



2014

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## Standard Cylinders

Standard cylinder is composed of Front & End Cover, Barrel, Piston, Piston Rod and Seal Rings, which is most regular pneumatic cylinder. XCPC manufactured standard cylinder for over 20 years, it became to be the leader in this filed in China. The bore range is from 32mm to 320mm. Our standard cylinder include: DNC ( ISO6431,VDMA24562,) DNG(ISO15552 ) ,SI(ISO6431), SC/SU, MB(Japanese Standard), we can also produce specialized cylinder according to customer's requirement.





### DNC Series ISO6431 Standard Cylinder

### DNC Series ISO6431 Standard Cylinder



DNC-50×100

MDNC-50×100

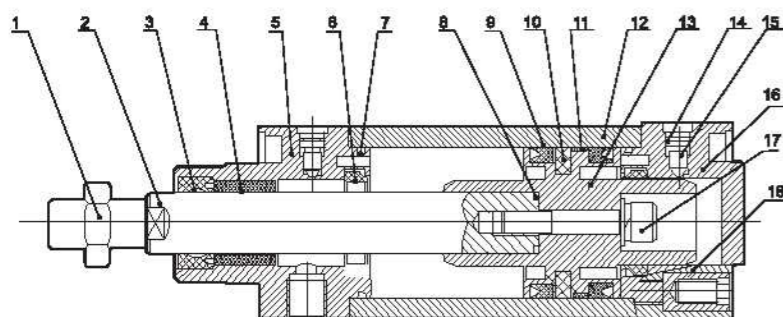
TDNC-50×100

#### Ordering Code

— **DNC** — **63** × **50** — **25** — **S** —

<b>Tube Type</b> Blank: Square Type T: Tie-rod Type M: Mickey Mouse Type	<b>Series Code</b> DNC: ISO6431 Standard Double Action Type DNCD: ISO6431 Standard Two Axis Double Action Type DNCJ: ISO6431 Two Axis Stroke Adjust Type	<b>Cylinder Bore</b> 32mm-125mm	<b>Stroke</b> 25: 25mm 50: 50mm 75: 75mm	<b>Magnet Code</b> Blank: Without Magnet S: With Magnet	<b>Fixed Type</b> Blank: Normal type LB: Front and back fixed type FA: Front cover fixed type (Front flange type) FB: Back cover fixed type (Back flange type) CA: Back cover fixed type (Single Earring) CB: Back cover fixed type (Double Earring) SDB: Back cover fixed type
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#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	2	Piston Rod
3	Front Cover Seal Ring	4	Bearing
5	Front Cover	6	Buffering O-Ring
7	O-Ring	8	Piston rod O-Ring
9	Piston O-Ring	10	Magnet (Optional)
11	Wear Ring	12	Barrel
13	Piston	14	Cushion Seal
15	Cushion Needle	16	Back Over
17	Hex Socket Screw	18	Profile Bolt

#### Specification

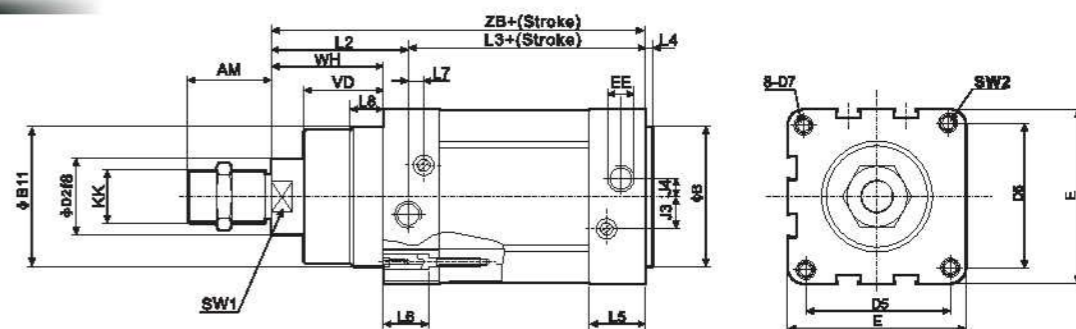
Bore(mm)	32	40	50	63	80	100	125
Motion Pattern	Filtered Air						
Working Medium	Double Action						
Compression Pressure	1.5MPa						
Max. Operating Pressure	1.0MPa						
Min. Operating Pressure	0.1MPa						
Buffer	Air Buffer (Standard)						
Condition Temperature	-5~70°C						
Operating Speed	50~800mm/s						
Port Size	G1/8"	G1/4"	G3/8"	G1/2"			

#### Stroke

Bore	Standard Stroke	Buffer Stroke	Stroke Range
32			
40		20	
50	25 40 50 80		10~2000
63	100 125 160	22	
80	200 250 320	32	
100	400 500	35	
125			

#### Overall Dimensions

#### Normal Type DNC-S

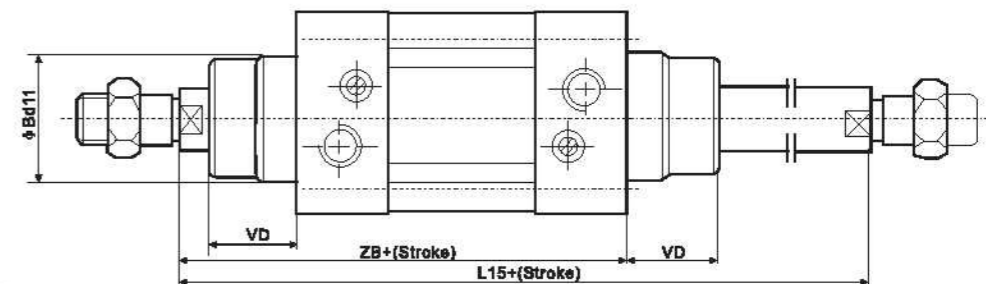


#### Dimension Sheet

Bore	AM	B	D2	D5	D7	E	EE(G)	J3	J4	KK	L2	L3	L4	L5	L6	L7	L8	SW1	SW2	VD	WH
32	22	30	12	32.5	M6	45	1/8	6	5.2	M10×1.25	41.6	82.8	4	26	16	3.3	10	10	6	12	26
40	24	35	16	38	M6	54	1/4	8	8	M12×1.25	44	77	4	29.8	16	3.6	10.5	13	6	20	30
50	32	40	20	48.5	M8	84	1/4	10	8.5	M16×1.5	51	78	4	30	17	5.1	11.5	17	8	27	37
63	32	45	20	56.5	M8	75	3/8	12.4	10	M16×1.5	54	87	4	35.6	17	6.6	15	17	8	27	37
80	40	45	25	72	M10	93	3/8	12.5	8	M20×1.5	62.4	95.2	4	35.9	17	10.5	15.7	22	10	34.7	46
100	40	55	25	89	M10	110	1/2	11.8	10	M20×1.5	69.8	100.4	4	39	17	8	19.2	22	10	38	51
125	54	60	32	110	M12	134	1/2	13	8	M27×2	83	124	6	44.7	22	14	20.5	28	12	46	65

#### Overall Dimensions

#### Double Piston Rod Type DNC-D-S



#### Dimension Sheet

Bore	32	40	50	63	80	100
B	30	35	40	45	45	55
L15	46	165	180	195	220	240
VD	16	20	27	27	34.7	38.2
ZB	120	135	143	158	174	189

### DNCB Series Booster Cylinder



DNCB-50×25×50

#### Specification

Motion Pattern	Filtered Air
Compression Pressure	1.5MPa
Max. Operating Pressure	1.0MPa
Min. Operating Pressure	0.1MPa
Condition Temperature	-5~70°C

#### Product Instruction

Booster cylinder combine 2 or more ISO15552 standard cylinder with the same bore and stroke. Create twice or multiple force as standard cylinder. The connection of 2 or more cylinders are linked with the same material Compact structure and easy for installation.



### DNG Series ISO15552 Standard Cylinder



DNG-200×100-S



DNG-250×200-S



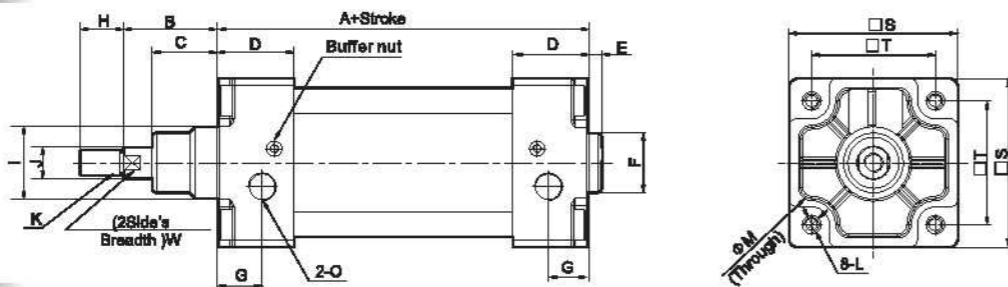
#### Ordering Code

<b>DNG</b>	—	<b>160</b> ×	<b>100</b> —	<b>25</b> —	<b>S</b> —	<b>□</b>
<b>Series Code</b> DNG:ISO15552 Standard Double Action Type DNGD:ISO15552 Standard Two Axis Double Action Type DNGJ:ISO15552 Two Axis Stroke Adjust Type		<b>Cylinder Bore</b> 160mm-320mm	<b>Stroke</b>	<b>Adjust Stroke</b> 25:25mm 50:50mm 75:75mm	<b>Magnet Code</b> Blank:Without Magnet S:With Magnet	<b>Fixed Type</b> Blank:Normal type LB:Front and back fixed type FA:Front cover fixed type(Front flange type) FB:Back cover fixed type(Back flange type) CA:Back cover fixed type (Single Earring) CB:Back cover fixed type(Double Earring)

#### Specification

Bore(mm)	160	200	250	320
Motion Pattern	Double Action			
Working Medium	Air			
Fixed Type	Normal type FA type FB type CA type CB type LB type TC type			
Working Pressure Range	0.1-1.0MPa			
Ensured Pressure Resistance	1.5MPa			
Operating Temperature Range	-5-60°C			
Operating Speed Range	50-500mm/s			
Buffer Type	Adjustable Buffer			
Port Size	G3/4"		G1"	
Lubrication	Not required (Use Turbine oil/ISO Vg32 when necessary)			

#### Overall Dimensions



#### Dimension Sheet

Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
160	180	80	80	50	8	φ65	25	72	φ65	40	M36×2	M16	φ25φ30	180	140	G3/4"
200	180	95	70	50	8	φ75	25	72	φ75	40	M36×2	M16	φ25φ30	220	175	G3/4"
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	φ30	270	220	G1"
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	φ34	340	270	G1"



### SI Series ISO6431 Standard Cylinder



SI-50×100

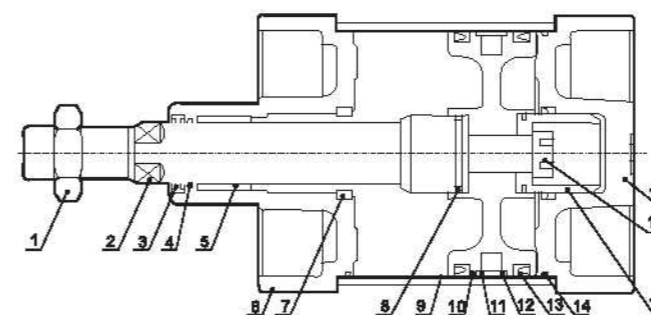


SIJ-50×100-25

#### Ordering Code

<b>SI</b>	—	<b>50</b> ×	<b>50</b> —	<b>25</b> —	<b>S</b> —	<b>□</b>
<b>Series Code</b> SI:ISO6431 Standard Double Action Type SID:ISO6431 Standard Two Axis Double Action Type SIJ:ISO6431 Two Axis Stroke Adjust Type		<b>Cylinder Bore</b> 32mm-200mm	<b>Stroke</b>	<b>Adjust Stroke</b> 25:25mm 50:50mm 75:75mm	<b>Magnet Code</b> Blank:Without Magnet S:With Magnet	<b>Fixed Type</b> Blank:Normal type LB:front and back fixed type FA:front cover fixed type(Front flange type) FB:back cover fixed type(Back flange type) CA:back cover fixed type (Single Earring) CB:back cover fixed type(Double Earring) TC:Central Trunnion Type TC-M:Central Trunnion type attaching foot seat

#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	10	Piston
2	Piston rod	11	Wearing
3	Front cover seal ring	12	Magnet(Optional)
4	O-Ring	13	Piston O-Ring
5	Bearing	14	Pipe wall O-Ring
6	Front cover	15	Damping
7	Buffering O-Ring	16	Hex socket screw
8	Piston rod O-Ring	17	Back cover
9	Barrel		

#### Specification

Bore(mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Normal type FA type FB type CA type CB type LB type TC type								
Working Pressure Range	0.1-0.9MPa								
Ensured Pressure Resistance	1.35MPa								
Operating Temperature Range	-5-70°C								
Operating Speed Range	50-800mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke					24			32	
Port Size	G1/8"		G1/4"		G3/8"		G1/2"		G3/4"



### SI Series ISO6431 Standard Cylinder

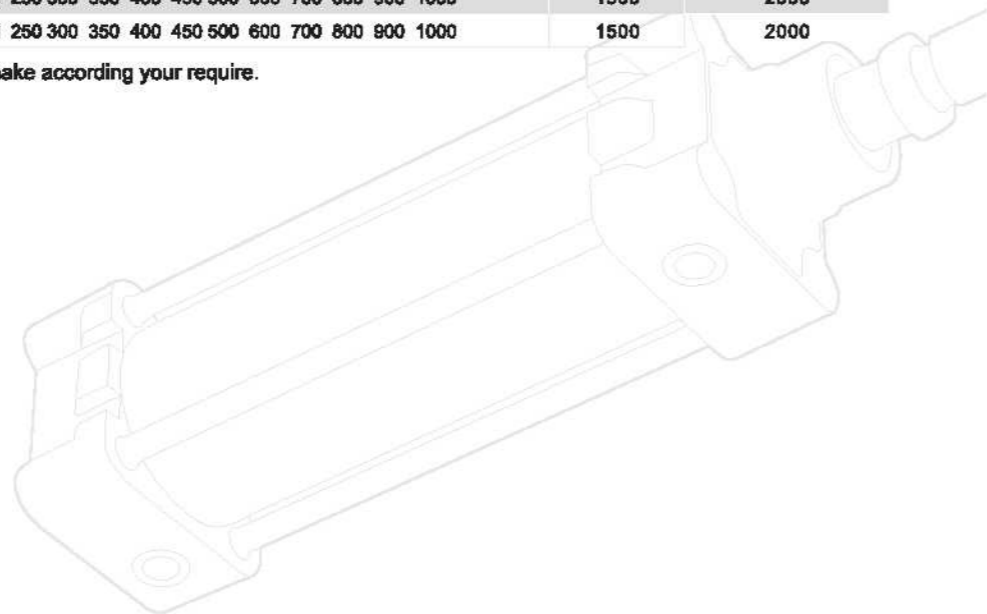
#### Cylinder theory output

Cylinder inside Diameter	Extern Diameter of Piston Rod	Potion Pattern	Compression Area(cm <sup>2</sup> )	Air Pressure(kgf/cm <sup>2</sup> )									
				1	2	3	4	5	6	7	8	9	
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	6.90	6.90	13.80	20.77	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	131.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

#### Stroke

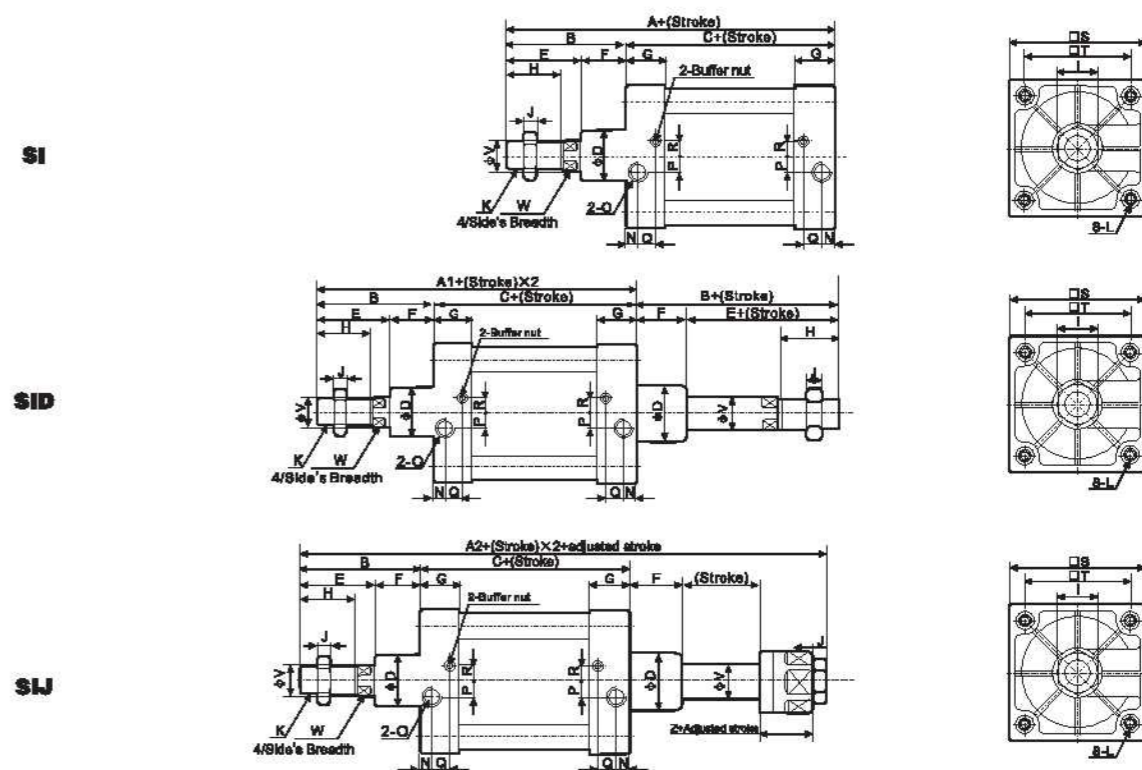
Bore(mm)	Standard Stroke	Max.Stroke	Permissible Stroke
32	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	1000	2000
40	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800	1200	2000
50	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
125	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
160	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

■ If you need special stroke, please Tell us, we can make according your require.



### SI Series ISO6431 Standard Cylinder

#### Overall Dimensions



#### Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	142	180	187	48	94	30	28	16	27.5	22	17	6	M10×1.25	M6
40	159	213	207	54	105	35	32	18	29	24	19	7	M12×1.25	M6
50	175	244	233	69	105	40	42	25	30	32	24	8	M16×1.5	M8
63	190	259	250	69	120	40	40	24	31.5	32	24	8	M16×1.5	M8
80	214	300	286	86	128	40	53	30	35.5	40	30	10	M20×1.5	M10
100	229	320	308	91	138	45	55	32	36	40	30	10	M20×1.5	M10
125	279	398	372.5	119	160	60	74	45	48	54	41	13.5	M27×2	M12
160	332	484	448	152	180	65	94	58	50	72	55	18	M36×2	M16
200	337	514	472	157	180	75	100	57	50	72	55	18	M36×2	M16

Bore/Symbol	N	O	P	Q	R	S	T	V	W	Z
32	13.5	G1/8"	4	7.5	7	47	32.5	12	10	21
40	16	G1/4"	6	8.5	9	53	38	16	13	21
50	15.5	G1/4"	8.5	7.5	7.5	65	46.5	20	17	23
63	16.5	G3/8"	7.5	8.5	9	75	56.5	20	17	23
80	16.5	G3/8"	11	8.5	13.5	95	72	25	22	29
100	18.5	G1/2"	13.5	8.5	14.5	115	89	25	22	29
125	23	G1/2"	14	12	14	140	110	32	27	35
160	25	G3/4"	15	12	20	180	140	40	36	40
200	25	G3/4"	15	12	20	220	175	40	36	40



### SC/SU Series Standard Cylinder



SC-50×100

SU-50×100

SCJ-50×100-25

#### Ordering Code

**SC** — **50** × **50** — **25** — **S** — □

**Series Code**  
 SC: Standard double action (Tie-rod Type)  
 SCD: Double-shaft double action (Tie-rod Type)  
 SCJ: Double shaft double acting adjustable type (Tie-rod Type)  
 SU: Standard double acting (Micky Mouse Type)

**Cylinder Bore**  
 32mm-200mm

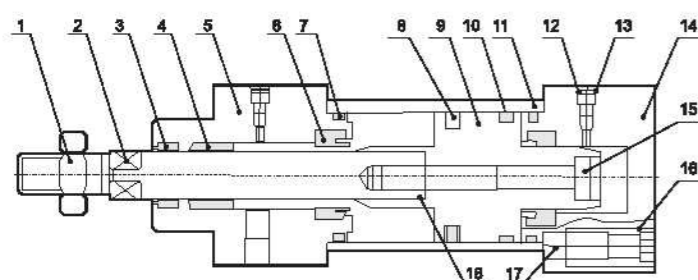
**Stroke**  
 25: 25mm  
 50: 50mm  
 75: 75mm

**Adjust Stroke**  
 25: 25mm  
 50: 50mm  
 75: 75mm

**Magnet Code**  
 Blank: Without Magnet  
 S: With Magnet

**Fixed Type**  
 Blank: Normal type  
 LB: front and back fixed type  
 FA: front cover fixed type (Front flange type)  
 FB: back cover fixed type (Back flange type)  
 CA: back cover fixed type (Single Earring)  
 CB: back cover fixed type (Double Earring)  
 TC: Central Trunnion Type  
 TC-M: Central Trunnion Type attaching foot seat

#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	10	Wear Ring
2	Piston rod	11	Barrel
3	Front cover seal ring	12	Buffering Barrel o-ring
4	Bearing	13	Damping adjustable screw
5	Front cover	14	Back cover
6	Buffering o-ring	15	Hex socket screw
7	Pipe wall o-ring	16	Tie Rod Nut
8	Piston o-ring	17	Tie rod
9	Piston	18	Piston rod o-ring

#### Specification

Bore(mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Basic type FA type FB type CA type CB type LB type TC type TC-M type								
Operating Voltage Range	0.1~0.9kgf/cm <sup>2</sup>								
Ensured Pressure Resistance	1.35Mpa								
Operating Temperature Range	-5~70°C								
Operating Speed Range	300~800mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24				32				
Port Size	G1/8"	G1/4"	G3/8"		G1/2"		G3/4"		

■SCD, SCJ Fixed Type: FA, FB, LB, TC & TC-M Type.



### SC/SU Series Standard Cylinder

#### Cylinder theory output

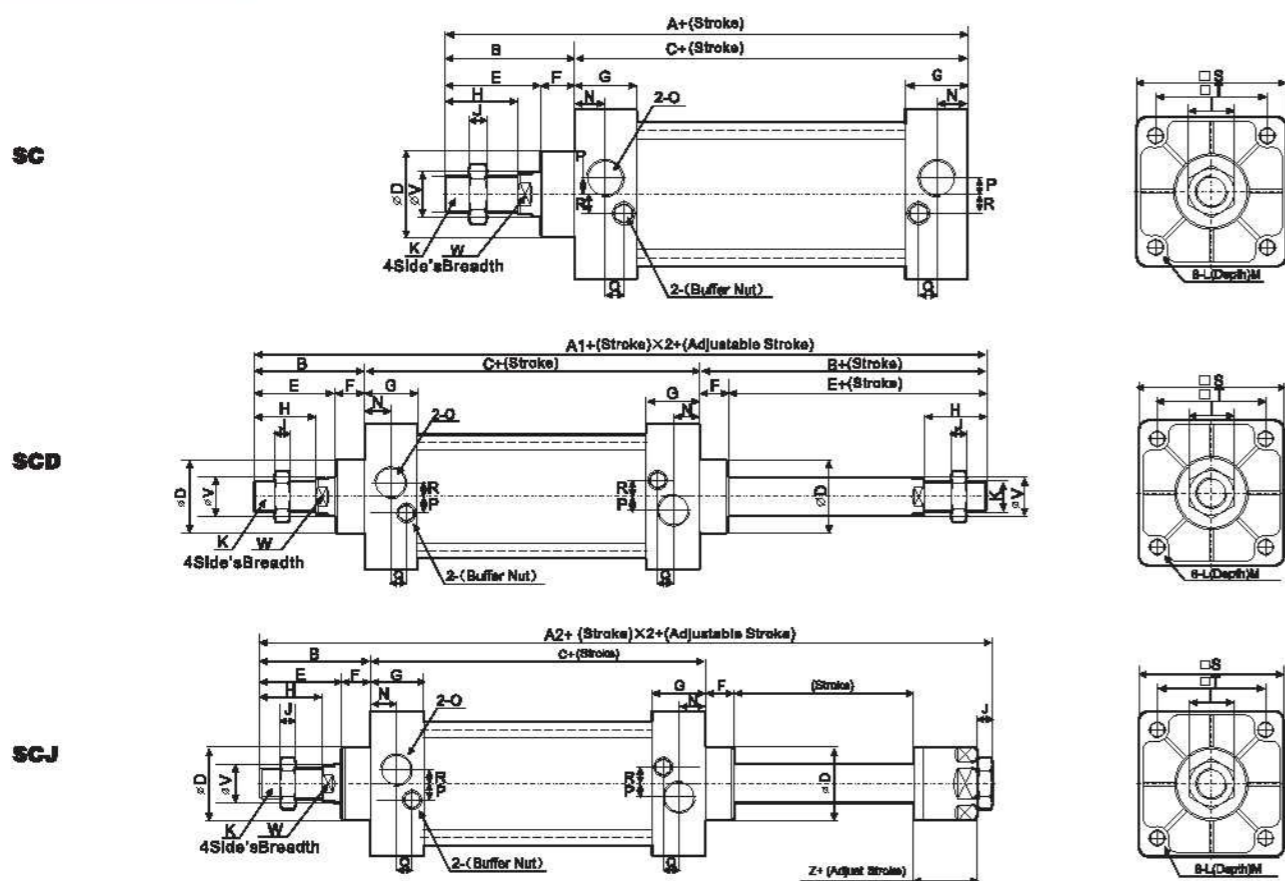
Cylinder inside Diameter	External Diameter of Piston Rod	Motion Pattern	Compression Area(cm <sup>2</sup> )	Air Pressure(kgf/cm <sup>2</sup> )									
				1	2	3	4	5	6	7	8	9	
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	8.90	8.90	13.80	20.07	27.90	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	131.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.08	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	362.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	549.71	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	571.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

#### Stroke

Bore(mm)	Standard Stroke														Max. Stroke	Permissible Stroke				
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	1000	2000			
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800		
50	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
63	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
80	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
100	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
125	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
160	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	600	700	800	900	1000

### SC/SU Series Standard Cylinder

#### Overall Dimensions



#### Dimension Sheet

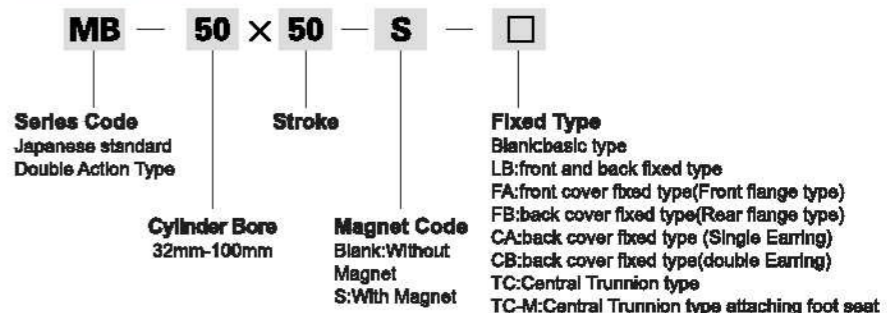
Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	8	M10×1.25
40	142	191	185	49	93	32	34	15	27.5	24	17	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	23	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	23	8	M16×1.5
80	182	257	242	75	107	47	54	21	33	40	26	10	M20×1.5
100	188	283	248	75	108	47	54	21	33	40	28	10	M20×1.5
125	239	330	363	104	136	56	71	32	40	54	36	9	M27×2
160	291	412	450	121	162	62	92	80	50	72	50	16	M36×2
200	272	409	451	132	140	75	117	30	41	72	50	18	M36×2

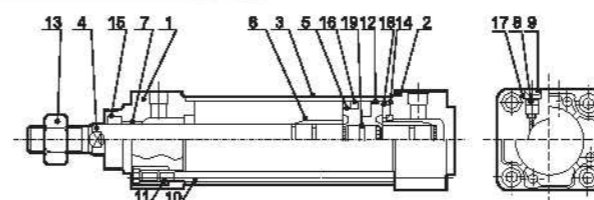
Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M8×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	8.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	45	42	42

### MB Series Standard Cylinder(Japanese standard)

#### Ordering Code



#### Internal structure



NO	Designation	NO	Designation	NO	Designation
1	Front cover	6	Buffer ring	11	Tie rod nut
2	Back Cover	7	Bearing	12	Wear ring
3	Barrel	8	Cushion Screw	13	Piston rod nut
4	Piston rod	9	Cushion Seal	17	Buffer seal ring
5	Piston	10	Tie rod	19	Piston O-ring

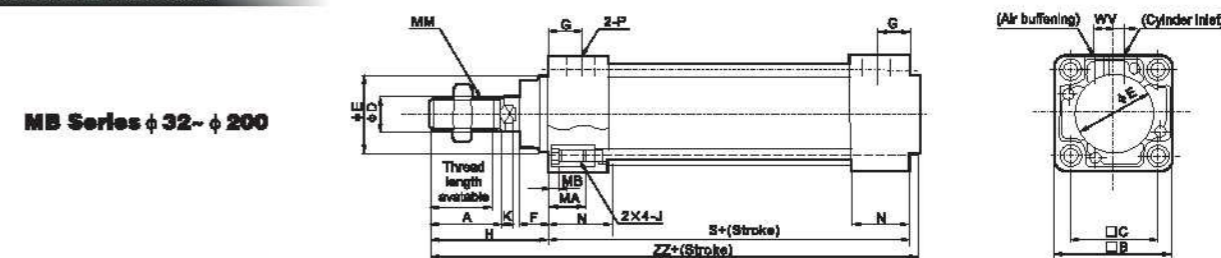
#### Specification

Cylinder diameter	32	40	50	63	80	100
Working Medium	Air					
Action type	Double acting					
Proof pressure	15.3kg/cm <sup>2</sup> (1.5Mpa)					
Max.pressure	10.2kg/cm <sup>2</sup> (1.0Mpa)					
Min.pressure	0.5kg/cm <sup>2</sup> (0.05Mpa)					
Environment and fluid temp	-10~+60°C					
Piston velocity	50~1000mm/s					
Buffering	Air buffering					
Stroke tolerance	~0~250 <sup>±0.1</sup> , 251~1000 <sup>±0.15</sup> , 1001~1500 <sup>±0.2</sup>					
Rc(PT)Joint size	G1/8"	G1/4"	G3/8"	G1/2"		

#### Stroke

Bore(mm)	Standard stroke
32	25,50,75,100,125,150,175,200,250,300,350,400,450,500
40	25,50,75,100,125,150,175,200,250,300,350,400,450,500
50	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
63	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600
80	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,750
100	25,50,75,100,125,150,175,200,250,300,350,400,450,500,600,700,750

#### Overall Dimensions



#### Dimension Sheet

Diameter	Stroke range	Thread length available	A	□B	□C	φD	φE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6×1.0	6	M10×1.25	27	1/8	84	4	8.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6×1.0	6	M14×1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8×1.25	7	M18×1.5	31.5	1/4	84	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	16.5	16	5	M8×1.25	7	M18×1.5	31.5	3/8	94	9	12	58	156
80	~750	37	40	95	72	25	45	20	19	18	5	M10×1.5	10	M22×1.5	38	3/8	114	11.5	14	72	190
100	~750	37	40	114	89	30	55	20	19	18	5	M10×1.5	10	M26×1.5	38	1/2	114	17	15	72	190





**CA1 Series Standard Cylinder**



CA1B 40×100

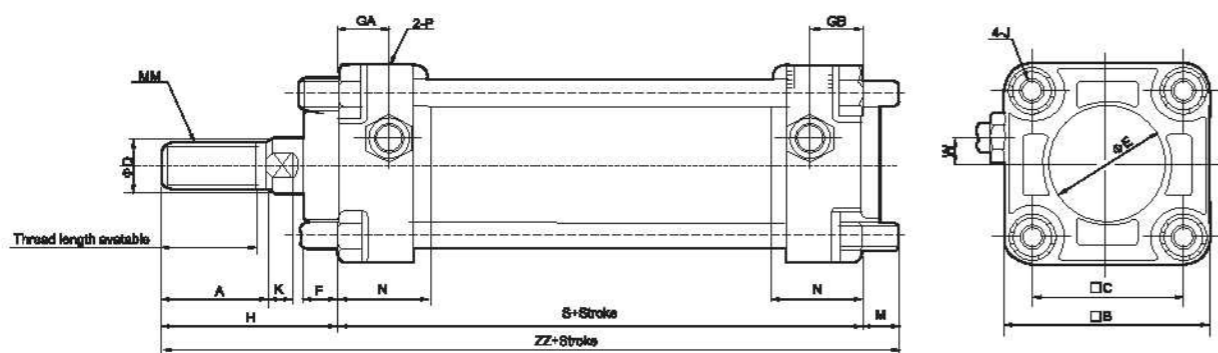
**Ordering Code**

**CA1**                      **40**                      **100**  
 Serie Code                      Cylinder Bore                      Stroke  
 CA1B:Normal Type                      40mm-100mm  
 CDA1B:Attach Magnet Type

**Specification**

Bore(mm)	40	50	63	80	100
Working Medium	Air				
Motion Pattern	Double action Type				
Ensured Pressure Resistance	15.3kgf/cm <sup>2</sup> (1.5Mpa)				
Max.pressure	10.2kgf/cm <sup>2</sup> (1.0Mpa)				
Min.pressure	0.5kgf/cm <sup>2</sup> (0.05Mpa)				
Operating Temperature Range °C	5~+80°C				
Operating Speed Range	50~500mm/s				
Buffering	Air buffering				
Margin of Stroke Error(mm)	-0~250 <sup>±0.1</sup> 251~1000 <sup>±0.2</sup> 1001~1500 <sup>±0.3</sup>				
Port size	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"

**Overall Dimensions**



**Dimension Sheet**

Diameter	Stroke range	Thread length available	A	□B	□C	φD	φE	F	GA	GB	J	K	M	MM	N	P	S	W	H	ZZ
40	~500	27	30	60	44	16	32	10	15	15	M8×1.25	6	11	M14×1.5	27	1/4	84	8	51	146
50	~600	32	35	70	52	20	40	10	17	17	M8×1.25	7	11	M18×1.5	30	3/8	90	0	58	159
63	~800	32	35	85	64	20	40	10	17	17	M10×1.25	7	14	M18×1.5	31	3/8	98	0	58	170
80	~750	37	40	102	78	25	52	14	21	21	M12×1.75	11	17	M22×1.5	37	1/2	116	0	71	204
100	~750	37	40	116	92	30	52	14	21	21	M12×1.75	11	17	M26×1.5	40	1/2	126	0	72	215



**Mini/Compact Cylinders**

Mini/Compact cylinder can save the mounting space maximally, they are widely used on the compact and well-designed machines, the demand is growing fast in the world, Mini cylinder include: MA6432(ISO6432), MA, CM2, CJ2(Stainless Steel), MAL(Aluminum), the bore range is from 8mm to 40mm, Compact cylinder include: ADVU(ISO standard)CQ2(Japanese Standard) and SDA. the bore range is from 10 mm to 100mm.



### MA6432 Series Stainless Steel Mini Cylinder(ISO6432)



MA6432 10×50



MA6432 25×50

#### Ordering Code

**MA6432** —  — **20** × **50** — **25** — **S** —

**Type**  
 MA: Double Action Type  
 MSA: Single-Extrusion Type  
 MAD: Double-shaft Double Action Type  
 MAJ: Double-shaft and adjustable stroke type  
 MAC: With Cushion Type

**Back Cover Type**  
 Blank: Flange type  
 CM: Rounded type  
 U: Horizontal type

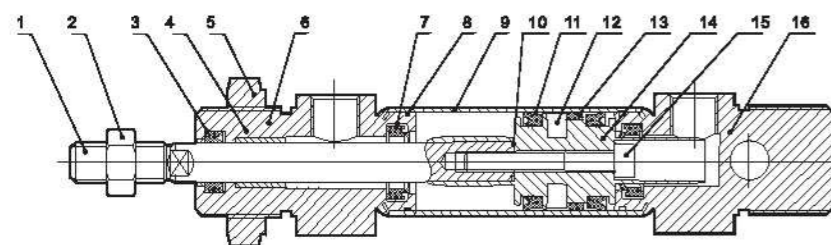
**Cylinder Bore**  
 8mm-25mm

**Stroke**  
 Adjustable Stroke Type  
 0-100mm

**Magnet Code**  
 Blank: Without Magnet  
 S: With Magnet

**Fixed Type**  
 Blank: Normal type  
 LB: Front and back fixed type  
 FA: Front cover fixed type  
 SDB: Back cover swinging type  
 U: Back cover fixed type

#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod	9	Barrel
2	Piston Rod Nut	10	Piston rod O-ring
3	Front Cover Seal	11	Piston O-ring
4	Bearing	12	Magnet(Optional)
5	Hexagon Screw	13	Wear Ring
6	Front Cover	14	Piston
7	Cushion Ring	15	Hex Socket Screw
8	O-ring	16	Back Cover

#### Specification

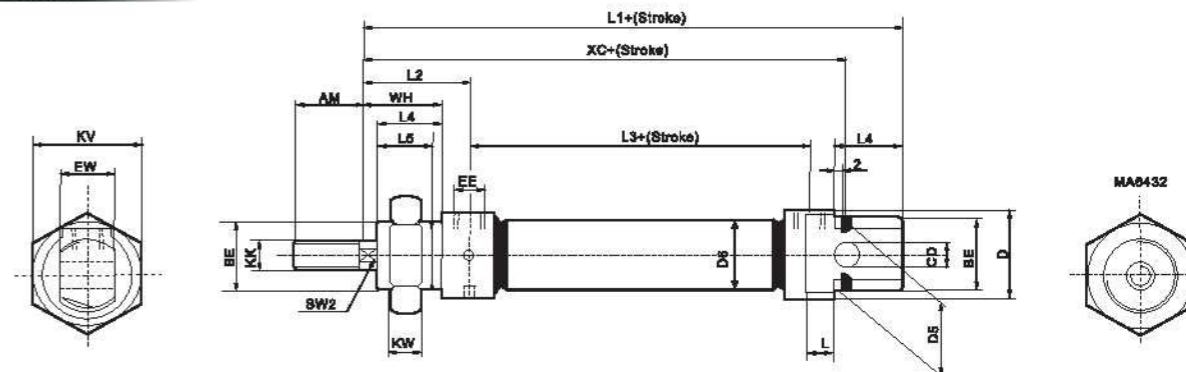
Cylinder diameter	8	10	12	16	20	25
Fluid	Air					
Motion pattern	Double Action or single Action					
Ensured Pressure Resistance	15.3kg/cm <sup>2</sup> (1.5Mpa)					
Max.pressure	10.2kg/cm <sup>2</sup> (1.0Mpa)					
Min.pressure	0.5kg/cm <sup>2</sup> (0.05Mpa) 1kg/cm <sup>2</sup> (0.1Mpa)					
Environment and fluid temp	-10→80℃(Internal Magnetic Install by Tach strap:Type Max:60℃)					
Piston velocity	Rubber Buffer(Standard), Air Buffer(Optional)					
Buffering	50-750mm/s					
Kinetic energy To Larence(kgf/cm)	0.2	0.3	0.4	0.9	2.7	4
Pipe Size	M5×0.8			G1/8"		

#### Stroke

Bore(mm)	Standard stroke	Max.Stroke(mm)
8	10,25,40,50,80,100,125,160,200	400
10	10,25,40,50,80,100,125,160,200	400
12	10,25,40,50,80,100,125,160,200	400
16	10,25,40,50,80,100,125,160,200	400
20	25,40,50,80,100,125,150,160,175,200,250,300	1000
25	25,40,50,80,100,125,150,160,175,200,250,300	1000

### MA6432 Series Stainless Steel Mini Cylinder(ISO 6432)

#### Overall Dimensions



#### Dimension Sheet

Bore/Symbol	AM	BE	ΦCD	ΦD	ΦD5	ΦD6	EE	EW	AM	KK	KV	KW	L	L1	L2	L3	L4	L5	SW2	WH	XC
8	12	M12×1.25	4	15	15	12	M5	8	12	M4	19	6	6	78	22	34	12	10	-	16	64
10	12	M16×1.25	4	15	15	12	M5	8	12	M4	19	6	6	78	22	34	12	10	-	16	64
12	16	M16×1.5	6	20	20	16	M5	12	16	M6	24	8	9	89	28	38	17	15	5	22	75
16	16	M16×1.5	6	20	20	16	M5	12	16	M6	24	8	9	95	28	44	17	15	5	22	82
20	20	M22×1.5	8	27	27	22	G1/8"	16	20	M8	32	11	12	112	32	51.6	20	18	7	24	95
25	22	M22×1.5	8	27	27	22	G1/8"	16	22	M10×1.25	32	11	12	120	36	53.1	22	20	9	26	104

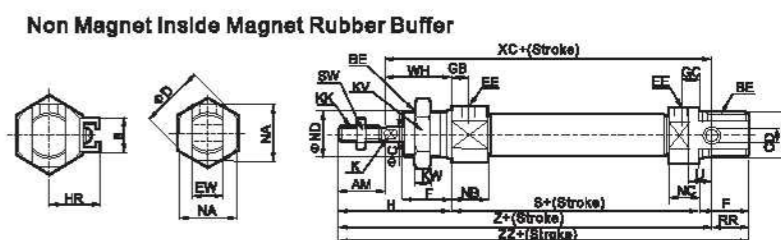
### MA6432-N Series Stainless Steel Mini Cylinder (ISO6432)

#### MA6432-N25×150



MA6432-N40x150

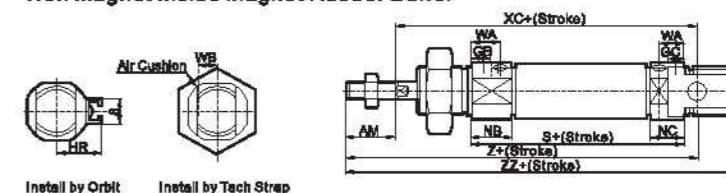
#### Overall Dimensions



#### Dimension Sheet

Bore	AM	BE	ΦC	ΦCD	ΦD	EE	EW	F
φ8	12	M12×1.25	4	4	17	M5×0.8	8	12
φ10	12	M16×1.25	4	4	17	M5×0.8	8	12
φ12	16	M16×1.5	6	6	20	M5×0.8	12	17
φ16	16	M16×1.5	6	6	20	M5×0.8	12	17
φ20	20	M22×1.5	8	8	28	G1/8"	16	20
φ25	22	M22×1.5	10	8	33.5	G1/8"	16	22

#### Non Magnet Inside Magnet Rubber Buffer



Bore	GB	GC	WA	WB	H	HR	K	KK	KV	KW	NB	NC	NA	ΦND	RR	S	SW	U	WH	XC	Z	ZZ
φ8	7	5	-	-	28	10	-	M4×0.7	18	8	11.5	9.5	15	12	10	46	7	6	16	64	76	86
φ10	7(5.5)	7(5.5)	10.5	4.5	28	10.5	-	M4×0.7	18	8	11.5(13.5)	9.5(13.5)	15	12	10	46(53)	7	8	16	64(71)	76(83)	86(93)
φ12	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×4	24	8	12.5(12.5)	10.5(12.5)	18	16	14	50(54)	10	9	22	75(79)	91(95)	105(109)
φ16	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×0.8	24	8	12.5	10.5(12.5)	18	16	13	56	10	9	22	82	98	111
φ20	8	8	17	8.5	44	17	6	M8×1.25	32	11	15	15	24	22	11	62	13	12	24	95	95	126
φ25	8	8	20	10	50	20	8	M10×1.25	32	11	15	15	30	22	11	65	17	12	28	104	126	137

Our company can also provide SMC ISO6432 standard stainless steel mini cylinder, if you need this, pls add -N after normal ordering code.



