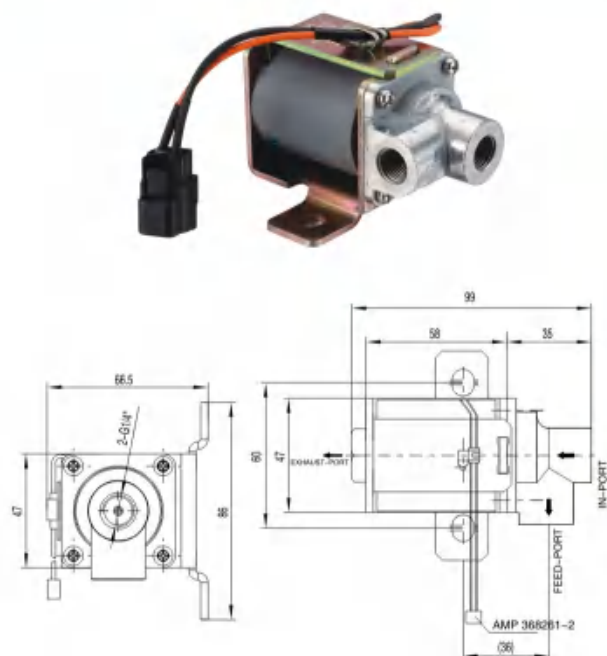
WP-1 Automobile Valve



1. Solenoid valve used in automobile start systems.
2. Dustproof and vibration-resistant design, ensures good durability.
3. Heat-resistant and fire-resistant materials, widely adaptable.

Model	WP-1
Media	Compressed air
Working type	Direct action 2/2 Direct action 3/2 2/2
Pattern	Normally close
Orifice	1.5mm
Connection ports	M10*1.5/G1/4"
Working pressure	0.3~0.9MPa
Max. pressure	1.6MPa
Working temp.	-10°C ~ 80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	DC11.5W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	NBR、FKM

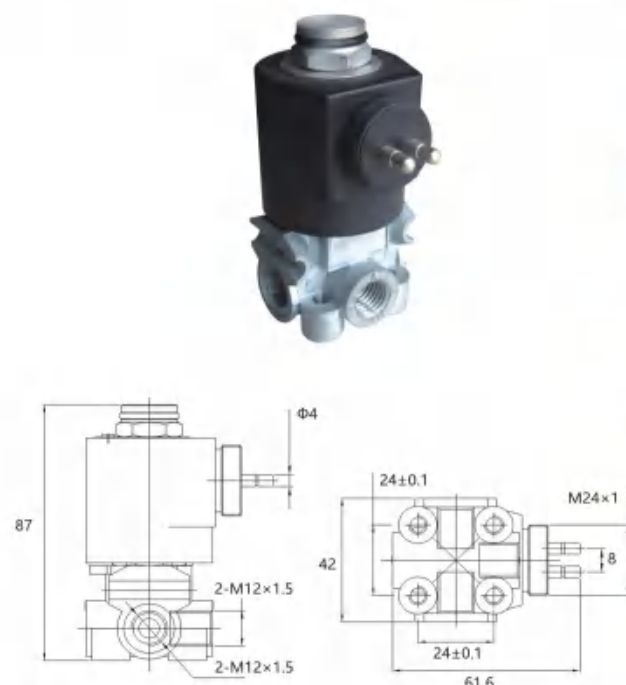
88600 Automobile Valve



1. Solenoid valve used in automobile start systems.
2. Dustproof and vibration-resistant design, ensures good durability.
3. Heat-resistant and fire-resistant materials, widely adaptable.

Model	88600
Media	Compressed air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	1.9mm
Connection ports	G1/4"
Working pressure	0.45-1.0MPa
Max. pressure	1.6MPa
Working temp.	-40°C ~ 80°C
Rated voltage	DC12V/24V
Power	DC21W
Protection class	IP65
Insulation class	F class
Valve body material	Zinc Alloy
Seal material	VITON

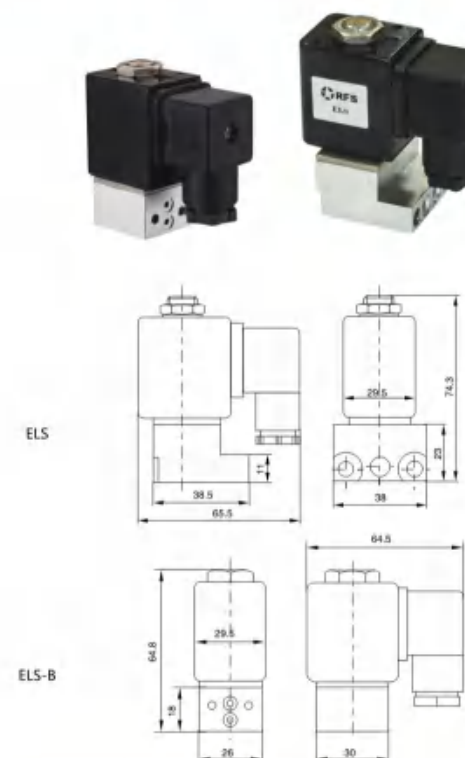
WP03103 Valve for truck application



1. Valve for automobile application.
2. Nice dust-proof design with O-ring on cap.

Model	MP-3L
Media	Compressed Air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	Φ3mm
Connection ports	M12×1.5
Working pressure	0.45-1.0MPa
Working temp.	-10℃~ 55℃
Rated voltage	DC24V
Power	12W
Protection class	IP65
Insulation class	F class
Valve body material	锌合金
Seal material	VITON