### MA Series Stainless Steel Mini Cylinder



#### Ordering Code

**MA** —  — **20** × **50** — **25** — **S** —

**Type**  
 MA: Double Action Type  
 MSA: Single Extrusion Type  
 MAD: Double Shaft Double Action Type  
 MACD: Double Shaft Double Action Damping Type  
 MAJ: Double-shaft And Adjust Able Stroke Type  
 MAC: With Cushion Type

**Back Cover Type**  
 Blank: Fishtail type  
 CM: Rounded type  
 U: Horizontal type

**Cylinder Bore**  
 16mm~40mm

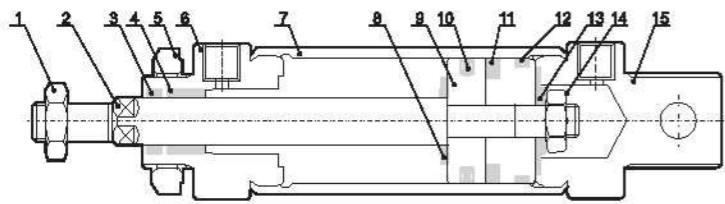
**Stroke**  
 0~100mm

**Adjustable Stroke Type**  
 0~100mm

**Magnet Code**  
 Blank: Without Magnet  
 S: With Magnet

**Fixed Type**  
 Blank: Normal type  
 LB: Front and back fixed type  
 FA: Front cover fixed type  
 SDB: Back cover swinging type  
 U: Back cover fixed type

#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	2	Piston Rod
3	Front Cover Seal Ring	4	Oiled Bearing
5	Front Cover Nut	6	Front Cover
7	Stainless steel tube	8	Anti-crash cushion
9	Piston	10	Piston O-Ring
11	Magnet(Optional)	12	Wear ring
13	Back cushion	14	Hex socket screw
15	Back Cover		

#### Specification

Bore(mm)	16	20	25	32	40
Motion pattern	Double Action or Single Action				
Working Medium	Air				
Fixed Type	Normal Type LB Type FA Type SDB Type U Type				
Operating Voltage Range	0.1~0.9MPa				
Ensured Pressure Resistance	1.35MPa				
Operating Temperature Range	-5~70°C				
Operating Speed Range	50~800mm/s				
Buffer Type	Standard Type Anti-crash cushion Damping Type Adjustable cushion				
Pipe Size	M5×0.8	G1/8"	G1/8"	G1/8"	G1/8"

Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

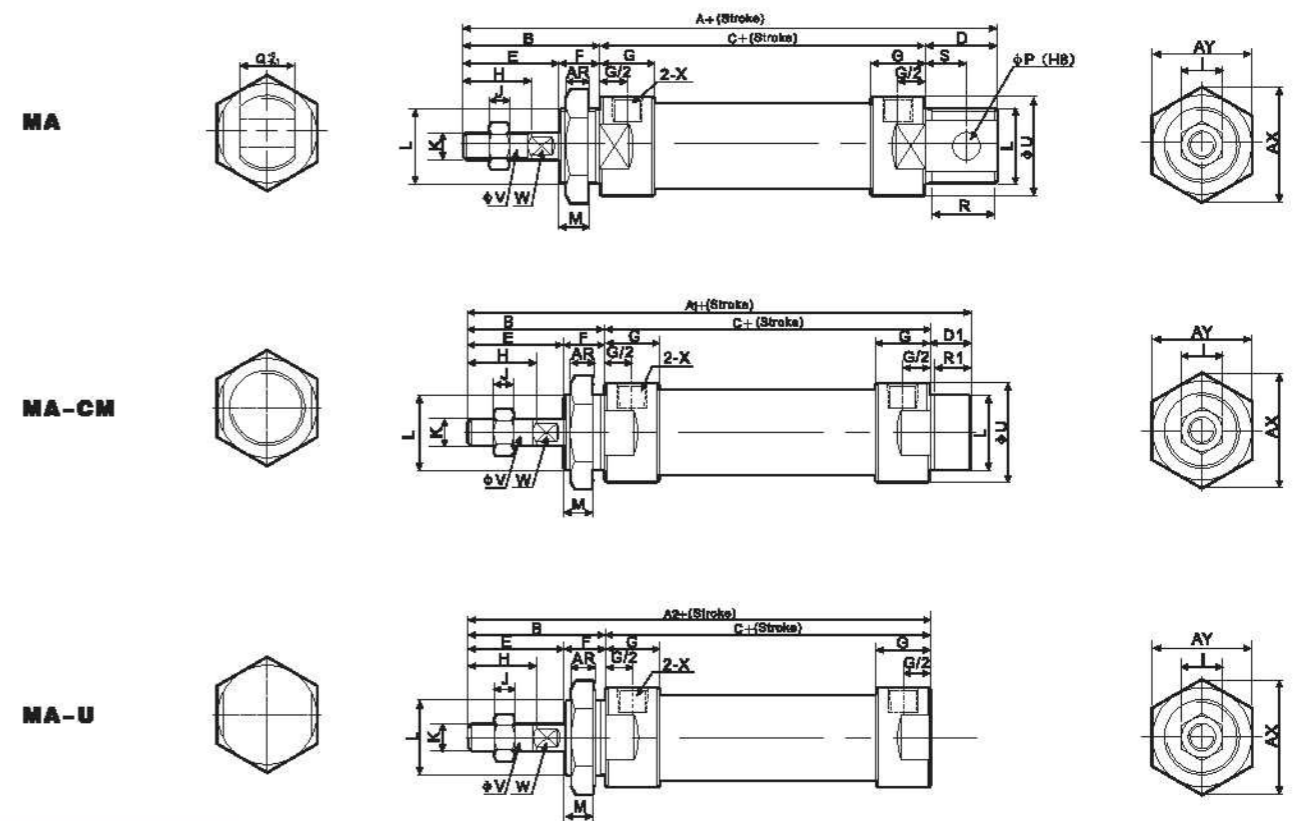
#### Stroke

Bore(mm)	Standard Stroke														Max.Stroke	Permissible Stroke
16	25	50	75	80	100	125	160	175	200	300	500					
20	25	50	75	80	100	125	160	175	200	250	300	500	650			
25	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	



### MA Series Stainless Steel Mini Cylinder

#### Overall Dimensions



#### Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	16	22	16	10	16	10	5	M6×1
20	137	128	118	40	76	21	12	28	12	18	20	12	6	M8×1.25
25	141	134	120	44	78	21	14	30	14	18	22	17	6	M10×1.25
32	147	134	120	44	76	27	14	30	14	18	22	17	6	M10×1.25
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12×1.25

Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	21	8	5	M5	6	24	27.5
20	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	41.6	18	14	G1/8"	9	47	41

### MAL6432 Series Aluminum alloy mini cylinder(ISO6432)



#### Specification

Motion Pattern	Double Action or Single Action
Operating Voltage Range	0.1~0.9MPa
Ensured Pressure Resistance	1.35MPa
Operating Temperature Range	-5~70°C
Operating Speed Range	30~800mm/s

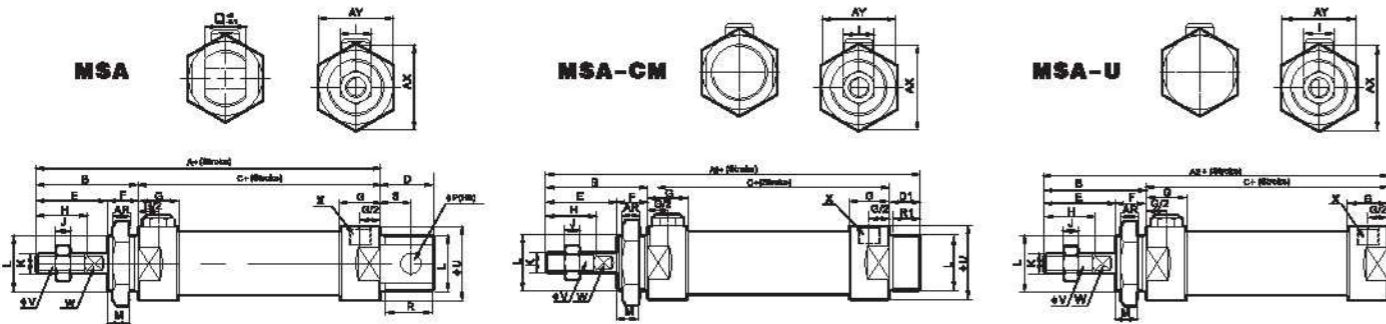
#### Product Instruction

Our company can also provide MAL series ISO6432 standard aluminum alloy mini cylinder, if you need this, pls change ordering code MAL into MAL6432.



### MA Series Stainless Steel Mini Cylinder

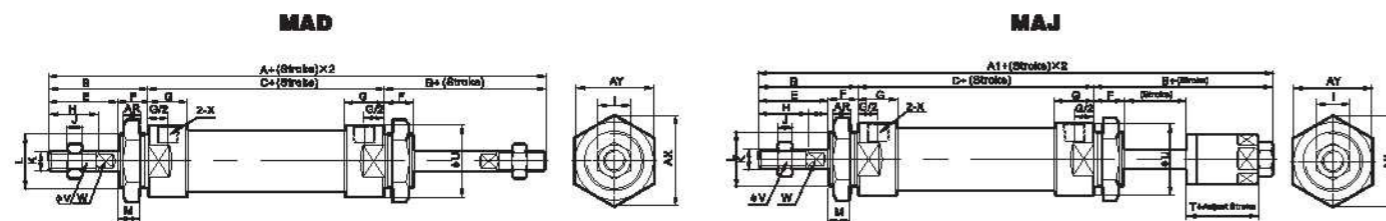
#### Overall Dimensions



#### Dimension Sheet

Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
Bore/Stroke	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
16	114	139	128	153	98	123	38	60	85	16	16	22	16	10	16	10	5
20	137	162	134	159	116	141	40	78	101	21	12	28	12	18	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	136	161	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	122	144	122	147	46	76	101	27	14	32	14	22	24	17	7
Inside Diameter/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY		
16	M6×1	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22		
20	M8×1.25	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29		
25	M10×1.25	M22×1.5	12	8	18	19	12	12	30	10	8	G1/8"	7	33	29		
32	M10×1.25	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32		
40	M12×1.25	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41		

#### Overall Dimensions



#### Dimension Sheet

Inside Diameter/Symbol	A	A1	B	C	E	F	G	H	I	J	K
	16	136	135	38	60	22	16	10	16	10	5
20	156	153	40	70	28	12	16	20	12	6	M8×1.25
25	164	161	44	70	30	14	16	22	17	6	M10×1.25
32	164	161	44	70	30	14	16	22	17	6	M10×1.25
40	168	164	46	92	32	14	22	14	17	7	M12×1.25
Inside Diameter/Symbol	L	M	U	V	W	X	AR	AX	AY	T	
16	M16×1.5	14	21	6	5	M5	6	25	22	16	
20	M22×1.5	10	29	9	6	G1/8"	7	33	29	19	
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21	
32	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21	
40	M30×2.0	12	49.5	16	12	G1/8"	9	47	41	21	



### MAL Series Aluminum alloy Mini Cylinder



MAL 25×50

MALJ 25×50-25

#### Ordering Code

**MAL** —  — **20** × **50** — **25** — **S** —

**Type**  
 MAL: Double Action type  
 MALC: With cushion type  
 MSAL: Single Extrusion Type  
 MALD: Dual Double Action Type  
 MALCD: Dual Shaft Action Damping Type  
 MALJ: Double-shaft And Adjust Able Stroke Type  
 MALC: With Cushion Type

**Back Cover Type**  
 Blank: Flat type  
 CM: Rounded type  
 U: Horizontal type

**Cylinder Bore**  
 16mm-40mm

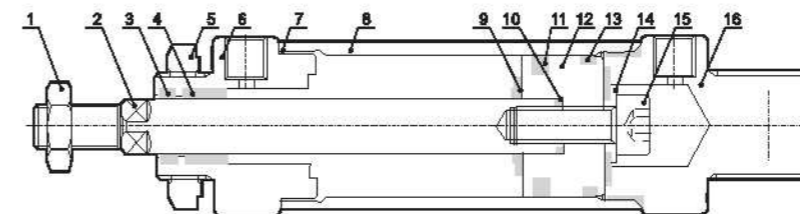
**Stroke**  
 0-100mm

**Adjustable Stroke Type**  
 0-100mm

**Magnet Code**  
 Blank: Without Magnet  
 S: With Magnet

**Fixed Type**  
 Blank: Normal type  
 LB: Front and back fixed type  
 FA: Front cover fixed type  
 SDB: Back cover swinging type

#### Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	2	Piston Rod
3	Front Cover Seal Ring	4	Oiled Bearing
5	Front Cover Nut	6	Front Cover
7	Pipe wall O-ring	8	Aluminum tube
9	Anti-crash cushion	10	Piston rod O-Ring
11	Piston O-Ring	12	Piston
13	Wear ring	14	Back cushion
15	Hex socket screw	16	Back Cover

#### Specification

Bore(mm)	16	20	25	32	40
Motion pattern	Double Action or Single Action				
Working Medium	Air				
Fixed Type	Normal Type LB Type FA Type SDB Type				
Operating Voltage Range	0.1-0.9MPa				
Ensured Pressure Resistance	1.35MPa				
Operating Temperature Range	-5-70°C				
Operating Speed Range	30-800mm/s				
Buffer Type	Standard Type Anti-crash cushion				
	Damping Type Adjustable cushion				
Port Size	M5×0.8	G1/8"	G1/8"	G1/8"	G1/4"

Our Company can also make flat for cylinder covers Inlet and outlet position. If you require this, it should be specified.

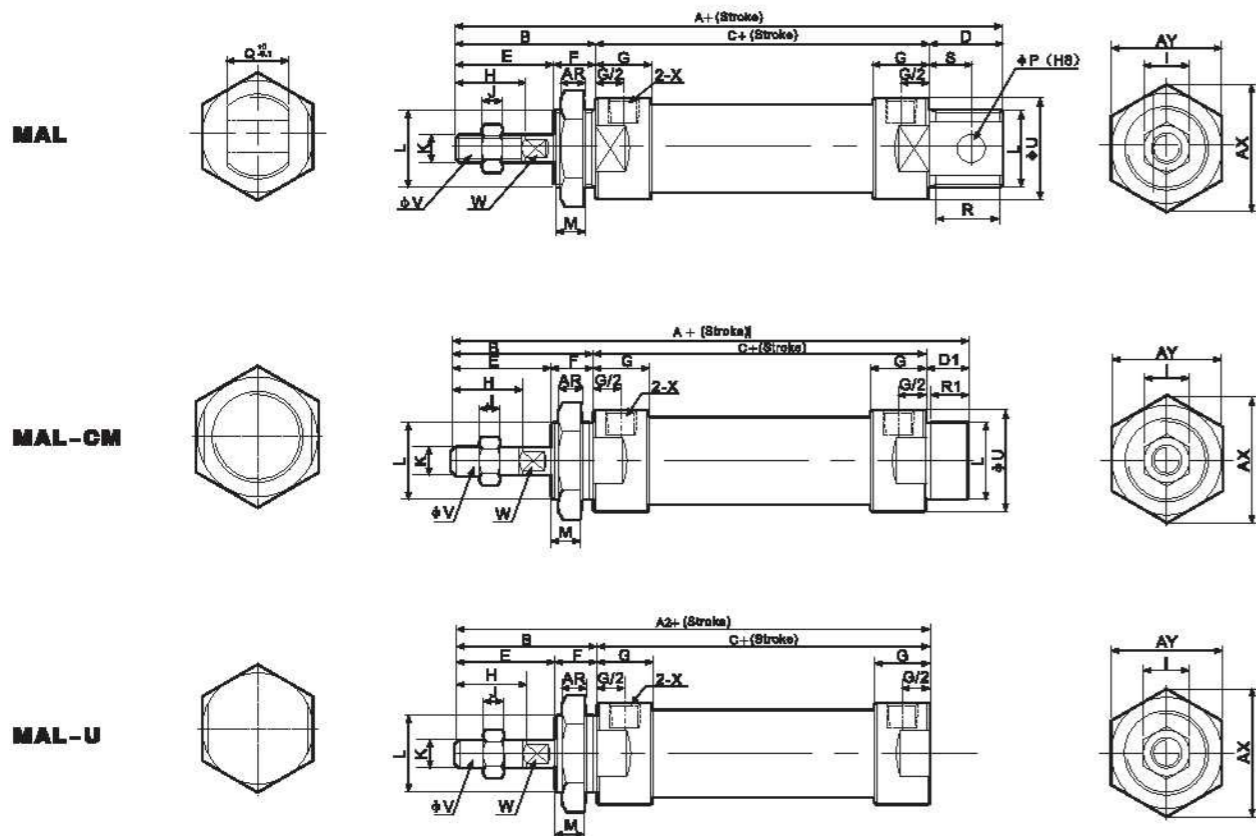


### MAL Series Aluminum alloy Mini Cylinder

#### Stroke

Bore(mm)	Standard Stroke															Max.Stroke	Permissible Stroke
16	25	50	75	80	100	125	160	175	200							300	500
20	25	50	75	80	100	125	160	175	200	250	300					500	650
25	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650

#### Overall Dimensions



#### Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	16	22	16	10	18	10	5	M8×1
20	131	122	110	40	70	21	12	28	16	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	16	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	16	16	22	17	6	M10×1.25
40	165	152	138	45	92	27	14	32	22	22	24	17	7	M12×1.25

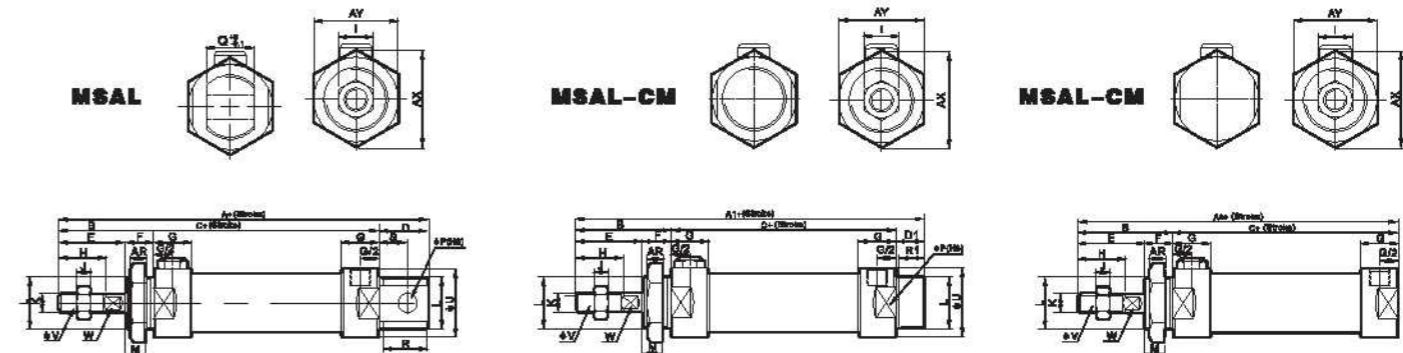
  

Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	1	8	16	18	12	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	49.5	18	14	G1/4"	9	37	41



### MAL Series Aluminum alloy Mini Cylinder

#### Overall Dimensions



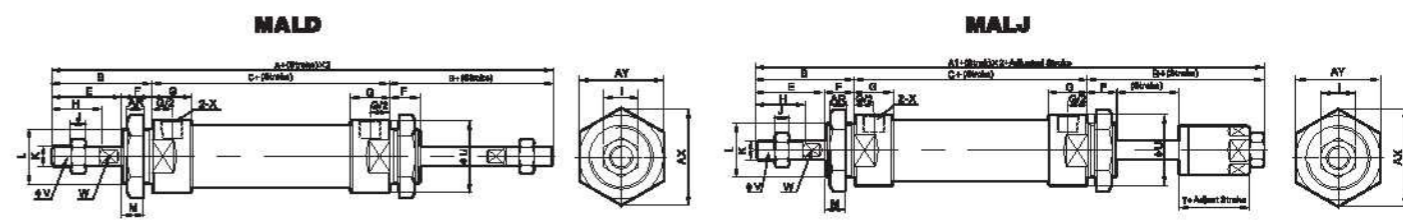
#### Dimension Sheet

Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	160	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	166	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	190	177	138	163	46	92	117	27	14	32	14	22	24	17	7

Inside Diameter/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/4"	9	47	41

#### Overall Dimensions



#### Dimension Sheet

Inside Diameter/Symbol	A	A1	B	C	E	F	G	H	I	I	K
20	150	147	40	70	28	12	16	20	12	6	M8×1.25
25	158	155	44	70	30	14	16	22	17	6	M10×1.25
32	158	155	44	70	30	14	16	22	17	6	M10×1.25
40	164	180	46	82	32	14	22	24	17	7	M12×1.25

Inside Diameter/Symbol	L	M	U	V	W	X	AR	AX	AY	T
20	M22×1.5	10	29	8	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	49.5	16	14	G1/4"	9	47	41	21

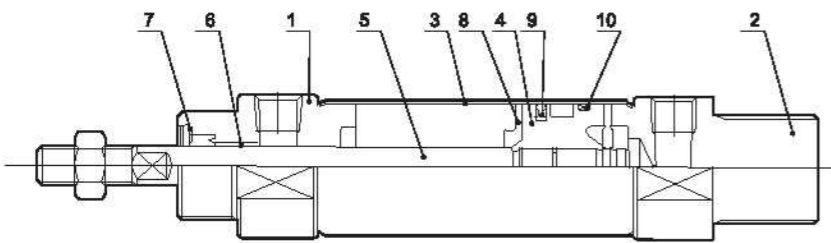


### CM2 Series Stainless Steel mini Cylinder



**Ordering Code**  
**CM2** — **32** — **150** — **A**  
**Series Code**  
 CM2B: Normal Type  
 CDM2B: Attach magnet Type  
**Cylinder Bore**  
 20mm-40mm  
**Stroke**  
 0-1000mm  
**Buffer**  
 Blank: Rubber Buffer  
 A: Air Buffer

#### Internal structure

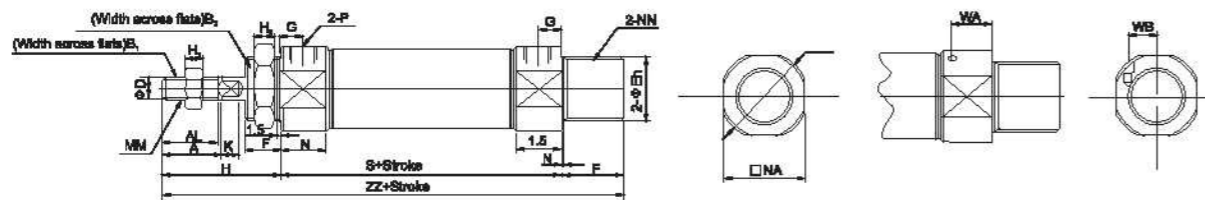


NO.	Designation
1	Front Cover
2	Back Cover
3	Barrel
4	Piston
5	Piston rod
6	Oiled Bearing
7	Front Cover Seal Ring
8	Anti-crash cushion
9	Piston Seal
10	Wear Ring

#### Specification

Bore(mm)	20	25	32	40
Working Medium	Air			
Motion Pattern	Double action			
Ensured Pressure Resistance	15.3kgf/cm <sup>2</sup> (1.5Mpa)			
Max.pressure	10.2kgf/cm <sup>2</sup> (1.0Mpa)			
Min.pressure	0.5kgf/cm <sup>2</sup> (0.05Mpa)			
Operating Temperature Range	-10~+70°C			
Operating Speed Range	50~750mm/s			
Buffering	Rubber buffer(Standard), Air buffer(Optional)			
Margin of Stroke Error(mm)	+1.4 0mm			
Port size	G1/8"	G1/8"	G1/8"	G1/4"

#### Overall Dimensions



#### Dimension Sheet

Diameter	Stroke range	A	AL	B1	B2	D	E	F	G	H	H1	H2	I	K	MM	N	NA	NN	P	S	ZZ	WA	WB
20	~300	18	15.5	13	26	8	20 <sub>0.033</sub>	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	1/8	62	116	11.5	8.5
25	~300	22	19.5	17	32	10	26 <sub>0.033</sub>	13	8	45	6	8	33.5	5.5	M10×1.25	15	30	M26×1.5	1/8	62	120	11.5	10
32	~300	22	19.5	17	32	12	26 <sub>0.033</sub>	13	8	45	8	8	37.5	5.5	M10×1.25	15	34.5	M28×1.5	1/8	84	122	11.5	11.5
40	~300	24	21	22	41	14	32 <sub>0.033</sub>	16	11	50	6	10	46.5	7	M14×1.5	21.5	42.5	M32×2	1/4	88	154	14	15



### CJ2 Series Stainless Steel Type Cylinder



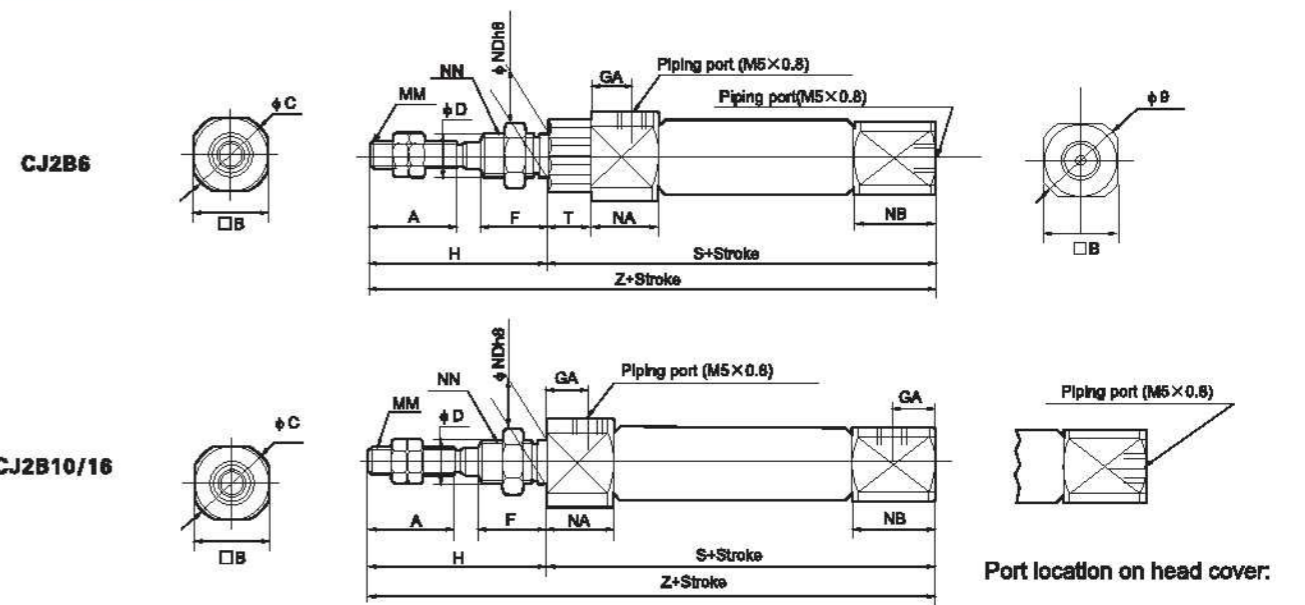
**Ordering Code**  
**CJ2** — **10** — **60** — **S** —   
**Series Code**  
 CJ2B: Normal Type  
 CDJ2B: Attach magnet Type  
**Cylinder Bore**  
 6mm-16mm  
**Stroke**  
 0-200mm  
**Action**  
 S: single action (with spring return)  
 T: single action (with spring extant)  
**The type of air hole on the head cover end**  

Mark	Bore	φ6	φ10	φ16
Blank	-	Vertical		
R		Horizontal		

#### Specification

Bore(mm)	6	10	16
Working Medium	Air		
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-In Type		
Ensured Pressure Resistance	1.05Mpa(10.5kgf/cm <sup>2</sup> )		
Max.pressure	0.7Mpa(7.1kgf/cm <sup>2</sup> )		
Min.pressure	0.25Mpa(2.5kgf/cm <sup>2</sup> )	0.15Mpa(1.5kgf/cm <sup>2</sup> )	
Operating Temperature Range	-10~+70°C		
Operating Speed Range	50~750mm/s		
Buffering	Both side Rubber buffer(Standard)		
Margin of Stroke Error(mm)	+1.0 0 mm		
Port size	M5×0.8		

#### Overall Dimensions



#### Dimension Sheet

Bore(mm)	A	B	C	D	F	GA	GB	H	MM	NA	NB	NDh8	NN	S	T	Z
6	15	12	14	3	8	14.5	-	28	M3×0.5	16	7	6	M6×1.0	49	3	77
10	15	12	14	4	8	8	5	28	M4×0.7	12.5	9.5	8	M8×1.0	46	-	74
16	15	18	20	5	8	8	5	28	M5×0.8	12.5	9.5	10	M10×1.0	47	-	75





### SDA Series Thin Type(Compact) Cylinder

### SDA Series Thin Type(Compact) Cylinder



SDA 32×25



SDAJ 32×25-10

#### Ordering Code

**SDA** — **20** — **30** — **5** — **S** — **B**

**Type**  
 SDA: Double Action Type  
 SSA: Single Action Extrusion Type  
 STA: Single Action Drawing-in Type  
 SDAD: Double-half Double Action Type  
 SDAJ: Double-half and Adjustable Stroke Type

**Cylinder Bore**  
 12mm~100mm

**Stroke**  
 5mm  
 15mm  
 25mm

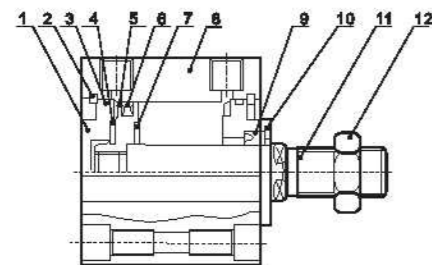
**Adjust Stroke**  
 5mm  
 15mm  
 25mm

**Magnet Code**  
 Blank: Without Magnet  
 S: Attach Magnet

**Cog Type**  
 Blank: Inner Thread  
 B: outer Thread  
 N: no Thread

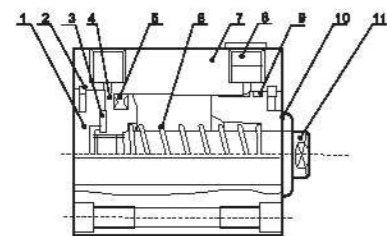
#### Internal structure

#### SDA Type



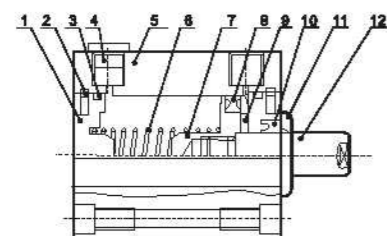
NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut

#### SSA Type



NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	Anti-crash cushion	4	Piston
5	Piston O-ring	6	Compressed spring
7	Barrel	8	Silencer
9	Cover O-ring	10	Front cover
11	Piston rod		

#### STA Type



NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	Cover O-ring	4	Silencer
5	Barrel	6	Compressed spring
7	Piston	8	Piston O-ring
9	Anti-crash cushion	10	Front cover sealring
11	Front cover	12	Piston rod

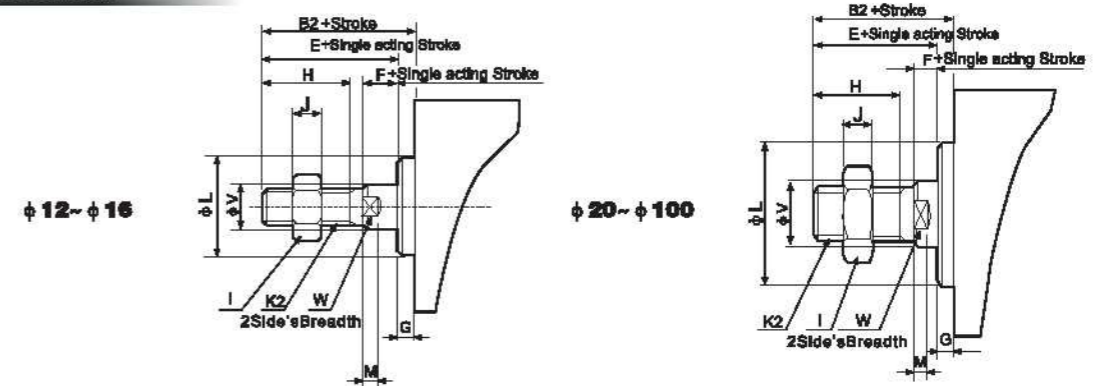
#### Specification

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Motion Pattern	Double Acting									
	Single Acting Extrusion type					Single Acting Drawing-in Type				
Working Medium	Air									
Operating Voltage Range	0.1~0.9MPa									
	Double Action					Single Action				
Ensured Pressure Resistance	1.35MPa									
Operating Temperature Range	-5~70°C									
Operating Speed Range	30~500mm/s									
	Double Action					Single Action				
Buffer Type	Fixed Type Buffer									
Port Size	M5×0.8					G1/8"		G1/4"		G3/8"

#### Stroke

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Double Action	Not attach magnet	5~60 mm Every 5mm	5~85 mm Every 5mm	5~90 mm Every 5mm	100~110 mm Every 5mm	5~90 mm Every 5mm	100~130 mm Every 5mm	is grouped as one grade		
	Attach magnet	5~50 mm Every 5mm	5~75 mm Every 5mm	5~90 mm Every 5mm	100mm	5~90 mm Every 5mm	100~120 mm Every 5mm	is grouped as one grade		
Single Action	Not attach magnet	5~30 mm Every 5mm is grouped as one grade				5~30 mm Every 5mm is grouped as one grade		-		
	Attach magnet	5~30 mm Every 5mm is grouped as one grade				5~30 mm Every 5mm is grouped as one grade		-		
Max.Stroke	60mm		100mm		120mm		130mm			

#### Outer Thread Dimension



Bore/Symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	8	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	15	12	6	M10×1.5	17	2.8	10	8
32	25	22	4	3	15	17	8	M14×1.5	22	2.8	12	10
40	35	32	4	3	25	19	8	M18×1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18×1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M22×1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22×1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26×1.5	55	4	32	27

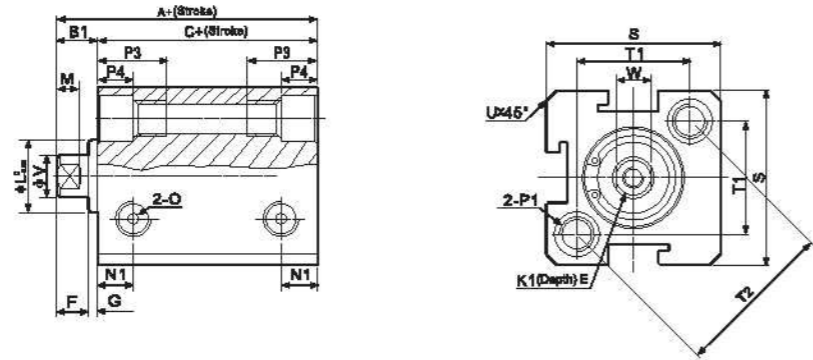




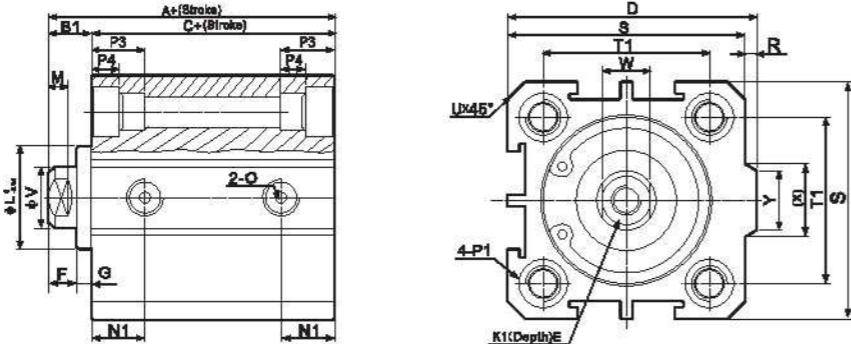
### SDA Series Thin Type(Compact) Cylinder

#### Overall Dimensions

SDA.SDAS Type  
φ12-φ16



SDA.SDAS Type  
φ20-φ100



#### Dimension Sheet

Type	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
	A	B1	C	A	B1	C		Stroke ≤10	Stroke >10						
12	22	5	17	32	5	27	-	8	4	1	M3×0.5	10.2	2.8	6.3	
16	24	5.5	18.5	34	5.5	28.5	-	8	4	1.5	M3×0.5	11	2.8	7.3	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4×0.7	15	2.8	7.5	
25	27	6	21	37	6	31	42	10	4	2	M5×0.8	17	2.8	8	
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6×1	22	2.8	9	
40	33	7	28	43	7	36	58.5	12	4	3	M8×1.25	28	2.8	10	
50	37	9	28	47	9	38	71.5	15	5	4	M10×1.5	38	2.8	10.5	
63	41	9	32	51	9	42	84.5	15	5	4	M10×1.5	40	2.8	11.8	
80	52	11	41	62	11	51	104	15	6	5	M14×1.5	45	4	14.5	
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	

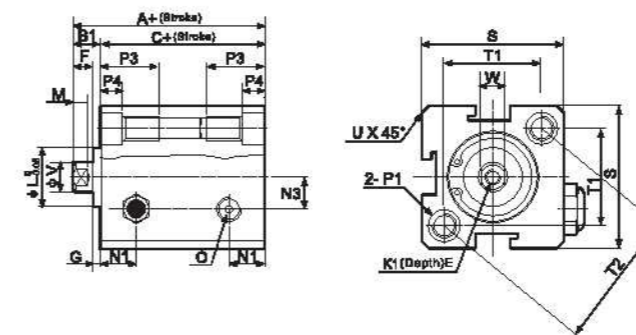
Bore Size/Symbol	N3	O	P1										
			P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
16	6.5	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
20	-	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
25	-	M5×0.8	Double Sides: φ8.2/Thread:M6×1.0/Through ports: φ4.6										
32	-	G1/8"	Double Sides: φ8.2/Thread:M6×1.0/Through ports: φ4.6										
40	-	G1/8"	Double Sides: φ10/Thread:M8×1.25/Through ports: φ6.5										
50	-	G1/4"	Double Sides: φ11/Thread:M8×1.25/Through ports: φ8.5										
63	-	G1/4"	Double Sides: φ11/Thread:M8×1.25/Through ports: φ8.5										
80	-	G3/8"	Double Sides: φ14/Thread:M12×1.75/Through ports: φ9.2										
100	-	G3/8"	Double Sides: φ17.5/Thread:M14×2/Through ports: φ11.3										



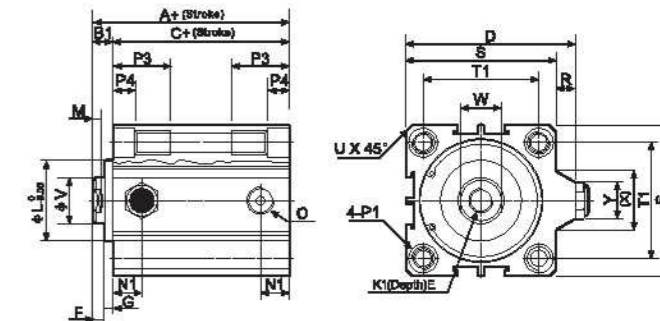
### SDA Series Thin Type(Compact) Cylinder

#### Overall Dimensions

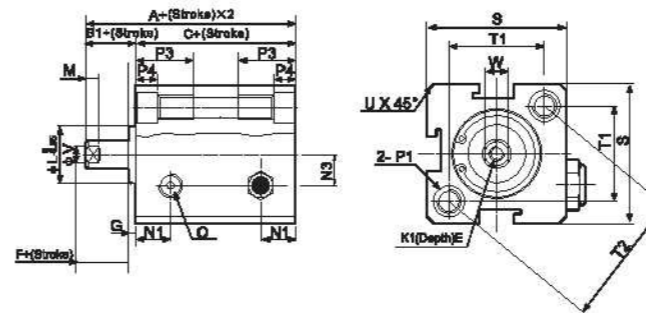
SSA.SSAS Type φ12-φ16



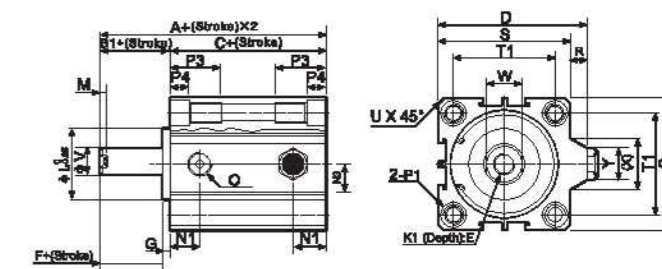
SSA.SSAS Type φ20-φ40



STA.STAS Type φ12-φ16



STA.STAS Type φ20-φ40



#### Dimension Sheet

Type	Standard Type			Attach magnet			D	E	F	G	K1	L	M	N1				
	A	B1	C	A	B1	C												
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	16	2.8	7.5
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6×1	22	2.8	9
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10

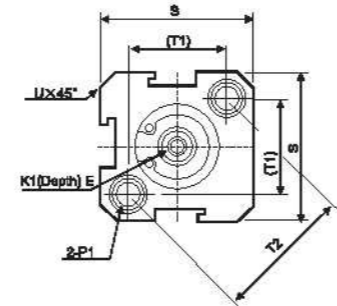
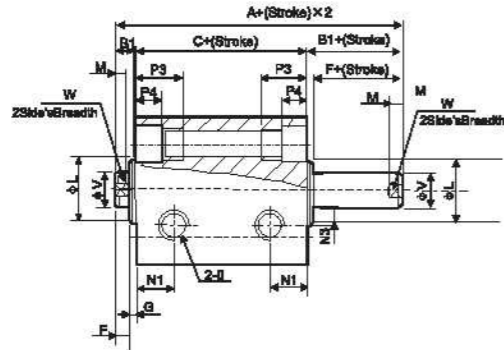
Bore Size/Symbol	N3	O	P1										
			P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
16	6.5	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
20	-	M5×0.8	Double Sides: φ6.5/Thread:M5×0.8/Through ports: φ4.2										
25	-	M5×0.8	Double Sides: φ8.2/Thread:M6×1.0/Through ports: φ4.8										
32	-	G1/8"	Double Sides: φ8.2/Thread:M6×1.0/Through ports: φ4.8										
40	-	G1/8"	Double Sides: φ10/Thread:M8×1.25/Through ports: φ6.5										



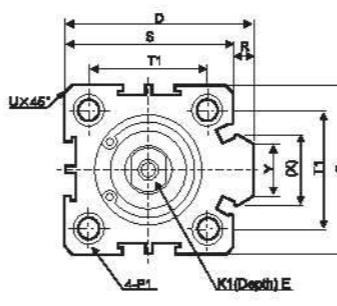
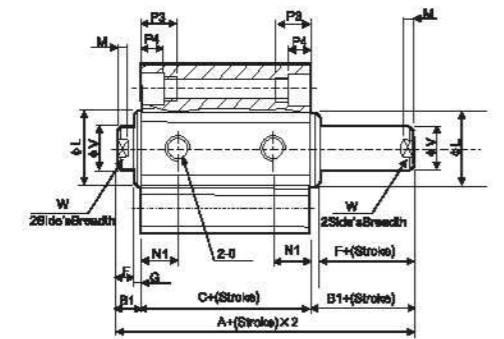
### SDA Series Thin Type(Compact) Cylinder

#### Overall Dimensions

**SDAD.SDADS Type**  
φ 12~ φ 16



**SDAD.SDADS Type**  
φ 20~ φ 100



#### Dimension Sheet

Type Bore Size/Symbol	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
	A	B1	C	A	B1	C		Stroke ≤ 10	Stroke > 10						
12	27	5	17	37	5	27	-	8	4	1	M3×0.5	10.2	2.8	6.3	
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(Stroke=5/tts6.5)	4	1.5	M4×0.7	16	2.8	7.5	
25	33	6	21	43	6	31	42	10(Stroke=5/tts7)	4	2	M5×0.8	17	2.8	8	
32	38.5	7	24.5	48.5	7	34.5	50	8	4	3	M6×1	22	2.8	9	
40	40	7	28	50	7	36	58.5	9	4	3	M8×1.25	28	2.8	10	
50	46	8	28	56	8	38	71.5	11	5	4	M10×1.5	38	2.8	10.5	
63	50	9	32	60	9	42	84.5	11	5	4	M10×1.5	40	2.8	11.8	
80	63	11	41	73	11	51	104	14	6	5	M14×1.5	45	4	14.5	
100	75	12	51	85	12	61	124	18	7	5	M18×1.5	55	4	20.5	

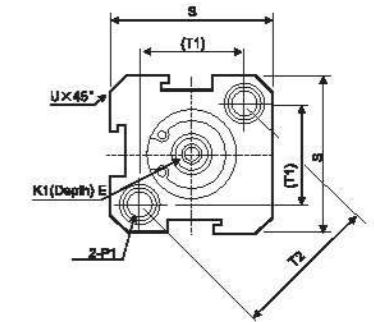
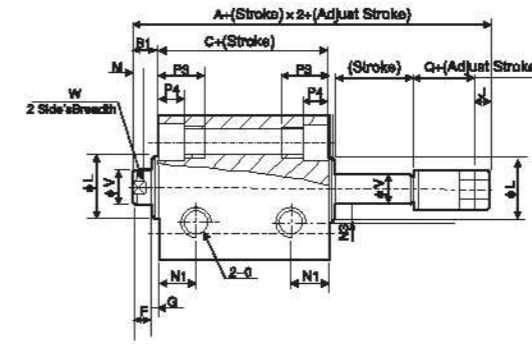
Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
16	6.5	M5×0.8	Double Sides: φ 6.5/Thread: M5×0.8/Through ports: φ 4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides: φ 6.5/Thread: M5×0.8/Through ports: φ 4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides: φ 8.2/Thread: M6×1.0/Through ports: φ 4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides: φ 8.2/Thread: M6×1.0/Through ports: φ 4.6	18	5.5	8	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides: φ 10/Thread: M8×1.25/Through ports: φ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides: φ 11/Thread: M8×1.25/Through ports: φ 6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides: φ 11/Thread: M8×1.25/Through ports: φ 6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides: φ 14/Thread: M12×1.75/Through ports: φ 9.2	25	10.5	10	94	74	-	3.65	25	22	36	28
100	-	G3/8"	Double Sides: φ 17.5/Thread: M14×2/Through ports: φ 11.3	30	13	10	114	90	-	3.65	32	27	35	26



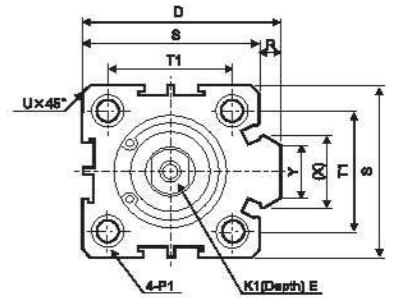
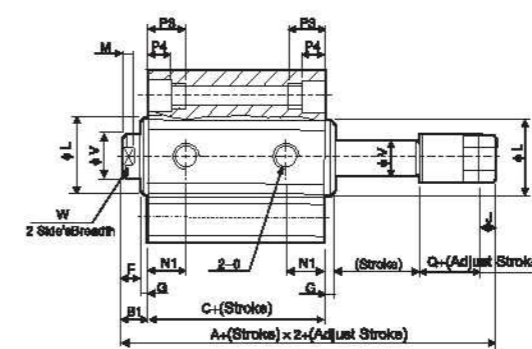
### SDA Series Thin Type(Compact) Cylinder

#### Overall Dimensions

**SDAJ.SDAJS Type**  
φ 12~ φ 16



**SDAJ.SDAJS Type**  
φ 20~ φ 100



#### Dimension Sheet

Type Bore Size/Symbol	Standard type			Attach Magnet			D	E		F	G	K1	L	M	N1
	A	B1	C	A	B1	C		Stroke ≤ 10	Stroke > 10						
12	22	5	17	32	5	27	-	6	4	1	M3×0.5	10.2	2.8	6.3	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4×0.7	15	2.8	7.5	
25	27	6	21	37	6	34	42	10	4	2	M5×0.8	17	2.8	8	
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6×1	22	2.8	9	
40	33	7	28	43	7	36	58.5	12	4	3	M8×1.25	28	2.8	10	
50	37	9	28	47	9	38	71.5	15	5	4	M10×1.5	38	2.8	10.5	
63	41	9	32	51	9	42	84.5	15	5	4	M10×1.5	40	2.8	11.8	
80	52	11	41	62	11	51	104	15	6	5	M14×1.5	45	4	14.5	
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
16	6.5	M5×0.8	Double Sides: φ 6.5/Thread: M5×0.8/Through ports: φ 4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides: φ 6.5/Thread: M5×0.8/Through ports: φ 4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides: φ 8.2/Thread: M6×1.0/Through ports: φ 4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides: φ 8.2/Thread: M6×1.0/Through ports: φ 4.6	18	5.5	8	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides: φ 10/Thread: M8×1.25/Through ports: φ 6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides: φ 11/Thread: M8×1.25/Through ports: φ 6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides: φ 11/Thread: M8×1.25/Through ports: φ 6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides: φ 14/Thread: M12×1.75/Through ports: φ 9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides: φ 17.5/Thread: M12×1.75/Through ports: φ 11.3	30	13	10	114	90	-	3.65	32	27	35	26



### CQ2 Series Compact Cylinder

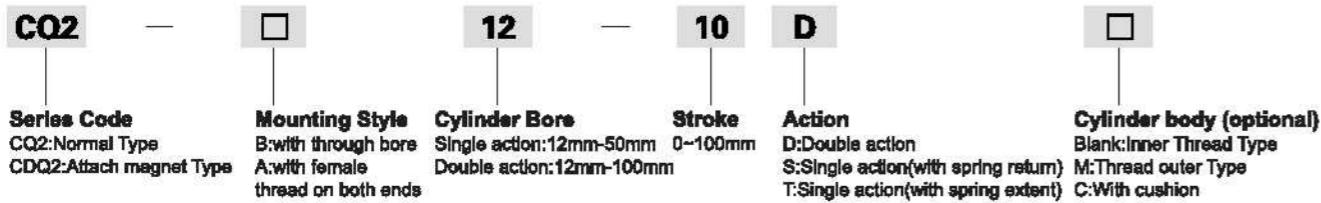


CQ2B 32x30-M



CQ2B 16x25

#### Ordering Code

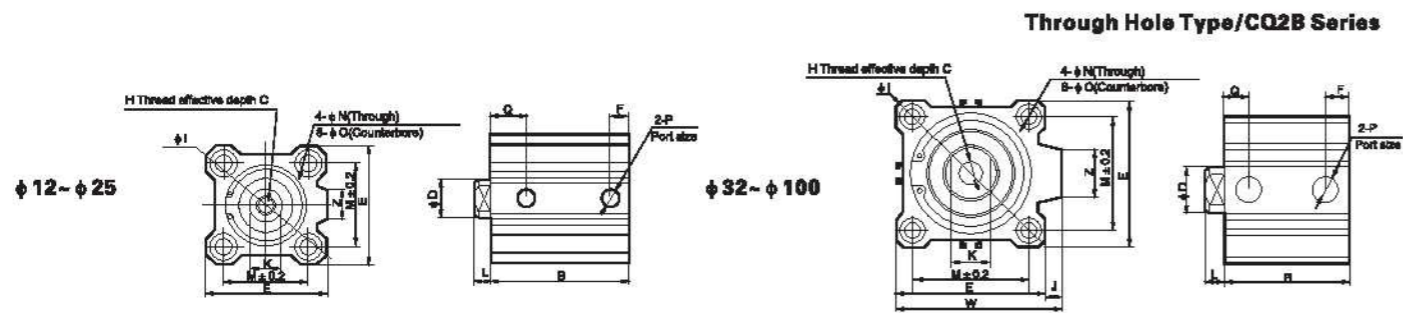


#### Specification

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air									
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-In Type									
Ensured Pressure Resistance	15.3kg/cm <sup>2</sup> (1.5Mpa)									
Max.pressure	10.2kg/cm <sup>2</sup> (1.0Mpa)									
Environment and fluid temp	5~+60°C									
Thread Type	Inner Thread(Standard)/Outer Thread(Optional)									
Buffering	NO									
Margin of Stroke Error(mm)	+1.0 0									
Installation	Through Hole (Standard), Inner size on the two sides(Optional)									
Port size	M5x0.8			G1/8"			G1/4"			G3/8"

■ Note: Pls Confirm Single Type Can't With Cushion.

#### Overall Dimensions



### CQ2 Series Compact Cylinder

#### Dimension Sheet(Double Action)

Model	Stroke range (mm)	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	W	Z
CQ2B12-□D	5-30	17+st	6	25	5	M3x0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5x0.8	7.5	-	-
CQ2B16-□D	5-30	18.5+st	8	29	5.5	M4x0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5x0.8	8	-	10
CQ2B20-□D	5-60	19.5+st	10	36	5.5	M5x0.8	7	47	-	8	4.5	25.5	5.5	9 depth 7	M5x0.8	9	-	10
CQ2B25-□D	5-60	22.5+st	12	40	5.5	M6x1.0	12	52	-	10	5	28	5.5	9 depth 7	M5x0.8	11	-	10
CQ2B32-□D	5	23+st	16	46	5.5	M8x1.25	13	60	4.5	14	7	34	5.5	9 depth 7	M5x0.8	11.5	49.5	18
CQ2B40-□D	10-50	29.5+st	16	52	8	M8x1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	57	18
CQ2B50-□D	10-50	30.5+st	20	64	10.5	M10x1.5	15	86	7	17	8	50	6.6	11 depth 8	1/4	10.6	71	22
CQ2B63-□D	10-50	36+st	20	77	10.5	M10x1.5	15	103	7	17	8	60	9	14 depth 10.5	1/4	15	84	22
CQ2B80-□D	10-50	43.5+st	25	98	12.5	M16x2.0	21	132	6	22	10	77	11	17.5 depth 13.5	3/8	16	104	26
CQ2B100-□D	10-60	53+st	30	117	13	M20x2.5	27	166	6.5	27	12	94	11	17.5 depth 13.5	3/8	23	123.5	26

#### Note 2) Long Stroke

Model	Stroke (mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

St=Stroke

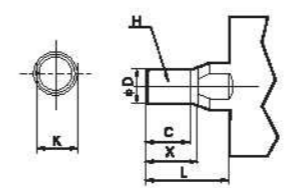
Note 1) The standard stroke is at a distance of each 5 mm.  
 Note 2) The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,) need to be added thickness of 5,10,15 or 20mm pad.  
 Note 3) External dimensions with rumper are same as standard type as shown above.

#### Dimension Sheet(Single Action)

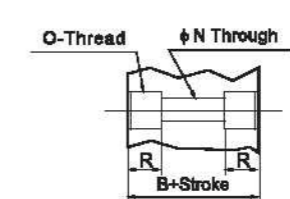
Model	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z	
	5st	10st	20st			5st	10st										5st	10st	5st	10st				
CQ2B12-□S	22	27	-	6	25	5	5	M3x0.5	6	32	-	5	3.5	15.5	3.5	6.5 depth 3.5	M5x0.8	-	7.5	7.5	-	-	-	-
CQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4x0.7	8	38	-	6	3.5	20	3.5	6.5 depth 3.5	M5x0.8	-	8	8	-	-	-	-
CQ2B20-□S	24.5	29.5	-	10	36	5.5	5.5	M5x0.8	7	47	-	8	4.5	25.5	5.5	9 depth 7	M5x0.8	-	9	9	-	-	-	-
CQ2B25-□S	27.5	32.5	-	12	40	5.5	5.5	M6x1.0	12	52	-	10	5	28	5.5	9 depth 7	M5x0.8	-	11	11	-	-	-	-
CQ2B32-□S	28	33	-	16	45	5.5	7.5	M8x1.25	13	60	4.5	14	7	34	5.5	9 depth 7	M5x0.8	1/8	-	11.5	11.5	49.5	18	
CQ2B40-□S	34.5	39.5	-	16	52	8	8	M8x1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	-	11	11	57	18		
CQ2B50-□S	-	40.5	50.5	20	64	10.5	10.5	M10x1.5	15	86	7	17	8	50	6.6	11 depth 8	-	1/4	10.5	10.5	71	22		

St=Stroke

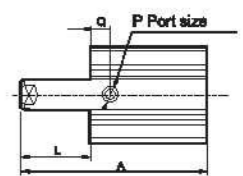
#### Thread outer Type



#### (Inner Thread Type)/CO2A



#### Single Action (with Spring extent) φ12-φ50



#### Thread outer Type

Bore (mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5x0.8	14	5
16	10	12	8	M6x1.0	15.5	6
20	12	14	10	M8x1.25	18.5	8
25	15	17.5	12	M10x1.25	22.5	10
32	20.5	23.5	16	M14x1.5	28.5	14
40	20.5	23.5	18	M14x1.5	28.5	14
50	26	28.5	20	M18x1.5	33.5	17
63	26	28.5	20	M18x1.5	33.5	17
80	32.5	35.5	25	M22x1.5	43.5	22
100	32.5	35.5	30	M28x1.5	43.5	27

#### Note3) Inner Thread Type

Bore (mm)	O	R
12	M4x0.7	7
16	M4x0.7	7
20	M6x1.0	10
25	M6x1.0	10
32	M6x1.0	10
40	M8x1.0	10
50	M8x1.25	14
63	M10x1.5	18
80	M12x1.75	22
100	M12x1.75	22

#### Single Action (with Spring extent)

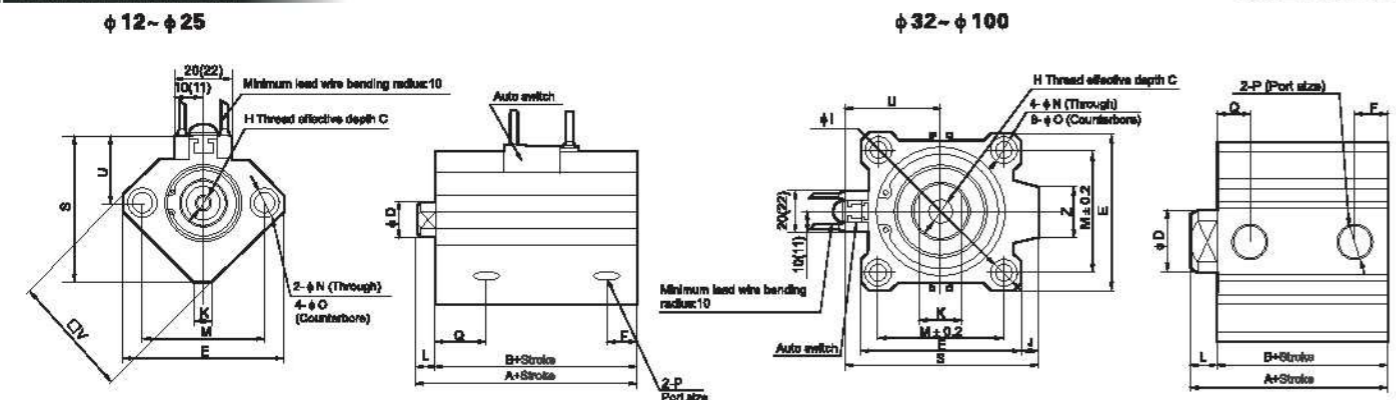
Bore (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	-	8.5	13.5	-
16	32	42	-	8.5	13.5	-
20	34	44	-	9.5	14.5	-
25	37.5	47.5	-	10	15	-
32	40	50	-	12	17	-
40	48.5	56.5	-	12	17	-
50	-	58.5	78.5	-	18	28

\*External dimensions with rumper are same as standard type as shown above.



### CQ2 Series Compact Cylinder

#### Overall Dimensions



#### Dimension Sheet(Double Action)

Model	Note1) Stroke range (mm)	A	B	φD	E	F	H	C	φI	J	K	L	M	φN	φO	P	Q	S	U	V	Z
CDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5 depth 3.5	M5×0.8	11	35.5	19.5	25	-
CDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5 depth 3.5	M5×0.8	10	41.5	22.5	29	-
CDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9 depth 7	M5×0.8	10.5	48	24.5	36	-
CDQ2B25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	-	10	5	40	5.5	9 depth 7	M5×0.8	11	53.5	27.5	40	-
CDQ2B32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 depth 7	1/8	10.5	58.5	31.5	-	18
CDQ2B40	5~50	46.5	39.5	18	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 depth 7	1/8	11	66	35	-	18
CDQ2B50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.8	11 depth 8	1/4	10.5	80	41	-	22
CDQ2B63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	8	14 depth 10.5	1/4	15	93	47.5	-	22
CDQ2B80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	8	22	10	77	11	17.5 depth 13.5	3/8	16	112.5	57.5	-	28
CDQ2B100	10~50	75	63	30	117	13	M20×2.5	27	156	8.5	27	12	94	11	17.5 depth 13.5	3/8	23	132.5	67.5	-	28

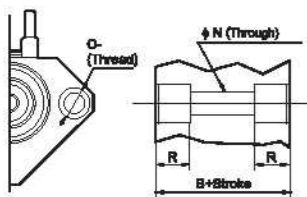
#### Note2) (Long Stroke)

Model	Stroke (mm)	A	B	F	P	Q
32	75,100	40	33	7.5	1/8	10.5
40	75,100	46.5	39.5	8	1/8	11
50	75,100	48.5	40.5	10.5	1/4	10.5
63	75,100	54	46	10.5	1/4	15
80	75,100	63.5	53.5	12.5	3/8	16
100	75,100	75	63	13	3/8	23

Note 1)The standard stroke is at a distance of each 5 mm.  
 Note 2)The stroke between 55mm-100mm(55,60,65,70,80,85,90,95,)need to be added thickness of 5,10,15 or 20mm pad.  
 Note 3)External dimensions with rumper are same as standard type as shown above.  
 Note 4)The stroke of cylinder in 5 mm can be fixed only one magnetism swith

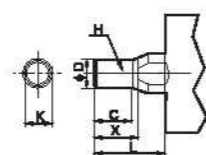
#### Note3)Inner Thread Type

#### Inner Thread Type CDQ2A



Bore (mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

#### Thread outer type



#### Thread outer type

Bore (mm)	C	X	φD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	18	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27



### CJP Series Needle Cylinder



CJPB10-15

#### Ordering Code

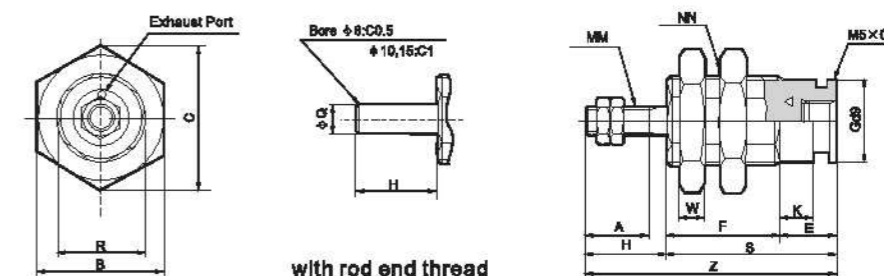
<b>CJP</b>	-	<b>10</b>	-	<b>5</b>	-	<b>B</b>
<b>Series Code</b> CJPB:Panel mount Type CJPS:Invisble Type		<b>Cylinder Bore</b> 6mm-6mm 10mm-10mm 15mm-15mm		<b>Stroke</b> 0~30mm		<b>Thread Type</b> BlankWith Thread B:No. Thread

#### Specification

Bore(mm)	6	10	15
Working Medium	Air		
Motion Pattern	Double action / Single Action(Drawing-in Type)		
Ensured Pressure Resistance	10.5kgf/cm <sup>2</sup> (1.05Mpa)		
Max.pressure	7kgf/cm <sup>2</sup> (0.7Mpa)		
Min.pressure	2kgf/cm <sup>2</sup> (0.2Mpa)	1.5kgf/cm <sup>2</sup> (0.15Mpa)	
Operating Temperature Range	5~+60°C		
Buffering	NO		
Margin of Stroke Error(mm)	+1.0 0		
Port size	M5×0.8 Panel mount Type		

#### Overall Dimensions

#### Panel Mounting Style CJPB

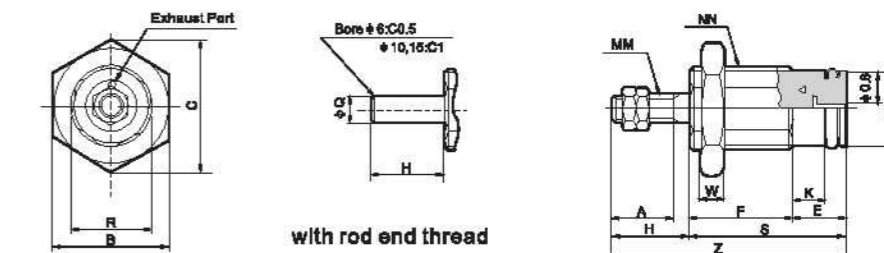


#### St=(Stroke) mm

Bore(mm)	A	B	C	E	F			φG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	27	31	7	16.5	22.5	29	18	14	4.2	M5×0.8	M22×1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

#### Overall Dimensions

#### (Plug Mounting Style) CJPS



Bore(mm)	A	B	C	E	F			φG	H	K	MM	NN	R	S			W	Z			Q
					5st	10st	15st							5st	10st	15st		5st	10st	15st	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	9	18.5	22.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	27	31	7	16.5	22.5	29	18	14	4.2	M5×0.8	M22×1.5	20	23.5	29.5	36	5	37.5	43.5	50	6



## Rotary table/Air gripper/Rodless Cylinders

Cylinders for special industries and requirement. XCPC provide the highest quality products of these cylinders in China. It is the high cost effective product you can find in our company. They are include: MSQ(Rotary table), XHZ/XHC(Clamp Gripper), XHL(Parallel style), XHT(Angle Gripper) and CY1(Rod-less).etc.



### TN Series Double-Shaft Cylinder

#### Ordering Code

**TN** — **20** × **50** — **S**

Series Code: Double-Shaft, Double Action Type  
 Cylinder Bore: 10mm, 16mm, 20mm, 25mm, 32mm  
 Stroke: —  
 Magnet Code: Blank/Without Magnet, S:Attach Magnet

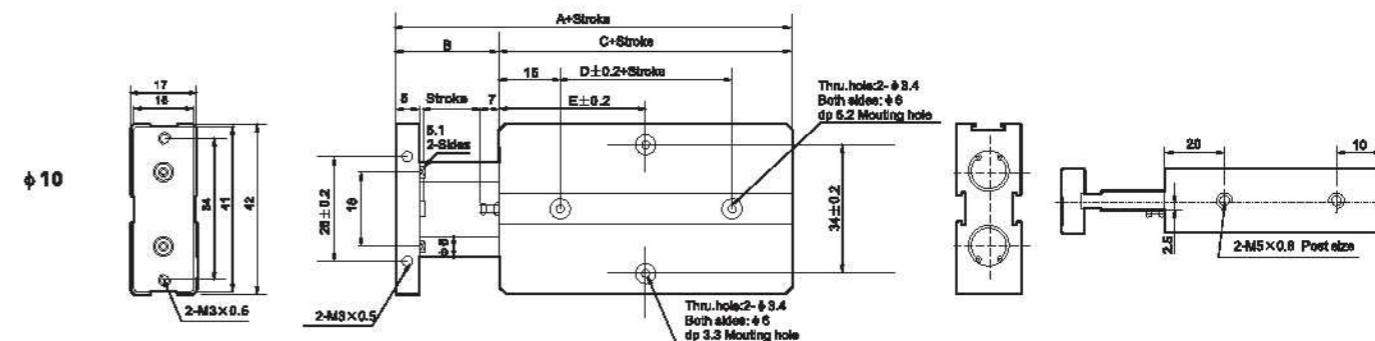


TN 20×25

#### Specification

Bore(mm)	10	16	20	25	32
Motion Pattern	Double action				
Working Medium	Air				
Operating Voltage Range	1~9kg/cm <sup>2</sup>				
Ensured Pressure Resistance	10.5kg/cm <sup>2</sup>				
Operating Temperature Range	-5~+70°C				
Operating Speed Range	100~500mm/s				
Adjustable Stroke	-10~0mm				
Cushion Type	Adjustable Cushion				
Non-rotating Precision	0.4°C		0.3°C		
Port Size	M5×0.8				G1/8"

#### Overall Dimensions



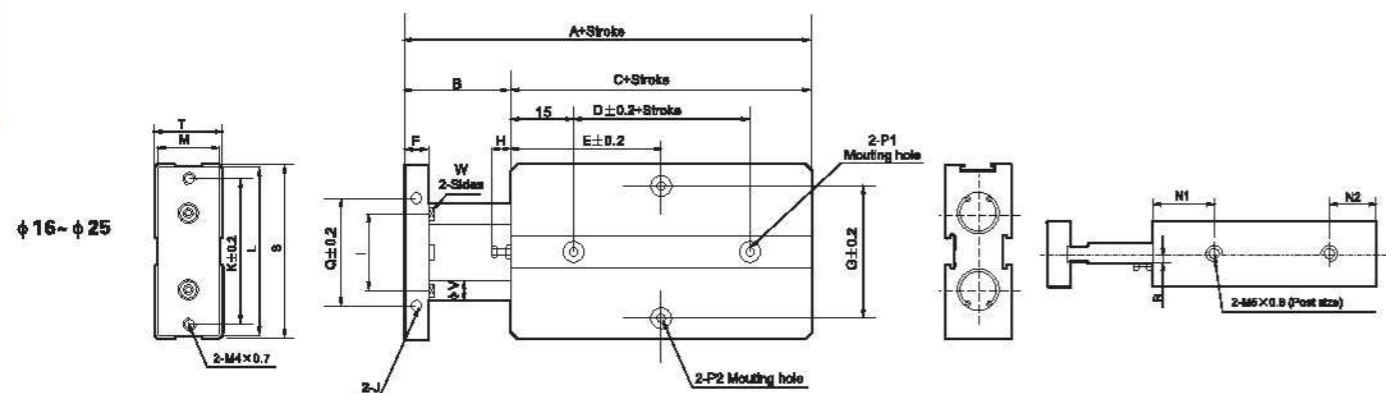
#### Dimension Sheet

Bore size	A	B	C	D	E						
Item	10	12	51	10	30	30	35	40	45	50	55



### TN Series Double-Shaft Cylinder

#### Overall Dimensions

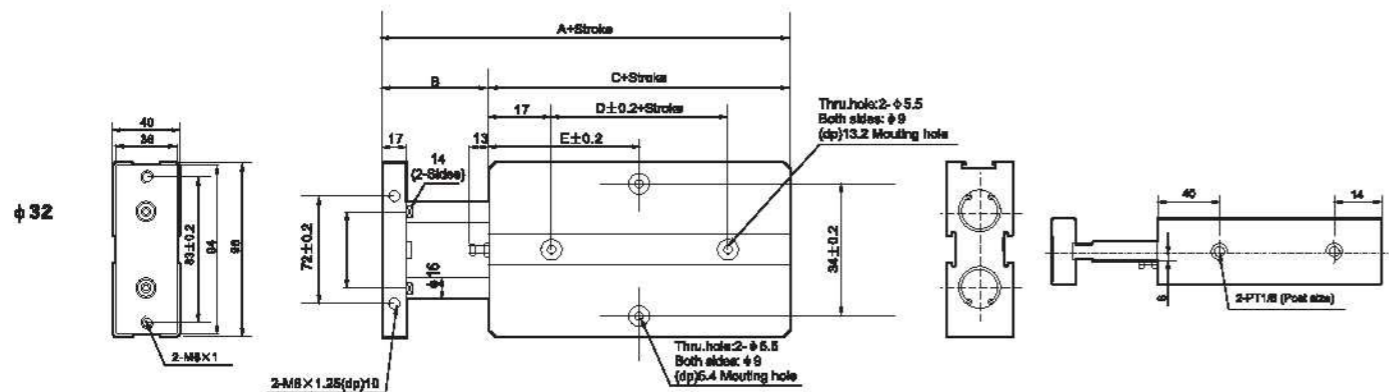


#### Dimension Sheet

Bore size Item	A	B	C	D	E										F	G	H	I		
					10	20	30	40	50	60	70	80	90	100					125	150
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34

Bore size/Item	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4×0.7/dp 5	47	53	20	22	11	Both sides: $\phi 7.5$ (dp) 7.2mm Thru.hole: $\phi 4.5$	Both sides: $\phi 8$ (dp) 4.4mm Thru.hole: $\phi 4.5$	34	3	54	21	8	8.1
20	M4×0.7/dp 5	55	61	24	25	12	Both sides: $\phi 7.5$ (dp) 7.2mm Thru.hole: $\phi 4.5$	Both sides: $\phi 8$ (dp) 4.4mm Thru.hole: $\phi 4.5$	44	3.5	62	25	10	8.1
25	M4×0.7/dp 6	66	72	29	27	12	Both sides: $\phi 7.5$ (dp) 7.2mm Thru.hole: $\phi 4.5$	Both sides: $\phi 8$ (dp) 4.4mm Thru.hole: $\phi 4.5$	56	7	73	30	12	10.2

#### Overall Dimensions



#### Dimension Sheet

Bore size Item	A	B	C	D	E											
					10	20	30	40	50	60	70	80	90	100	125	150
32	108	30	78	35	45	50	55	60	65	70	75	80	85	90	102.5	115



### CXS Series Double-Shaft Cylinder

#### Ordering Code

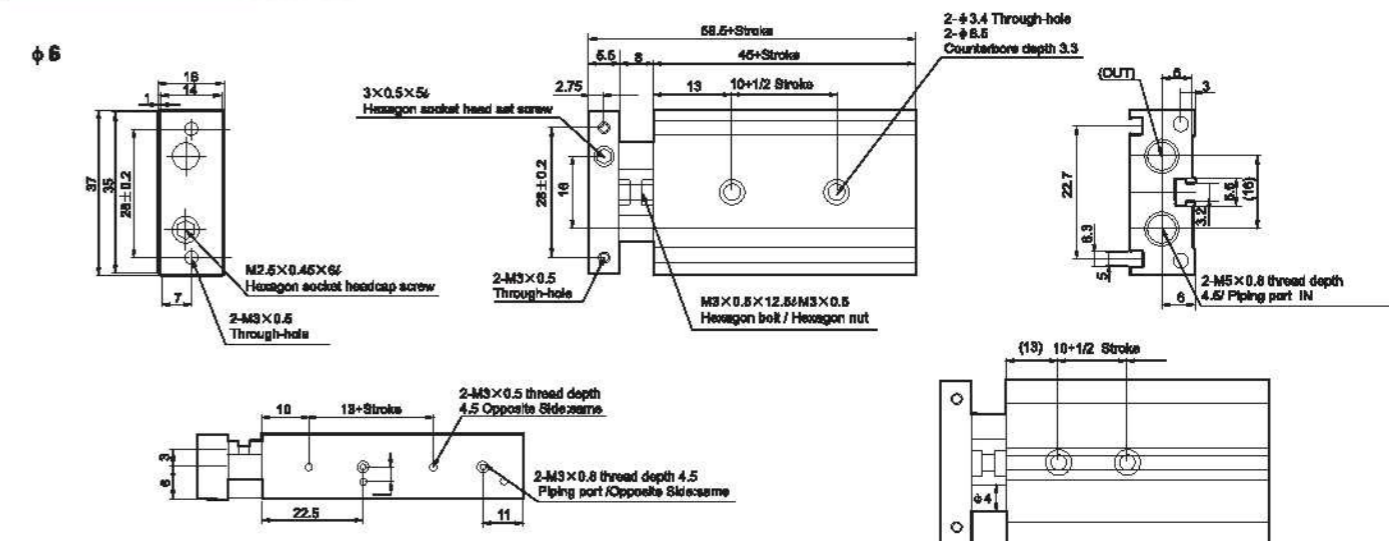
<b>CXS</b>	—	<b>M</b>	—	<b>20</b>	×	<b>50</b>
Series Code CXS:Attach magnet Type		Type of Bearing M:Slide Bearing Type L:Ball Guide Bearing Type		Cylinder Bore 6mm 10mm 16mm 20mm 25mm 32mm		Stroke 0-100mm



#### Specification

Bore(mm)	6	10	15	20	25	32	
Working Medium	Air						
Motion Pattern	Double action						
Ensured Pressure Resistance	1.05Mpa(10.7kgf/cm <sup>2</sup> )						
Max.pressure	0.7Mpa(7.1kgf/cm <sup>2</sup> )						
Min.pressure	0.15Mpa(1.5kgf/cm <sup>2</sup> )	0.1Mpa(1.0kgf/cm <sup>2</sup> )				0.05Mpa(0.51kgf/cm <sup>2</sup> )	
Operating Temperature Range	5~+60°C						
Buffering	Both ends buffer						
Structure	Double Power						
Stroke Adjustable Range	Return Stroke: 0-5mm						
Bearing	Slide Bearing/Ball Guide Bearing						
Precision of Piston rod Non-rotating	Slide Bearing	$\pm 0.1$	$\pm 0.15$	$\pm 0.13$	$\pm 0.11$	$\pm 0.1$	$\pm 0.08$
	Ball Guide Bearing	$\pm 0.1$	$\pm 0.1$	$\pm 0.07$	$\pm 0.06$	$\pm 0.05$	$\pm 0.04$
Port size	M5×0.8						

#### Overall Dimensions



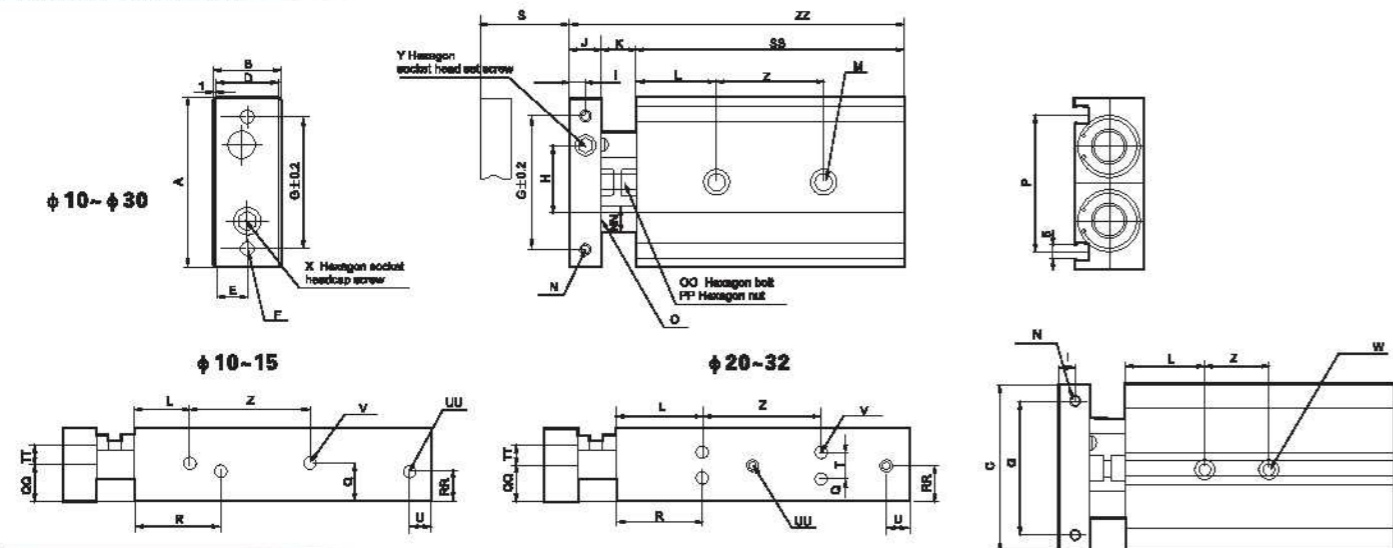
#### Dimension Sheet

Model	Stroke	10+1/2 Stroke	13+Stroke	45+Stroke	58.5+Stroke
CXS□ 6-10	10	15	23	55	68.5
CXS□ 6-20	20	20	33	65	78.5
CXS□ 6-30	30	25	43	75	88.5
CXS□ 6-40	40	30	53	85	95.5
CXS□ 6-50	50	35	63	95	108.5



### CXS Series Double-Shaft Cylinder

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	OO	P
CXS□10-10 /20/30/40/50	46	17	44	15	7.5	2-M4×0.7	35	20	4	8	9	20	2-Φ3.4/through 2-Φ6.5 Counterbore depth3.3	2-M3×0.5 thread depth 5	Φ6	5	M4×0.7×14.5L	33.6
CXS□15-10 /20/30/40/50	58	20	56	18	9	2-M5×0.8	45	25	5	10	9	30	2-Φ4.3/through 2-Φ8 Counterbore depth4.4	2-M4×0.7 thread depth 6	Φ8	6	M4×0.7×14.5L	48
CXS□20-10/20/ 30/40/50/75/100	64	25	62	23	11.5	2-M5×0.8	50	28	6	12	12	30	2-Φ5.5/through 2-Φ9.5 Counterbore depth5.3	2-M4×0.7 thread depth 6	Φ10	8	M6×1.0×18.5L	53
CXS□25-10/20/ 30/40/50/75/100	80	30	78	28	14	2-M6×1.0	60	35	6	12	12	30	2-Φ6.8/through 2-Φ11 Counterbore depth6.3	2-M5×0.8 thread depth 7.5	Φ12	10	M6×1.0×18.5L	64
CXS□32-10/20/ 30/40/50/75/100	98	38	96	36	18	2-M6×1.0	75	44	8	16	14	30	2-Φ6.8/through 2-Φ11 Counterbore depth6.3	2-M5×0.8 thread depth 8	Φ16	13	M8×12.5×23L	78

Model	PP	Q	QQ	R	RR	T	TT	U	UU	V	W	X	Y
CXS□10-10 /20/30/40/50	M4×0.7	8.5	7	30	7	-	5	8	4-M5×0.8 thread depth 4.5	4-M3×0.5 thread depth 4.5	2-M4×0.7 thread depth 7	M3×0.5×10L	M3×0.5×5L
CXS□15-10 /20/30/40/50	M4×0.7	10	10	38.5	10	-	5	8	4-M5×0.8 thread depth 4.5	4-M4×0.7 thread depth 5	2-M5×0.8 thread depth 8	M5×0.8×10L	M4×0.7×4L
CXS□20-10/20/ 30/40/50/75/100	M6×1.0	7.75	12.5	45	7.75	9.5	6.5	8	4-M5×0.8 thread depth 4.5	8-M4×0.7 thread depth 6	2-M6×1.0 thread depth 10	M6×1.0×12L	M5×0.8×5L
CXS□25-10/20/ 30/40/50/75/100	M6×1.0	8.5	15	46	15	13	9	9	4-1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M6×1.0×14L	M6×1.0×5L
CXS□32-10/20/ 30/40/50/75/100	M8×1.25	9	19	56	19	20	11.5	10	4-1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M8×1.25×18L	M8×1.25×8L

Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ	Model	S	SS	Z	ZZ
CXS□10-10	10	85	30	82	CXS□15-10	10	70	25	89	CXS□20-10	10	80	30	104	CXS□25-10	10	82	30	106
CXS□10-20	20	75	30	92	CXS□15-20	20	80	25	99	CXS□20-20	20	90	30	114	CXS□25-20	20	95	30	116
CXS□10-30	30	85	40	102	CXS□15-30	30	90	25	109	CXS□20-30	30	100	30	124	CXS□25-30	30	102	30	126
CXS□10-40	40	95	40	112	CXS□15-40	40	100	35	119	CXS□20-40	40	110	40	134	CXS□25-40	40	112	40	136
CXS□10-50	50	105	50	122	CXS□15-50	50	110	45	129	CXS□20-50	50	120	50	144	CXS□25-50	50	122	50	146
										CXS□20-75	75	145	60	169	CXS□25-75	75	147	60	171
										CXS□20-100	100	170	60	194	CXS□25-100	100	172	60	196



### CU Series Free Installation Cylinder

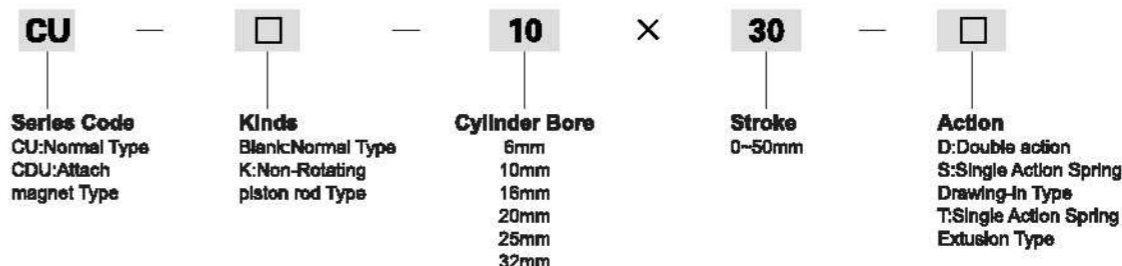


CDU 25×30



CDUK 16×30

#### Ordering Code



#### Specification

Bore(mm)	6mm	10mm	16mm	20mm	25mm	32mm
Working Medium	Air					
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-In Type					
Ensured Pressure Resistance	1.05Mpa(10.5kgf/cm <sup>2</sup> )					
Max. Working-pressure	0.7Mpa(7.1kgf/cm <sup>2</sup> )					
Min. operating pressure	Single	0.2MPa	0.15MPa	0.13MPa		
	Double	0.12MPa	0.08MPa	0.05MPa		
Ambient and Medium Temperature	Without auto switch:-10~70°C(No freezing) With auto switch:-10~60°C(No freezing)					
Lubrication	Non-lube					
Piston speed	50-500 mm/s					
Cushion	Rubber bumper <sup>Note)</sup>					
Rod end thread	Male thread					
Thread tolerance	Class 2					
Cushion	Both ends buffer					
Margin of Stroke Error(mm)	+1.0 0 mm					
Precision of Piston rod with Non-rotating	±0.8°			±0.5°		
Port Size	M5×0.8					G1/8"

Note) Φ6 single acting with auto switch type: One side rubber bumper.