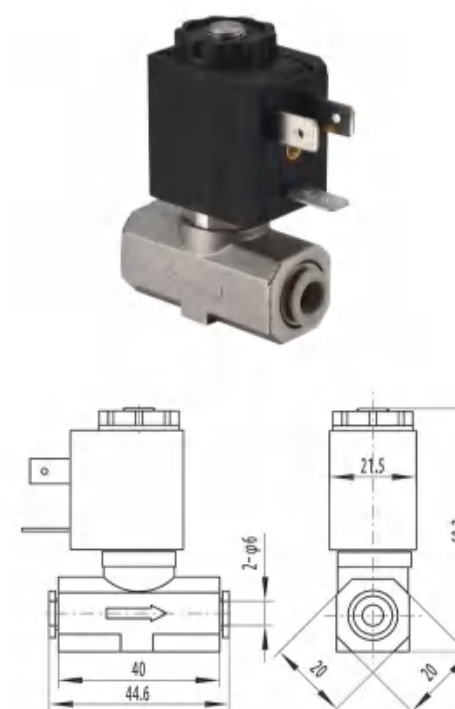
ELS/ELS-B/ELS-3B



1. Nice design with small flow resistance.
2. Moving core made from high quality material without residual magnetism.

Model	ELS/ELS-B
Media	Clean Air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	Φ1.3mm
Working pressure	0~0.8MPa
Working temp.	-10°C~40°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC9VA-15VA/DC7W -12W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	FKM

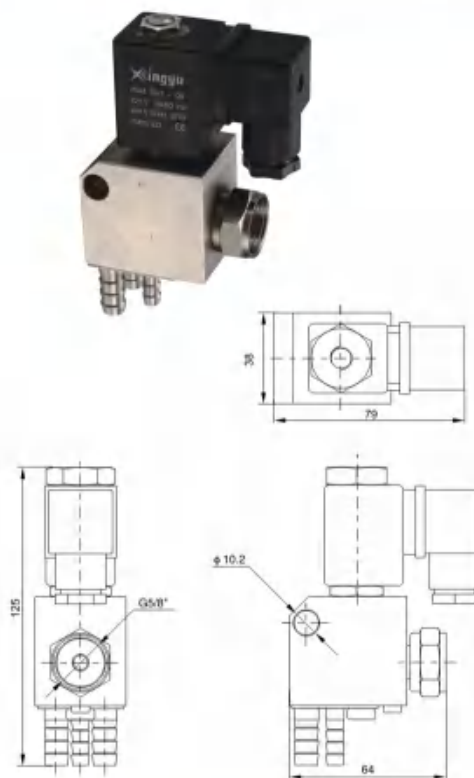
POU Valve for beverage machines



1. Special on/off control valve for beverage machine.
2. High quality food grade material, comply with ROHS indicate.
3. Push fitting type connection, easy for assembly.

Model	POU
Media	Clean Air / Water / Beverage
Working type	Direct action 2/2
Pattern	Normally close
Orifice	2.5mm
Connection ports	6mm bable
Working pressure	0~0.6MPa
Max. pressure	1.2MPa
Working temp.	-10℃~130℃
Rated voltage	AC24V-220V
Power	7VA
Protection class	IP65
Insulation class	H class
Valve body material	SUS316
Seal material	Silicon

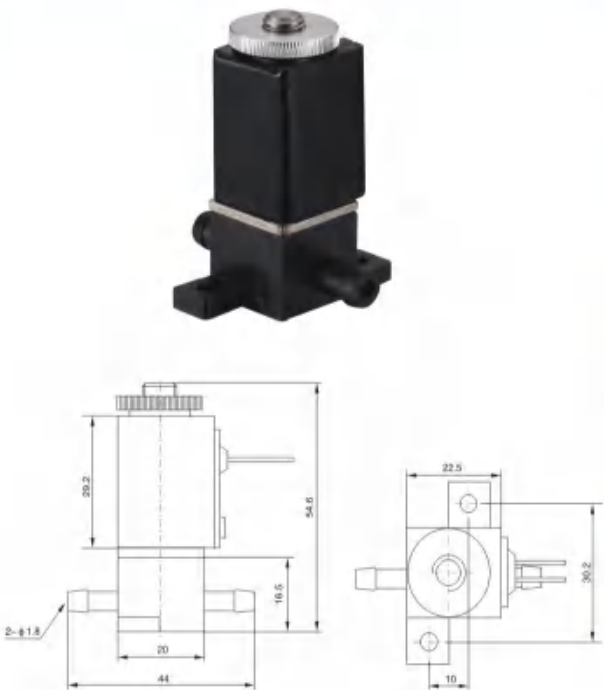
PJF Beer Valve



1. Body made from POM, seal made from solvent resistant material, valve is good for solvent like gasoline and so on.
2. Compact design with cable connection ports, easy for assembly.

Model	PJF
Media	Beer/Beverage
Working type	Direct action 2/2
Pattern	Normally close
Orifice	Φ6
Connection ports	G3/8"
Working pressure	500mbar
Max. pressure	3bar
Working temp.	0°C ~ 120°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	DC14W/AC22VA
Protection class	IP65
Insulation class	H class
Valve body material	SUS316
Seal material	Silica gel

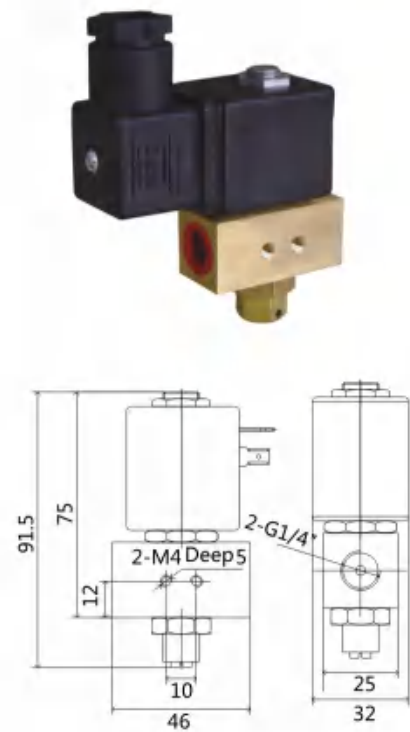
F17 Valve for gasoline



1. Body made from POM, seal made from solvent resistant material, valve is good for solvent like gasoline and so on.
2. Compact design with cable connection ports, easy for assembly.