#### Standard stroke

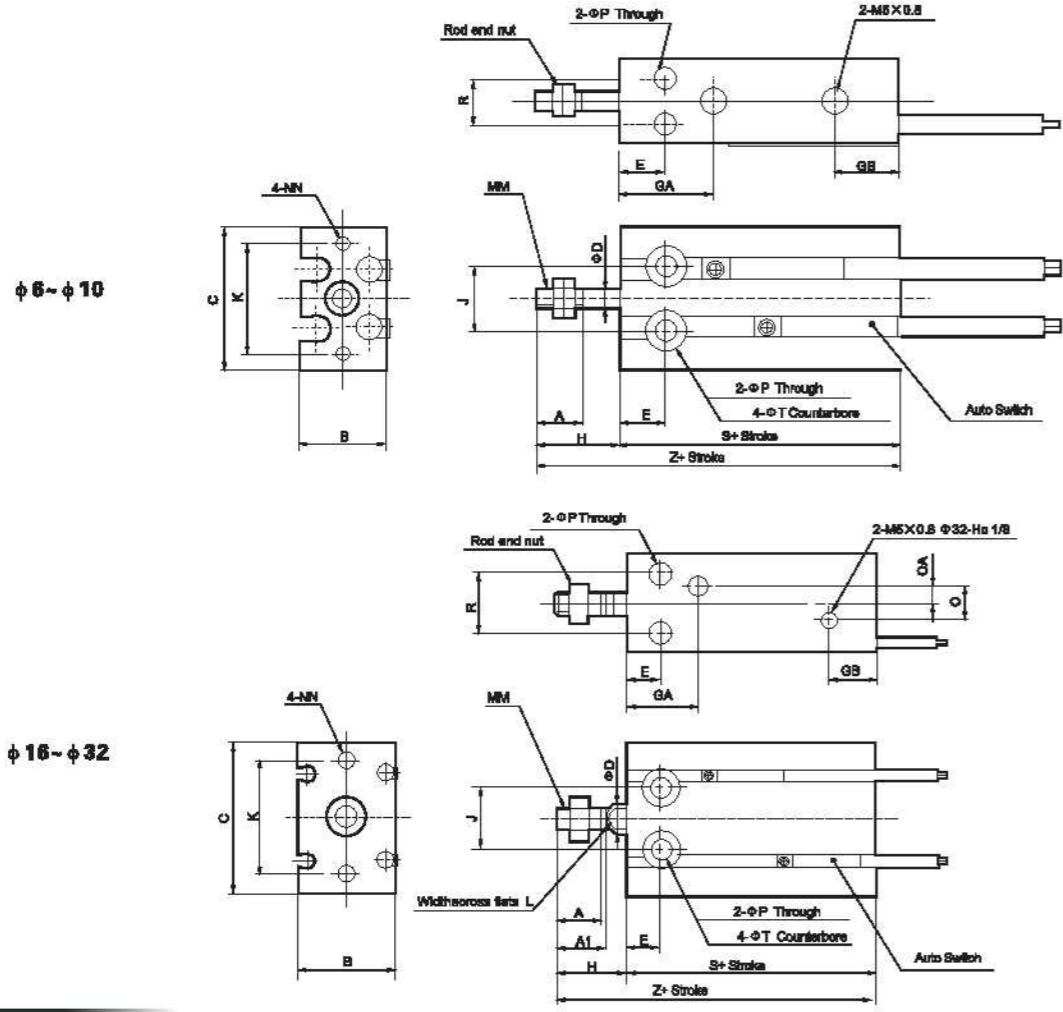
	Bore size (mm)	Standard stroke(mm)
Double Acting	6,10,16	5,10,15,20,25,30
	20,25,32	5,10,15,20,25,30,40,50
Single Acting	6,10,16,20,25,32	5,10,15



### CU Series Free Installation Cylinder

#### Overall Dimensions

#### Double Acting, Single Rod



#### Dimension Sheet

Bore size (mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	18.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	18.5 <sup>(Note)</sup>	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25

Bore size (mm)	NN	P	Q	QA	R	T	Without Auto Switch		With Auto Switch	
							S	Z	S	Z
6	M3×0.5 depth 5	3.2	-	-	7	6 depth 4.8	33	46	33	46
10	M3×0.5 depth 5	3.2	-	-	9	6 depth 5	36	52	36	52
16	M4×0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	30	46	40	56
20	M5×0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	36	55	46	65
25	M5×0.8 depth 8	5.5	9	4.5	20	9.3 depth 9	40	63	50	73
32	M6×1.0 depth 9	6.6	13.5	4.5	24	11 depth 11.5	42	69	52	79

Note)5 (CU16-5D):14.5mm

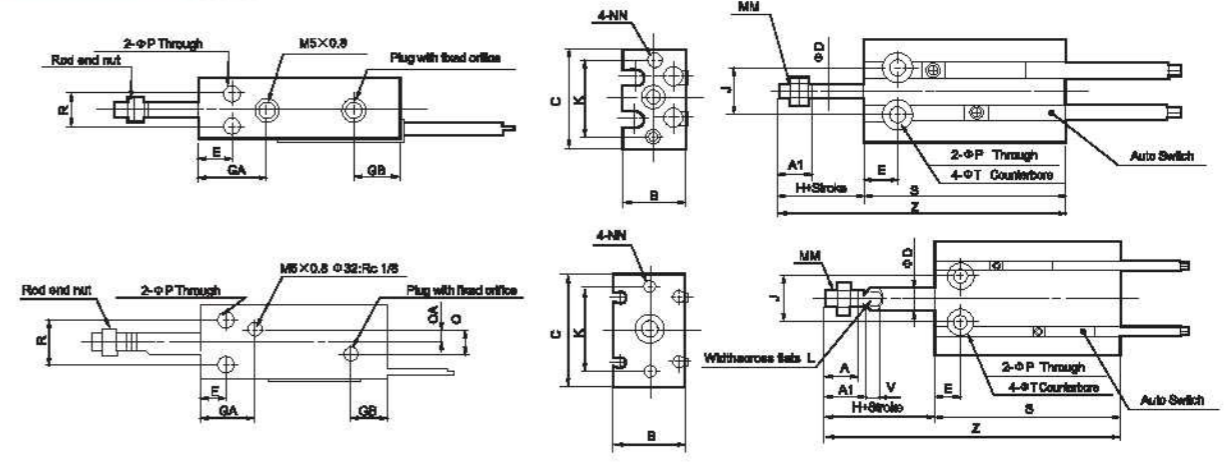
Note)5 Stroke(CU16-5D):14.5mm



### CU Series Free Installation Cylinder

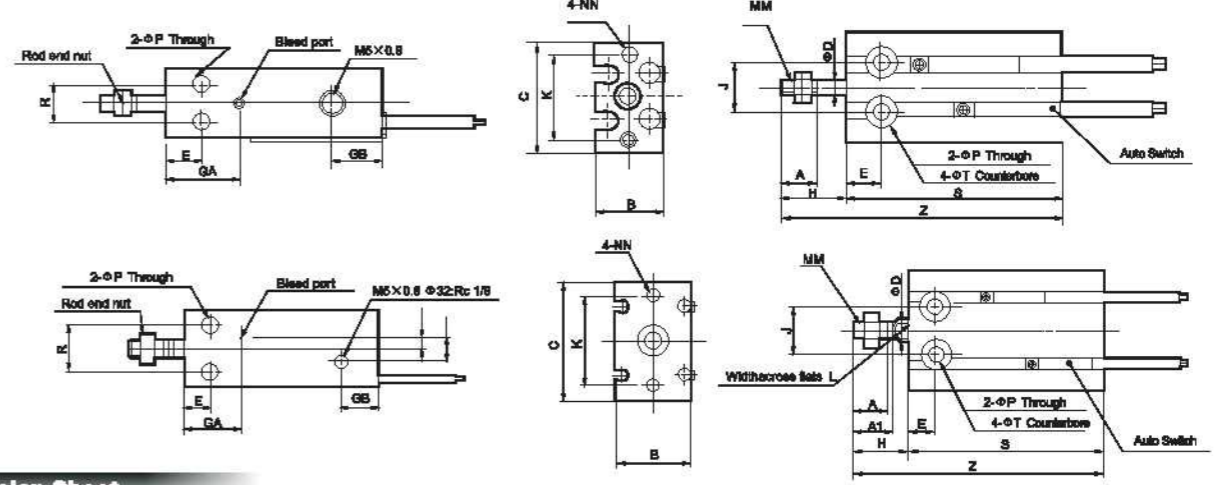
#### Overall Dimensions

#### Single Acting, Spring Extend



#### Overall Dimensions

#### Single Acting, Spring Return



#### Dimension Sheet

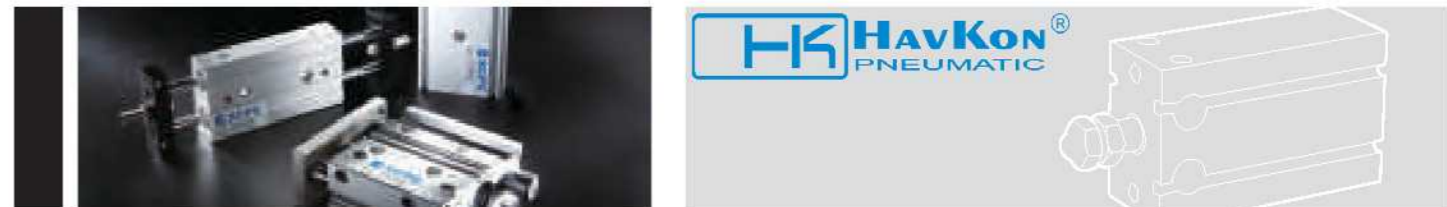
Bore size (mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM	NN	P
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5	M3×0.5 (depth) 5	3.2
10	10	-	15	24	4	7	18.5	10	16	18	11	-	M4×0.7	M3×0.5 (depth) 5	3.2
16	11	12.5	20	32	6	7	18.5	11.5	16	25	14	5	M5×0.8	M4×0.7 (depth) 6	4.5
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0	M5×0.8 (depth) 8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25	M5×0.8 (depth) 8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25	M6×1.0 (depth) 9	6.6

Bore size (mm)	Q	QA	R	T	V (Note)	Without Auto Switch						With Auto Switch					
						S			Z			S			Z		
						5st	10st	15st	5st	10st	15st	5st	10st	15st	5st	10st	15st
6	-	-	7	6 (depth) 4.8	-	38	43	48	56	66	76	38	43	48	56	66	76
10	-	-	9	6 (depth) 5	-	41	46	56	62	72	87	41	46	56	62	72	87
16	4	2	12	7.6 (depth) 6.5	3.5	45	50	60	66	76	91	45	50	60	66	76	91
20	9	4.5	16	9.3 (depth) 8	5	41	46	56	65	75	90	51	56	66	75	85	100
25	9	4.5	20	9.3 (depth) 9	5	45	50	60	73	83	98	55	60	70	83	93	108
32	13.5	4.5	24	11 (depth) 11.5	5	47	52	62	79	89	104	57	62	72	89	99	114

Note) "V" Only for Single Acting, Spring Extend



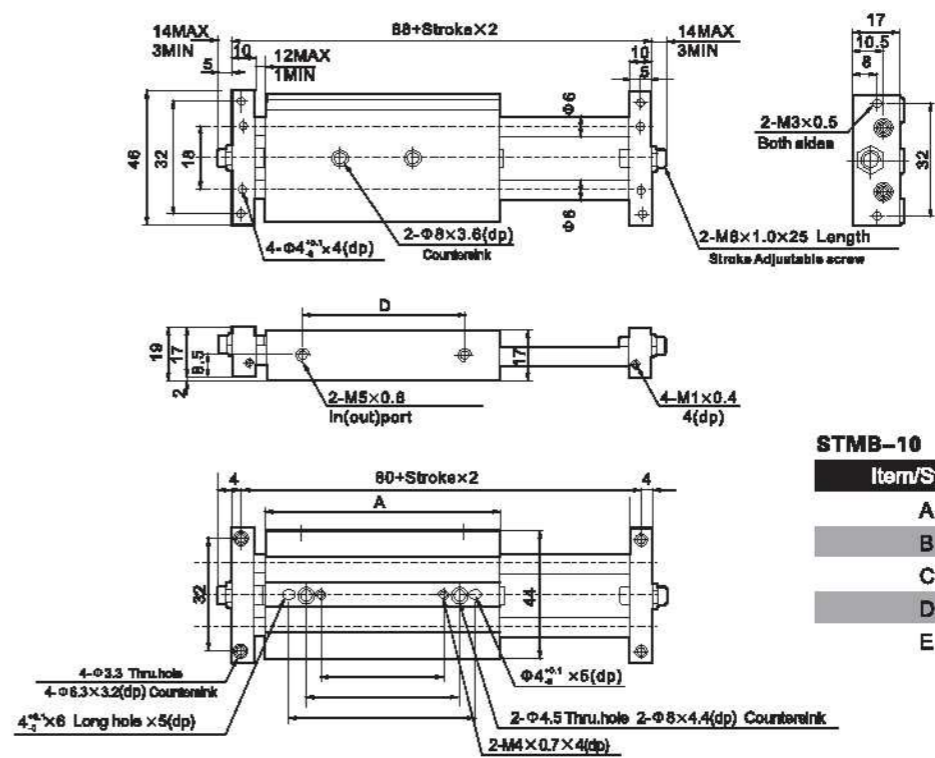


### STM Series Slide Bearing Cylinder

### STM Series Slide Bearing Cylinder



#### Overall Dimensions



#### Ordering Code



#### Specification

Bore(mm)	10	16	20	25
Motion Pattern	Double action			
Working Medium	Air			
Operating Temperature Range	-5~+70°C			
Operating Voltage Range	1.0~9.0kgf/cm <sup>2</sup>			
Ensured Pressure Resistance	13.5Mpa			
Operating Speed Range	50~200mm/s			
Buffer Type	Shock Absorber			
Lubrication	NO			
Non-rotating Precision	±0.1°		±0.05°	
Port size	M5×0.8		G1/8"	

#### Standard stroke

Bore size (mm)	Standard stroke (mm)								
10	25	50	75	100					
16	25	50	75	100	125	150	175	200	
20	25	50	75	100	125	150	175	200	250
25	25	50	75	100	125	150	175	200	250

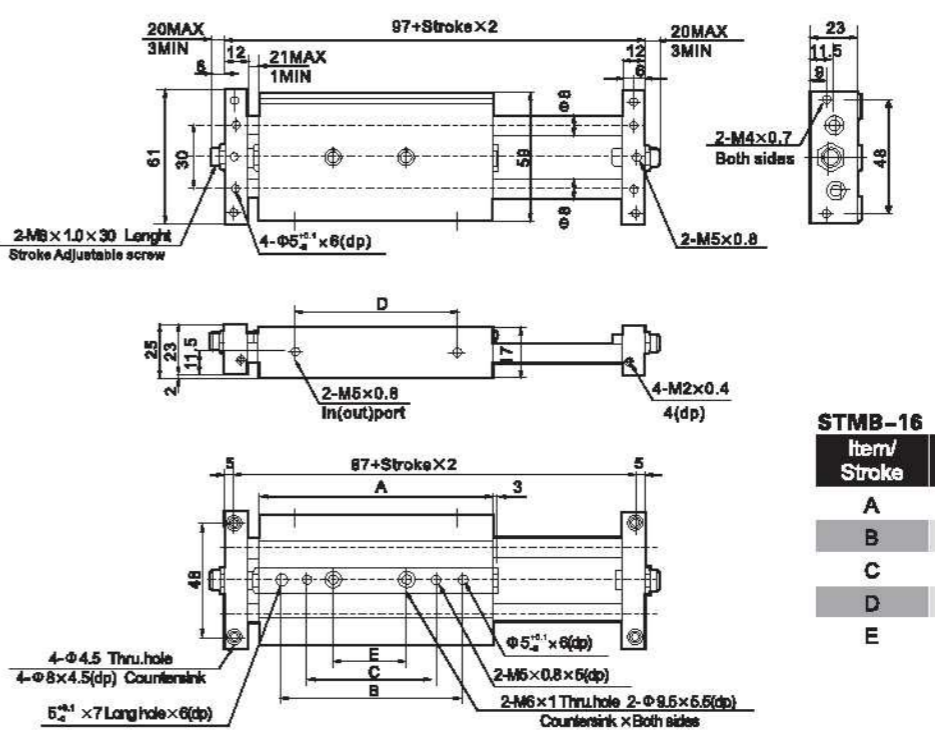
#### Theoretical thrust

Bore size	Rod size (mm)	Pressure area (cm <sup>2</sup> )	Operating pressure (Kgf/mm <sup>2</sup> )								
			1	2	3	4	5	6	7	8	9
10mm	6	0.50	0.48	0.95	1.43	1.9	2.38	2.85	3.43	3.8	4.28
16mm	8	1.51	1.43	2.87	4.30	5.74	7.17	8.61	10.04	11.48	12.91
20mm	10	2.36	2.24	4.48	6.73	8.97	11.21	13.45	15.69	17.94	20.18
25mm	12	3.78	3.51	7.18	10.77	14.36	17.96	21.55	25.14	28.73	32.32

#### STMB-10

Item/Stroke	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	80	80	60
D	46	71	98	121
E	15	40	40	40

#### Overall Dimensions



#### STMB-16

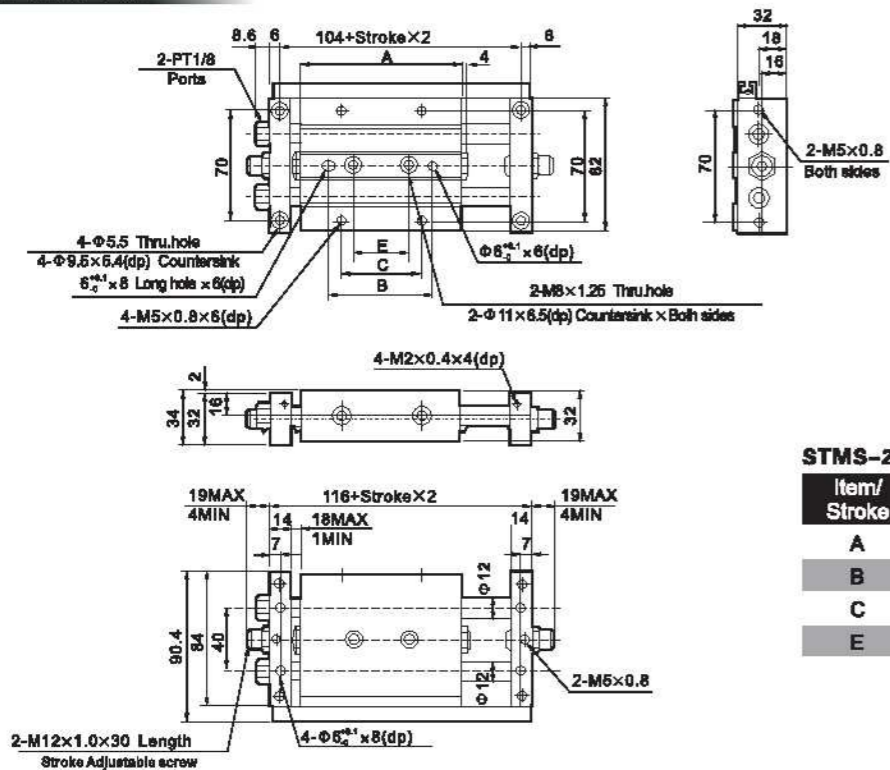
Item/Stroke	25	50	75	100	125	150	175	200
A	86	111	136	161	186	211	236	261
B	55	70	105	130	150	150	150	150
C	-	-	75	100	120	120	120	120
D	48	73	98	123	148	173	198	223
E	25	50	45	70	90	90	90	90





### STM Series Slide Bearing Cylinder

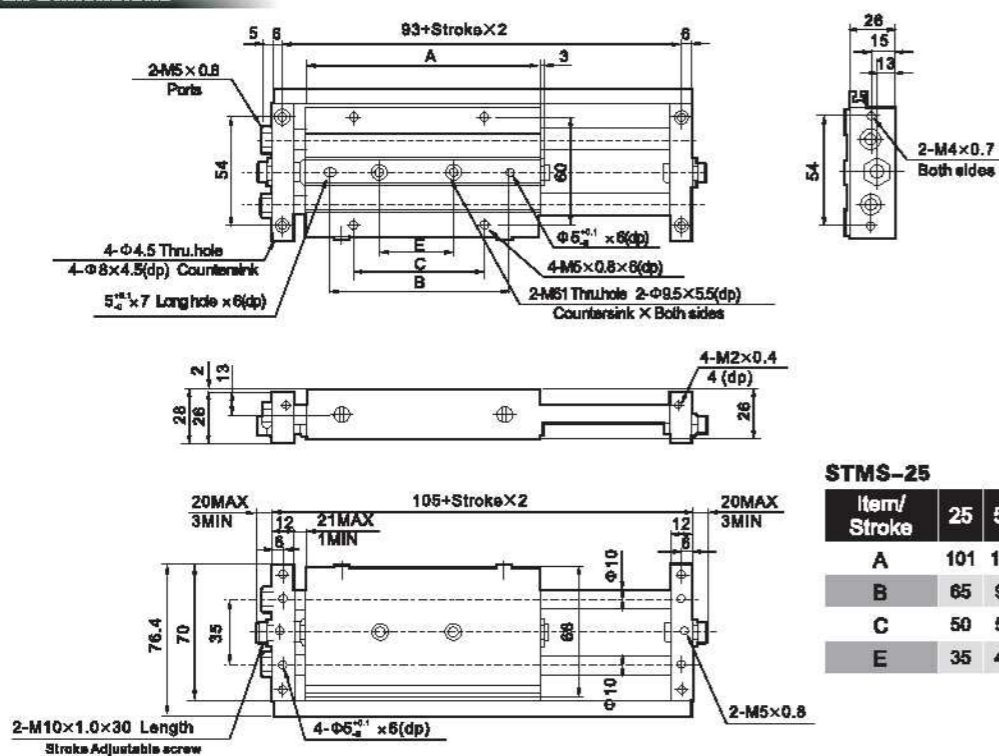
#### Overall Dimensions



#### STMS-20

Item/Stroke	25	50	75	100	125	150	175	200	250
A	94	119	144	169	194	219	244	269	319
B	60	85	110	135	150	150	150	150	150
C	50	50	75	100	120	120	120	120	120
E	35	45	45	70	90	90	90	90	90

#### Overall Dimensions



#### STMS-25

Item/Stroke	25	50	75	100	125	150	175	200	250
A	101	126	151	176	201	226	251	276	326
B	65	90	115	140	140	140	140	140	140
C	50	50	75	100	100	100	100	100	100
E	35	45	45	70	95	100	100	100	100

### MGP Series Three-Shaft Cylinder



MGPM 20×30



MGPM 25×50

#### Ordering Code



#### Specification

Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air									
Motion Pattern	Double-action									
Ensured Pressure Resistance	1.5Mpa(15.3kgf/cm <sup>2</sup> )									
Max. Operating pressure	1.0Mpa(10.2kgf/cm <sup>2</sup> )									
Min. Operating pressure	0.12Mpa(1.2kgf/cm <sup>2</sup> )									
Ambient and Medium Temperature	-10~+60°C									
Piston Speed	50~500mm/s					50~400mm/s				
Buffer	Rubber Cushion									
Tolerance of Stroke	+1.5 mm									
Bearing	Slide bearing/ball guide bearing									
Precision of Piston rod Non-rotating	Slide Bearing	±0.06°	±0.07°	±0.06°	±0.05°	±0.04°				
	Ball Guide Bearing	±0.10°	±0.09°	±0.08°	±0.06°	±0.05°				
Port size	M5×0.8			G1/8"			G1/4"		G3/8"	

#### Standard stroke

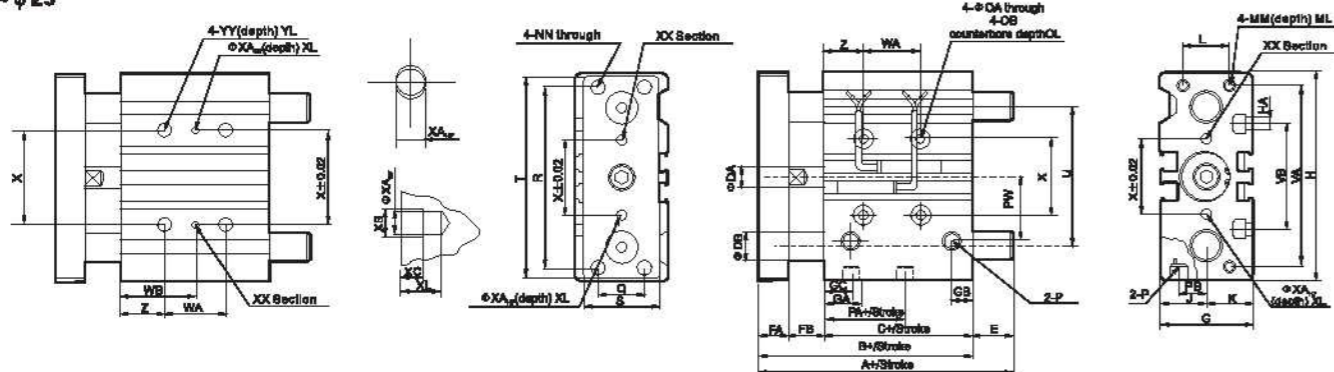
Bore size (mm)	Standard stroke (mm)
12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400



### MGP Series Three-Shaft Cylinder

#### Overall Dimensions

φ 12-φ 25



#### MGPM, MGPL Common Dimensions Sheet

Bore size	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA
12	10,20,30,40, 50,75,100	42	29	8	8	5	26	11	7.5	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3
16	10,20,30,40, 50,75,100	46	33	8	8	5	30	11	8	64	M4	15	15	22	M5×0.8	12	M5×0.8	4.3
20	20,30,40,50, 75, 100,125,150,175,200	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.6
25	20,30,40,50, 75, 100,125,150,175,200	53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.8

Bore size	Standard stroke (mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	YL	Z
12	10,20,30,40, 50,75,100	8	4.5	M5×0.8	13	8	18	14	48	22	58	41	50	37	23	3	3.5	3	10	5
16	10,20,30,40, 50,75,100	8	4.5	M5×0.8	15	10	19	16	54	25	62	46	56	38	24	3	3.5	3	10	5
20	20,30,40,50, 75, 100,125,150,175,200	9.5	5.5	RC1/8	12.5	10.5	25	18	70	30	81	54	72	44	28	3	3.5	3	12	17
25	20,30,40,50, 75, 100,125,150,175,200	9.5	5.5	RC1/8	12.5	13.5	28.5	26	78	38	91	64	82	50	34	4	4.5	3	12	17

Bore size	Standard stroke (mm)	WA			WB			XL	YY
		30 st or less	Over 40 st to 100 st	125 st or less	30 st or less	Over 40 st to 100 st	125 st or less		
12	10,20,30,40, 50,75,100	20	40	-	15	25	-	6	M5×0.8
16	10,20,30,40, 50,75,100	24	44	-	17	27	-	6	M5×0.8
20	20,30,40,50, 75, 100,125,150,175,200	24	44	120	29	39	77	6	M6×1.0
25	20,30,40,50, 75, 100,125,150,175,200	24	44	120	29	39	77	6	M6×1.0

#### MGPG Slide bearing

Bore size	A				DB	E		
	50st≥	50st< 100st≥	100st<	50st≥		50st< 100st≥	100st<	
12	42	60.5	85	8	0	18.5	43	
16	46	64.5	95	10	0	18.5	49	

#### MGPL Ball bushing bearing

Bore size	A			DB	E		
	30st≥	30st< 100st≥	100st<		30st≥	30st< 100st≥	100st<
12	43	55	85	6	1	13	43
16	49	65	95	8	3	19	49

#### MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st< 200st≥	200st<		50st≥	50st< 200st≥	200st<
20	53	84.5	122	16	0	31.5	69
25	53.5	85	122	20	0	31.5	68.5

#### MGPL Ball bushing bearing

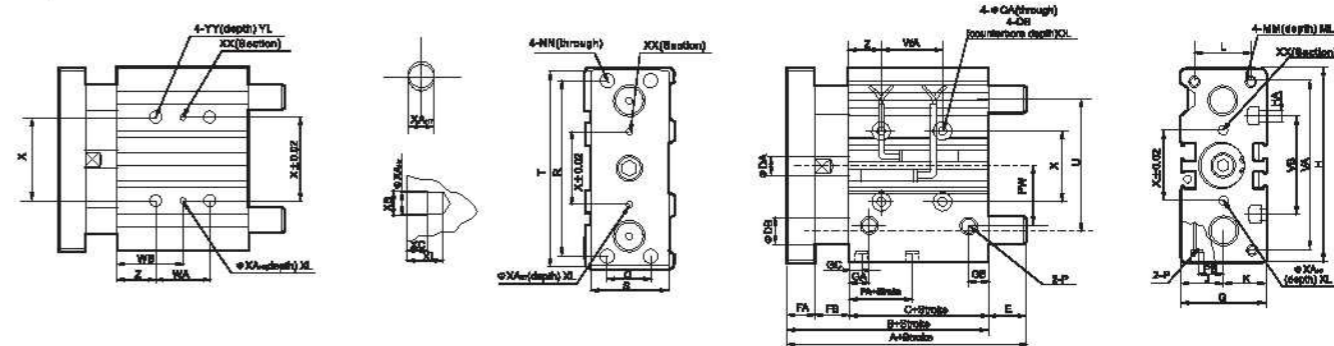
Bore size	A				DB	E			
	30st≥	30st< 100st≥	100st< 200st≥	200st<		30st≥	30st< 100st≥	100st< 200st≥	200st<
20	63	80	104	122	10	10	27	51	69
25	69.5	80.5	104.5	122	13	16	32	51	68.5



### MGP Series Three-Shaft Cylinder

#### Overall Dimensions

φ 32-φ 63



#### MGPM, MGPL Common Dimensions Sheet

Bore size	Standard stroke(mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA
32	25,50,70,100, 125,150,175,200	59.5	37.5	16	12	10	48	12.5	9	12.5	112	M6	24	24	34	M8×1.25	20	M8×1.25	6.6
40		66	44	18	12	10	54	14	10	14	120	M6	27	27	40	M8×1.25	20	M8×1.25	6.6
50		72	44	20	18	12	64	14	11	12	148	M8	32	32	48	M10×1.5	22	M10×1.5	8.8
63		77	49	20	16	12	78	16.5	13.5	16.5	162	M10	39	39	58	M10×1.5	22	M10×1.5	8.6

Bore size	Standard stroke(mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	XL	Z
32	25,50,70,100, 125,150,175,200	11	7.5	RC1/8	7	15	34	30	96	44	110	78	98	63	42	4	4.5	3	6	21
40		11	7.5	RC1/8	13	18	38	30	104	44	118	86	106	72	50	4	4.5	3	6	22
50		14	9	RC1/4	9	21.5	47	40	130	60	148	110	130	92	66	5	6	4	8	24
63		14	9	RC1/4	14	28	55	50	130	70	158	124	142	110	80	5	6	4	8	24

Bore size	Standard stroke(mm)	WA			WB			YY	YL
		25 st	50,75,100 st	100 st or above	25 st	50,75,100 st	100 st or above		
32	25,50,70, 100,125, 150,175,200	24	48	124	33	45	83	M8×1.25	16
40		24	48	124	34	46	84	M8×1.25	16
50		24	48	124	36	48	86	M10×1.5	20
63		28	52	128	38	50	88	M10×1.5	20

#### MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st<200st≥	200st<		50st≥	50st<200st≥	200st<
32	97	102	140	20	37.5	42.5	80.5
40	97	102	140	20	31	36	74
50	106.5	118	161	25	34.5	46	89
63	106.5	118	161	25	29.5	41	84

#### MGPL Ball bushing bearing

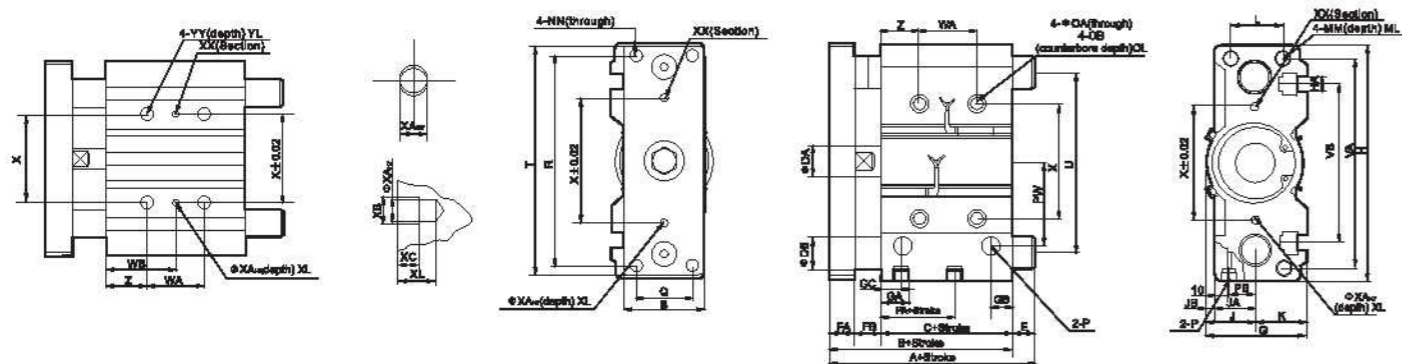
Bore size	A				DB	E			
	50st≥	50st<100st≥	100st<200st≥	200st<		50st≥	50st<100st≥	100st<200st≥	200st<
32	81	98	118	140	16	21.5	38.5	58.5	80
40	81	98	118	140	16	15	32	52	74
50	93	114	134	161	20	21	42	62	89
63	93	114	134	161	20	16	37	57	84



### MGP Series Three-Shaft Cylinder

#### Overall Dimensions

φ80~φ100



#### Dimension sheet

Bore size	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	LA	JB	K	L	MM	ML	NN	OA
80	20,50, 75, 100,125, 150,175,200	95.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5	46	54	M12×1.75	30	M12×1.75	10.6
100	150,175,200	116	66	30	25	25	111.5	23	19	18	240	M14	55.5	45	10.5	56	62	M14×2.0	32	M14×2.0	12.5

Bore size	Standard stroke (mm)	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	X	XA	XB	XC	XL	Z
80	20,50, 75, 100,125, 150,175,200	17.5	8	RC3/8	14.5	25.5	74	52	174	75	198	156	180	140	100	6	7	5	10	28
100	150,175,200	20	8	RC3/8	17.5	32.5	89	64	210	90	236	188	210	168	124	8	7	5	10	11

Bore size	Standard stroke (mm)	WA			WB			YY	YL
		25 st	50,75,100 st	100 st or above	25 st	50,75,100 st	100 st or above		
80	20,50, 75, 100,125, 150,175,200	28	52	128	42	54	92	M12×1.75	24
100	150,175,200	48	72	148	35	47	85	M14×2.0	28

#### MGPM Slide bearing

Bore size	A			DB	E		
	50st≥	50st<200st≥	200st<		50st≥	50st<200st≥	200st<
80	115	142	193	30	18.5	45.5	96.5
100	137	162	203	36	21	46	87

#### MGPL Ball bushing bearing

Bore size	A				DB	E			
	50st≥	25st<50st≥	50st<200st≥	200st<		50st≥	25st<50st≥	50st<200st≥	200st<
80	109.5	130	160	193	25	13	33.5	63.5	96.5
100	121	147	180	203	30	5	31	64	87

### RSQ Series Stopper Cylinder(Fixed Mounting height)



#### Ordering Code

<b>RSQ</b>	<b>B</b>	<b>20</b>	<b>15</b>	<b>D</b>	<b>R</b>
<b>Series Code</b> RSQ:Basic Type RSDQ:Magnet Within Type	<b>Installation</b> B:hole A:Internal thread both ends	<b>Cylinder Bore</b> 12mm 16mm 20mm 32mm 40mm 50mm	<b>Stroke</b>	<b>Action</b> D:Double action S:Single action (with spring return) T:Single action (with spring extent)	<b>Rod end Type</b> Blank:Round bar type(φ20-φ50) K:Chamfered Type(φ20-φ50) R:Roller type(φ20-φ50) L:Level type with shock absorber(φ32-φ50) B:Level type with adjustable shock absorber(φ32-φ50) C:Level type with adjustable shock absorber, with cancel cap(φ32-φ50) D:Level type with adjustable shock absorber, with lock mechanism(φ32-φ50) E:Level type with adjustable shock absorber, with cancel cap & lock(φ32-φ50)

#### Specification

Bore(mm)	12	16	20	32	40	50
Motion Pattern	Double acting,Double acting with spring loaded,Single acting(Spring extend)					
Fluid	Air					
Ensured Pressure Resistance	1.5Mpa(15.3kgf/cm <sup>2</sup> )					
Max.pressure	1.0Mpa(10.2kgf/cm <sup>2</sup> )					
Ambient and fluid temperature	-10~+70°C With auto switch:No freezing +60°C					
Buffering	Rubber bumper					
Tolerance of stroke	+1.4(mm) 0					
*Lubrication	Not required					
Mounting	Through-hole,Both ends tapped common					
Port size	M5×0.8			RC(PT1/8)		

#### Model

Bore size (mm)	12	16	20	32	40	50
Mounting	Through-hole	●	●	●	●	●
	Both ends tapped style	●*	●	●	●	●
Built-in magnet	●	●	●	●	●	●
Piping	Screw-In type	M5×0.8			Rc 1/8	
	Built-in One-touch fittings	-			φ 6/4	φ 8/6
Action	Double acting Single acting(Single extend),Double acting with spring loaded					
Rod end configuration	Round bar	●	●	●	●	●
	Chamfered	●	●	●	●	●
	Roller type	●	●	●	●	●
	Lever type	-	-	-	●	●

φ12 tubes can have both through-hole and tap mountings in the same tube.

#### Standard stroke

Bore size (mm)	Rod end configuration		
	Round bar,Chamfered type	Roller type	Lever type with shock absorber
12	10	10	-
16	10,15	10,15	-
20	10,15,20	10,15,20	-
32			10,15,20
40	20,25,30	20,25,30	20,25,30
50			20,25,30



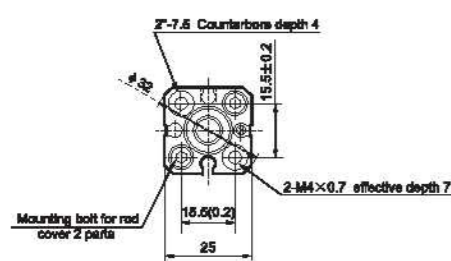
### RSQ Series Stopper Cylinder(Fixed Mounting height)

#### Overall Dimensions

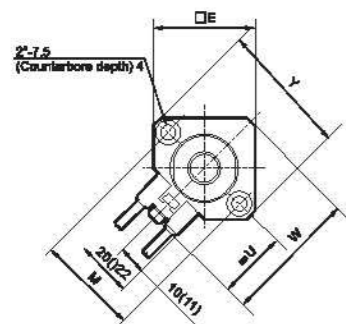
Basic style: Through-hole mounting, Screw mounting

These 5 figures show the piston rod extended.

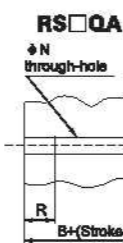
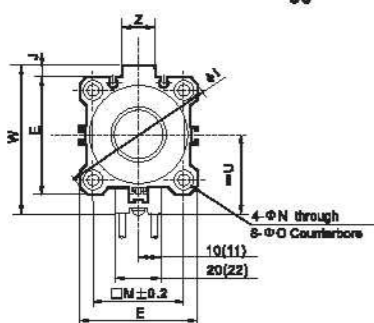
Bore size:  $\phi 12$  RS□QB12-10□



Bore size:  $\phi 16, \phi 20$  RS□QB 16/20 □-□□

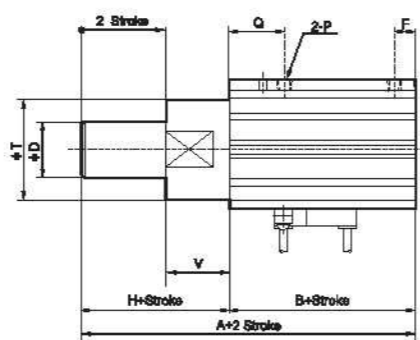
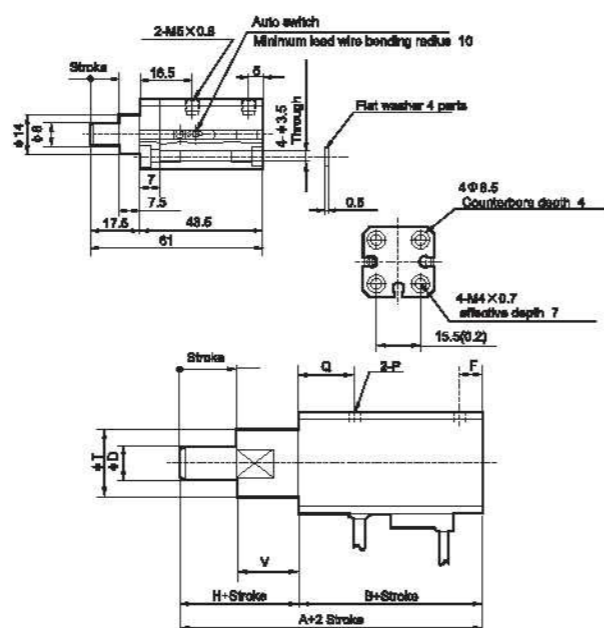


Bore size:  $\phi 32, \phi 40, \phi 50$  RS□QB 32/40/50 □-□□



Screw mounting style: Both ends tapped style (mm)

Model	B	N	Q1	R
RS□QA16	41.5	3.5	M4×0.7	7
RS□QA20	45	5.5	M6×1	10
RS□QA32	48	5.5	M6×1	10
RS□QA40	52.5	5.5	M6×1	10
RS□QA50	54	6.6	M8×1.25	14



#### Dimension Sheet

Bore size (mm)	A	B	D	E	F	G	H	I	M	N	O Counterbore	P	Q	T	U	V	W	Y	Z	
16	59.5	41.5	10	29	6	3	18	-	28	3.5	6.5 depth 4	M5×0.8	17	20	22.5	18	41.5	38	-	
20	67	45	12	36	8	4	22	-	36	5.5	9 depth 7	Rc 1/8	20	24	24.5	22	48	47	-	
32	68	48	20	45	7.5	8	20	60	4.5	34	5.5	9 depth 7	Rc 1/8	20	36	31.5	20	58.5	-	14
40	80.5	52.5	25	52	8	10	28	69	5	40	5.5	9 depth 7	Rc 1/8	24.5	44	35	28	66	-	14
50	82	54	25	64	8	10	28	86	7	50	6.6	11 depth 8	Rc 1/8	24.5	56	41	28	80	-	19

Note1) Dimensions without auto switch are the same as drawing above.  
 Note2) These figures show the dimensions when equipped with D-A 73 or D-A 80 auto switches.  
 Note3) These figures show the piston rod extended.

### XCK Series Clamping Cylinder



Welding equipment for automotive use

1. Disassemble
2. Light weight and Compact
3. No Lubrication
4. Build-in speed control
5. No need dust cover
6. Can be used for welding equipment which used to generate the electromagnetics

Width of earring	Model		A
	XCK63	XCK50	
16.5mm XMN Series	XCK63-B	XCK50-B	16.5
19.5mm XMNB Series	XCK63-B	XCK50-B	19.5

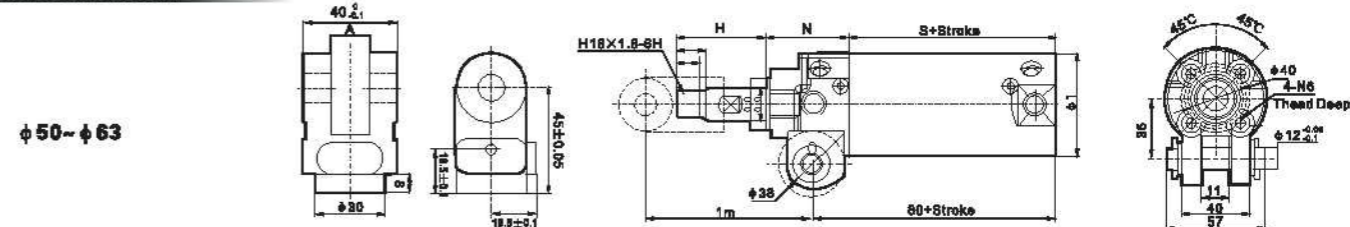
#### Ordering Code

**XCK** — **50** × **100** — **S** — **B**  
 Series Code — Cylinder Bore — Stroke (50mm-63mm) — Magnet Code (Blank: No Magnet, S: Magnet inside) — Width of earring (Blank: 16.5mm, B: 19.5mm)

#### Specification

Bore(mm)	40	50	63
Working Medium	Air		
Ensured Pressure Resistance	1.5Mpa(15kgf/cm <sup>2</sup> )		
Max.Working pressure	1.0Mpa(10kgf/cm <sup>2</sup> )		
Min.Working pressure	0.1Mpa(1kgf/cm <sup>2</sup> )		
Temperature Range	-5~60℃		
Piston Speed	50~500mm/s		
Air Buffer	Yes		
Lubrication	No Need		
Thread Tolerance	6H		
Stroke Tolerance	+1.6 0 (mm)		
Speed Controller	Yes		
Mounting Type	Double Ear Ring		
Rc(PT)Port size	G1/4"		

#### Overall Dimensions



Bore size (mm)	H	$\phi 1$	L	N	S
50	52	58	97	49	58
63	52	72	97	49	58

#### N Type(Standard)

Code	H					L					
	Stroke(mm)	50	75	100	125	150	50	75	100	125	150
Bore (mm)	50	52	62	70	83	83	97	107	115	128	128
	63	52	62	70	83	83	97	107	115	128	128



### MSQ Series Rotary Table, Rack & Pinion Cylinder



MSQB 20-A



MSQB 30-A

#### Ordering Code

**MSQ** — **B** × **10** — **A** — **S**  
 Series Code    Basic Type    Size Code (10mm~200mm)    A: With Adjustable Angle Screw / R: With Shock Absorber    Always with magnet

#### Specification

Bore(mm)		10	20	30	50	70	100	200
Fluid		Air(non-lube)						
Max.pressure	With adjustment bore	1Mpa(10.2kgf/cm <sup>2</sup> )						
	R:With Shock Absorber	0.6MPa(6.1kgf/cm <sup>2</sup> )注/Note						
Min.pressure	Basic type	0.1Mpa(1.0kgf/cm <sup>2</sup> )						
	High precision type	0.2Mpa	0.1Mpa					
Ambient and fluid temperature		0~60℃(No freezing)						
Cushion	With adjustment bore	Rubber bumper						
	R:With Shock Absorber	Shock absorber						
Angle adjustment range		0~190℃						
Maximum rotation		190℃						
Piston bore		φ15	φ18	φ21	φ25	φ28	φ32	φ40
Port size	End ports	M5×0.8			RC1/8"			
	Side ports	M5×0.8						

■ Note: The maximum operating pressure of the actuator is restricted by the maximum allowable thrust of the shock absorber.

#### Allowable Kinetic Energy and Rotation Time Adjustment Range

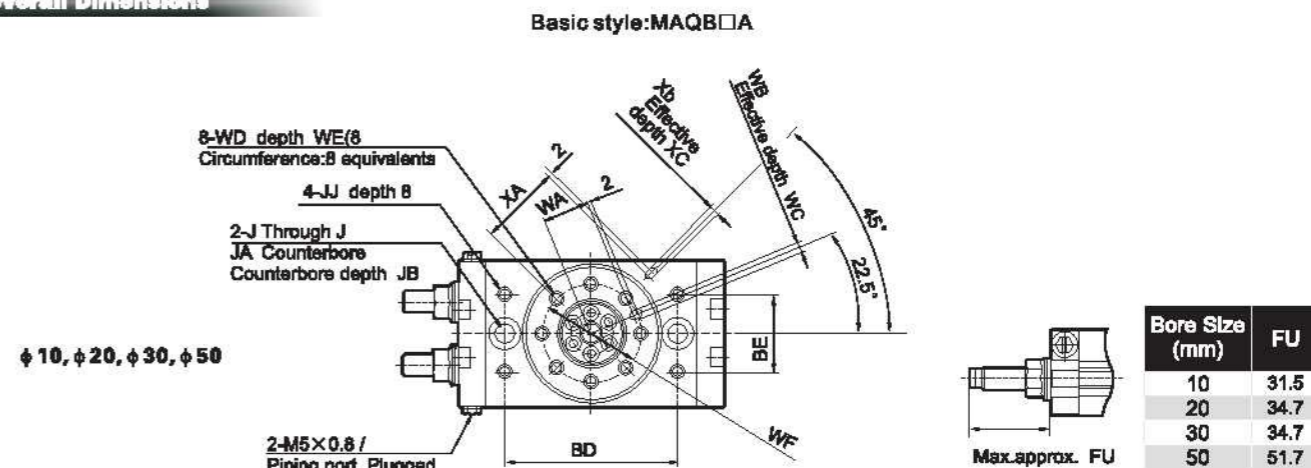
Size	Allowable kinetic energy(mJ)		Rotation time adjustment range for stable operation (s/90°)	
	With adjustment bolt	With Internal shock absorber	With adjustment bolt	With Internal shock absorber <sup>(Note)</sup>
10mm	7	39	0.2 to 1.0	0.2 to 0.7
20mm	25	116		
30mm	48	116		
50mm	81	294	0.2 to 1.5	0.2 to 1.0
70mm	240	1100		
100mm	320	1600	0.2 to 2.0	0.2 to 1.0
200mm	560	2900		

■ Note: Be careful if a type with internal absorber is used below the minimum speed, the energy absorption ability will decrease drastically.

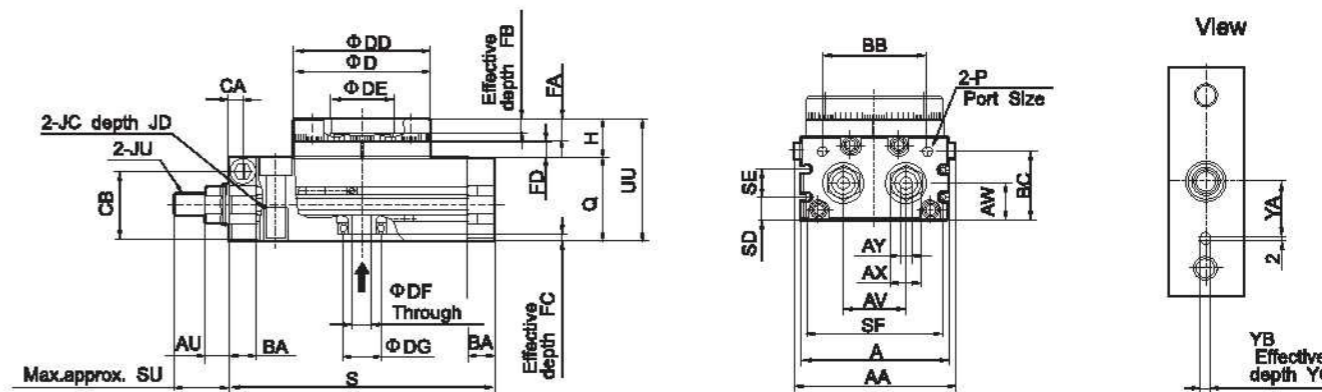


### MSQ Series Rotary Table, Rack & Pinion Cylinder

#### Overall Dimensions



#### With internal shock absorber MAQB□R



#### Dimension Sheet

Bore size(mm)	AA	A	AU	AV	AW	AX	AY	BA	BB	BC	BD	BE	CA	CB	D	DD	DE	DF
10	55.4	50	8.6	20	15.5	12	4	9.5	34.5	27.8	80	27	4.5	28.5	46h9	46h9	20H9	5
20	70.8	65	10.6	27.5	16	14	5	12	46	30	67	34	6	30.5	60h9	61h9	28H9	9
30	75.4	70	10.6	29	18.5	14	5	12	50	32	84	37	6.5	33.5	65h9	67h9	32H9	9
50	85.4	80	14	38	22	19	6	15.5	63	37.5	100	50	10	37.5	75h9	77h9	35H9	10

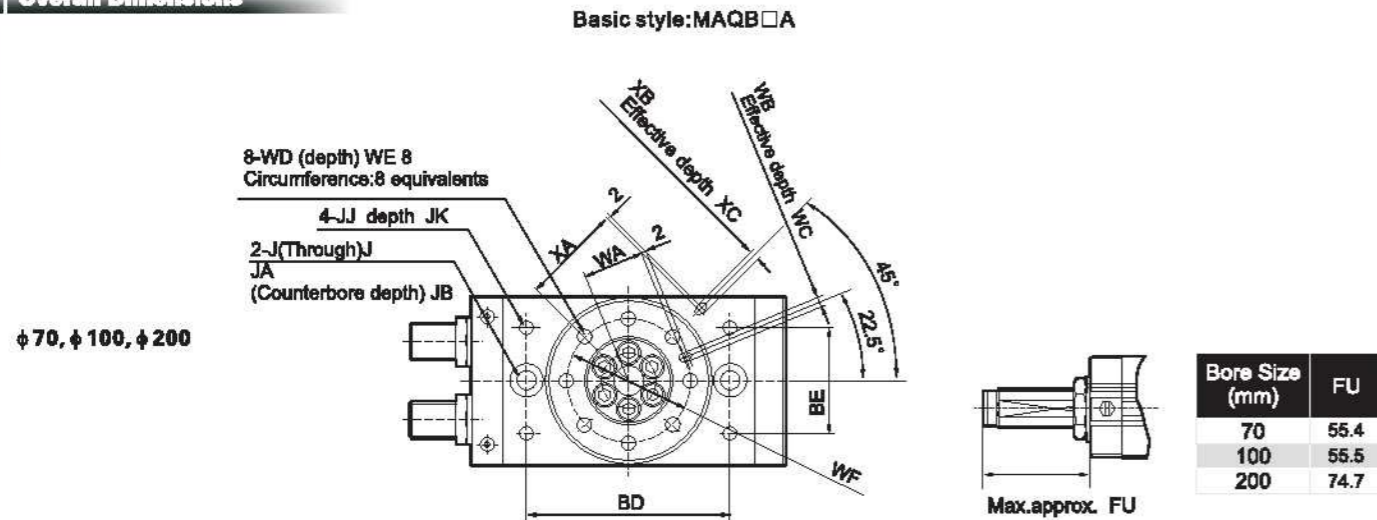
Bore size(mm)	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JU	P
10	15H9	8	4	3	4.5	13	6.8	11	6.6	M8×1.25	12	M5×0.8	M8×1	M5×0.8
20	17H9	10	6	2.5	6.5	17	8.6	14	8.5	M10×1.5	15	M6×1	M10×1	M5×0.8
30	22H9	10	4.5	3	6.5	17	8.8	14	8.5	M10×1.5	15	M6×1	M10×1	Rc 1/8
50	26H9	12	5	3	7.5	20	10.5	18	10.5	M12×1.75	18	M8×1.25	M14×1.5	Rc 1/8

Bore size(mm)	Q	S	SD	SE	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
10	34	92	9	13	45	17.7	47	15	3H9	3.5	M5×0.8	8	32	27	3H9	3.5	19	3H9	3.5
20	37	117	10	12	60	25	54	20.5	4H9	4.5	M6×1	10	43	36	4H9	4.5	24	4H9	4.5
30	40	127	11.5	14	65	25	57	23	4H9	4.5	M6×1	10	48	39	4H9	4.5	28	4H9	4.5
50	48	152	14.5	15	75	31.4	66	26.5	5H9	5.5	M8×1.25	12	55	45	5H9	5.5	33	5H9	5.5

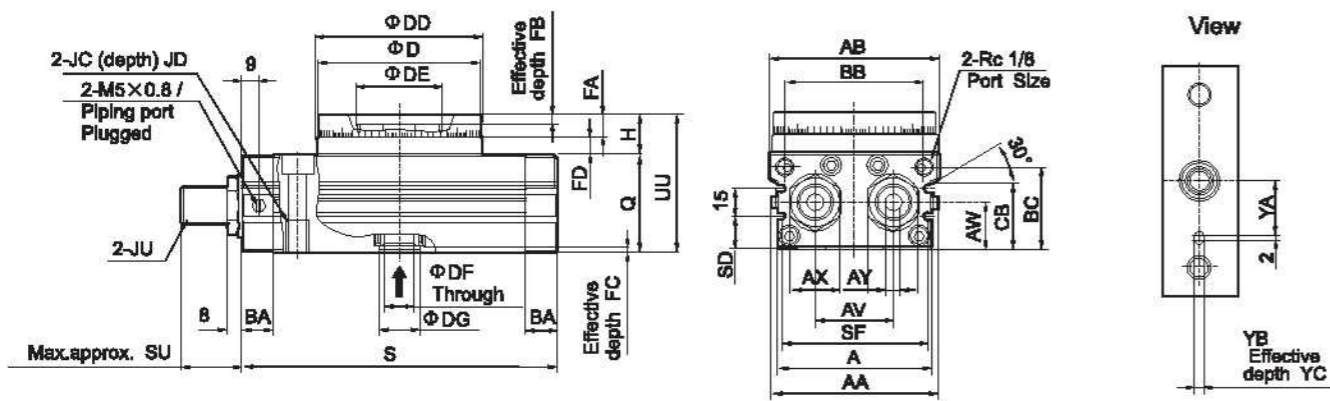


### MSQ Series Rotary Table, Rack & Pinion Cylinder

#### Overall Dimensions



With shock absorber MAQB□R



#### Dimension Sheet

Bore size(mm)	AA	AB	A	AV	AW	AX	AY	BA	BB	BC	BD	BE	CB	D	DD	DE
70	90	92	84	42	25.5	27	8	17	75	44.5	110	57	36	88h9	90h9	46H9
100	101	102	95	50	29.5	27	8	17	85	50.5	130	68	42	98h9	100h9	56H9
200	119	120	113	60	38.5	36	10	24	103	65.5	150	80	57	118h9	118h9	64H9

Bore size(mm)	DF	DG	FA	FB	FC	FD	H	J	JA	JB	JC	JD	JJ	JK	JU
70	16	22H9	12.5	5	3.5	6	22	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
100	19	24H9	14.5	8	3.5	12	27	10.4	17.5	10.5	M12×1.75	18	M8×1.25	10	M20×1.5
200	24	32H9	16.5	9	5.5	15	32	14.2	20	12.5	M16×2	25	M12×1.75	13	M27×1.5

Bore size(mm)	Q	S	SD	SF	SU	UU	WA	WB	WC	WD	WE	WF	XA	XB	XC	YA	YB	YC
70	53	170	18	79	34.2	75	32.5	5H9	5.5	M8×1.25	12.5	67	54	5H9	3.5	39	5H9	3.5
100	58	189	22	90	34.3	86	37.5	6H9	6.5	M10×1.55	14.5	77	58	6H9	4.5	49	6H9	4.5
200	74	240	29	108	40.2	108	44	8H9	8.5	M12×1.75	16.5	90	69	8H9	4.5	54	8H9	6.5



### XHZ2/XHC2 Series Style Pneumatic Gripper



#### Ordering Code

<b>XHZ</b>	—	<b>2</b>	×	<b>32</b>	—	<b>D</b>	—	□	
<b>Model</b>	XHZ:XHZ Parallel Type Gripper XHC:XHC Point Type Gripper	<b>Finger Quantity</b>	2PCS	<b>Bore</b>	6mm-40mm	<b>Acting Type</b>	D:Double-acting S:Single-acting(Normally open) C:Single-acting(Normally closed)	<b>Dusty Seal Material</b>	Blank:CR F:FKM S:Si

#### Specification

Bore(mm)	6	10	16	20	25	32	40
Fluid	Air						
Motion Pattern	Double-acting, single acting(Normally open/Normally closed)						
Max.pressure MPa	0.7MPa						
Max.pressure Mpa	Double Acting	0.15	0.2			0.1	
	Single Acting	0.3	0.35			0.25	
Ambient and fluid temperature	-10~60°C						
Max.operating frequency	180 c.p.m					60 c.p.m	
Repeatability Precision(mm)	±0.01					±0.02	
*Lubrication	Not required						
Port Size	M3×0.5					M3×0.8	

### XHL2 Series Parallel style wide Opening Air Gripper



#### Ordering Code

<b>XHL</b>	—	<b>2</b>	×	<b>16</b>	—	<b>D</b>	—	□	—	<b>S</b>
<b>Model</b>	XHL:XHL wide Opening Air Gripper	<b>Finger Quantity</b>	2PCS	<b>Bore</b>	10mm-40mm	<b>Action</b>	D:Double-Acting	<b>Finger Open/Close Stroke</b>		<b>Always with magnet</b>

Bore	φ10	φ16	φ20	φ25	φ32	φ40
Blank	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

#### Specification

Bore(mm)	10	16	20	25	32	40
Fluid	Air					
Motion Pattern	Double-Acting					
Max.pressure Mpa(kgf/cm <sup>2</sup> )	0.6(6.1)					
Max.pressure Mpa(kgf/cm <sup>2</sup> )	0.15(1.5)	0.1(1.0)				
Ambient and fluid temperature	-10~60°C					
Repeatability Precision(mm)	±0.1mm					
Effective gripping force (N) at 0.5 Mpa	14	45	74	131	228	396
Port Size	M5×0.8					G1/8"





### XHT2 Series Angle Style Air Gripper Toggle Type



**Ordering Code**

**XHT** — **2** × **32** — **D** — **S**

**Model**  
XHT:XHT ToggleType  
Air Gripper

**Finger Quantity**  
2PCS

**Cylinder Diameter**  
32mm-63mm

**Action**  
D:Double-Acting

**Always with magnet**

#### Specification

Model	MHT2-32D	MHT2-40D	MHT2-50D	MHT2-63D
Bore size	32	40	50	63
Motion Pattern	Double acting			
Fluid	Air			
Operating Voltage Range	0.1~0.6 MPa			
Ambient and fluid temperature	5~60°C			
Lubrication	Not required			
Finger opening angle (Total)	-3° ~28°	-3° ~27°	-2° ~23°	-2° ~23°
Weight (kg)	0.80	1.09	1.93	2.8
Effective gripping force (N.m) at 0.5 Mpa	12.4	36.0	63.0	106

### CY1 Series Rodless Cylinder



**Ordering Code**

**CY1** — **B** — **25** × **50** — **B**

**Series Code**  
Rodless Cylinder

**Model**  
B:Normal Type  
S:Sliding Type  
L:Sliding Type Ball  
guide bearing Type  
R:Magnetically Coupled-  
Direct Mout type  
RG:Magnetically  
Coupled-Direct  
mout-Single Joint Type

**Cylinder Bore**  
6mm  
10mm  
15mm  
20mm  
25mm  
32mm  
40mm  
50mm  
63mm

**Stroke**  
0~1000mm

**Magnet Code**  
Blank:Without magne  
B:Attach magnet

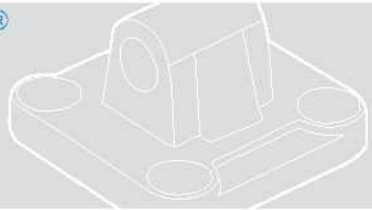
#### Specification

Bore(mm)	6	10	15	20	25	32	40	50	63
Working Medium	Air								
Motion Pattern	Double action								
Ensured Pressure Resistance	10.5kgf/cm <sup>2</sup> (1.05Mpa)								
Max.pressure	7.1kgf/cm <sup>2</sup> (0.7Mpa)								
Min.pressure	1.8kgf/cm <sup>2</sup> (0.18Mpa)								
Ambient and fluid temperature	Cy1 B/S:5~+80°C			Cy1 L:-10~+60°C			Cy1 R:-10~+80°C		
Piston Speed	Cy1 B/S:50~400mm/s			Cy1 L:50~1000mm/s			Cy1 R:50~500mm/s		
Buffering	Cy1 B/S:Both ends buffer			Cy1 L: Shock absorber/Rubber bumper					
Margin of Stroke Error(mm)	~0~250 <sup>mm</sup>			251~1000 <sup>mm</sup>			1001~1500 <sup>mm</sup>		
**Lubrication	Not required								
Part size	M5×0.8			G1/8"			G1/4"		

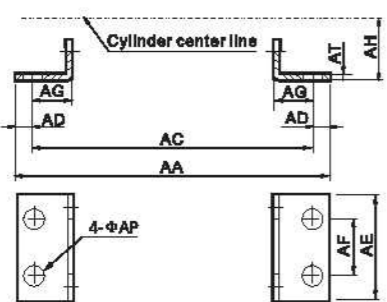
## Cylinder Accessories

Cylinder accessories include the mounting parts to fix the air cylinder, made by aluminum or steel. They are available for Standard Cylinders and Mini Cylinders. Magnetism Switch are used as sensor which connected with PLC, to recognize the position of piston inside of air cylinder.



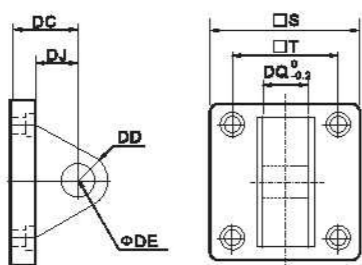


### ISO 6431 Standard Cylinder Accessories



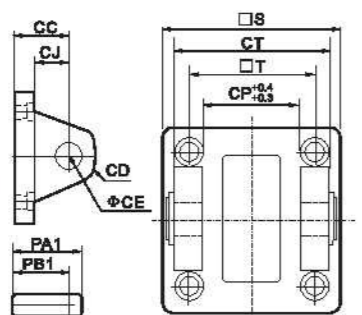
Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	288	290	340	380
AC	142	161	170	185	210	228	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	47	53	65	75	95	115	140	180	220
AF	32	38	45	50	63	75	90	115	135
AG	24	28	32	32	41	45	45	60	70
AH	32	36	45	50	63	71	80	115	135
AP	7	9	9	9	12	14.5	16.5	18.5	24
AT	3	3	3	3	4	4	6	6	9

ISO-LB Type Foot Bracket



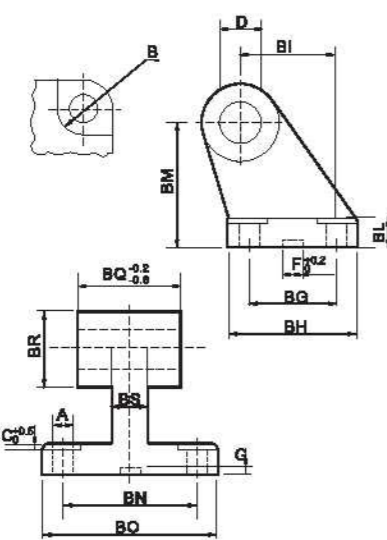
Symbol/Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
DE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	36
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

Single Earring



Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
CE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	80.5	110.5	130.5	170.5	170.5
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175

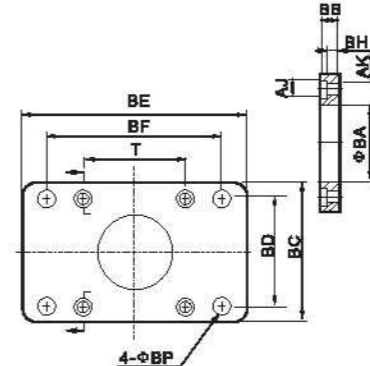
Double Earring



Symbol/Bore	32	40	50	63	80	100	125
A	6.6	6.6	9	9	11	11	14
B	11	11	15	15	18	18	20
BG	18	22	30	35	40	50	60
BH	31	35	45	50	60	70	90
BI	21	24	33	37	47	55	70
BL	8	10	12	14	14	17	20
BM	32	36	45	50	63	71	90
BN	36	41	50	52	66	76	94
BO	51	54	65	67	86	96	124
BS	10	15	16	16	20	20	30
BR	20	22	26	30	30	38	45
C	1.6	1.6	1.6	1.6	2.5	2.5	3.2
D	10	12	12	16	16	20	25
F	10.5	10.5	10.5	10.5	10.5	10.5	10.5
G	3	3	3	3	3	3	3
BQ	26	28	32	40	50	60	70

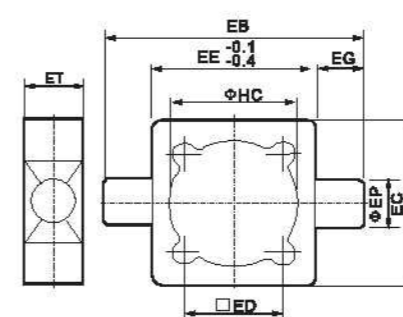
ISO-SDB Type

### ISO 6431 Standard Cylinder Accessories



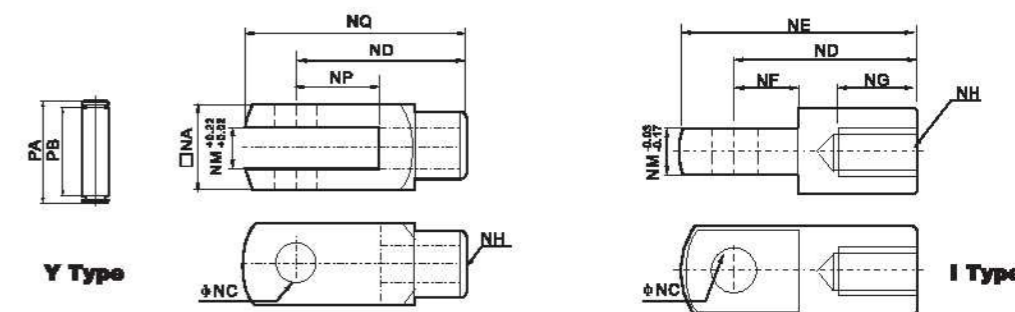
Symbol/Bore	32	40	50	63	80	100	125	160	200
AJ	11	11	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
BA	30.5	35.5	40.5	45.5	45.5	55.5	60.5	65.5	75.5
BB	10	10	12	12	16	16	20	20	25
BC	47	53	65	75	95	115	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	4	4	4	6	6	6	8	8	12
BP	7	9	9	9	12.5	14.5	16.5	18.5	24
T	32.5	38	46.5	56.5	72	89	110	140	175

ISO-FA/FB Type Flange



Symbol/Bore	32	40	50	63	80	100
EB	100	113	125	140	160	182
EC	52	63	74	80	105	128
ED	32.5	38	46.5	56.5	72	89
EE	52	63	75	90	105	128
EG	25	25	25	25	25	25
EP	12	16	16	20	20	25
ET	20	22	22	28	28	34
HC	37	45	55	68	87	107.5

ISO-SI-TC



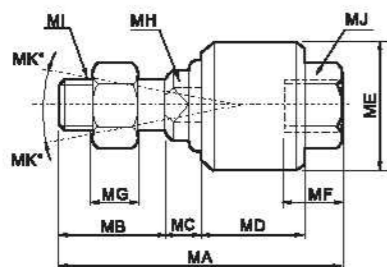
ISO-Y+Pin ISO-Y+Clip

Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	55	70	70
NC	10	12	16	16	20	20	30	35	35
ND	40	48	64	64	80	80	110	144	144
NE	52	67	89	89	112	112	155	201	201
NF	15	24	32	32	40	40	50	50	55
NG	20	20	23	23	30	30	56	72	72
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2.0	M36×2.0	M36×2.0
NM	10	12	16	16	20	20	30	35	35
NP	20	24	32	32	40	40	54	72	72
NQ	52	62	83	83	105	105	148	191	191
PA	28.2	32.8	39.3	39.3	53.3	53.3	64	80	80
PB	20	26.5	33	33	45	45	55.6	70.6	70.6

ISO-I Joint

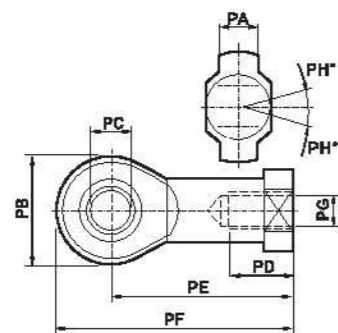


### ISO 6431 Standard Cylinder Accessories



Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MK
32	58	22	7	21	26	11.5	7	10	M10×1.25	12
40	58	22	8	21	28	11.5	8	12	M12×1.25	12
50	90	27	10	41	44.5	20	10	17	M16×1.5	7
63	90	27	10	41	44.5	20	10	17	M16×1.5	7
80	102	29	13	46	53	24	13	22	M20×1.5	10
100	102	29	13	46	53	24	13	22	M20×1.5	10
125	147	54	13	64	62	39	14	30	M27×2.0	8
160	147	43	23	58	88	35	13.5	36	M36×2.0	15
200	147	43	23	58	88	35	13.5	36	M36×2.0	15

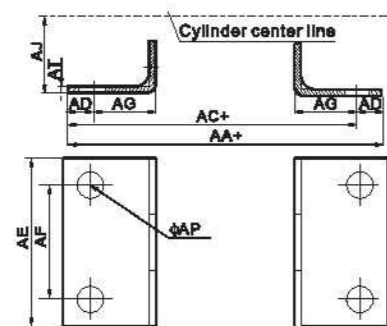
ISO-UJ Type Float Joint



Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH
32	11	26	10	21	43	56	M10×1.25	13
40	12	30	12	24	50	65	M12×1.25	13
50	15	38	16	33	64	83	M16×1.5	15
63	15	38	16	33	64	83	M16×1.5	15
80	18	46	20	40	77	100	M20×1.5	15
100	18	46	20	40	77	100	M20×1.5	15
125	37	70	30	51	110	145	M27×2.0	15
160	43	80	35	56	125	165	M36×2.0	16
200	43	80	35	56	125	165	M36×2.0	16

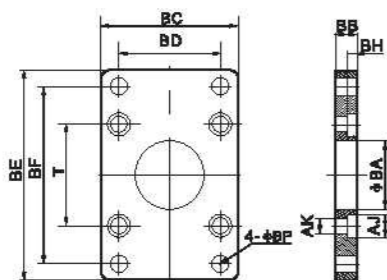
ISO-PHS Type Fish eye Joint

### Standard Cylinder Accessories



Symbol/Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	199	210	249	328	380
AC	134	140	149	158	167	174	213	288	320
AD	9.5	14.5	12	13	16	18	18	20	30
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	48	57	80	115	135
AP	9	12	12	12	14	14	18	18	22
AT	3	3	3	3	4	4	8	8	10

LB Type Foot Bracket

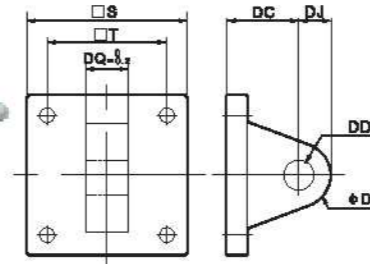


Symbol/Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81
BB	10	10	10	12	16	16	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20
AJ	10.5	10.5	13.5	13.5	5	5	19	25	25
AK	6.5	6.5	6.5	8.5	10.5	10.5	12.5	16.5	16.5
BP	7	7	9	9	11	11	16	18	22
T	33	37	47	56	70	84	110	140	175

FA/FB Type Flange

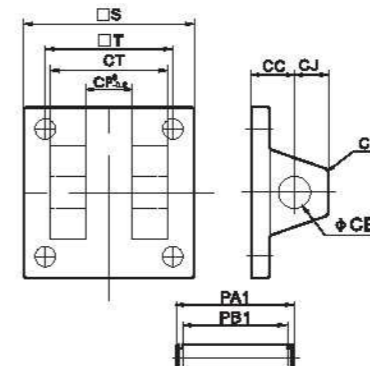


### Standard Cylinder Accessories



CA Type Single Earring

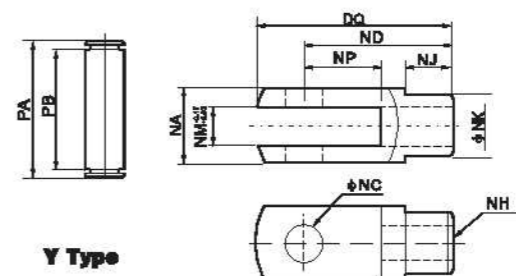
Symbol/Bore	32	40	50	63	80	100	125	160	200
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175
DC	34	34	34	34	48	48	50	55	60
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90



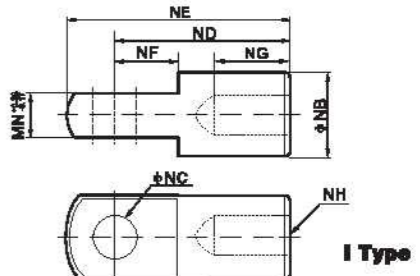
CB + Pin Type Double Earring

Symbol/Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	2	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	160	160
PA1	41	51.8	60.3	60.3	73.8	73.8	130	170	170
PB1	33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175

Note: CA and CB From 32-100, we can supply two kinds of materials products: 1. Iron 2. Aluminium. When placing order, please indicate product material. From 125-200 are all iron.



Y+Pin Type Joint



I Type

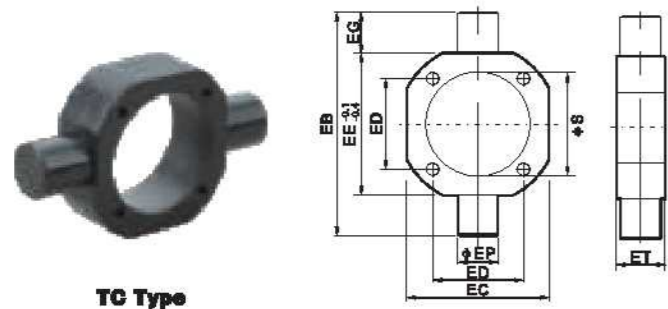


I Type Joint

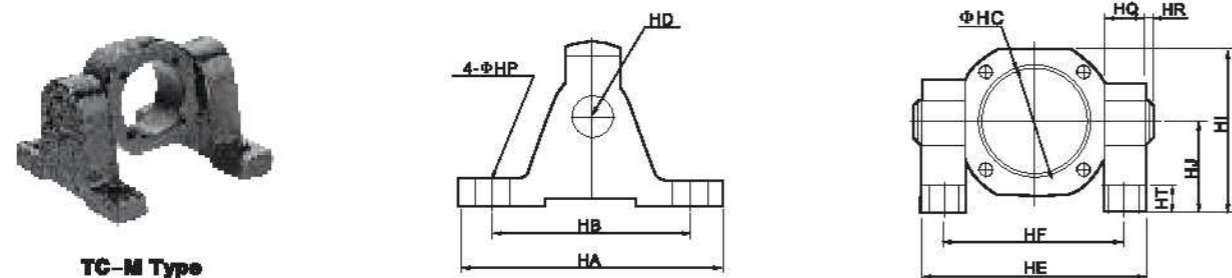
Symbol/Bore	32	40	50	63	80	100	125	160	200
NA	19	25.4	32	32	44.4	44.4	55	80	80
NB	20	24	32	32	40	40	45	54	54
NC	10	12	16	16	20	20	25	30	30
ND	40	48	64	64	80	80	110	120	120
NE	52	67	89	89	112	112	155	130	130
NF	15	24	32	32	40	40	40	35	35
NG	20	20	23	23	30	30	56	50	50
NH	M10×1.25	M12×1.25	M16×1.5	M16×1.5	M20×1.5	M20×1.5	M27×2	M36×2	M36×2
NJ	12	20	22	22	30	30	30	40	40
NK	18	23	30	30	38	38	54	54	54
NM	10	12	16	16	20	20	48	40	40
MP	20	24	32	32	40	40	64	35	35
NQ	52	62	83	83	105	105	148	150	150
PA	25	32.8	39.3	39.3	53.3	53.3	64	91	91
PB	19.5	26.5	33	33	45	45	55	81	81



### Standard Cylinder Accessories

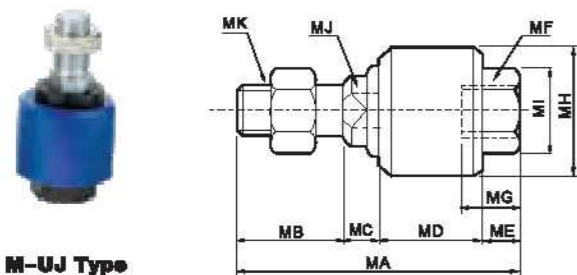


Symbol/Bore	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	338
EC	63	76	88	114	132	160	200	240
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	240
EG	25	25	25	25	25	25	32	48
EP	25	25	25	25	25	25	32	37
ET	30	30	30	30	40	30	38	44
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

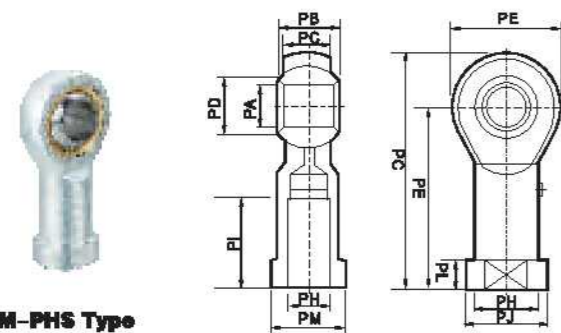


Symbol/Bore	HA	HB	HC	HD	HE	HF	HI	HJ	HQ	HR	HT	HP
40	110	80	45.5	22	109	86	81.5	50	23	2	12	12
50	110	80	55.5	22	122	99	88	50	23	2	12	12
63	110	80	68.5	22	134	111	94	50	23	2	12	12
80	120	85	87.5	22	160	137	127	70	23	2	14	14
100	120	85	107.5	22	178	155	136	70	23	2	14	14

### Mini Cylinder Accessories

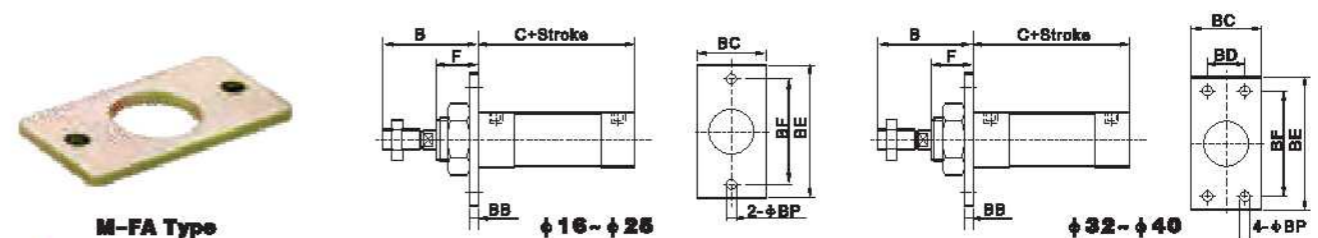


Symbol/Bore	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20	51	20	6	17	8	M8×1.25	12	24	13	8	M8×1.25
25	58	22	7	21	8	M10×1.25	12	26	17	10	M10×1.25
32	58	22	7	21	8	M10×1.25	12	26	17	10	M10×1.25
40	58	22	8	21	7	M12×1.25	12	28	19	12	M12×1.25



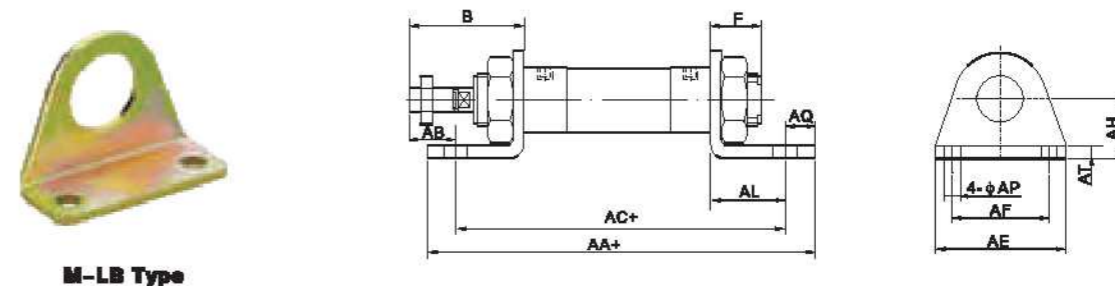
Symbol/Bore	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM
20	8	12	9	10.4	22	36	47	M8×1.25	17	16	12.5	5	14
25	10	14	11	12.9	26	43	58	M10×1.25	21	19	15	6.5	17
32	10	14	11	12.9	26	43	58	M10×1.25	21	19	15	6.5	17
40	12	16	12	15.4	30	50	65	M12×1.25	24	22	17.5	6.5	19

### Mini Cylinder Accessories

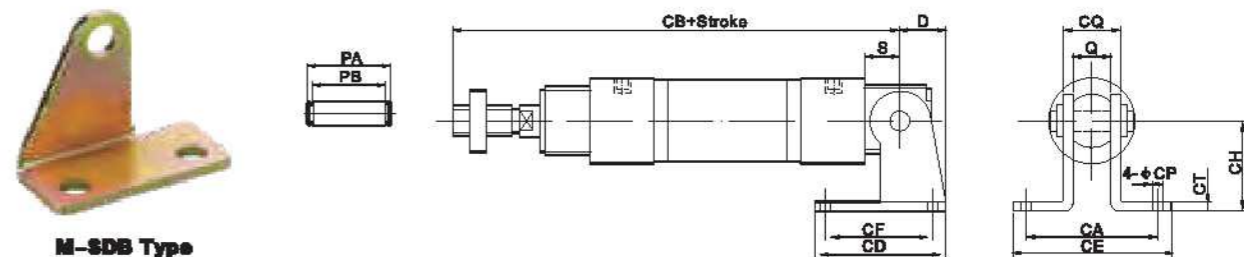


Symbol Bore	B	C		C(MSA Series)		C(MSAL Series)		BB	BC	BD	BE	BF	BP	F
		MA Series	MAL Series	0-50	51-100	0-50	51-100							
16	38	60	-	60	85	-	-	3	26	-	52	40	5.5	16
20	40	76	70	76	101	70	95	4	38	-	64	50	6.5	12
25	44	76	70	76	101	70	95	4	38	-	64	50	6.5	14
32	44	76	70	76	101	70	95	4	47	33	72	58	6.5	14
40	46	76	92	76	101	92	117	4	50	36	84	70	6.5	14

Our company can also provide this used for mini cylinder flange, if you need, pls add A after all ordering code, like M-FA-32-A



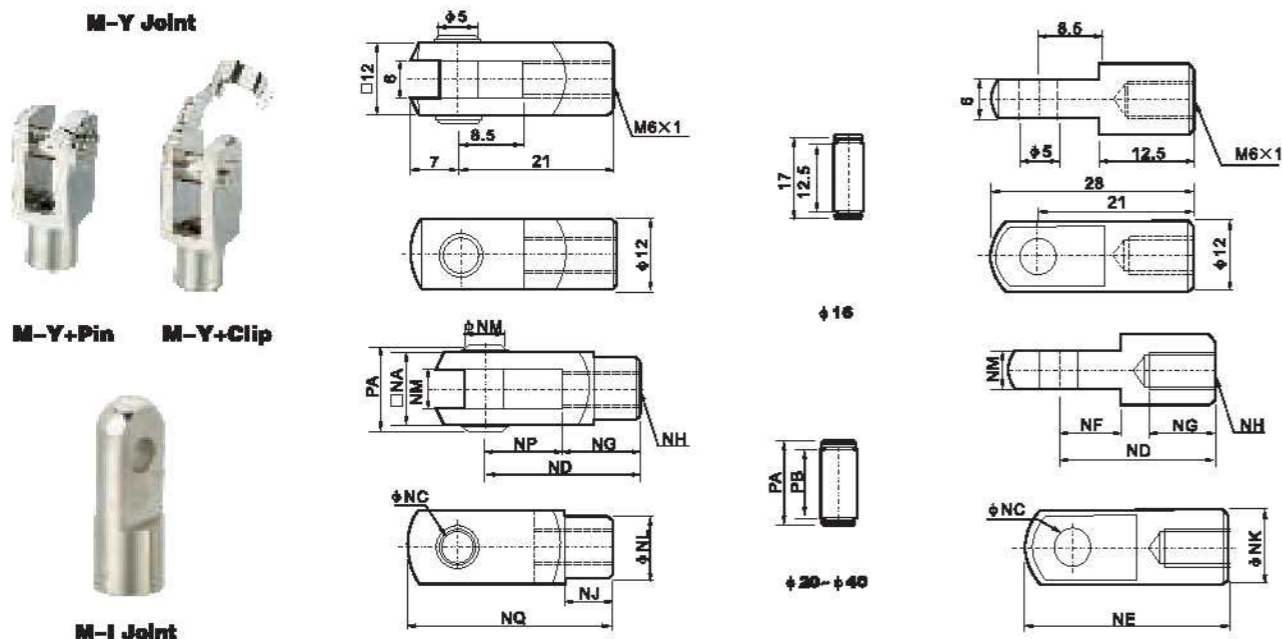
Symbol Bore	B	F	AA (MA Series)		AA (MAL Series)		AA (MSA Series)		AA (MSAL Series)		AB	AC (MA Series)		AC (MAL Series)		AC (MSA Series)		AC (MSAL Series)		AE	AF	AL	AQ	AP	AT	AH
			0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100	0-50	51-100											
16	38	16	98	-	98	123	-	-	25	88	-	88	111	-	-	44	32	13	8	5.5	3	20				
20	40	12	122	116	122	147	116	141	25	106	100	106	131	100	125	54	40	15	8	6.5	3	25				
25	44	14	122	116	122	147	116	141	29	106	100	106	131	100	125	54	40	15	8	6.5	3	25				
32	44	14	142	136	142	167	136	161	19	126	120	126	151	120	145	59	45	25	8	6.5	4	32				
40	48	14	142	158	142	167	158	163	21	128	142	128	151	142	167	64	60	25	8	6.5	4.5	38				



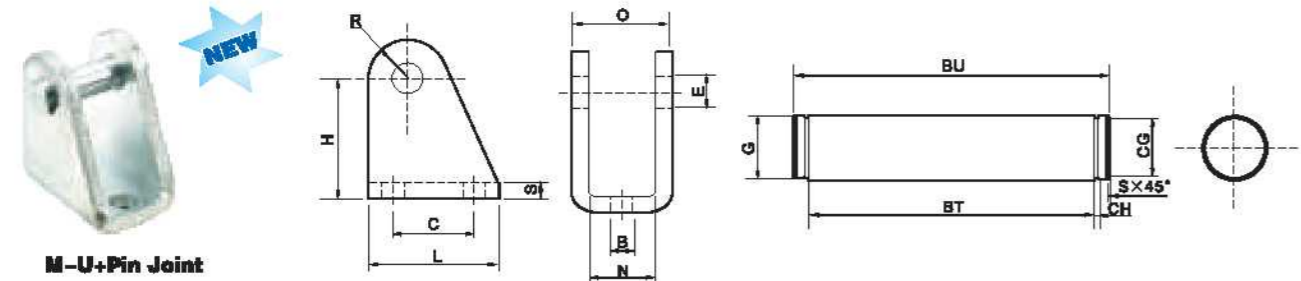
Symbol Bore	D	S	Q	CA	CB (MA Series)		CB (MAL Series)		CB (MSA Series)		CB (MSAL Series)		CD	CE	CF	CH	CT	CP	CQ	PA	PB
					0-50	51-100	0-50	51-100	0-50	51-100											
16	16	9	12	-	107	-	107	132	-	-	23	-	12	20	2.3	5.5	16.5	21	17		
20	21	12	16	51	128	122	128	153	122	147	48	67	32	32	3	6.5	22	27	22.5		
25	21	12	16	51	132	126	132	157	126	151	48	67	32	32	3	6.5	22	27	22.5		
32	27	15	16	51	135	129	135	160	129	154	52	67	36	36	4	6.5	24	30	24.5		
40	27	15	20	55	137	153	137	162	153	178	56	71	40	40	4	6.5	28	34	28.5		



### Mini Cylinder Accessories



Symbol/Bore	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
20	18	8	30	40	11	15	M8×1.25	10	16	14	8	8	15	40	21	18.5
25	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
32	19	10	40	52	15	20	M10×1.25	12	20	18	10	10	20	52	25	19.5
40	25.4	10	45	57	15	25	M12×1.25	15	24	23	14	10	20	57	31	26



Symbol/Bore	B	E	C	H	L	N	O	R	S	G	BT	CG	CH	BU	S
8/10	4.5	4	12.5	24	20	8.1	13	5	2.5	4	14	3.7	0.5	17	0.2
12/16	5.5	6	15	27	25	13	18	7	3	6	19	5.6	0.8	24	0.4
20/25	6.6	8	20	29.5	32	16.1	24	10	4	8	25.2	7.5	0.9	29.5	0.5

### Special cylinder accessories

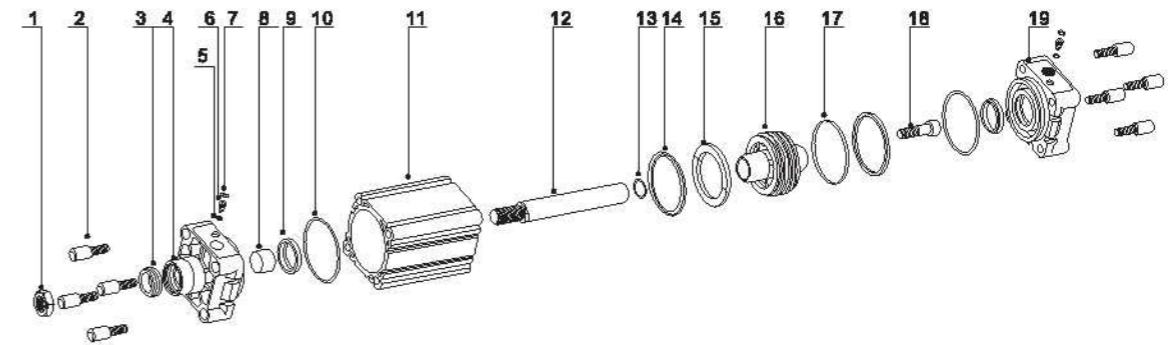


Our company can customize all kinds of non-standard cylinder accessories according to your drawing or sample.