Model	F17
Media	Petrol/Solvent
Working type	Direct action 2/2
Pattern	Normally close
Orifice	1.8mm/3mm
Connection ports	Φ4mm bable/Φ6mm bable
Working pressure	0 ~ 0.35MPa
Max. pressure	0.8MPa
Working temp.	-40°C ~ 80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	4.5W
Protection class	IP65
Insulation class	F class
Valve body material	POM
Seal material	FKM

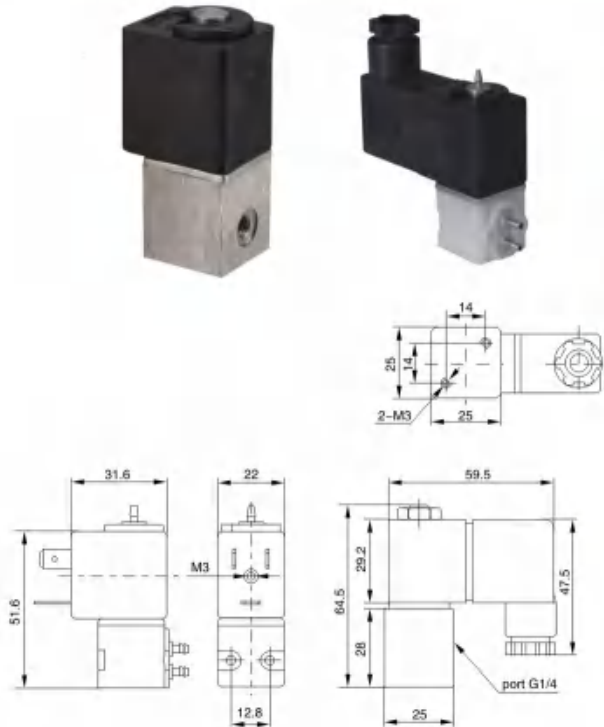
AASMA Diesel charging machine



1. Double flow pathways.
2. Flow rate adjustable.
3. Can be for other media when other seals used.

Model	AASMA
Media	Diesel / Clean Air / Water
Working type	Direct action 2/2
Pattern	Normally close
Orifice	3mm
Connection ports	G1/4" / M5 / G1/8"
Working pressure	0.2-0.65MPa
Max. pressure	1.6MPa
Working temp.	-10°C ~ 80°C
Rated voltage	DC12V/24V
Power	12W
Protection class	IP65
Insulation class	H class
Valve body material	Brass
Seal material	NBR / FKM

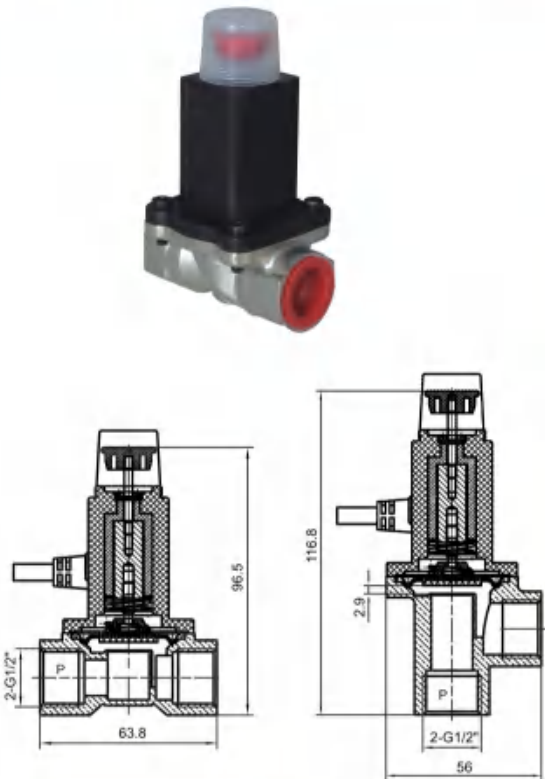
SB156/157 valve for printing machine



1. Made from solvent resistant material, valve is good for solvent like ink and so on.
2. Compact design with cable connection ports, easy for assembly.
3. 3way and 2way are optional.

Model	SB156	SB157
Media	Ink / Solvent	
Working type	Direct action 2/2 3/2	
Pattern	Normally close	NC / NO / Divert
Orifice	2mm	3mm
Connection ports	M5, G1/8"	2.5mm bable
Working pressure	0-0.6MPa	
Max. pressure	1.6MPa	
Working temp.	-10°C ~ 100°C	
Rated voltage	DC24V	
Power	7W	
Protection class	IP65	
Valve body material	Stainless steel SUS316	POM
Seal material	EPDM	

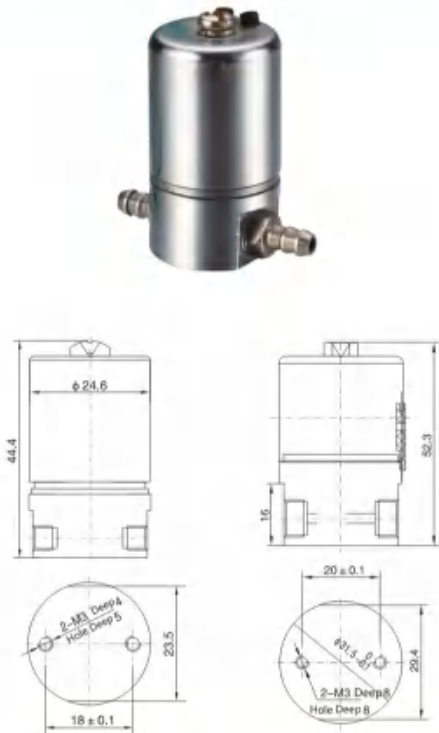
RG-15 Gas Valve



- 1. Safety valve used in gas pipe line.
- 2. Normally open type, shut off immediately when gas detector give signal.
- 3. Diaphragm type with big office.
- 4. Bistable type with low power consumption.

Model	RGT-15	RGZ-15
Media	Gas/Liquefied Gas	Compressed Air
Working type	Diaphragm type	
Pattern	Direct action 2/2	
Orifice	16mm	
Connection ports	G1/2"	
Working pressure	250mbar	
Max. pressure	0.8MPa	
Working temp.	-20°C ~ 180°C	
Rated voltage	DC6V-24V	
Power	DC5W	
Protection class	IP65	
Insulation class	F class	
Valve body material	Brass	
Seal material	NBR, FKM	

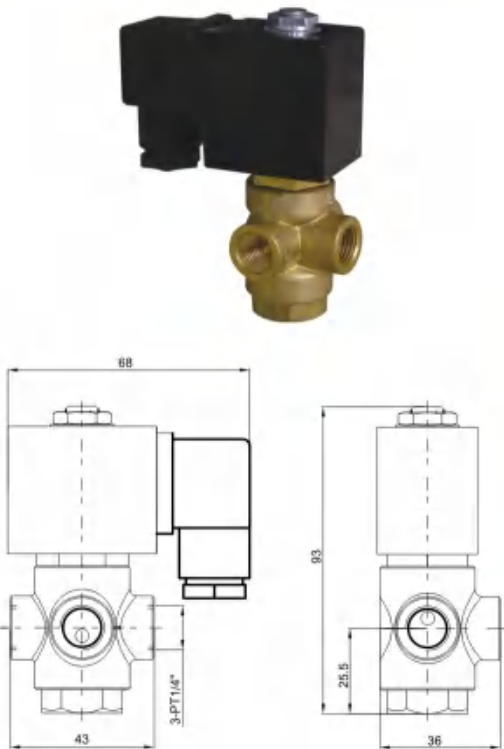
SB114 Valve for dental machine



- 1. Used for dental machine, control the on/off the clean water or air.
- 2. Compact construction.
- 3. Metal house which is rusty resistant.

Model	SB114
Media	Clean Air / Water
Working type	Direct action
Pattern	Normally close
Orifice	12mm
Connection ports	M5 or bable
Working pressure	0~0.8MPa
Max. pressure	1.6MPa
Working temp.	-10°C~80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC3.5VA/DC2.5W
Protection class	IP65
Insulation class	F class
Seal material	NBR

VT312 Multi-use valve

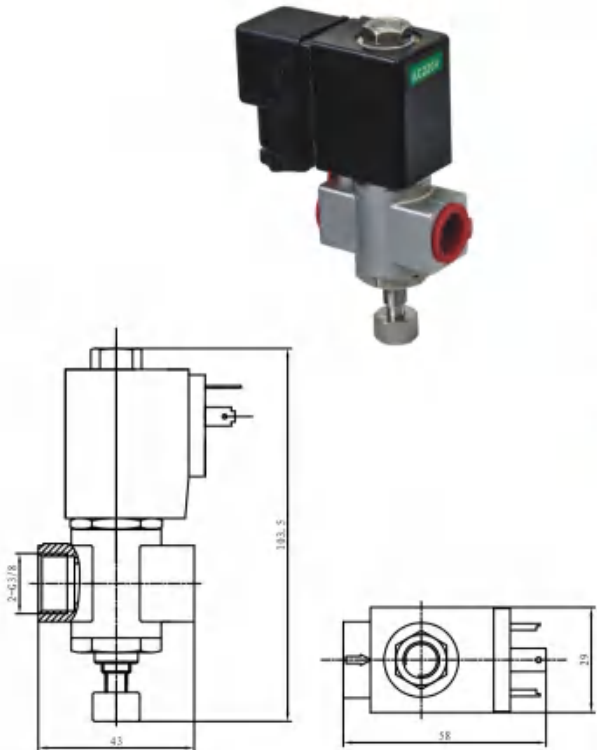


Multi-use three way valve with all three ports on valve body, easy for assembly.

Model	VT312
Media	Clean Air / Water / Oil
Working type	Direct action 2/2
Pattern	Normally close/Normally open/divert
Orifice	2.2mm
Connection ports	G1/4"
Working temp.	0~1.0Mpa
Valve body material	Brass
Seal material	VITON
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC28VA/DC20W
Protection class	IP65

Condition	Inlet	1 Inlet (HX23)	2 Inlet (CB23)	3 Inlet (CK23)
No power		2 1 3	3 1 2	3 1 2
Energized		← →	← →	← →

KTFS Adjustable water purifier valve

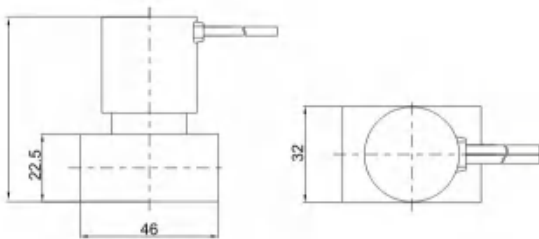


Model	KTFS
Media	Water
Working type	Direct action 2/2
Pattern	Normally close
Orifice	5mm
Connection ports	G3/8"
Working pressure	0~0.6MPa
Rated voltage	DC28V
Power	20W
Working temp.	-5°~80°
Valve body material	Stainless steel

SB172 Bistable Solenoid Valve



- 1. Bistable self-holding coil, energy-saving.
- 2. Compact structure, easy to use.
- 3. Body available in extruded aluminum or copper.