### Assembly kits for pneumatic cylinder

#### DNC Series Cylinder Kits

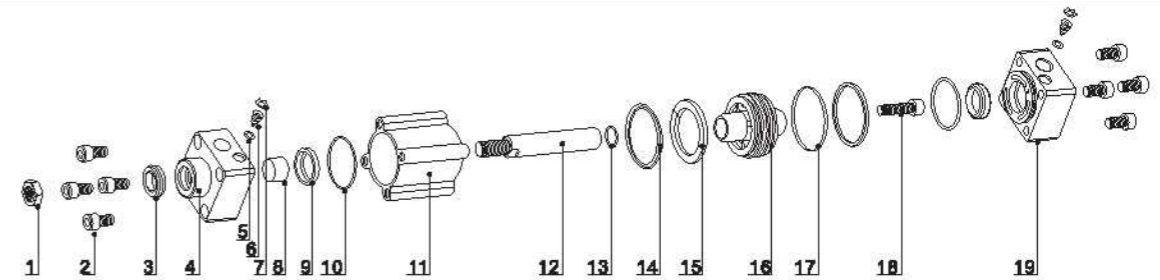
Product	Model/ Specification	Part name	Material	Part name	Material
	DNC Kits (ISO6431&V DMA24562) Bore size: φ 32,40, 50,63,80, 100,125	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PUR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

#### SI Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	SI Kits (ISO6431) Bore size: φ 32,40,50, 63,80,100,125, 160,200	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



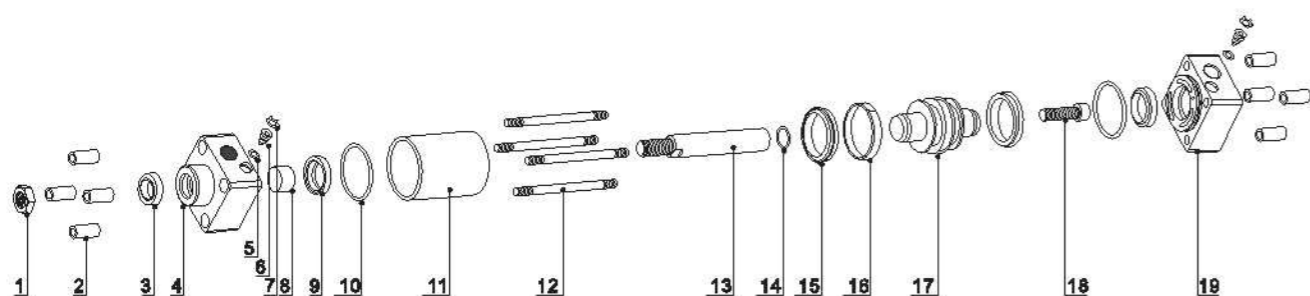
NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion Seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		



### Assembly kits for pneumatic cylinder

#### SC Series Cylinder Kits

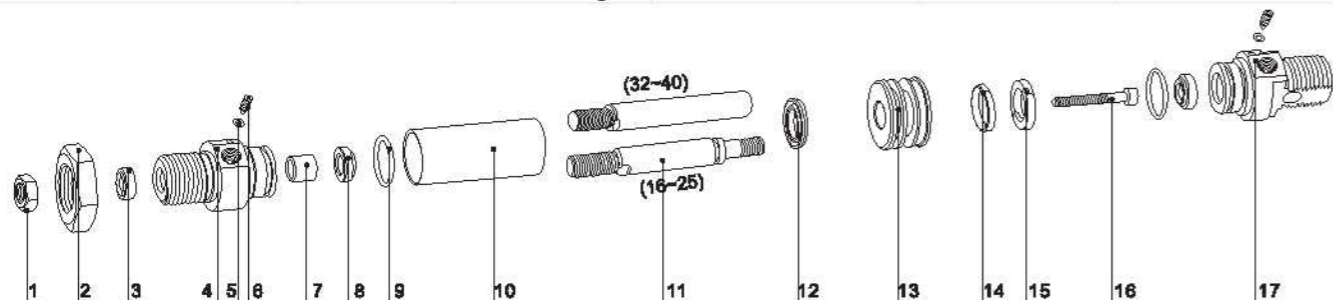
Product	Model/ Specification	Part name	Material	Part name	Material
	<b>SC Kits</b> Bore size: φ 32,40,50, 63,80,100,125, 160,200,	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA86
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Tie-rod nut	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion ring	13	Piston rod(Without)	17	Piston
2	Tie-rod nut	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Tie rod(Without)	16	Wear ring		

#### MA/MA6432 Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	<b>MA Kits</b> Bore size: φ 16,20,25,32,40 <b>MA6432 Kits</b> (ISO6432) Bore size: φ 8,10,12, 16,20,25	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA86
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Stainless Steel	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR		
		Cover O-ring	NBR		



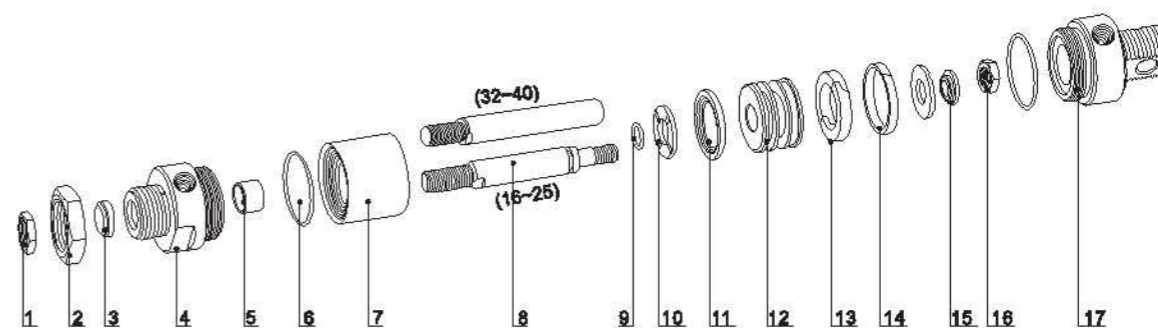
NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	O-ring	9	Cover O-ring	13	Piston	17	Back cover
2	Cover Nut	6	Adjustable screw	10	Barrel(Without)	14	Wear ring		
3	Front Cover seal	7	Self Lubricating bearing	11	Piston rod(Without)	15	Magnet(optional)		
4	Front cover	8	Cushion ring	12	Piston seal	16	Hexagon Screw		



### Assembly kits for pneumatic cylinder

#### MAL Series Cylinder Kits

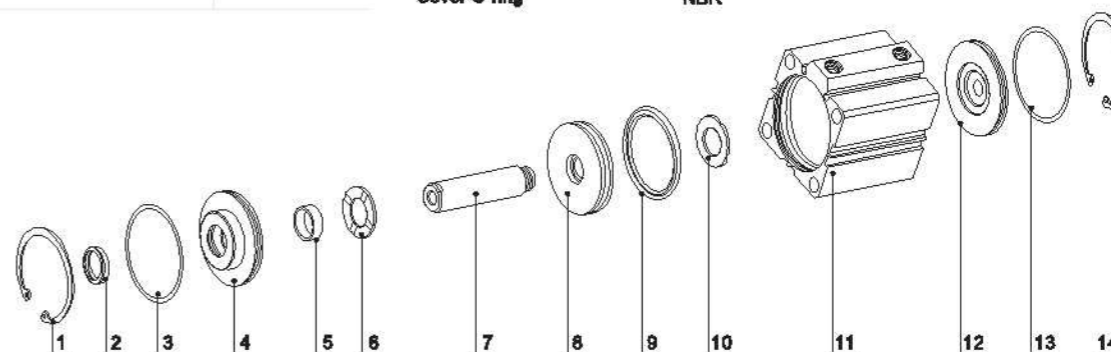
Product	Model/ Specification	Part name	Material	Part name	Material
	<b>MAL Kits</b> Bore size: φ 16,20, 25,32,40	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA86
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Anti-bump cushion	NBR	Hexagon screw	Carbon steel
		Front Cover seal	NBR	Nut	Carbon steel
		Cover O-ring	NBR	Muffler	Cu



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Rod nut	5	Self Lubricating bearing	9	Rod O-ring	13	Magnet(optional)	17	Back cover
2	Cover Nut	6	Cover O-ring	10	Anti-bump cushion	14	Wear ring		
3	Front Cover seal	7	Barrel(Without)	11	Piston seal	15	Impact gasket		
4	Front cover	8	Piston rod(Without)	12	Piston	16	Nut		

#### SDA Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	<b>SDA Kits</b> Bore size: φ 12,16,20, 25,32,40, 50,63,80,100	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston	Aluminum alloy	Magnet(optional)	RbFeb
		Piston rod(Without)	S45C hard chrome carbon steel	C type buckle	Steel
		Barrel(Without)	Hard anodized aluminum	Nut	Carbon steel
		Anti-bump cushion	NBR	Muffler	Cu
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	C type buckle	4	Front cover	7	Piston rod(Without)	10	Anti-bump cushion	13	Cover O-ring
2	Front cover seal	5	Self Lubricating bearing	8	Piston	11	Barrel(Without)	14	C type buckle
3	Cover O-ring	6	Anti-bump cushion	9	Piston Seal	12	Back cover		



### Assembly kits for pneumatic cylinder

Product	Model/Specification	Product	Model/Specification
	<b>MB Kits</b> (Japan Standard) Bore size: φ 32,40, 50,63,80,100		<b>DNG Kits (ISO15552)</b>  Bore size: φ 160,200,250,320
	<b>ADVU Kits</b> (ISO6431) Bore size: φ 16,20, 25,32,40,50, 63,80		

### Tube and piston rod for pneumatic cylinder

Product	Model/Specification	Product	Model/Specification
	<b>SC, MAL</b> Round Aluminum Tube Bore size: φ 16,20, 25,32,40,50,63, 80,100,125,160, 200,250,320		<b>SI</b> Mickey Mouse Aluminum Tube Bore size: φ 32,40,50, 63,80,100, 125,160,200
	<b>DNC</b> Square Aluminum Tube Bore size: φ 32,40,50, 63,80,100,125		<b>SDA</b> Aluminum Tube Bore size: φ 12,16,20,25, 32,40,50,63,80,100  Note: Normally we provide SDA un-oxidized aluminum tube, if you need that with oxide, pls be specified, because price is different.
	<b>ADVU</b> Aluminum Tube Bore size: φ 20, 25,32,40,50,63,80		<b>MA, MA6432</b> Stainless Steel Tube (High precision) Bore size: φ 8,10,12, 16,20,25,32,40
	<b>Piston rod</b> (45# Steel Chrome-plated) Bore size: φ 6,8,10,12, 16,20,25,32,40,45, 50,60,70,etc.		Note: Our company can provide different diameters piston rods including <b>stainless steel</b> material's according to customers requirement.



### XC-03 Series Magnetism Switch



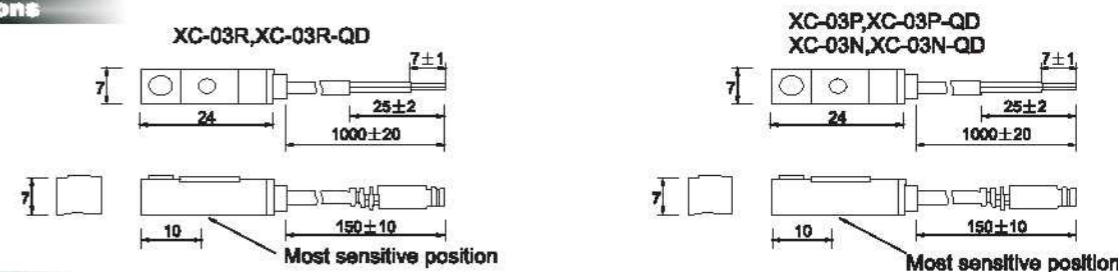
#### Features and Applications

1. Compact design
2. LSU type LED light
3. Anti-vibration application
4. Simple installation
5. BK series metal brand together
6. Suitable for many kinds of air cylinder.

#### Specification

Type	XC-03R	XC-03N	XC-03P
Connect Diagram			
Parameter	2-Wire Type		3-Wire Type
Wiring method	SPST Normally Open		Solid State Output, Normally Open
Switching logic	Reed switch		NPN Input PNP Output
Sensor type	5-240V DC/AC		5-30V DC
Operating voltage	100mA max.		200mA max.
Max. switching current	10W max.		6W max.
Contact rating	None		20mA max @ 24V (Switch Active)
Current consumption	3.0V max.		0.5V max @ 200mA
Voltage drop	None		0.01mA max.
Leakage current	Red LED		Red LED Green LED
Indicator	200Hz		1000Hz
Max. exchange frequency	-10~70°C		
Temperature range	30G		50G
Shock	9G		
Vibration	IEC 529 IP67 (NEMA 6)		
Enclosure classification	None		With protection
Protection circuit	φ 2.8, 2C PVC Gray color, oil resistance PVC		φ 2.8, 2C PVC Blank color, oil resistance PVC
Cable			

#### Overall Dimensions

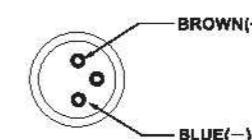


#### Joint Pipe Bore

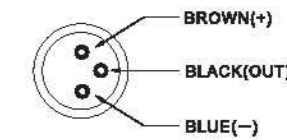
**PBK metal band for XC-03 series**  
For round cylinder φ6-φ63



**QD Pinout**  
2 wire QD wiring



3 wire QD wiring





### XC-21R Series Magnetism Switch



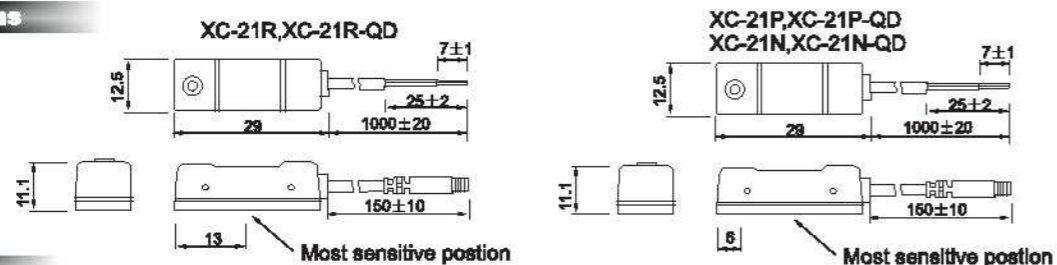
#### Features and Applications

1. Compact design
2. LED light
3. Anti-vibration application
4. PI, PM series clamp together
5. Simple installation
6. Suitable for all kinds of standard tie-rod and micky-mouse barrel cylinder.

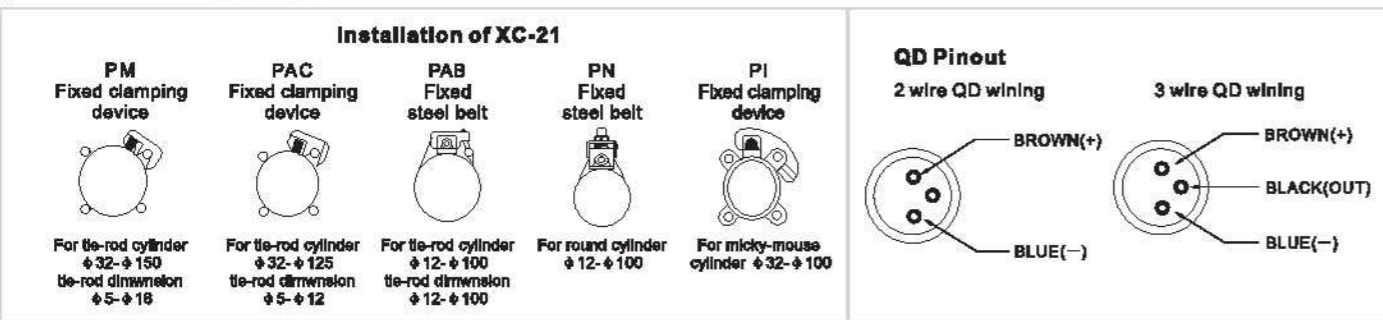
#### Specification

Type	XC-21R	XC-21N	XC-21P
Connect Diagram			
Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output, Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max. switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max@ 24V(Switch Active)	
Voltage drop	3.5V max.	0.5V max	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max. exchange frequency	200Hz	1000Hz	
Temperature range		10~70°C	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	φ4.0,2C PVC Gray color,oil resistance PVC	φ4.0,2C PVC Blank color,oil resistance PVC	

#### Overall Dimensions



#### Joint Pipe Bore



### XC-31R Series Magnetism Switch



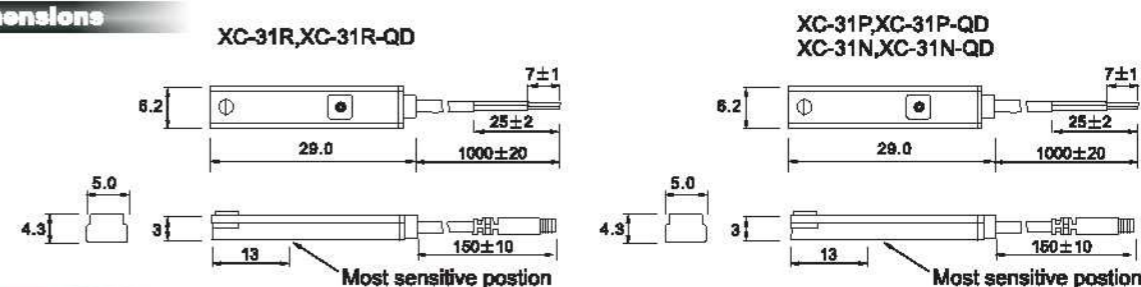
#### Features and Applications

1. Compact design
2. LED light
3. Anti-vibration application
4. For groove and bandage fixing type
5. Simple installation
6. Suitable for all kinds of groove type and mini type cylinder.

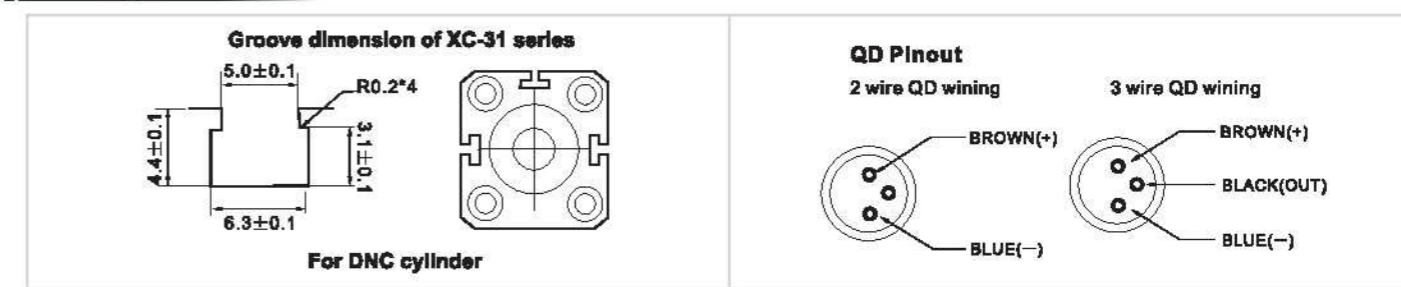
#### Specification

Type	XC-31R	XC-31N	XC-31P
Connect Diagram			
Parameter			
Wiring method	2-WireType	3-WireType	
Switching logic	SPST Normally Open	Solid State Output, Normally Open	
Sensor type	Reed switch	NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-30V DC	
Max. switching current	100mA max.	100mA max.	
Contact rating	10W max.	3W max.	
Current consumption	None	17mA max @ 24V(Switch Active)	14mA max@24V(Switch Active)
Voltage drop	2.5V max.@ 100mA	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max. exchange frequency	200Hz	1000Hz	
Temperature range		-10~70°C	
Shock	30G	50G	
Vibration		9G	
Enclosure classification		IEC 529 IP67(NEMA 6)	
Protection circuit	None	With protection	
Cable	φ3.0,2C PVC Gray color,oil resistance PVC	φ3.0,2C PVC Blank color,oil resistance PVC	

#### Overall Dimensions



#### Joint Pipe Bore







### XC-11R Series Magnetism Switch



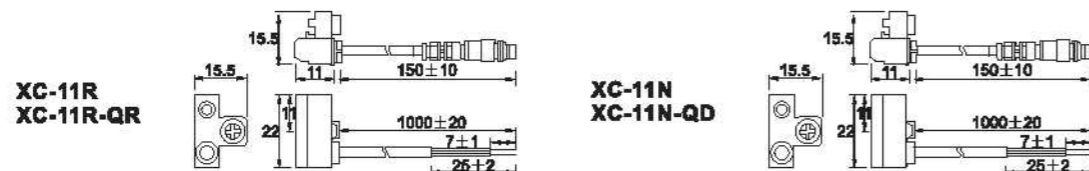
#### Features and Applications

1. Compact design
2. LED light
3. Anti-vibration application
4. For groove and bandage fixing type
5. Simple installation
6. Suitable for thin type(compact) cylinder

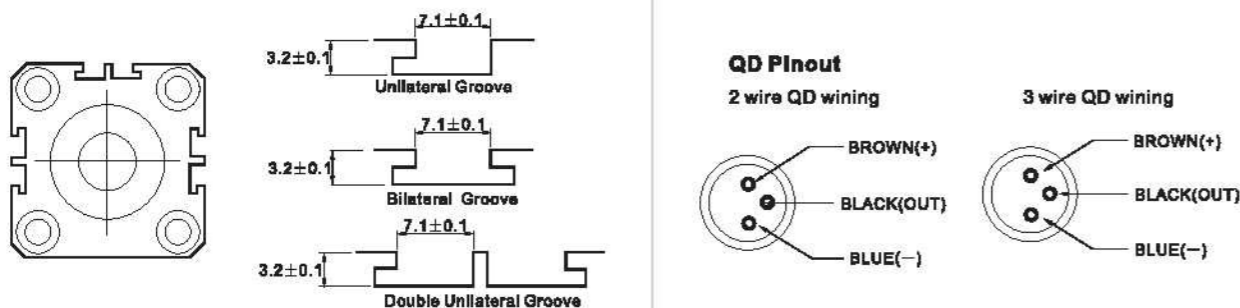
#### Specification

Type	XC-11R	XC-11RB	XC-11N	XC-11P
250 320	Connect Diagram			
Parameter				
Switching logic	SPST Normally Open	SPST Normally Closed	Solid State Output, Normally Open	
Sensor type	Reed switch		NPN Input	PNP Output
Operating voltage	5-240V DC/AC	5-120V DC/AC	5-30V DC	
Max. switching current	100mA max.		200mA max.	
Contact rating	10W max.		6W max.	
Current consumption	None		20mA max@ 24V(Switch Active)	
Voltage drop	2.5V max.@100mA		0.5V max @ 200mA	
Leakage current	None		0.01mA max.	
Indicator	Red LED		Red LED	Green LED
Cabel	φ 3.2,2C PVC Gray color,oil resistance PVC		φ 3.2,3C PVC Blank color,oil resistance PVC	
Sensitivity			40Gauss	
Max.switch frequency	200Hz		1000Hz	
Temperature range			-10~70°C	
Shock	30G		50G	
Vibration			9G	
Enclosure classification			IEC 529 IP67(NEMA 6)	
Protection circuit	None		With protection	

#### Overall Dimensions



#### Joint Pipe Bore



### BK / PBN / PN Series Clamp

#### BK Series Clamp

Clamp is designed for mounting XC-03 series sensor on φ 6 bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4

BK-81:For round cylind cylinder and tie-rod cylinder φ 6- φ 63.  
BK-82:For round cylind cylinder and tie-rod cylinder φ 6- φ 125.(Speed design for ≥ φ 125)

#### PBN Series Clamp

Clamp is designed for mounting XC-20 series sensor on φ 12 bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4

BK-81:For round cylind cylinder and tie-rod cylinder φ 6- φ 63.  
BK-82:For round cylind cylinder and tie-rod cylinder φ 6- φ 125.(Speed design for ≥ φ 125)

#### PN Series Clamp

Clamp is designed for mounting XC-20series sensor on φ 12 bore and above round cylinder

Product	Dimension	Mounting			
		Step 1	Step 2	Step 3	Step 4

PN — S 20  
12:Round cylinder φ 12  
18:Round cylinder φ 18  
150:Round cylinder φ 150  
S:Stainless steel round cylinder  
A:Aluminum round cylinder



### PI / PAC Series Bracket

#### PI Series Bracket

Bracket is designed for mounting XC-21 series sensor on ISO profile cylinder. (mickey mouse Type)

Product	Dimension/Installation	

#### PAC Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation	
<p>Using for tie-rod cylinder <math>\phi 32</math>-<math>\phi 100</math>, hydraulic cylinder (tie-rod bore <math>\phi 4</math>-<math>\phi 10</math>)</p> <p>← Diameter of tie rod</p>		

### PM / SU Series Bracket

#### PM Series Bracket

Bracket is designed for mounting XC-21 series on tie-rod cylinder.

Product	Dimension/Installation	

#### SU Series Bracket

Bracket is designed for mounting XC-21R sensor on mickey mouse Type cylinder (SUType).

Product	Dimension/Installation	



## Pneumatic Actuator

According to ISO5211, DIN3337, VD/VDE3845 and NAMUR international standard, XCPC provide the qualified pneumatic actuator which is compact, modernized design for your selection. Single acting and double acting as optional, size from 32mm to 270mm, and meet the different requirement of application to satisfy our customers.



### HAC/HAD series Shock Absorbers



HAD2050-2 HAD2016 HAD1275

#### Ordering Code

<b>HAD</b>	<b>25</b>	<b>50</b>	<b>2</b>	<b>N</b>
Series HAC: Porous HAD: Adjustable HACD: Multi-buffer-type	Bushing outer Thread	Stroke 6~150mm	Impact speed 1. high-speed 2. Moderate Speed 3. Low speed	Buffer cap Blank with buffer cap N: Without buffer cap

#### Specification

Model	Stroke	Max.Absorbing Energy (NM)	Max.Absorb. Energy/Hour (NM)	Max.Effective Mass(kg)			Max.Impact Speed (m/s)		
				1	2	3	1	2	3
HAC-0806	6	2	7,00	0.5	2	6	2	1	0.5
HAC-1005	5	3	10,800	1	3	7	3	1.5	0.8
HAC-1008	8	4	14,400	2	4	9	3	1.5	0.8
HAC-1210	10	5	18,000	5	10	30	2	1.5	0.8
HAC-1412	12	15	36,000	8	50	100	3	1.5	0.8
HAC-1416	16	20	40,000	10	70	150	3	1.5	0.8
HAC-1420	20	25	48,000	12	80	160	3	1.5	0.8
HAC-2020	20	40	48,000	30	200	700	3.5	2	1
HAC-2030	30	50	54,000	30	200	700	3.5	2	1
HAC-2050	50	60	66,000	60	400	1200	3.5	2	1
HAC-2525	25	80	60,000	200	800	1500	4	2.5	1
HAC-2540	40	120	84,000	300	1200	2000	4	2.5	1
HAC-2550	50	98	98,000	15	40	160	4	2.5	1
HAC-2580	80	150	127,500	20	50	200	4	2.5	1
HAC-3660	60	250	125,000	400	1500	2400	4	2.5	1
HAC-2030	30	45	54,000	40	300	900	3.5	2	1
HAC-2035	35	52	64,400	40	200	650	3.5	2	1

Working Temperature-10~80°C

Model	HAD Series								
	HAD-1410	HAD-1415	HAD-2016	HAD-2025	HAD-2525	HAD-2530	HAD-2540	HAD-2550	HAD-2580
Stroke	10	15	16	25	25	30	40	50	80
Max.Absorbing Energy(NM)	20	22	25	39	85	95	100	98	150
Max.Absorb. Energy/Hour(NM)	24,000	26,400	32,000	39,000	51,000	57,000	84,000	98,000	127,500
Max.Effective Mass(kg)	80	120	200	312	400	480	700	720	800
Max.Impact Speed(m/s)	3.2	3.2	3.6	3.6	3.6	3.6	3.6	4.2	4.2

Model	HAD Series							
	HAD-3625	HAD-3650	HAD-4225	HAD-4250	HAD-4275	HAD-64050	HAD-64100	HAD-64150
Stroke	25	50	25	50	75	50	100	150
Max.Absorbing Energy(NM)	150	300	260	500	750	12,000	24,000	36,000
Max.Absorb. Energy/Hour(NM)	90,000	108,000	130,000	155,000	187,000	1,560,000	1,920,000	2,520,000
Max.Effective Mass(kg)	1,400	1,400	3,000	4,000	6,000	12,727	18,181	23,636
Max.Impact Speed(m/s)	3.2	4.8	3.6	4.8	4.8	1.6	1.6	1.6

Working Temperature-10~80°C

### HR series speed regulator



HR30

#### Ordering Code

<b>HR</b>	<b>30</b>	<b>F</b>
Series HR: adjustable oil speed regulator	Stroke 15~100mm	Bracket

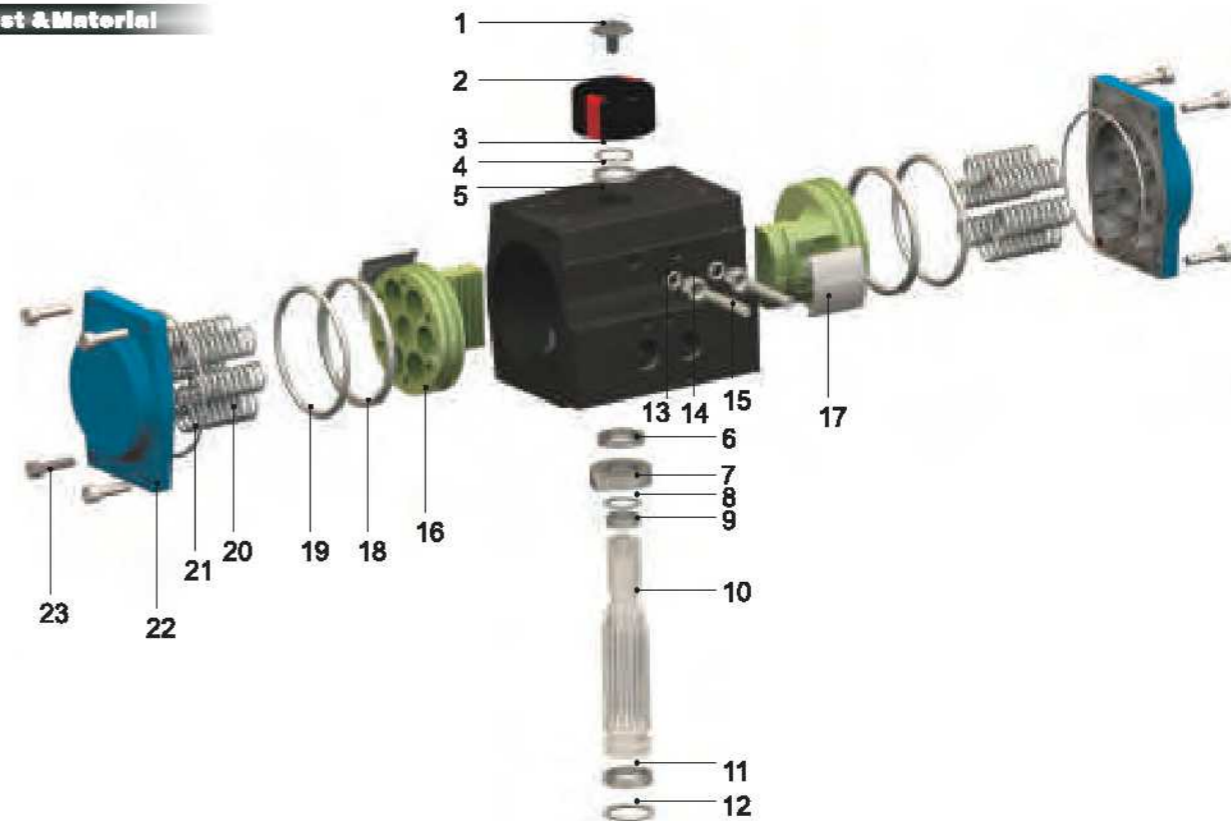


### XAT Series Pneumatic Actuator

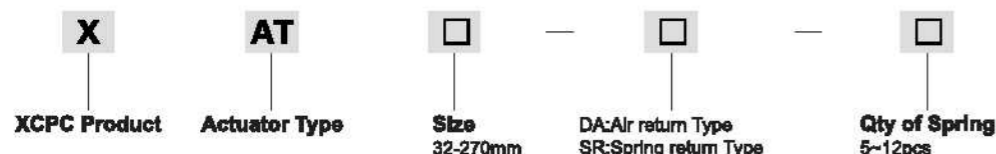
### XAT Series Pneumatic Actuator



#### Part List & Material



#### Ordering Code



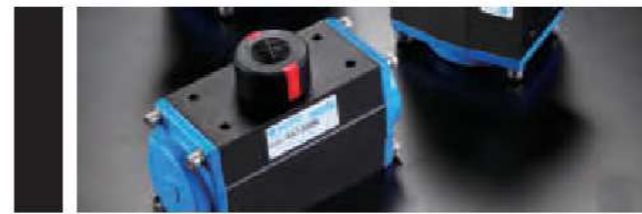
#### Designing Features

##### Designing Features (of Hawks 10 Series Pneumatic Actuator)

- Extruded aluminum ASTM6005 body with both internal and external corrosion protection having honed cylinder surface for longer life and low coefficient of friction.
- Dual piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation, reverse rotation can be accomplished in the field by simply inverting the pistons.
- Multiple bearings and guides on racks and pistons, low friction, high cycle life and prevent shaft blowout.
- Modular preloaded spring cartridge design, with coated spring for simple versatile range, greater safety and corrosion resistance, longer cycle life.
- Fully machined teeth on piston and pinion for accurate low backlash rack and pinion engagement, maximum efficiency.
- Carbon steel with nickel plated or stainless steel fasteners for long term corrosion resistance.
- Full conformance to the latest specifications: ISO5211, DIN 3337 and Namur or product interchangeability and easy mounting of solenoids, limit switches and other accessories.

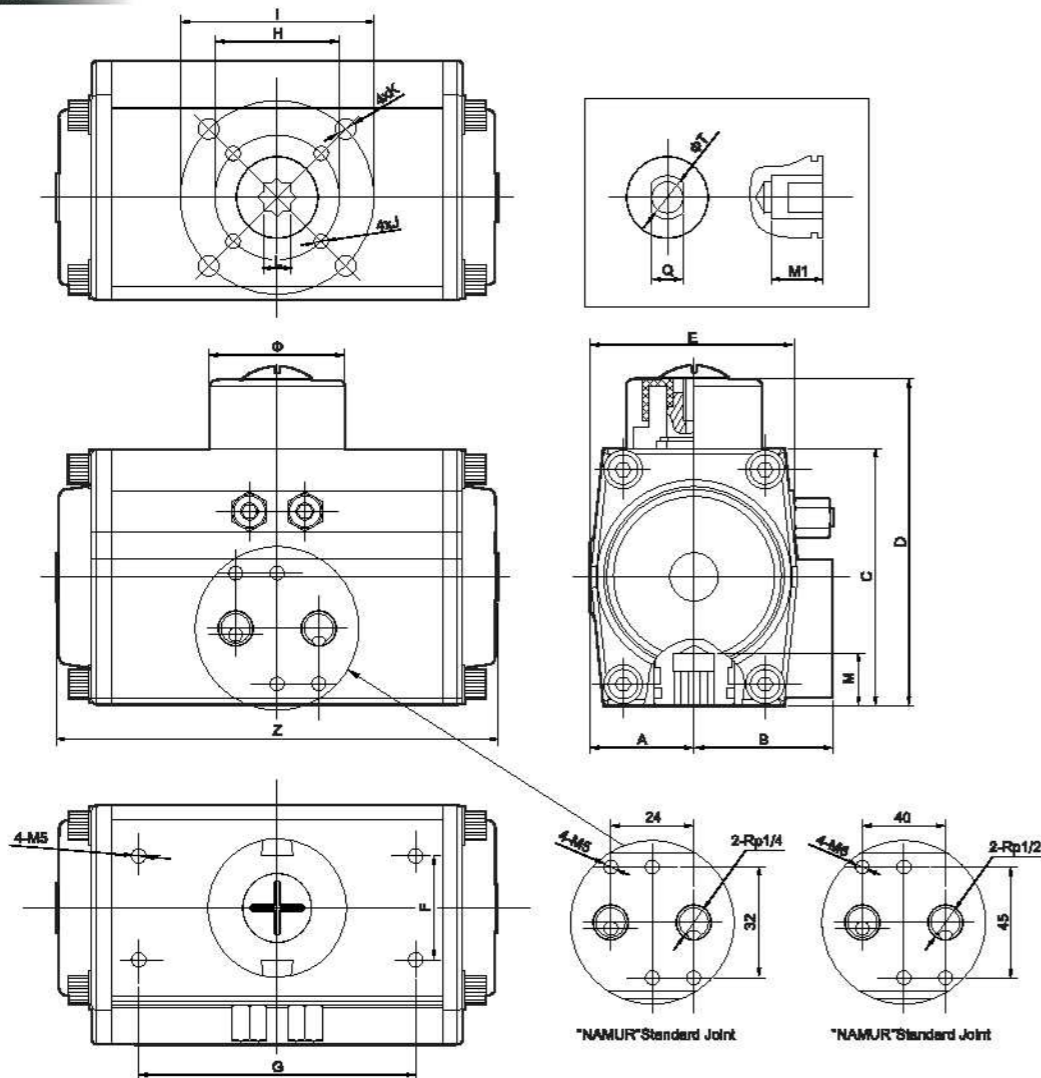


No	Designation	Qty	Standard Material	Protection	Optional Material
1	Indicator Screw	1	Plastics		
2	Indicator	1	Plastics		
3	Circlip	1	Carbon Steel	Nickel Plated	Stainless Steel
4	Gasket	1	Engineering Plastics		
5	Body	1	Cast Aluminum	Hard Anodize, Etc	
6	Retainer Ring	1	Engineering Plastics		
7	Cam	1	Steel Alloy		
8	O Ring (Upper Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
9	Upper Bearing	1	Engineering Plastics		
10	Pinion	1	Carbon Steel/Stainless Steel	Nickel Plated	
11	Lower Bearing	1	Engineering Plastics		Stainless Steel
12	O Ring (Lower Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
13	O Ring (Adjust Screw)	2	NBR		Fluorine Rubber/Silicone Rubber
14	Nut (Adjust Screw)	2	Carbon Steel	Nickel Plated	Stainless Steel
15	Adjust Screw	2	Carbon Steel	Nickel Plated	Stainless Steel
16	Piston	2	Cast Aluminum/Casting	Anodized/Zinc Galvanized	Stainless Steel
17	Guide (Piston)	2	Engineering Plastics		
18	O Ring (Piston)	2	NBR		Fluorine Rubber/Silicone Rubber
19	Washer (Piston)	2	Engineering Plastics		
20	Spring (Single Acting)	0~12	Spring Steel	Dipping Paint	
21	O Ring (End Cap)	2	NBR		Fluorine Rubber/Silicone Rubber
22	End Cap	2	Cast Aluminum	Powder Coating, Etc	
23	Cap Screw	8	Carbon Steel	Nickel Plated	Stainless Steel



## XAT Series Pneumatic Actuator

### Overall Dimensions



### Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Z	Φ	Air joint
32DA	20	25	45	65	25	25	50	Φ36		M5x8		9x9	12	100	40	NAMUR Rp 1/8"
40DA	25	32	60	80	50	25	50	Φ36	Φ50	M5x8	M6x8	9x9	12	108	40	NAMUR Rp 1/8"
52DA/SR	30	40	74.3	95	59	30	80	Φ36	Φ50	M5x8	M6x8	11x11	15	135	40	NAMUR Rp 1/4"
63DA/SR	36	44	88	107.5	74	30	80	Φ50	Φ70	M8x10	M8x13	14x14	18	142	40	NAMUR Rp 1/4"
75DA/SR	42	50	100.5	121	80.5	30	80	Φ50	Φ70	M6x10	M8x13	14x14	16	168	40	NAMUR Rp 1/4"
83DA/SR	46	57	108.5	128.7	88	30	80	Φ50	Φ70	M6x10	M8x13	17x17	19	188	40	NAMUR Rp 1/4"
92DA/SR	50	57	117	137	96.5	30	80	Φ50	Φ70	M8x10	M8x13	17x17	22	192	40	NAMUR Rp 1/4"
105DA/SR	57.5	64	133	153	109.5	30	80	Φ70	Φ102	M8x13	M10x16	22x22	26	258	40	NAMUR Rp 1/4"
127DA/SR	68.5	69	181	181	132	30	80/130	Φ70	Φ102	M8x13	M10x16	22x22	26	310	55	NAMUR Rp 1/4"
140DA/SR	75	77	180	200	137.5	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	370	55	NAMUR Rp 1/4"
160DA/SR	86	78	198	218	158	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	397	55	NAMUR Rp 1/4"
190DA/SR	103	103	230	280	189	30	130		Φ140		M16x25	36x36	40	525	80	NAMUR Rp 1/4"
210DA/SR	113	113	255	285	210	30	130		Φ140		M16x25	36x36	40	532	80	NAMUR Rp 1/4"
240DA/SR	129	129	290	320	245	30	130		Φ165		M20x25	46x46	50	602	80	NAMUR Rp 1/4"
270DA/SR	146	146	326	356	273	30	130		Φ165		M20x25	46x46	50	722	80	NAMUR Rp 1/2"

## XAT Series Pneumatic Actuator

### Connection Type and Weight



### Connection Type

1. Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.
2. The NAMUR drive pinion and the NAMUR top mounting connection permit direct installation of accessories such as limit switch box and positioner.
3. Bottom mounting connection is designed in accordance with ISO5211 and DIN3337 standards for direct mounting with valve gear boxes or mounting brackets.

### New Type

New connection types are continued researching and developing.

### Customer Need

We can design and produce all kinds of connection types according to customer's needs.

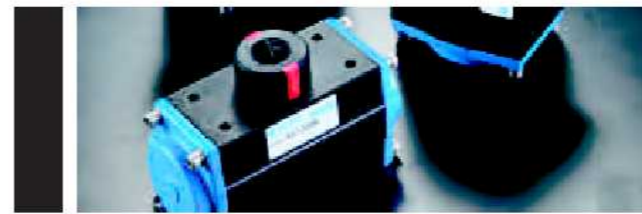
### Air Volume (cm<sup>3</sup>)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
CW	40	65	135	220	350	540	760	1100	2150	2950	4260	5900	7500	11000	17000
CCW	30	43	110	160	270	410	570	860	1590	2100	3080	5900	7500	9000	14000

### Weight (kgs)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
DA	0.5	0.75	1.1	1.96	2.4	2.9	3.95	5.8	9.3	14.5	17.5	31.3	46.8	67.3	97
SR			1.6	2.1	3	3.9	5.4	8.1	12.9	18.7	23.5	35.3	58.8	80.2	118

Note: Spring Return unit weights are with full 6 sets of springs per piston.