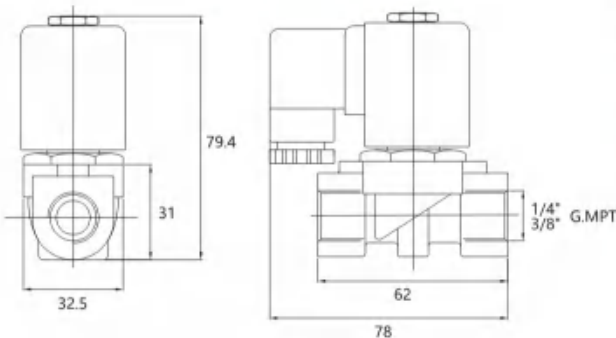


Model	SB172
Media	Clean Air / Water
Working type	Bistable
Pattern	Normally close
Orifice	2.0mm/2.5mm/6mm
Connection ports	G1/4" G1/2"
Working pressure	1.2MPa/0.4MPa/0.05MPa
Max. pressure	2.0MPa
Working temp.	-10°C ~ 80°C
Rated voltage	DC12V/24V
Power	DC20W
Protection class	IP65
Insulation class	F class
Valve body material	Brass/Aluminum
Seal material	NBR, FKM

SB167 Diaphragm valves



- 1. Direct action type.
- 2. Thermosetting coil, UL approved.
- 3. Diaphragm type with big orifice.
- 4. Suitable for different fluid based on different seals.

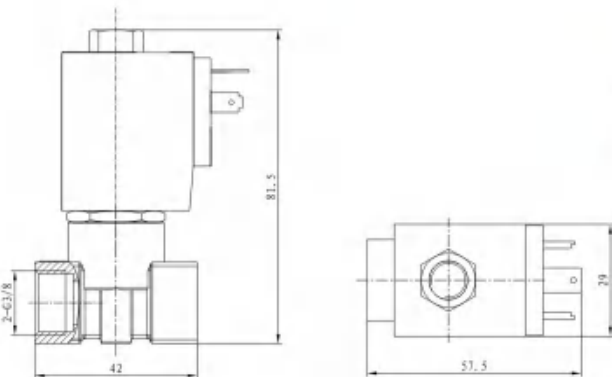


Model	SB167
Media	Compressed air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	10mm
Connection ports	G1/4" G1/2"
Working pressure	0.1~1.6MPa
Max. pressure	2.5MPa
Working temp.	-20°C~80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC12VA/DC15W
Protection class	IP65
Insulation class	F class
Valve body material	Zinc Alloy
Seal material	NBR

BTFS



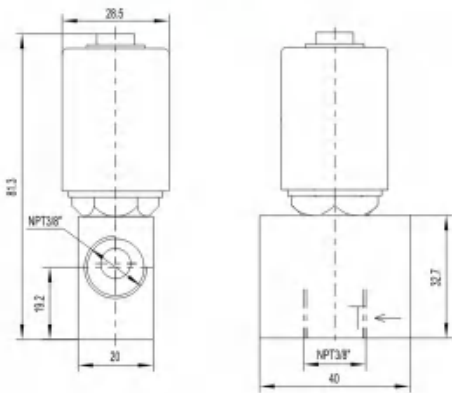
Model	BTFS
Media	Diesel/Water/Air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	5mm
Connection ports	G3/8"
Working pressure	0-1.0MPa
Rated voltage	DC28V
Power	20W
Working temp.	-5°C~80°C
Valve body material	Stainless steel



LTSA016

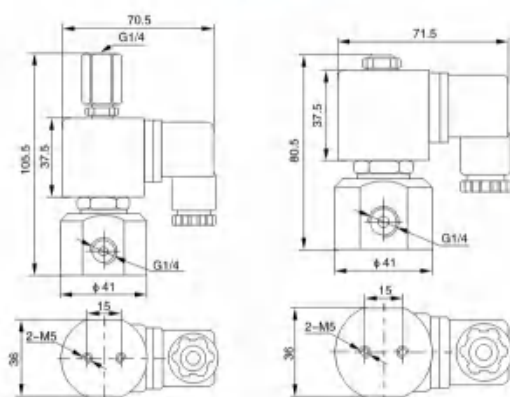


- 1. Bistable: Can be opened or closed by reversing the power supply polarity.
- 2. Metal frame on coil: Provides better magnetic conductivity.
- 3. Low voltage, low power consumption, high flow rate.



Model	LTSA016
Media	Compressed air
Working type	Direct-Acting Bistable
Pattern	Normally close
Orifice	7mm
Connection ports	NPT3/8"
Working pressure	DC6-9V
Rated voltage	0-1.0MPa
Power	DC12W/10W AC24VA/12VA

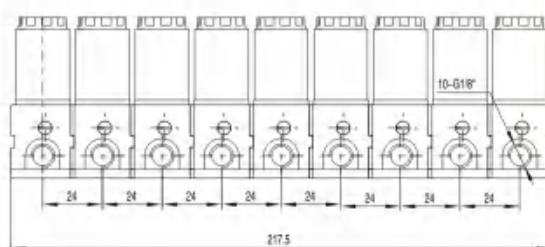
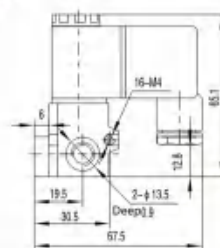
RMF23-SS/RMF22-SS Multi-use stainless steel valves



1. Widely used in different applications.
2. Different seals, different inlets, different pressure ranges are optional.
3. Include 3way and 2way types.

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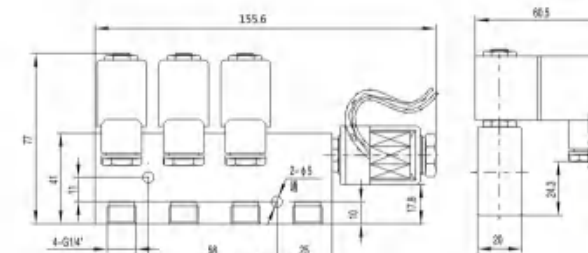
R2 Pilot valve



1. Can be used as single valve or assembled together as manifold.
2. 2way or 3way for choice.
3. L means qty. of the valves in one manifold, this qty. is depend on customers' application.

Model	R2-8L
Media	Clean Air / Water
Working type	Direct action 2/2
Pattern	Normally close
Orifice	1.2mm
Connection ports	G1/8"
Working pressure	0~0.8MPa
Max. pressure	1.6MPa
Working temp.	-10℃~80℃
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC6VA/DC4.8W
Protection class	IP65
Insulation class	F class
Valve body material	Zinc Alloy
Seal material	NBR/FKM

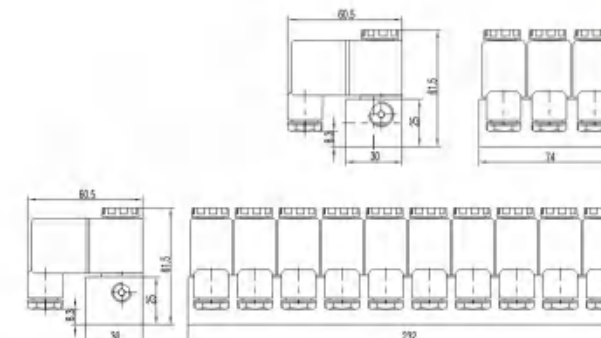
SOVA42172



1. Large intake and exhaust ports.
2. Compact structure, easy to use, and surface-mounted.
3. The main body is oxidized to its natural aluminum color.

Model	SOVA42172
Media	Compressed air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	5mm
Connection ports	G1/4"
Working pressure	0-150mbar
Max. pressure	1MPa
Working temp.	-10°C ~ 80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC5.5VA/DC4.8W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	NBR

LDXV

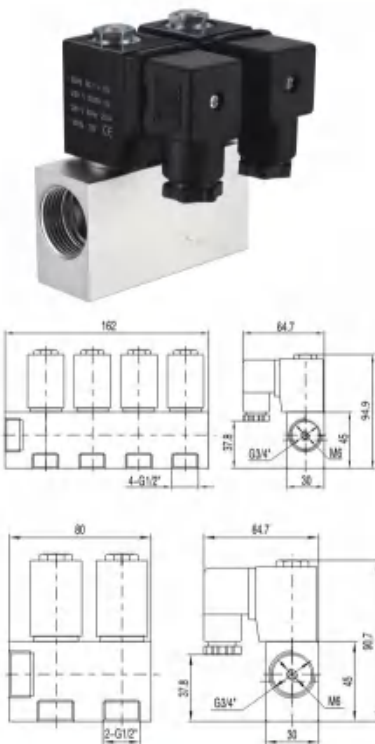


1. Medical Electromagnetic Valve: Used in medical devices such as gastric lavage machines.
2. Compact Structure: Easy to install on the back.
3. Customizable Number of Units: The number of units can be customized (L represents the number of units).

Model	LDXV-3L/4L	LDXV-10L
Media	Clean Air	
Working type	Direct Acting, Two-Position, Three-Way (Armature Inlet)	Direct action 2/2
Pattern	Normally close	
Orifice	2.5mm	
Connection ports	G1/4"	G1/8"
Working pressure	0-150mbar	0~5bar
Max. pressure	1.6MPa	
Working temp.	-10°C ~ 80°C	
Rated voltage	AC24V/220V/DC12V/DC24V	
Power	AC5.5VA/DC4.8W	
Protection class	IP65	
Insulation class	F class	
Valve body material	Aluminum	
Seal material	NBR	

RKT163-2L/RKT163-4L Large Diameter Solenoid Valve

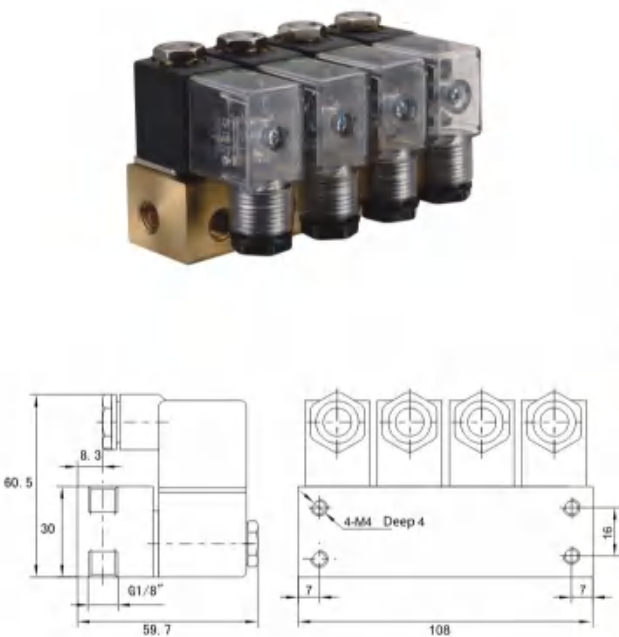
1. Large passage, large interface, low air pressure.
2. Compact structure, easy to install.
3. Surface anti-corrosion treatment.



Model	RKT163-2L/RKT163-4L
Media	Clean Air / Gas
Working type	Direct action 2/2
Pattern	Normally open
Orifice	12mm-13mm
Connection ports	G3/4"-G1/2"
Working pressure	0-300mbar
Max. pressure	1.0MPa
Working temp.	-10°C ~ 80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC22VA/DC14W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	NBR

RSB115 valve

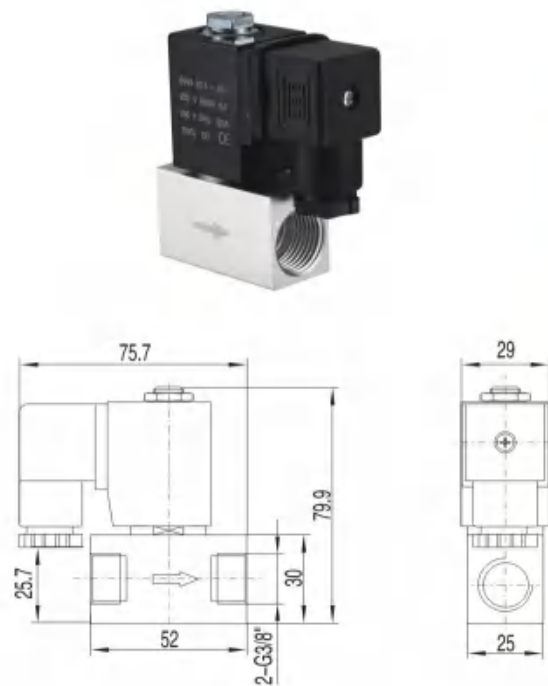
Valve for water, air or oil.