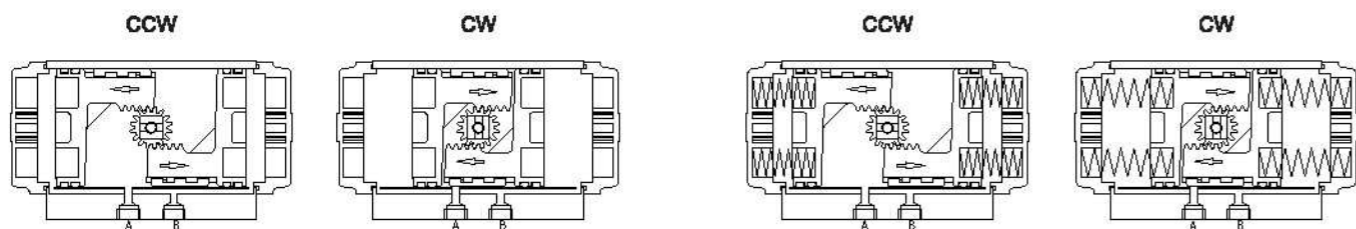


## XAT Series Pneumatic Actuator

### Double Acting Operating Principle

### Single Acting Operating Principle

#### Operating Principle and Condition



**CCW**  
Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

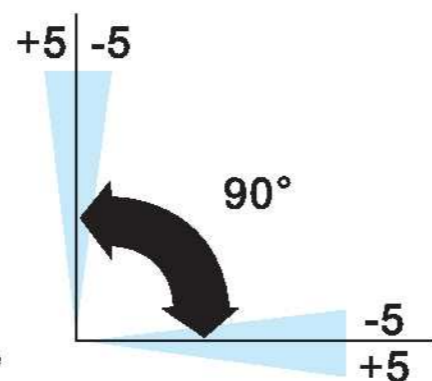
**CW**  
Input the compressed air from the B, the left and right plungers move to the center, the output pinion rotates clockwise, and the air between the two plungers exhausts from A.

**CCW**  
Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

**CW**  
When it is out of air or power, the two plungers move to the center under the spring action, the output pinion rotates clockwise, and the air exhausts from A.

### Operating Condition

- Operating Media**  
Dry and clear air, or the non-corrosive gases  
The maximum particle diameter must less than 40um
- Air Supply Pressure**  
The minimum supply pressure is 2.5Bar  
The maximum supply pressure is 10Bar
- Operating Temperature**  
Standard: -20°C~+80°C  
Low temperature: -35°C~+80°C(can be customized)  
High temperature: -15°C~+150°C(can be customized)
- Travel Adjustment**  
Have adjustment range of +-5 degree for the rotation at 0 and 90 degree
- Application**  
Either indoor or outdoor



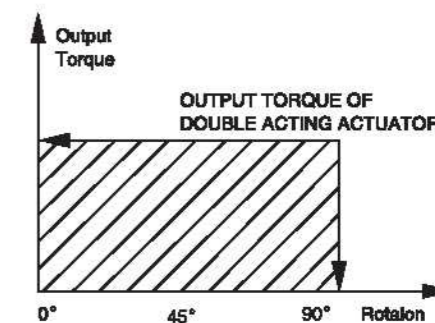
## XAT Series Pneumatic Actuator

### Double Acting Torque List

Torque List and Reference Selection

Model	Torque	Air Pressure(Bar)									
		2.5	3	3.5	4	4.5	5	5.5	6	7	8
XAT-32DA	3.2	3.8	4.4	5.0	5.7	6.31	6.9	7.6	8.8	10.1	
XAT-40DA	4.9	6.0	6.9	7.9	8.9	9.85	10.8	11.8	13.8	15.8	
XAT-52DA	9.9	12.0	13.8	15.8	17.7	19.7	21.7	23.6	27.6	31.5	
XAT-63DA	14.5	17.7	20.3	23.2	26.1	29.0	31.9	34.8	40.6	46.4	
XAT-75DA	24.8	30.2	34.7	39.6	44.6	49.5	54.5	59.4	69.3	79.2	
XAT-83DA	35.3	43.0	49.4	56.4	63.5	70.5	77.6	84.6	98.7	112.8	
XAT-92DA	49.5	60.4	69.3	79.2	89.1	99.0	108.9	118.8	138.6	158.4	
XAT-105DA	80.5	98.2	112.7	128.8	144.9	161.0	177.1	193.2	225.4	257.6	
XAT-127DA	141.5	172.6	198.1	226.4	254.7	283.0	311.3	339.6	396.2	452.8	
XAT-140DA	215.0	262.3	301.0	344.0	387.0	430.0	473.0	516.0	602.0	688.0	
XAT-160DA	281.0	342.8	393.4	449.6	505.8	562.0	618.2	674.4	788.8	899.2	
XAT-190DA	532.0	638.4	744.8	851.2	957.6	1064.0	1170.4	1276.8	1489.6	1702.4	
XAT-210DA	685.0	798.0	931.0	1064.0	1197.0	1330.0	1463.0	1596.0	1862.0	2128.0	
XAT-240DA	962.0	1154.4	1346.8	1539.2	1731.6	1924.0	2116.4	2308.8	2693.6	3078.4	
XAT-270DA	1462.0	1754.4	2046.8	2339.2	2631.6	2924.0	3216.4	3508.8	4093.6	4678.4	

TYPE: Double acting pneumatic actuator  
The suggested safe factor for double acting actuators under normal working conditions is 20%~30%.  
Example:  
The torque needed by valve=100 Nm  
The torque considered safe factor=100 (1+30%)=130 Nm  
Air supply pressure=5Bar  
According to the above table, we can choose the minimum model is XAT-105DA.



### Reference Selection

Model	If air pressure	Reference	Reference	Valve	Double	ISO5211
XAT-32DA	6.3				8	F03
XAT-40DA	8.85				9	F03/05
XAT-52DA	19.7	40	2"	9	9	F03/05
XAT-63DA	29	65	2.5"	11	11	F05/07
XAT-75DA	49.5	80	3"	20	14	F05/07
XAT-83DA	70.5	100	4"	29	17	F05/07
XAT-92DA	99	100	4"	47	17	F05/07
XAT-105DA	161	125	5"	82	22	F07/10
XAT-127DA	283	150	6"	130	22	F07/10
XAT-140DA	430	250	10"	360	27	F10/12
XAT-160DA	562	250	10"	360	27	F10/12
XAT-190DA	1064	300	12"	475	36	F14
XAT-210DA	1330	350	14"	760	36	F14
XAT-240DA	1924	400	16"	1300	46	F16
XAT-270DA	2924	500	20"	2340	46	F16





## XAT Series Pneumatic Actuator

### Reference Selection

**TYPE:**

Single acting pneumatic actuator

The suggested safe factor for single acting actuators under normal working conditions is 20%~30%.

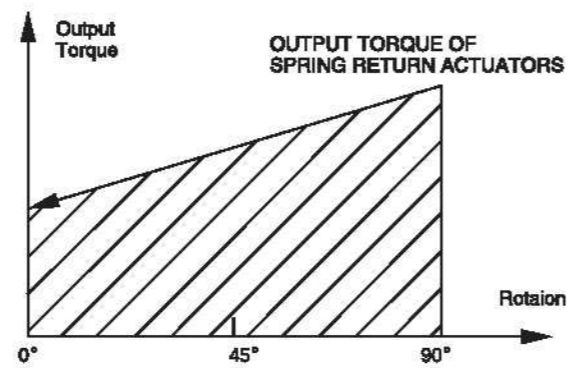
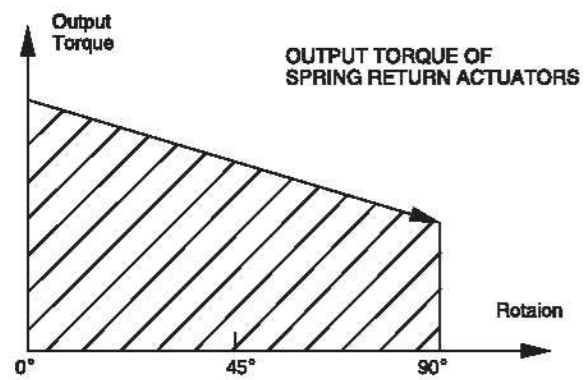
**Example:**

The torque needed by valve=100 Nm

The torque considered safe factor=100 (1+30%)=130 Nm

Air supply pressure=5Bar

According to the above table, we can choose the minimum model is XAT-40SR with full 6pcs spring.



## Air source treatment units

XPCPC produce different standards of air source treatment unit(short as FRL), which include air filter, regulator, lubricator. They are offered as separation or combination, auto drain is available for some models. XPCPC is one of the leading factory in this area for 10 years, with high reputation in domestic and international market.



B

C





### OU Series Air Source Treatment Unit

Hot



The XOU consisted of XOFR and XOL, each unit can be ordered separately.  
 The XOF with water separator cleans the compressed air of fluid oil, condensation and dirt. Particles. For special application, the standard 40µm filter element may easily be replaced by a 5µm filter element.  
 The XOR maintain inputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed. The proportional lubricator adds a regulated quantity of oil to the filtered air. The oil-mist content proportional to the flow and oil can be added during operation. The oil drip rate is controlled by the adjustable bolt. Normally, 1 to 12 drops/1000L of the air is sufficient.

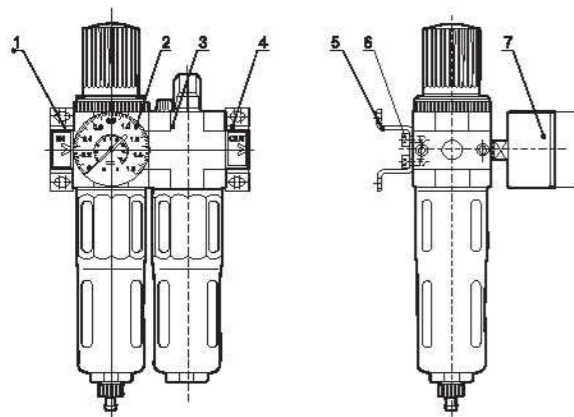
#### Ordering Code

<b>XO</b>	<b>U</b>	<b>1/4</b>	<b>□</b>	<b>□</b>	<b>MINI</b>
Series XO Series	Function code F.R.L Combination	Port Size G1/8" G1/2" G1/4" G3/4" G3/8" G1"	Grade of filtration Blank: 12bar 40µm 5M: 5µm	Manometer Blank: 12bar 7: 7bar	Size MINI MIDI MAXI

#### Specification

Service units		MINI			MIDI			MAXI	
Manual Drain	Working pressure: 12bar, 40µm	XOU-1/8-MINI	XOU-1/4-MINI	XOU-3/8-MINI	XOU-3/8-MIDI	XOU-1/2-MIDI	XOU-3/4-MIDI	XOU-3/4-MAXI	XOU-1-MAXI
	Working pressure: 7bar, 40µm	XOU-1/8-7-MINI	XOU-1/4-D-7-MINI	XOU-3/8-7-MINI	XOU-3/8-7-MIDI	XOU-1/2-7-MIDI	XOU-3/4-7-MIDI	XOU-3/4-7-MAXI	XOU-1-7-MAXI
	Working pressure: 12bar, 5µm	XOU-1/8-5M-MINI	XOU-1/4-5M-MINI	XOU-3/8-5M-MINI	XOU-3/8-5M-MIDI	XOU-1/2-5M-MIDI	XOU-3/4-5M-MIDI	XOU-3/4-5M-MAXI	XOU-1-5M-MAXI
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4				
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4				
Medium		Compressed air							
Features of structure		Sintered filter with water separator; MINI/MIDI/MAXI: Piston regulator; Diaphragm type regulator; Direct constant-density lubricator							
Mounting type		Pipe mounting or foot mounting							
Assembly position		Vertical ±5°							
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	XOU-...(-A)	700	1000	1200	2000	2600	2600	7000	8000
	XOU-...-7(-A)	800	1300	1500	2500	2800	2800	8500	8700
	XOU-...-5M(-A)	600	850	1050	1700	1800	2100	8500	7200
Primary pressure	Manual condensate drain	1~16bar							
	Automatic condensate drain	1.5~12bar							
Working pressure		0.5~12bar/0.5~7bar							
Min. Standard nominal flow rate		3 L/min			6 L/min			10 L/min	
Grade of filtration		40µm/5µm							
Capacity of condensate fluid		22ml							
Temperature range		0~80°C							
Materials Information		Housing: Zinc die-casting; Filter bowl and oil bowl: PC; Metal bowl guard: Aluminium alloy; Sealing: NBR; Adjusting knob: POM							

#### Internal structure

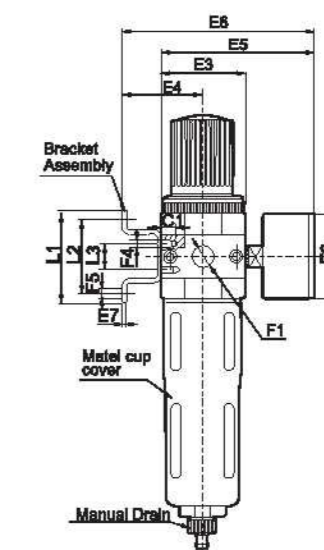
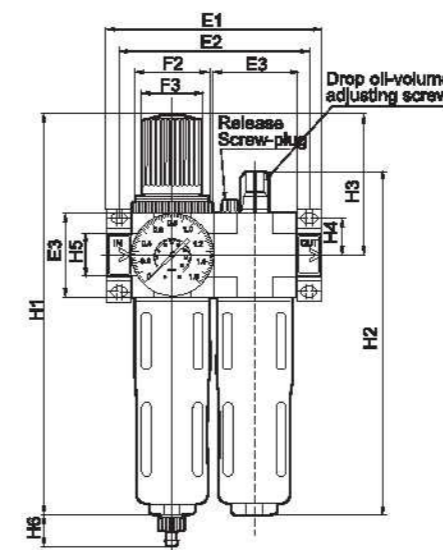
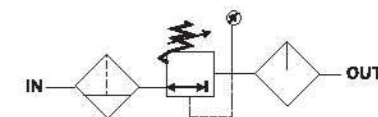


NO	Item	Material
1	Flange-IN	Zinc alloy
2	Filter + Regulator	
3	Lubricator	
4	Flange - OUT	Zinc alloy
5	Bracket	SPCC
6	Allen screw	S35C
7	Pressure gauge	

### XOU Series Air Source Treatment Unit

#### Overall Dimensions

Graphic Symbol



#### Dimension Sheet

Model	E1	E2	E3	E4	E5	E6	E7	F1	F2
XOU-...-MINI	104	92	40	39	76	95	2	G1/8", G1/4", G3/8"	M36×1.5
XOU-...-MIDI	140	125	55	47	93	112	3	G1/8", G1/2", G3/4"	M52×1.5
XOU-...-MAXI	162,182	146,157	66	53	104	124	3	G3/4", G1"	M36×1.5

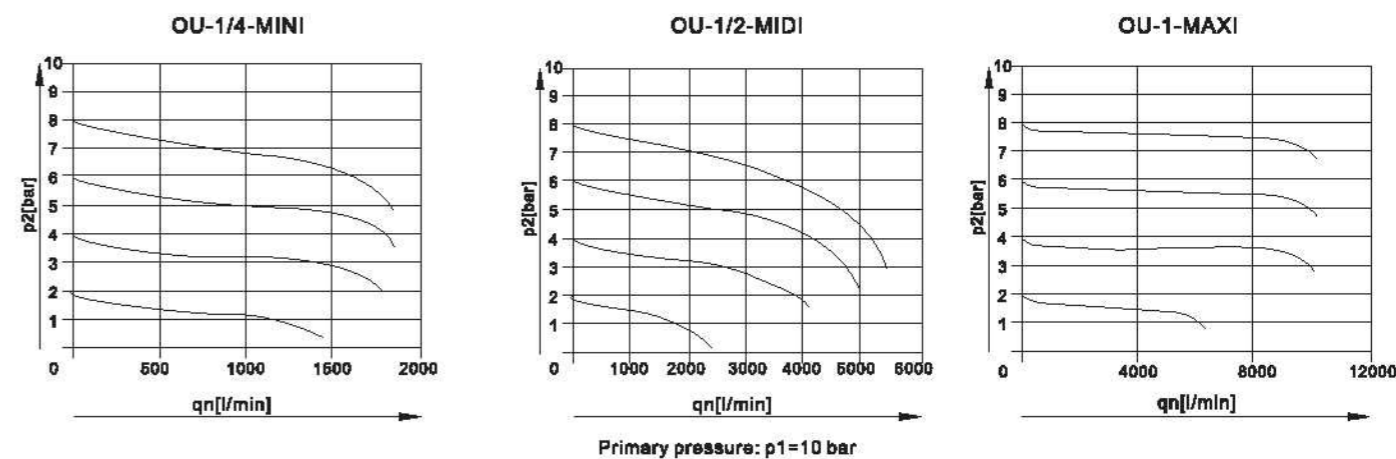
  

Model	F3φ	F4	F5φ	F6φ	L1	L2	L3	H1	H2	H3	H4	H5	H6
XOU-...-MINI	31	M4	4.5	40	44	35	11	194	169	69	17.5	20	15
XOU-...-MIDI	50	M5	5.5	52	71	60	22	250	206	97	24.5	32	15
XOU-...-MAXI	31	M5	5.5	63	71	60	22	252	223	80	24.5	32,40	15

Note: The Color Can Be Customized According to Your Requirement.

#### Flow diagram

Standard flow rate qn as a function of the output pressure p2





### XOFR Series Filter & Regulator

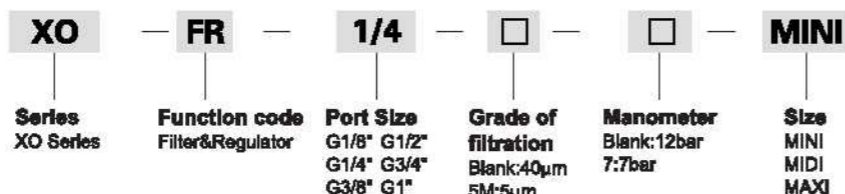
Hot



Filter and pressure regulator combine a single unit, and cleans the compressed air of fluid oil, condensation and dirt particles. For special application, the standard 40µm filter element may easily be replaced by a 5µm filter element.

The XOR maintain im putting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.

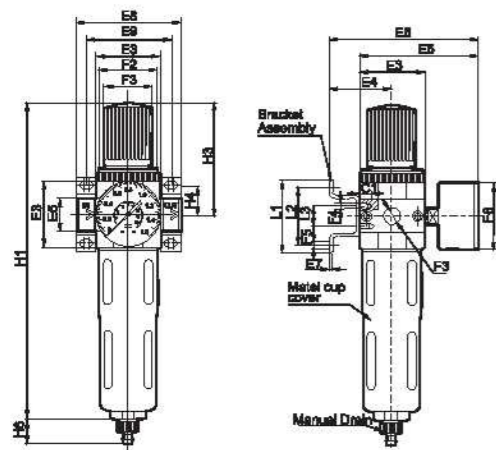
#### Ordering Code



#### Specification

Filter regulators		MINI			MIDI			MAXI		
Manual Drain	Working pressure: 12bar, 40µm	XOFR-1/8-MINI	XOFR-1/4-MINI	XOFR-3/8-MINI	XOFR-3/8-MIDI	XOFR-1/2-MIDI	XOFR-3/4-MIDI	XOFR-3/4-MAXI	XOFR-1-MAXI	
	Working pressure: 7bar, 40µm	XOFR-1/8-7-MINI	XOFR-1/4-D-7-MINI	XOFR-3/8-7-MINI	XOFR-3/8-7-MIDI	XOFR-1/2-7-MIDI	XOFR-3/4-7-MIDI	XOFR-3/4-7-MAXI	XOFR-1-7-MAXI	
	Working pressure: 12bar, 5µm	XOFR-1/8-5M-MINI	XOFR-1/4-5M-MINI	XOFR-3/8-5M-MINI	XOFR-3/8-5M-MIDI	XOFR-1/2-5M-MIDI	XOFR-3/4-5M-MIDI	XOFR-3/4-5M-MAXI	XOFR-1-5M-MAXI	
Manometer	0~12bar	OMA-40-16-1/8			OMA-50-16-1/4					
	0~7bar	OMA-40-10-1/8			OMA-50-10-1/4					
Medium		Compressed air								
Features of structure		Sintered filter with water separator; MINI/MIDI: Diaphragm type-regulator; MAXI: Piston regulator;								
Mounting type		Pipe mounting or foot mounting								
Assembly position		Vertical ±5°								
Connection		G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"	
Standard nominal flow rate	XOFR-...	750	1400	1800	3100	3400	3400	9000	10000	
	XOFR-...-7	900	1500	1700	3400	3900	3900	9500	16000	
	XOFR-...-5M	850	1200	1350	2400	2500	2500	7300	7600	
Primary pressure	Manual drain	1~16bar								
Working pressure		0.5~12bar/0.5~7bar								
Grade of filtration		40µm/5µm								
Max. Condensate Capacity		22ml								
Temperature range		0~60°C								
Materials Information		Housing: Zinc die-casting; Filter bowl: PC; Metal bowl guard: Aluminium alloy; Sealing: NBR; Adjusting knob: POM								

#### Overall Dimensions



#### Dimension Sheet

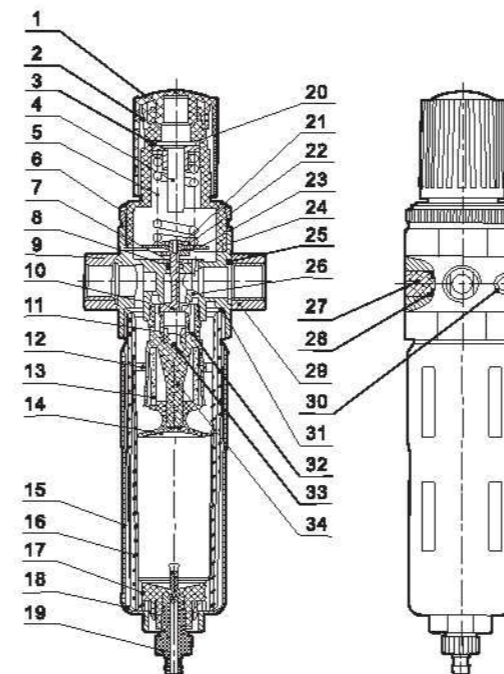
Model	E3	E4	E5	E6	E8	E9	F1	F2
XOFR-...-MINI	40	39	78	95	64	52	G1/8", G1/4", G3/8"	M36×1.5
XOFR-...-MIDI	55	47	93	112	85	70	G1/8", G1/2", G3/4"	M52×1.5
XOFR-...-MAXI	66	53	104	124	96, 116	80, 91	G3/4", G1"	M36×1.5

Model	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	H1	H3	H4	H5	H6
XOFR-...-MINI	31	M4	4.5	40	44	35	11	194	69	17.5	20	15
XOFR-...-MIDI	50	M5	5.5	52	71	60	22	250	96	24.5	32	15
XOFR-...-MAXI	31	M5	5.5	63	71	60	22	252	80	24.5	32, 40	15

### XOFR Series Filter & Regulator

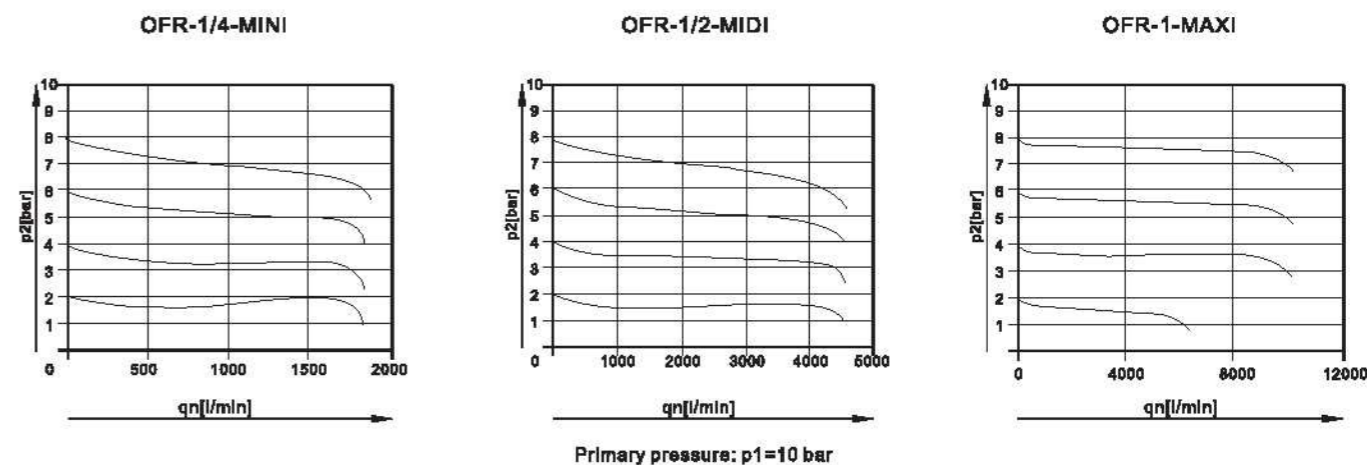
#### Internal structure



NO	Item	Material	NO	Item	Material
1	Pressure knob	POM	18	Inner joint	POM
2	Regulator cap	POM	19	Condensate drain	POM
3	Regulator nut	S35C	20	Wearing sheet	Insulation sheet
4	Adjusting spindle	S35C	21	OR Sheet	NBR
5	Pressure spring	SWC	22	Overflow base	6061-T6
6	Fixed ring	6061-T6	23	One part of diaphragm	SPCC
7	One part of membrane	PA6+G15	24	Diaphragm	NBR+Nylon Mesh
8	O-ring	NBR	25	O-ring	NBR
9	Flange-IN	Zinc alloy	26	OR Body	Zinc alloy
10	Spool	Brass	27	Plug	POM
11	O-ring	NBR	28	O-ring	NBR
12	Whirl wind impeller	POM	29	Flange-OUT	Zinc alloy
13	Filter element	PE	30	Allen screw	S35C
14	Manger	POM	31	O-ring	NBR
15	Metal bowl guard	Aluminium alloy	32	Spring	SWPB
16	Filter bowl	PC	33	Fasteners	Brass
17	O-ring	NBR	34	Filter element base	POM

#### Flow diagram

Standard flow rate qn as a function of the output pressure p2





## XOR Series Regulator



The XOR maintain inputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.

**Ordering Code**

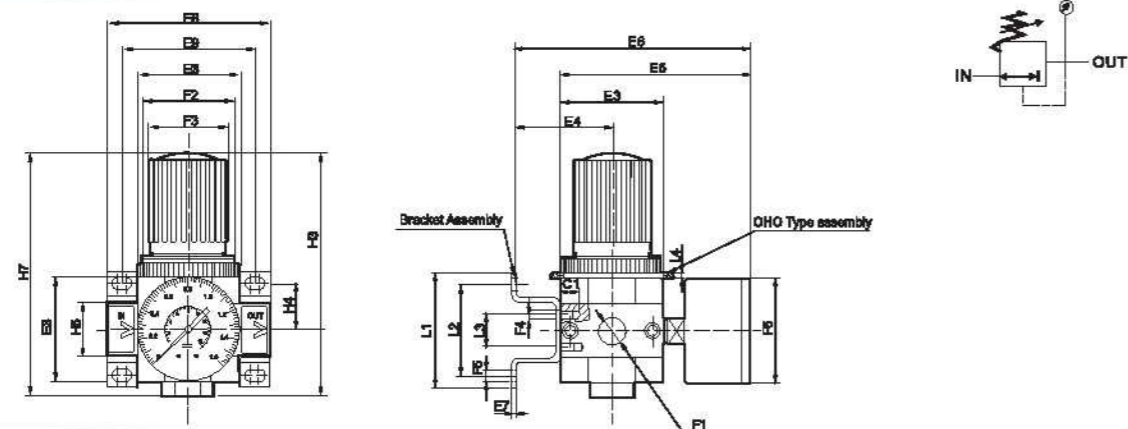
**XO** — **R** — **1/4** — **□** — **MINI**

Series: XO Series  
 Function code: Regulator  
 Port Size: G1/8", G1/4", G3/8", G1/2", G3/4", G1"  
 Manometer: Blank 12bar, 7:7bar  
 Size: MINI, MIDI, MAXI

### Specification

Regulators	MINI			MIDI			MAXI		
Working pressure 12bar	XOR-1/8-MINI	XOR-1/4-MINI	XOR-3/8-MINI	XOR-3/8-MIDI	XOR-1/2-MIDI	XOR-3/4-MIDI	XOR-3/4-MAXI	XOR-1-MAXI	
Working pressure 7bar	XOR-1/8-7-MINI	XOR-1/4-7-MINI	XOR-3/8-7-MINI	XOR-3/8-7-MIDI	OXR-1/2-7-MIDI	XOR-3/4-7-MIDI	XOR-3/4-7-MAXI	XOR-1-7-MAXI	
Manometer	0~12bar			OMA-40-16-1/8			OMA-50-16-1/4		
	0~7bar			OMA-40-10-1/8			OMA-50-10-1/4		
Medium	Filtered, compressed air (lubricated or unlubricated)								
Features of structure	MINI/MIDI: Diaphragm type regulator; MAXI: Piston regulator								
Mounting type	Pipe/foot/Plate mounting								
Assembly position	Any								
Connection	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"	
Standard nominal flow rate	XOR-...	800	1500	1700	3200	3500	3500	11000	11500
	XOR-...-7-	1000	1600	1800	3300	4000	4500	12000	12500
Primary pressure	1~16bar								
Working pressure	0.5~12bar/0.5~7bar								
Temperature range	0~60°C								
Materials information	Housing: Zinc die-casting; Sealing: NBR; Adjusting knob: POM								

### Overall Dimensions

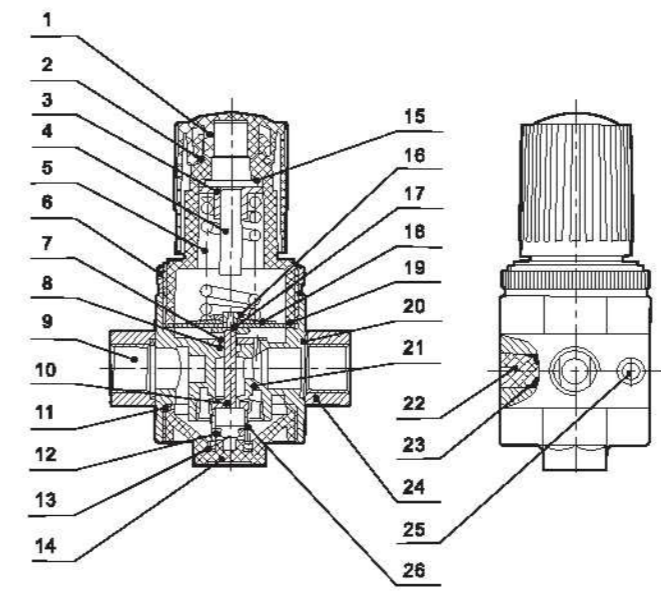


### Dimension Sheet

Model	E3	E4	E5	E6	E8	E9	F1	F2	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	L4	H3	H4	H7
XOR-...-MINI	40	39	76	95	64	52	G1/8", G1/4", G3/8"	M36×1.5	31	M4	4.5	40	44	35	11	Max.3	69	17.5	96
XOR-...-MIDI	55	47	93	112	85	70	G1/8", G1/2", G3/4"	M52×1.5	50	M5	5.5	52	71	60	22	Max.5	98	24.5	96
XOR-...-MAXI	66	53	104	124	96,116	80,91	G3/4", G1"	M36×1.5	31	M5	5.5	63	71	60	22	Max.4	80	24.5	96

## XOR Series Regulator

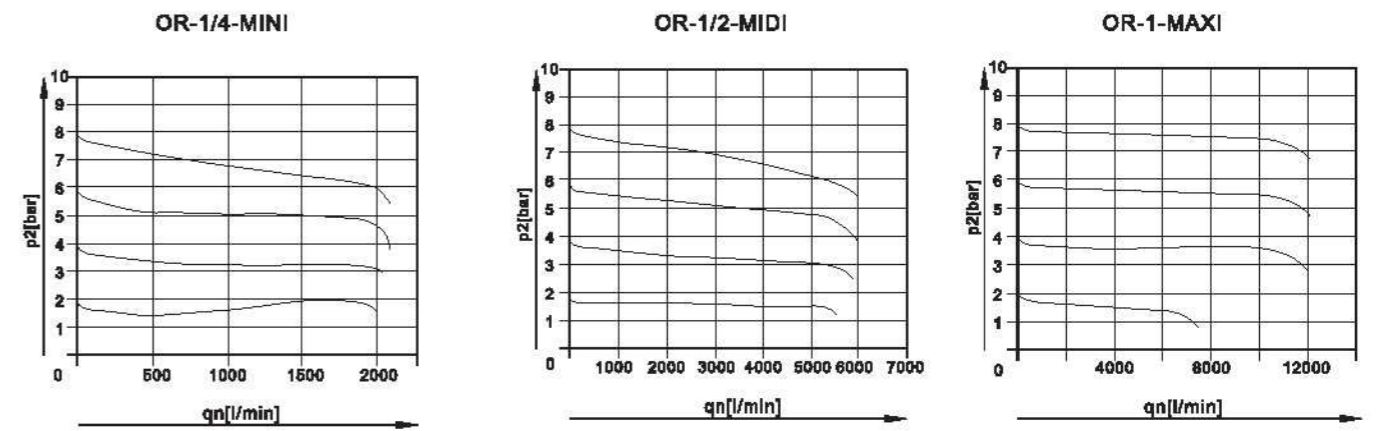
### Internal structure



NO	Item	Material
1	Pressure knob	POM
2	Regulator cap	POM
3	Regulator nut	S35C
4	Adjusting spindle	S35C
5	Pressure spring	SWC
6	Fixed ring	6061-T6
7	One part of membrane	NBR
8	O-ring	NBR
9	Flange-IN	Zinc alloy
10	Spool	Brass
11	O-ring	NBR
12	O-ring	NBR
13	Fasteners	Brass
14	Locker cover	Zinc alloy
15	Wearing sheet	Insulation sheet
16	OR Sheet	NBR
17	Overflow base	6061-T6
18	One part of diaphragm	SPCC
19	Diaphragm	NBR+Nylon Mesh
20	O-ring	NBR
21	OR Body	Zinc alloy
22	Plug	POM
23	O-ring	NBR
24	Flange-OUT	Zinc alloy
25	Allen screw	S35C
26	Spring	SWPB

### Flow diagram

Standard flow rate qn as a function of the output pressure p2





### OF Series Air Filter

Hot



The OF with water separator cleans the compressed air of fluid oil, condensation and dirt particles, for special application, the standard 40µm filter element may easily be replaced by a 5µm filter element.

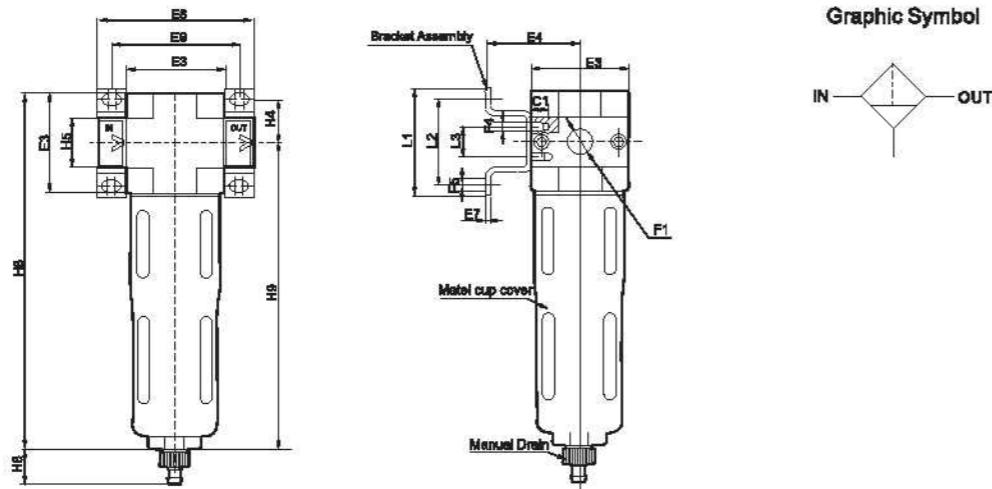
#### Ordering Code

<b>XO</b>	<b>F</b>	<b>1/4</b>		<b>MINI</b>
Series XO Series	Function code Filter	Port Size G1/8" G1/4" G3/8" G1/2" G3/4" G1"	Grade of filtration Blank:40µm 5M:5µm	Size MINI MIDI MAXI

#### Specification

Filters	MINI	MIDI	MAXI
40µm	XOF-1/8-MINI	XOF-3/8-MIDI	XOF-3/4-MAXI
5µm	XOF-1/8-5M-MINI	XOF-3/8-5M-MIDI	XOF-3/4-5M-MAXI
Medium	Compressed air		
Features of structure	Sintered filter with water separator		
Mounting type	Pipe mounting or foot mounting		
Assembly position	Vertical ±5°		
Connection	G1/8"	G1/4"	G3/4"
Standard nominal flow rate	1000	2700	5000
Primary pressure	1~16bar		
Grade of filtration	40µm/5µm		
Max condensate capacity	22ml		
Temperature range	0~60°C		
Materials information	Housing: Zinc die-casting; Filter bowl: PC; Metal bowl guard: Aluminium alloy; Sealing: NBR		

#### Overall Dimensions

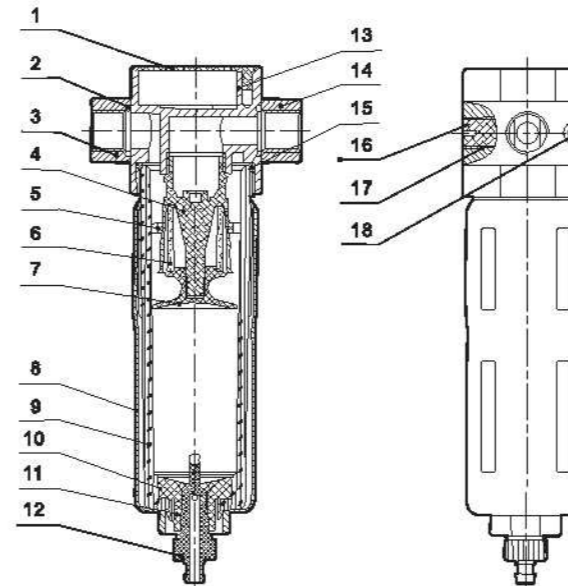


#### Dimension Sheet

Model	E3	E4	E7	E8	E9	F1	F4	F5Φ	L1	L2	L3	H4	H5	H6	H8	H9
XOF-...-MINI	40	38	2	64	52	G1/8", G1/4", G3/8"	M4	4.5	44	35	11	17.5	20	15	144	129
XOF-...-MIDI	55	47	3	85	70	G1/8", G1/2", G3/4"	M5	5.5	71	60	22	24.5	32	15	179	156
XOF-...-MAXI	68	53	3	98, 116	80, 91	G3/4", G1"	M5	5.5	71	60	22	24.5	32, 40	15	203	175

### OF Series Air Filter

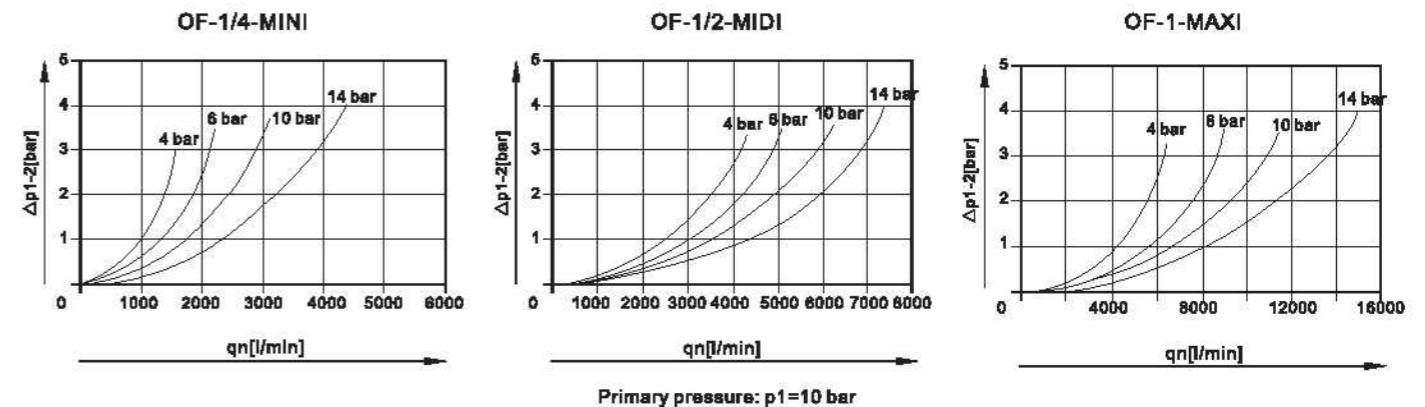
#### Internal structure



NO	Item	Material
1	Ornament cover(round)	POM
2	O-ring	NBR
3	Flange-IN	Zinc alloy
4	Filter element base	POM
5	Whirl wind Impeller	POM
6	Filter element	PE
7	Manger	POM
8	Metal bowl guard	Aluminium alloy
9	Filter bowl	PC
10	O-ring	NBR
11	Inner Joint	POM
12	Condensate drain	POM
13	OF Body	Zinc alloy
14	Flange-OUT	Zinc alloy
15	O-ring	NBR
16	Plug	POM
17	O-ring	NBR
18	Allen screw	S35C

#### Flow diagram

Standard flow rate qn as a function of the output pressure p2





### OL Series Lubricator

### OL Series Lubricator



The direct constant-density lubricator add regulated quantity oil to the compressed air. A valve maintains oil mist content proportional to the compressed oil flow.  
 The pressure drop that occurs when the air flow through a sight feed oil cup delivers oil from the bowl to the sight oil indicator. The drop of the oil flows into the air channel when it is atomized.  
 The oil drip rate is controlled by means of the regulating screw. Normally, 1 to 12 drops/1000L of the air is sufficient.