Model	RSB115
Media	Clean Air / Water
Working type	Direct action 2/2
Pattern	Normally close
Orifice	2.5mm
Connection ports	G1/8" G1/4"
Working pressure	0~0.8MPa
Max. pressure	2.5MPa
Working temp.	-10°C~80°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC6VA/DC6W
Protection class	IP65
Insulation class	F class
Valve body material	Brass
Seal material	NBR

SB163 Low Pressure Valve

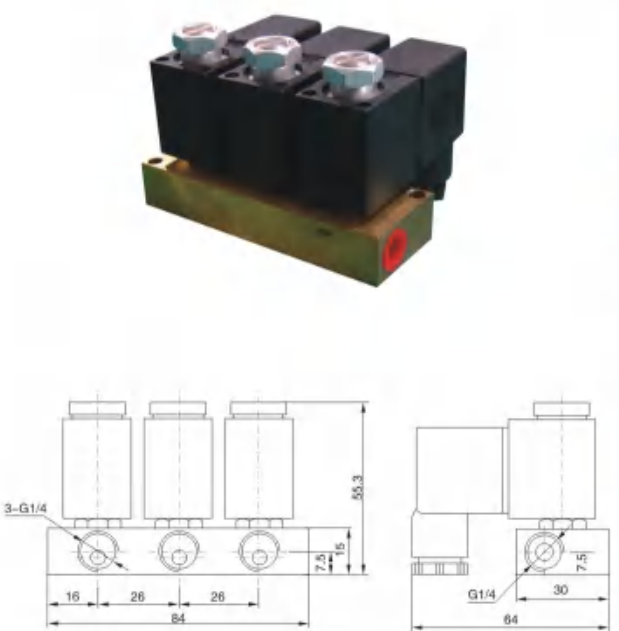
Low pressure valve for gas burner or waste water treatment system.



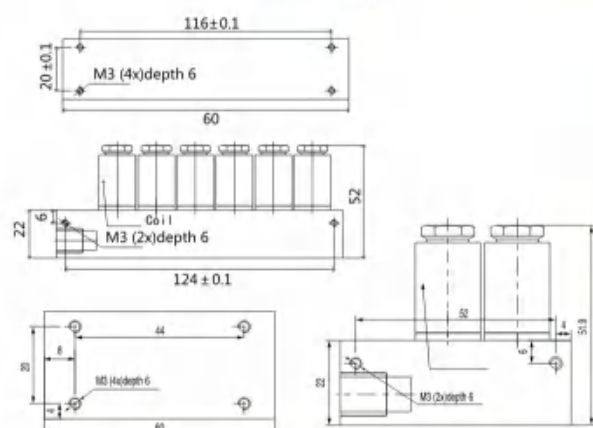
Model	SB163	SB163-4-A
Media	Clean Air	
Working type	Direct action 2/2	
Pattern	Normally close / Normally open	
Orifice	12mm/10mm/8mm	5mm
Connection ports	G1/2" G1/4"	
Working pressure	0-350mbar	0~2bar
Max. pressure	1.0MPa	
Working temp.	-10°C ~ 80°C	
Rated voltage	AC24V/110V/220V DC12V/24V	
Power	AC22VA/DC14W	
Protection class	IP65	
Insulation class	F class	
Valve body material	Aluminum	
Seal material	NBR, FKM	

SB162

Compact design, multi-use for water, air or oil.



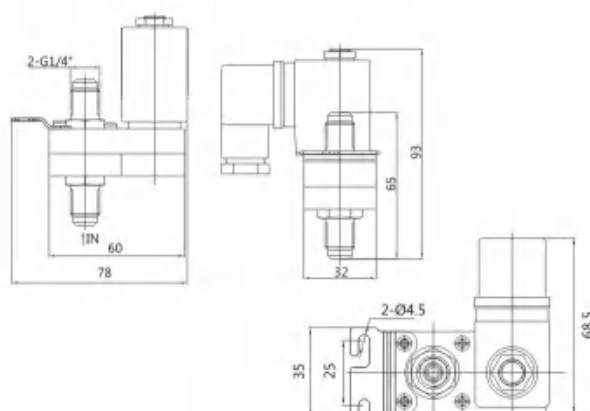
Model	SB162
Media	Compressed air/ Water / Oil
Working type	Direct action 2/2
Pattern	Normally close
Orifice	Φ2.5mm
Connection ports	G1/4"
Working pressure	0-0.8MPa
Working temp.	-10°C ~ 40°C
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC6VA/DC6W
Protection class	IP65
Insulation class	F class
Valve body material	Brass
Seal material	NBR, FKM

SBKV-2L/SBKV-6L

Low pressure air valve, usually 2pcs manifold and 6pcs manifold for choice.

Model	SBKV-2L/SBKV-6L
Media	Clean Air
Working type	Direct action 2/2
Pattern	Normally close
Orifice	2.6mm
Connection ports	G1/8"
Working pressure	0-500mbar
Max. pressure	1.6MPa
Working temp.	-10℃~80℃
Rated voltage	AC24V/110V/220V DC12V/24V
Power	AC5.0VA DC2.8W
Protection class	IP65
Insulation class	F class
Valve body material	Aluminum
Seal material	NBR / Silicon

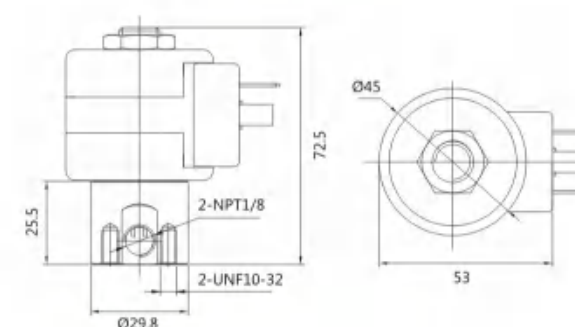
SB197 Stainless Steel Lever Valve



- 1、 Valve's On and Off is designed according to lever principle, High reliability, Wide range of working medium.
- 2、 The material of part which contact to working medium are VITON and SUS316, which can be widely used for Medical services, Food industry and so on.

Model	SB197
Working pattern	2/2 Normal close
Working pressure	0~0.4MPa
Orifice	4mm
Port Size	G1/2"
Body material	Stainless steel
Seal	FKM
Rated voltage	AC/DC24V~220V
Power	AC10.8VA DC14W

RV02352M-06B Latch freon valve



Used in collection machine of freon.

Model	RV02353M-06B
Media	Freon
Working type	2/2 Bistable
Pattern	Normally close
Orifice	2.4mm
Connection ports	NPT 1/8
Working pressure	0-3.5MPa
Rated voltage	DC6V~24V
Power	10.7W
Protection class	IP65
Insulation class	H class
Valve body material	Brass
Seal material	HNBR

SB125 Freon Solenoid Valve



1. Commonly used for control of freon in industrial refrigeration.
2. Screw type and welding type optional.
3. Good water-proof, heat-proof characteristic.
4. Various connection and voltages made to order of clients.

Model	Port Size	Orifice	Working pressure	Max. pressure	Rated voltage	Power
SB125-1020/2	1/4"	2.5mm	2.1MPa	3.0MPa	DC24V AC24V~380V	8W
SB125-1020/3	3/8"	3.0mm				
SB125-1028/3	3/8"	3.0mm				
SB125-1064/3	3/8"	7.0mm				
SB125-1064/4	1/2"	7.0mm				
SB125-1070/4	1/2"	12.5mm				
SB125-1070/5	5/8"	12.5mm				
SB125-1090/5	5/8"	16.5mm				
SB125-1070/6	3/4"	17.0mm				
SB125-1028/2	1/4"	2.2mm				
SB125-1068/2	3/8"	7.0mm				
SB125-1068/4	1/2"	7.0mm				
SB125-1078/4	1/2"	12.5mm				
SB125-1078/5	5/8"	12.5mm				
SB125-1078/6	3/4"	17.0mm				
SB125-1078/7	7/8"	16.5mm				
SB125-1078/9	1-1/8"	25.5mm				
SB125-1079/7	7/8"	12.5mm				
SB125-1099/9	1-1/8"	16.5mm				
SB125-1079/11	1-3/8"	25.5mm				
SB125-1079/13	1-5/8"	27.0mm				

» Warning

1. Our products are for industry use, pls. ask experienced person to use it.
2. Pls. use it according to the datas.
3. About safety management, pls. refer to relative industry standards and regulations.
4. Before you ensure the safety, pls. don't operate with the products:
 - a. Before you inspect and repair, pls. ensure it is safe.
 - b. Pls. pay attention even the product stops working, because some parts maybe electricity charged already, and maybe some parts are not fully cooled down.
 - c. Before you inspect and repair, pls. stop the supply of fluid, turn off the power, exhaust the fluid.
 - d. Before you restart the product, pls. ensure the system is safe and in case, there is failure of the product, there is precautions to avoid whole system out of control.

» Notes for ordering

1. We will carry one year repair-free guarantee from the day goods be delivered.
2. The following problems not included above repair-free guarantee :
 - a. Use the products in the condition which is not according to data.
 - b. The problem cause is not product itself.
 - c. Not use the product according to user manual.
 - d. Modify the products by user himself.
 - e. Unexpected technical problem unmentioned when ordering.
 - f. Problem caused by unforeseen natural disasters.
3. Confirmation of applicability :
The user Have the obligation to confirm the product is suitable for the application before using it.

» Solenoid Valve's Installation Remarks and Notes in use

1. Installation notice

- A. Check the model and parameter which print on the label, they must conform to actual technical requirements.
- B. Check solenoid coil, electromagnet and connetcor to make sure no damages.
- C. Clean the pipeline. The working medium of solenoid valve should be clean.
You should install filtering devices on the pipeline if the medium contains particle of impurities.
- D. Connect the valve port with pipeline according to the direction arrowhead indicates (same to the direction of medium flows), and make sure the connection seals good.
- E. The best installation method is perpendicular to pipeline and keep solenoid coil upward. The maximal inclination angle shoule be $\leq 30^\circ$, otherwise the normal operation cannot be promised.
- F. When the solenoid valve is installed outdoors, the protective cover is necessary to make sure the performance and longer service life.

2. Attentions

- A. Don't cover the solenoid coil when it is electrified that to avoid burnout because of overheating.
- B. Don't touch the solenoid coil during its working since the temperature is high because of heating itself.
- C. Don't hit and knock the solenoid coil, plug, electromagnet and connetcor to avoid damage.
- D. The actual voltage cannot over regulated voltage.
- E. The working pressure, temperature and viscosity of media cannot over regulated range.
- F. Solenoid valve's inner part and filtering devices should keep clean.
- G. Normal type solenoid valve cannot be used in any explosive occasion.
- H. When the solenoid valve is not used, put it in a room that has temperature range 0°C to 40°C , relative humidity $\leq 80\%$ and has no corrosive gases.

3. Guarantee

- A. We will carry one year repair-free guarantee from the day goods be delivered.
- B. The following situation are not included in repair-free guarantee:
 - 1) The valve is not working normally or even damaged because the medium contains particle of impurities and the filtering devices is not installed.
 - 2) The service voltage is not conform to rated voltage that results in solenoid coil burn out or short circuit.
 - 3) The valve is not working normally or even damaged because of human destruction or incorrect use.
 - 4) The valve is not working normally or even damaged because the storage is in the open or inappropriate