#### Ordering Code

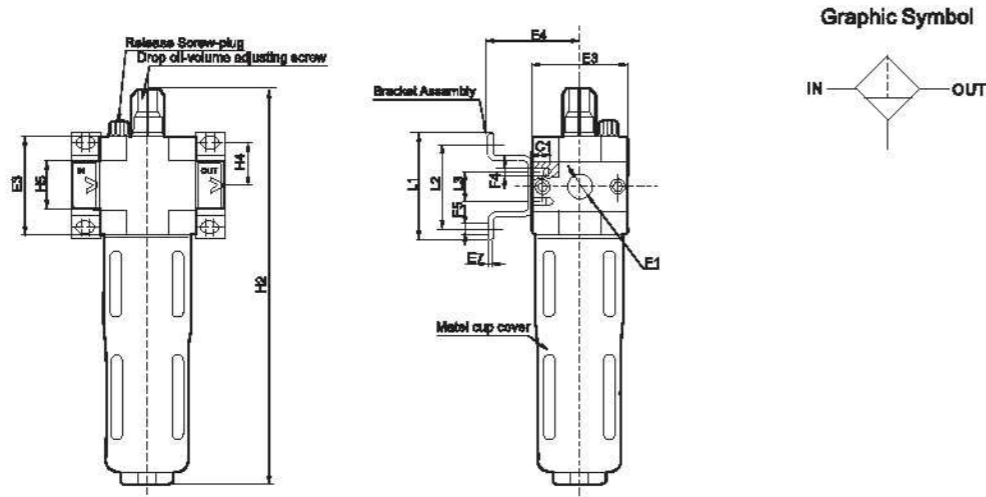
**XO** — **L** — **1/4** — **MINI**

Series: XO Series  
 Function code: Lubricator  
 Port Size: G1/8" G1/2", G1/4" G3/4", G3/8" G1"  
 Size: MINI, MIDI, MAXI

#### Specification

Lubricators	MINI		MIDI		MAXI			
Medium	Compressed air							
Features of structure	Sintered filter with water spartor The direct Constant-density Lubricator							
Mounting type	Pipe mounting or foot mounting							
Assembly position	Vertical ±5°							
Connection	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Standard nominal flow rate	1300	2300	2700	5500	8100	8300	8400	9000
Max. Working pressure	16bar							
Min. Standard nominal flow rate	3 L/min			6 L/min			10 L/min	
Max. condensate capacity	22ml							
Temperature range	0-60°C							
Materials information	Housing: Zinc die-casting; Oil bowl and Drip cap : PC; Metal bowl guard: Aluminium alloy; Sealing: NBR							
Recommended oil	ISO VG 32 or the same grade							

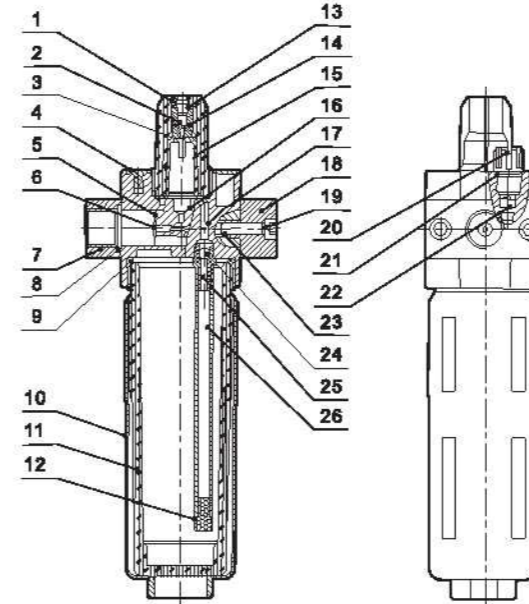
#### Overall Dimensions



#### Dimension Sheet

Model	E3	E4	E7	F1	F4	F5Φ	L1	L2	L3	H4	H5
XOL-...-MINI	40	39	2	G1/8", G1/4", G3/8"	M4	4.5	44	35	11	17.5	20
XOL-...-MIDI	55	47	3	G1/8", G1/2", G3/4"	M5	5.5	71	60	22	24.5	32
XOL-...-MAXI	66	53	3	G3/4", G1"	M5	5.5	71	60	22	24.5	32,40

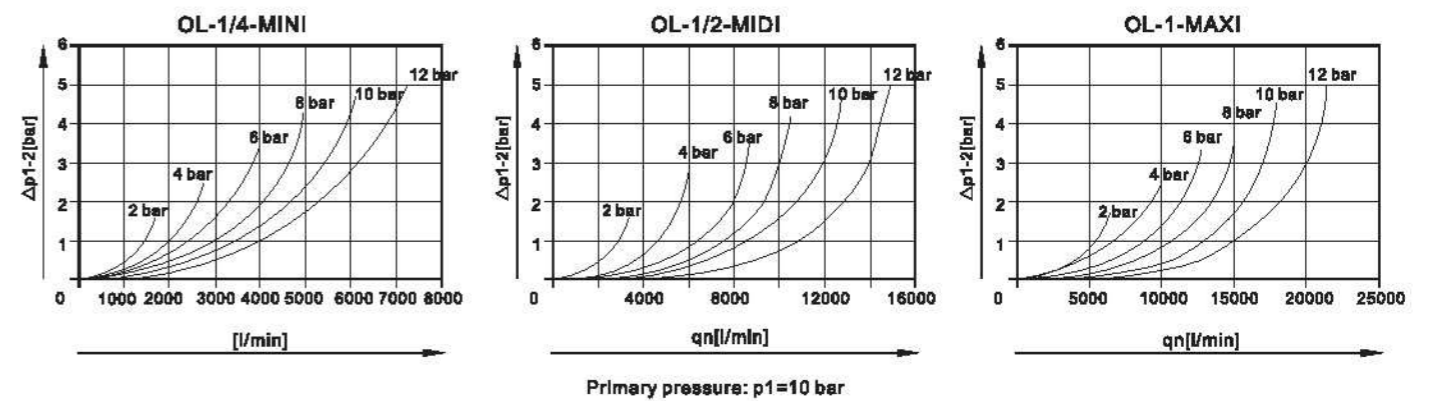
#### Internal structure



NO	Item	Material
1	Upper glass	PC
2	Adjust screw	Brass
3	O-ring	NBR
4	Ornament cover(circular)	PO
5	Windshield chip	NBR
6	Windshield base	Brass
7	Flange-IN	Zinc alloy
8	O-ring	NBR
9	O-ring	NBR
10	Metal bowl guard	Aluminium alloy
11	Lubricator bowl	PC
12	Oil-filter plup	Brass powder sintered
13	O-ring	NBR
14	Screw base	Brass
15	Oil dropping	PC
16	Seal piece	NBR
17	OL Body	Zinc alloy
18	Flange-OUT	Zinc alloy
19	Allen screw	S35C
20	Bleeder screw	POM
21	O-ring	NBR
22	Valve pin	Brass
23	Double-end bolt	SUS
24	Steel ball	SUS304
25	Oil tube connection	POM
26	Oil tube	PU

#### Flow diagram

Standard flow rate qn as a function of the output pressure p2





### A Series Air Source Treatment Unit

#### F.R.L Part list

AR3000				AF3000			
NO	NAME	QTY	MATERIAL	NO	NAME	QTY	MATERIAL
1	Regulator seat	1	ZZnA14-1	1	Regulator Body	1	Aluminum
2	O-ring	1	NBR	2	O-ring	1	NBR
3	O-ring	1	NBR	3	Whirlwing blade	1	ABS
4	Washer	1	Carbon steel	4	Filter Element	1	Brass
5	Spring	1	Stainless steel	5	Bolt blade	1	Carbon Steel
6	Retainer ring	1	Carbon steel	6	Drain blade	1	ABS
7	Valve core	1	Brass	7	Water cup	1	Poly Carbonate
8	Spool	1	Brass+NBR	8	Valve Core	1	Brass
9	Regulator Body	1	Aluminum	9	Spring	1	Stainless steel
10	Plug	1	Carbon steel	10	O-ring	1	NBR
11	O-ring	1	NBR	11	Drain valve	1	Brass
12	Retainer ring	1	Carbon steel	12	O-ring	1	NBR
13	Pipe	1	POM	13	Hex Nut	1	Brass
14	Diaphragm seat	1	Brass	14	Nut	1	Brass
15	Diaphragm	1	NBR	15	Bowl guard	1	Carbon steel
16	Spring seat	1	Carbon steel	16	Spring	1	Stainless steel
17	Spring	1	Carbon steel	17	Pin	1	ABS
18	Regulate Nut	1	Carbon steel	18	Lock	1	ABS
19	Washer	1	POM				
20	Regulate bolt	1	Carbon steel				
21	Valve cover	1	Reinforce nylon				
22	Spring washer	4	Carbon steel				
23	Cross screw	4	Carbon steel				
24	Nut	1	Reinforce nylon				
25	Symbol ring	1	Reinforce nylon				
26	Regulate handle	1	Reinforce nylon				

XAL3000				XAW3000			
NO	NAME	QTY	MATERIAL	NO	NAME	QTY	MATERIAL
1	Plug	1	ABS	1	Valve core	1	Brass
2	O-ring	1	NBR	2	Spring	1	Stainless steel
3	Oil regulate Screw	1	ABS	3	O-ring	1	NBR
4	Oil drop tube	1	Polycarbonate	4	Drain valve	1	Brass
5	O-ring	1	NBR	5	O-ring	1	NBR
6	Oil drop tube	1	Polycarbonate	6	Hex Nut	1	Brass
7	O-ring	1	NBR	7	Nut	1	Brass
8	Lubricator Body	1	Aluminum	8	Pin	1	ABS
9	Regulate needle	1	Brass	9	Lock	1	ABS
10	O-ring	1	NBR	10	Spring	1	Stain Steel
11	Oil regulate valve seat	1	Brass	11	Bowl guard	1	Carbon steel
12	Reed	1	Poly urethane	12	Whirlwing blade	1	ABS
13	Reed seat	1	ZZnA14-1	13	Filter element	1	Brass
14	Bracket	1	ZZnA14-1	14	Bolt	1	Carbon Steel
15	Small hole seat	1	Brass	15	Drain board	1	ABS
16	Steel Ball	1	Carbon steel	16	O-ring	1	NBR
17	Spring	1	Stainless steel	17	Water cup	1	Polycarbonate
18	One way valve seat	1	Brass	18	Diaphragm Pollet	1	Carbon steel
19	Reed seat board	1	ZZnA14-1	19	Diaphragm	1	NBR
20	Screw	2	Carbon steel	20	Diaphragm seat	1	Brass
21	Filter Element	1	Brass	21	Pipe	1	POM
22	O-ring	1	NBR	22	Retainer ring	1	Carbon steel
23	Middle Part	1	Aluminum	23	O-ring	1	NBR
24	Spring washer	4	Carbon steel	24	Regulator Body	1	Aluminum
25	Hex Screw	4	Carbon steel	25	Plug	1	Carbon steel
26	O-ring	1	NBR	26	Spool	1	Brass+NBR
27	Steel Ball	1	Carbon steel	27	Valve core	1	Brass
28	Fitting	1	POM	28	O-ring	1	NBR
29	Pin	1	Carbon steel	29	Retainer ring	1	Carbon steel
30	Oil tube	1	PU	30	Spring	1	Stain steel
31	O-ring	1	NBR	31	Overflow valve seat	1	ZZnA14-1
32	O-ring	1	NBR	32	Regulate handle	1	Reinforce nylon
33	Oil cup	1	Polycarbonate	33	Symbol ring	1	Reinforce nylon
34	Bowl guard	1	Carbon steel	34	Nut	1	Reinforce nylon
35	Spring	1	Stainless steel	35	Valve cover	1	Reinforce nylon
36	Pin	1	ABS	36	Cross screw	4	Carbon steel
37	Lock	1	ABS	37	Spring washer	4	Carbon steel
				38	Regulate Bolt	1	Carbon steel
				39	Washer	1	POM
				40	Regulate Nut	1	Carbon steel
				41	Spring	1	Carbon steel

### AC1000~5000 Series Air Filter Combination(F.R.L. Combination)



#### Ordering Code

<b>XA</b>	<b>C</b>	<b>3000</b>	<b>04</b>	
Series XA series	Function code F.R.L Combination	Specification Code 1000 2000 3000 4000 5000	Port Size M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Graphic Symbol
			Drain Type Blank:Manual D:Auto Drain Type (Available for 2000 or above)	

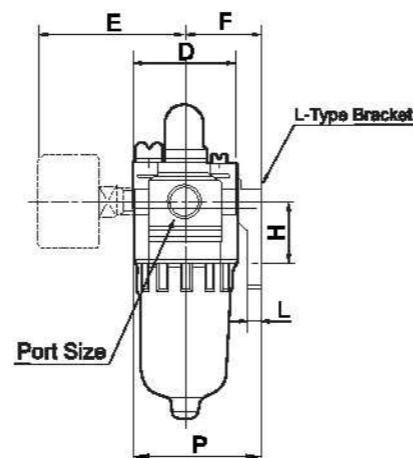
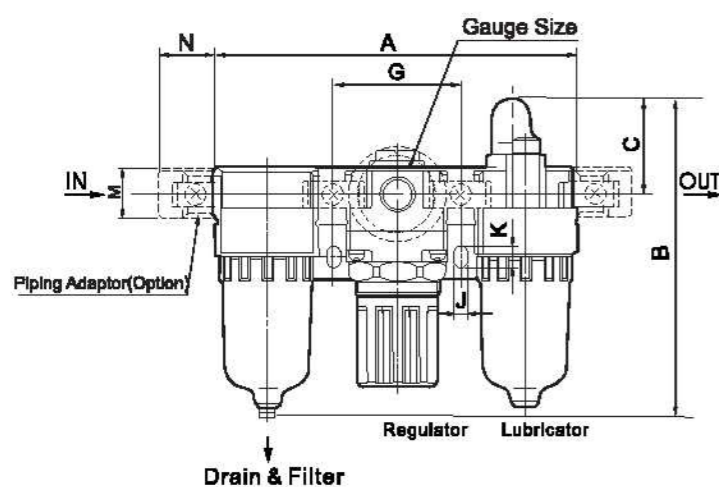
#### Specification

Model	XAC1000 -M5	XAC2000 -01	XAC2000 -02	XAC3000 -02	XAC3000 -03	XAC4000 -03	XAC4000 -04	XAC4000 -06	XAC5000 -06	XAC5000 -10	
Rated Flow	90	500	500	2000	2000	4000	4000	4500	5000	5000	
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"	
Filter Precision	25 μ										
Highest Working Pressure	1.0MPa										
Ensured pressure Resistance	1.5MPa										
Operating Temperature Range	5~80℃										
Range of Adjustable Pressure	0.05~0.7MPa					0.05~0.85MPa					
Recommended Oil Use	ISO VG 32										
Container Material						Polycarbonate					
Protective Cover	Not Available					Available					
Drain Function	Differential Drain					Differential Drain/Automatic Drain					
Valve Type	With Over flow										
Composing Elements	Filter	XAF1000-M5	XAF2000-01	XAF2000-02	XAF3000-02	XAF3000-03	XAF4000-03	XAF4000-04	XAF4000-06	XAF5000-06	XAF5000-10
	Regulator	XAR1000-M5	XAR2000-01	XAR2000-02	XAR3000-02	XAR3000-03	XAR4000-03	XAR4000-04	XAR4000-06	XAR5000-06	XAR5000-10
	Lubricator	XAL1000-M5	XAL2000-01	XAL2000-02	XAL3000-02	XAL3000-03	XAL4000-03	XAL4000-04	XAL4000-06	XAL5000-06	XAL5000-10

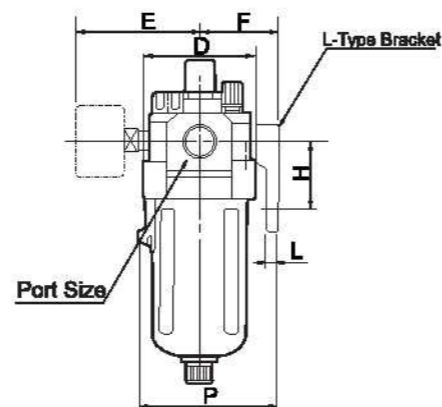
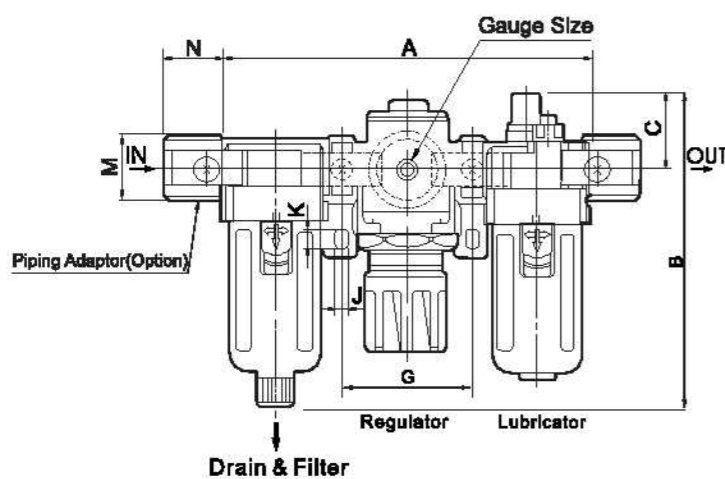


### AC1000~5000 Series Air Filter Combination(F.R.L Combination)

#### Overall Dimensions



**XAC1000~2000**

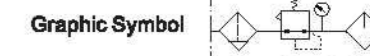


**XAC3000~5000**

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAC1000	M5	91	84.5	25.5	25	28	25	33	20	4.5	7.5	5	17.5	16	38.5
XAC2000	G1/8" ~G1/4"	140	125	38	40	56.8	30	50	24	5.5	8.5	5	22	23	50
XAC3000	G1/4" ~G3/8"	181	158.5	38	53	80.8	41	64	35	7	11	7	34.2	28	70.5
XAC4000	G3/8" ~1/2"	238	191.5	41	70	65.5	50	84	40	9	13	7	42.2	33	88
XAC4000-08	G3~4"	153	193	40.5	70	69.5	50	89	40	9	13	7	46.2	36	88
XAC5000	G3/4" ~G1"	300	271.5	48	90	75.5	69.8	105	50	12	18	10.5	55.5	40	115

### AC1010~5010 Series Air Filter Combination(FR.L Combination)



#### Ordering Code

<b>XA</b>	<b>C</b>	<b>3010</b>	<b>04</b>	<b>□</b>
<b>Series</b> XA series	<b>Function code</b> F.R.L Combination	<b>Specification Code</b> 1010 2010 3010 4010 5010	<b>Port Size</b> M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	<b>Drain Type</b> Blank:Manual Drain Type D:Auto Drain Type (Available for 2000 or above)

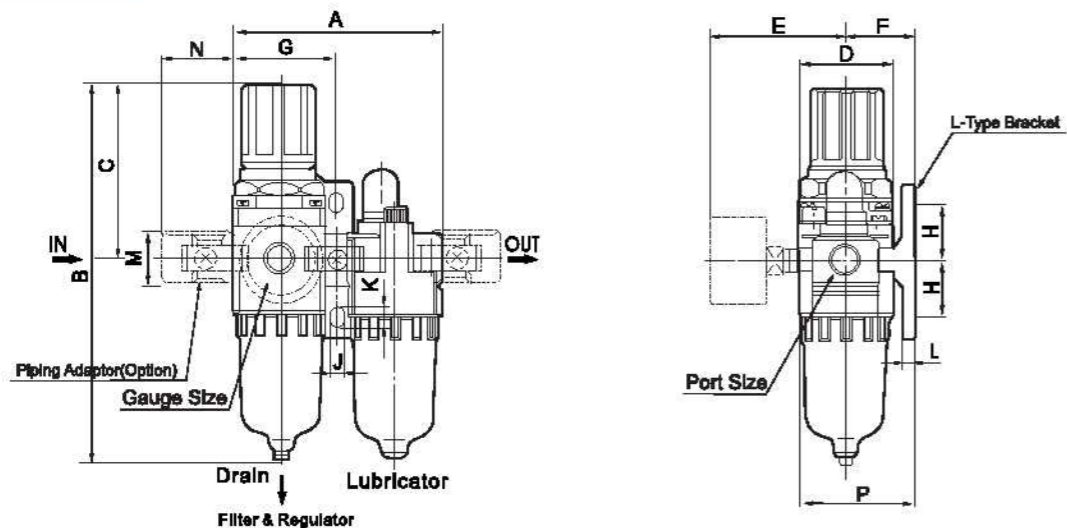
#### Specification

Model	XAC1010-M5	XAC2010-01	XAC2010-02	XAC3010-02	XAC3010-03	XAC4010-03	XAC4010-04	XAC4010-06	XAC5010-06	XAC5010-10
Rated Flow	90	500	500	1700	1700	3000	3000	3000	4000	4000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision	25 μ									
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60°C									
Range of Adjustable Pressure	0.05~0.7MPa					0.05~0.85MPa				
Recommended Oil Use	ISO VG 32									
Container Material	Polycarbonate									
Protective Cover	Not Available					Available				
Drain Function	Differential Drain					Differential Drain, Automatic Drain				
Valve Type	With Over flow									
Composing	Filter&Regulator	XAW1000-M5	XAW2000-01	XAW2000-02	XAW3000-02	XAW3000-03	XAW4000-03	XAW4000-04	XAW4000-06	XAW5000-06
Elemental	Lubricator	XAL1000-M5	XAL2000-01	XAL2000-02	XAL3000-02	XAL3000-03	XAL4000-03	XAL4000-04	XAL4000-06	XAL5000-06

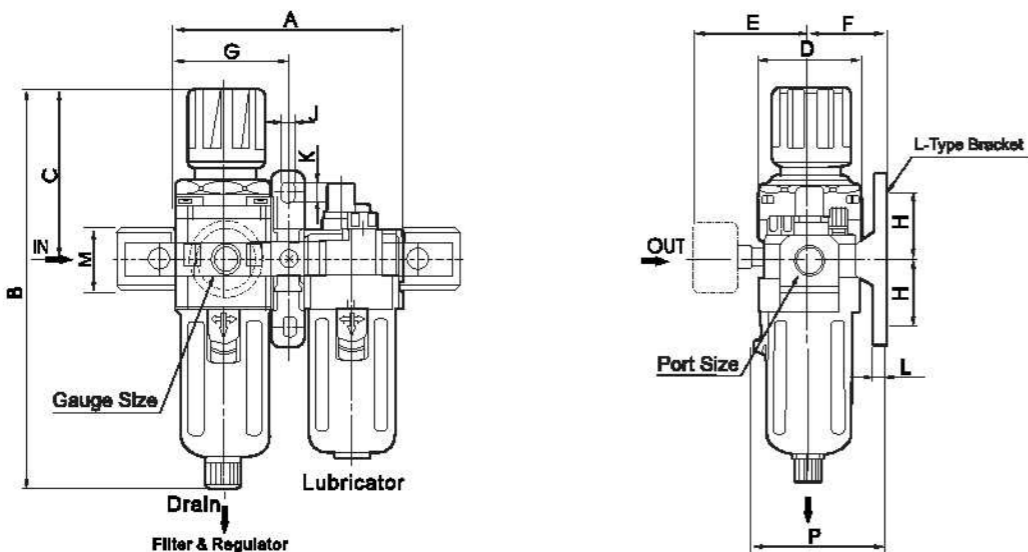


### AC1010~5010 Series Air Filter Combination(FR.L Combination)

#### Overall Dimensions



**XAC1010~2010**



**XAC3010~5010**

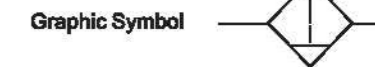
#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAC1010	M5	58	109.5	50.5	25	26	26	29	20	4.5	7.5	5	17.5	16	38.5
XAC2010	G1/8"~G1/4"	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50
XAC3010	G1/4"~G3/8"	117	211	92.5	53	80.8	41	58.5	35	7	11	7	34.2	26	70.5
XAC4010	G3/8"~1/2"	154	282	112	70	70.5	50	77	40	9	13	7	42.2	33	88
XAC4010-06	G3~4"	164	267	114	70	70.5	50	82	40	9	13	7	46.2	36	88
XAC5010	G3/4"~G1"	195	338	116	90	75.5	69.8	97.5	50	12	16	10.5	55.5	40	115

### AF1000~5000 Series Air Filter

#### Ordering Code

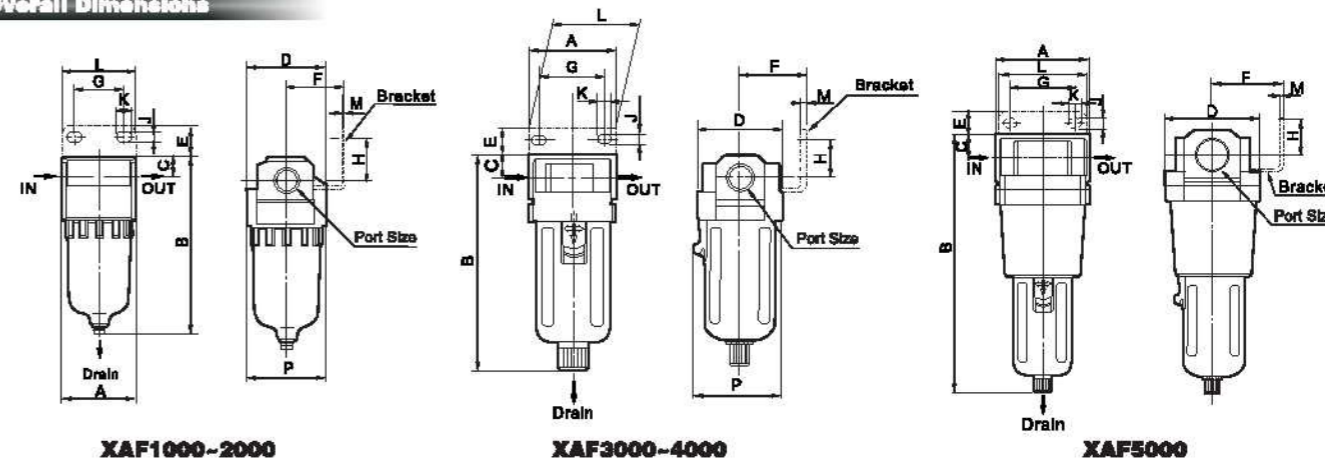
XA series	Function code Filter	Specification Code	Port Size	Drain Type
XA	F	3000	04	□
		1000	M5:M5×0.8	Blank:Manual
		2000	01:G1/8"	Drain Type
		3000	02:G1/4"	D:Auto Drain Type
		4000	03:G3/8"	(Available for 2000
		5000	04:G1/2"	or above)
			08:G3/4"	
			10:G1"	



#### Specification

Model	XAC1000-M5	XAC2000-01	XAC2000-02	XAC3000-02	XAC3000-03	XAC4000-03	XAC4000-04	XAC4000-06	XAC5000-08	XAC5000-10
Rated Flow	110	750	750	1500	1500	4000	4000	6000	7000	7000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision	25 μ									
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60°C									
Container Material	Polycarbonate									
Protective Cover	Not Available					Available				
Drain Function	Differential Drain					Differential Drain, Automatic Drain				

#### Overall Dimensions



#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
XAF1000	M5	25	66	7	25	-	-	-	-	-	-	-	-	26.5
XAF2000	G1/8"~G1/4"	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40
XAF3000	G1/4"~G3/8"	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56
XAF4000	G3/8"~1/2"	70	188.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73
XAF4000-06	G3~4"	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73
XAF5000	G3/4"~G1"	90	247.5	24	90	23	66.5	68	35	11	13	90	3.2	90





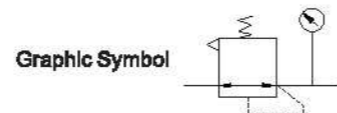
### AR 1000-5000 Series Regulator

#### Ordering Code



<b>XA</b>	<b>R</b>	<b>3000</b>	<b>04</b>
Series XA series	Function code Regulator	Specification Code 1000 2000 3000 4000 5000	Port Size M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"

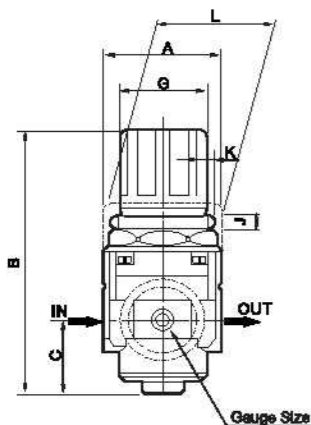
**XAR5000-10**    **XAR4000-04**    **XAR1000-M5**



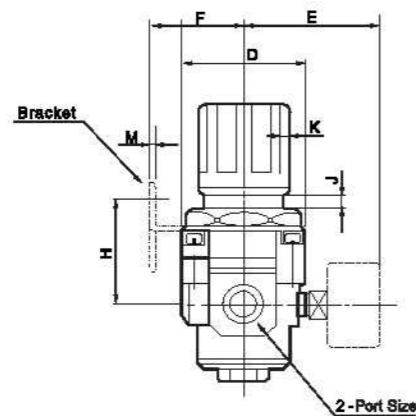
#### Specification

Model	XAR1000 -M5	XAR2000 -01	XAR2000 -02	XAR3000 -02	XAR3000 -03	XAR4000 -03	XAR4000 -04	XAR4000 -06	XAR5000 -06	XAR5000 -10
Rated Flow	100	550	550	2500	2500	6000	6000	6000	8000	8000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5-60°C									
Range of Adjustable Pressure	0.05-0.85MPa									
Valve Type	With Overflow									

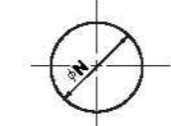
#### Overall Dimensions



**XAR1000-5000**



Panel cutting Hole



AR1000-3000:Max3.5  
AR4000-5000:Max5

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N
XAR1000	M5	25	61.5	11	25	26	25	26	30	4.5	6.5	40	2	20.5
XAR2000	G1/8"~G1/4"	40	95	17	40	56.8	30	34	44	5.4	15.4	55	2.3	33.5
XAR3000	G1/4"~G3/8"	53	127.5	35	53	60.8	39	40	46	6.5	8	53	2.3	42.5
XAR4000	G3/8"~1/2"	70	149.5	37.5	70	65.5	49.5	54	54	8.5	10.5	70	2.3	52.5
XAR4000-06	G3-4"	75	154	40.5	70	69.5	49.5	54	55.5	8.5	10.5	70	2.3	52.5
XAR5000	G3/4"~G1"	90	166	48	90	75.5	49.5	54	62	8.5	10.5	70	2.3	52.5

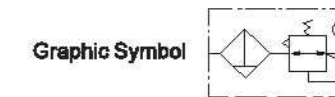
### AW 1000-5000 Series Filter & Regulator

#### Ordering Code



<b>XA</b>	<b>W</b>	<b>3000</b>	<b>04</b>	<input type="checkbox"/>
Series XA series	Function code Filter & Regulator	Specification Code 1000 2000 3000 4000 5000	Port Size M5:M5×0.8 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Drain Type Blank/Manual Drain Type D:Auto Drain Type (Available for 2000 or above)

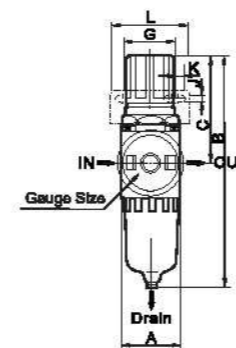
**XAW5000-10**    **XAW4000-04**    **XAW1000-M5**



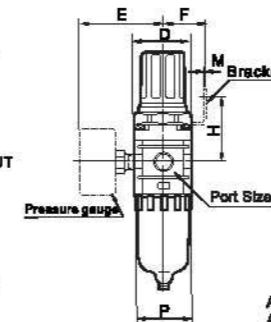
#### Specification

Model	XAW1000 -M5	XAW2000 -01	XAW2000 -02	XAW3000 -02	XAW3000 -03	XAW4000 -03	XAW4000 -04	XAW4000 -06	XAW5000 -06	XAW5000 -10
Rated Flow	100	550	550	2000	2000	4000	4000	4500	5000	5000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Filter Precision	25 μ									
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5-60°C									
Range of Adjustable Pressure	0.05-0.7MPa					0.05-0.85MPa				
Container Material	Polycarbonate									
Protective Cover	Not Available					Available				
Drain Function	Differential Drain					Differential Drain, Automatic Drain				
Valve Type	With Overflow									

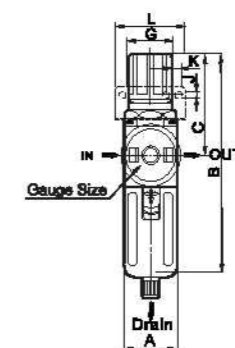
#### Overall Dimensions



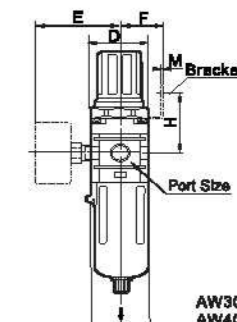
**XAW1000-2000**



AW1000:Max.gage 3.5  
AW2000:Max.gage 5



**XAW3000-5000**



AW3000:Max.gage 3.5  
AW4000-5000:Max.gage 5

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
XAW1000	M5	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2	20.5	28
XAW2000	G1/8"~G1/4"	40	164.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	33.5	40
XAW3000	G1/4"~G3/8"	53	211	82.5	53	60.8	39	40	46	6.5	8	53	2.3	42.5	56
XAW4000	G3/8"~1/2"	70	262	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	52.2	73
XAW4000-06	G3-4"	75	267	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	52.5	73
XAW5000	G3/4"~G1"	90	338	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	52.5	90



### AL 1000~5000 Series Lubricator

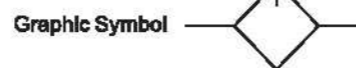
#### Ordering Code

**XA** — **L** — **3000** — **04**  
 Series XA series    Function code Lubricator    Specification Code    Port Size  
 1000    2000    3000    4000    5000  
 M5:M5×0.8  
 01:G1/8"  
 02:G1/4"  
 03:G3/8"  
 04:G1/2"  
 06:G3/4"  
 10:G1"

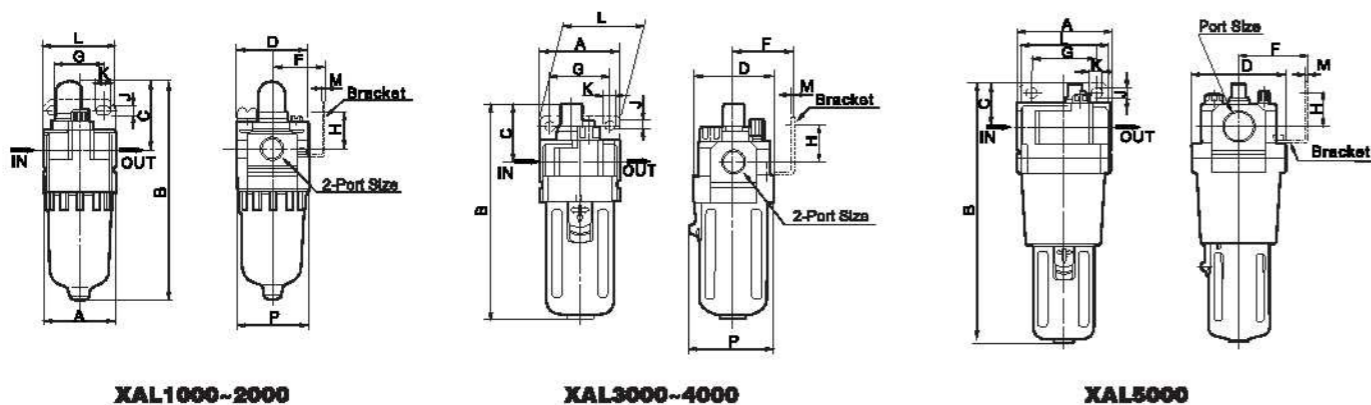
**XAL5000-10**    **XAL4000-04**    **XAL1000-M5**

#### Specification

Model	XAL1000-M5	XAL2000-01	XAL2000-02	XAL3000-02	XAL3000-03	XAL4000-03	XAL4000-04	XAL4000-06	XAL5000-06	XAL5000-10
Rated Flow	85	800	800	1700	1700	5000	5000	6300	7000	9000
Port Size	M5	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G3/4"	G1"
Highest Working Pressure	1.0MPa									
Ensured pressure Resistance	1.5MPa									
Operating Temperature Range	5~60°C									
Recommended Oil Use	ISO VG 32									
Container Material	Polycarbonate									
Protective Cover	Not Available					Available				



#### Overall Dimensions



#### Dimension Sheet

Model	Port Size (G)	A	B	C	D	F	G	H	J	K	L	M	P
XAL1000	M5	25	81.5	25.5	25	-	-	-	-	-	-	-	27
XAL2000	G1/8"~G1/4"	40	122	38	40	30	27	22	5.4	8.4	40	2.3	40
XAL3000	G1/4"~G3/8"	53	142	38	53	41	40	23	8.5	8	53	2.3	58
XAL4000	G3/8"~1/2"	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73
XAL4000-06	G3-4"	75	177	39	70	50	54	25	8.5	10.5	70	2.3	73
XAL5000	G3/4"~G1"	90	254	45	90	66.5	66	35	11	13	90	3.2	90

### XG Series 2000~5000 Source Treatment Unit

#### Ordering Code

**XGC2** — **01** — □ — **L**  
 Model Port Size    Series Code    Port Size    Drain Type    Pressure Range  
 XGC2-01 G1/8"    Filter&Regulator+Lubricator    Blank:Differential Drain    Blank:Standard L:Low-Pressure Type  
 XGC2-02 G1/4"  
 XGC3-02 G1/4"  
 XGC3-03 G3/8"  
 XGC3-04 G1/2"



**XGWL2** — **01** — □ — **L**  
 Model Port Size    Series Code    Port Size    Drain Type    Pressure Range  
 XGWL2-01 G1/8"    Filter&Regulator+Lubricator    Blank:Differential Drain    Blank:Standard L:Low-Pressure Type  
 XGWL2-02 G1/4"  
 XGWL3-02 G1/4"  
 XGWL3-03 G3/8"  
 XGWL3-04 G1/2"



**XGFR2** — **01** — **L** — □  
 Model Port Size    Series Code    Port Size    Pressure Range    Bracket  
 XGFR2-01 G1/8"    Filter&Regulator    Blank:Standard L:Low-Pressure Type    Blank:Without bracket J:With bracket  
 XGFR2-02 G1/4"  
 XGFR3-02 G1/4"  
 XGFR3-03 G3/8"  
 XGFR3-04 G1/2"



**XGF2** — **01** — **D** — **W**  
 Model Port Size    Series Code    Port Size    Drain Type    Precision Filter  
 XGF2-01 G1/8"    Filter    Blank:Differential Drain    Blank:40µm W:5µm  
 XGF2-02 G1/4"  
 XGF3-02 G1/4"  
 XGF3-03 G3/8"  
 XGF3-04 G1/2"



**XGL2** — **01** — □  
 Model Port Size    Series Code    Port Size    Thread Type  
 XGL2-01 G1/8"    Lubricator    Blank: BSP NPT: NPT PT: PT  
 XGL2-02 G1/4"  
 XGL3-02 G1/4"  
 XGL3-03 G3/8"  
 XGL3-04 G1/2"



**XGR2** — **01** — **L** — □  
 Model Port Size    Series Code    Port Size    Pressure Range    Bracket  
 XGR2-01 G1/8"    Regulator    Blank:Standard L:Low-Pressure Type    Blank:Without bracket J:With bracket  
 XGR2-02 G1/4"  
 XGR3-02 G1/4"  
 XGR3-03 G3/8"  
 XGR3-04 G1/2"





### MAC 2000~5000 Series Air Filter Combination(Three Elements)

#### Ordering Code

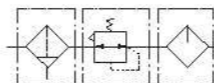
<b>XMA</b>	<b>C</b>	<b>3000</b>	<b>04</b>	<b>□</b>
Series XMA series	Function code Filter+Regulator+ Lubricator	Specification Code 2000 3000 4000 5000	Port Size 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Drain Type Blank:Manual Drain Type D:Auto Drain Type (Available for 3000 or above)



**XMAC4000-04**

**XMAC2000-02**

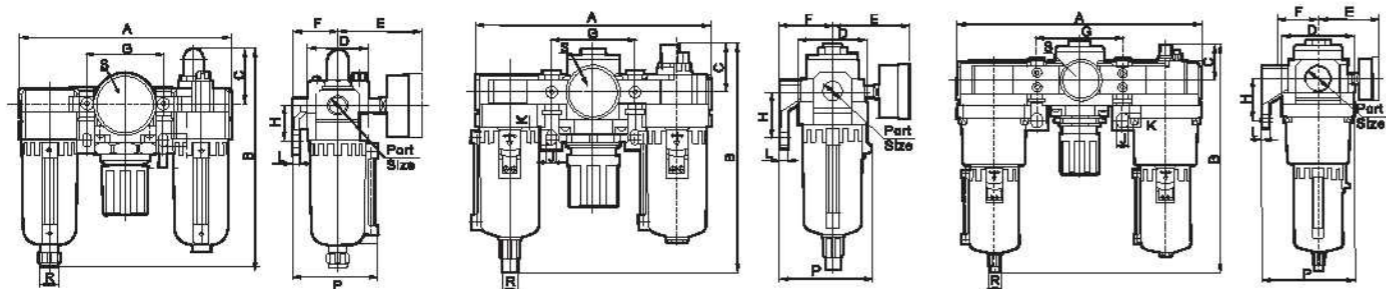
Graphic Symbol



#### Specification

Model	XMAC2000 -01	XMAC2000 -02	XMAC3000 -02M	XMAC3000 -03	XMAC4000 -03	XMAC4000 -04	XMAC4000 -06	XMAC5000 -06	XMAC5000 -10
Ensured Pressure Resistance	1.5MPa(15kgf/cm <sup>2</sup> )								
Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )								
Operating Temperature Range	5~60℃								
Filter Precision	25 μ & 5 μ & 50 μ								
Recommended Oil Use	Turbie NO.1 Oil ISOVG32								
Container Material	Aluminum Die Casting								
Pressure Regulating Range	0.05~0.85MPa(0.05~0.85kgf/cm <sup>2</sup> )								
Valve Type	With Overflow								
Assembly	Filter	XMAF2000		XMAF3000		XMAF4000		XMAF5000	
	Regulator	XMAR2000		XMAR3000		XMAR4000		XMAR5000	
	Lubricator	XMAL2000		XMAL3000		XMAL4000		XMAL5000	
Rated Flow(L/min)	500		2000		4000		4500		5000
Port Size(G)	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"

#### Overall Dimensions



**XMAC2000**

**XMAC3000~4000**

**XMAC5000**

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	R	S
XMAC2000	1/8"-1/4"	140	147	38	40	56.8	30	50	24	5.5	8.5	5	56	φ8	G1/8
XMAC3000	1/4"-3/8"	181	178	38	53	60.8	41	64	35	7	11	7	70.5	φ8	G1/8
XMAC4000	1/2"	238	207	41	70	65.5	50	84	40	9	13	7	87.5	φ8	G1/4
XMAC4000-06	3/4"	253	208.5	40.5	70	69.5	50	89	40	9	13	7	87.5	φ8	G1/4
XMAC5000	3/4"-1"	300	287	48	90	75.5	69.8	105	50	12	16	10.5	115	φ8	G1/4



### XMAC 2010~5010 Series Air Filter Combination(Two Elements)

#### Ordering Code

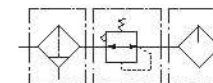
<b>XMA</b>	<b>C</b>	<b>3010</b>	<b>04</b>	<b>□</b>
Series XMA series	Function code FRL Combination	Specification Code 2010 3010 4010 5010	Port Size 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	Drain Type Blank:Manual Drain Type D:Auto Drain Type (Available for 3000 or above)



**XMAC4010-04**

**XMAC2010-02**

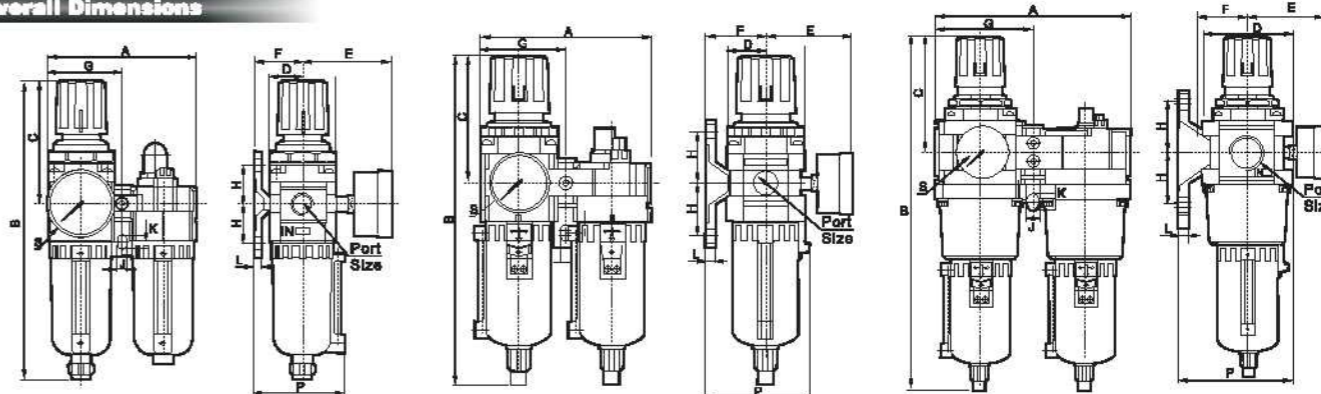
Graphic Symbol



#### Specification

Model	XMAC2010 -01	XMAC2010 -02	XMAC3010 -02	XMAC3010 -03	XMAC4010 -03	XMAC4010 -04	XMAC4010 -06	XMAC5010 -06	XMAC5010 -06
Ensured Pressure Resistance	1.5MPa(15kgf/cm <sup>2</sup> )								
Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )								
Operating Temperature Range	5~60℃								
Filter Precision	25 μ & 5 μ & 50 μ								
Recommended Oil Use	Turbie NO.1 Oil ISOVG32								
Container Material	Aluminum Die Casting								
Pressure Regulating Range	0.05~0.85MPa(0.05~0.85kgf/cm <sup>2</sup> )								
Valve Type	With Overflow								
Assembly	Filter with pressure reducer	XMAW2000		XMAW3000		XMAW4000		XMAW5000	
	Lubricator	XMAR2000		XMAR3000		XMAR4000		XMAR5000	
	Rated Flow(L/min)	500		1700		3000		4000	
Port Size(G)	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"

#### Overall Dimensions



**XMAC2010**

**XMAC3010~4010**

**XMAC5010**

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	P	S
XMAC2010	1/8"-1/4"	90	186.5	78	40	56.8	30	45	24	5.5	8.5	5	56	G1/8
XMAC3010	1/4"-3/8"s	117	232.5	92.5	53	60.8	41	58.5	35	7	11	7	69.5	G1/8
XMAC4010	1/2"	154	277	112	70	65.5	50	77	40	9	13	7	87.5	G1/4
XMAC4010-06	3/4"	164	282.5	114	70	69.5	50	82	40	9	13	7	87.5	G1/4
XMAC5010	3/4"-1"	195	353.5	116	90	75.5	69.8	97.5	50	12	16	10.5	115	G1/4



### MAW 2000~5000 Series Filter & Regulator



**Ordering Code**

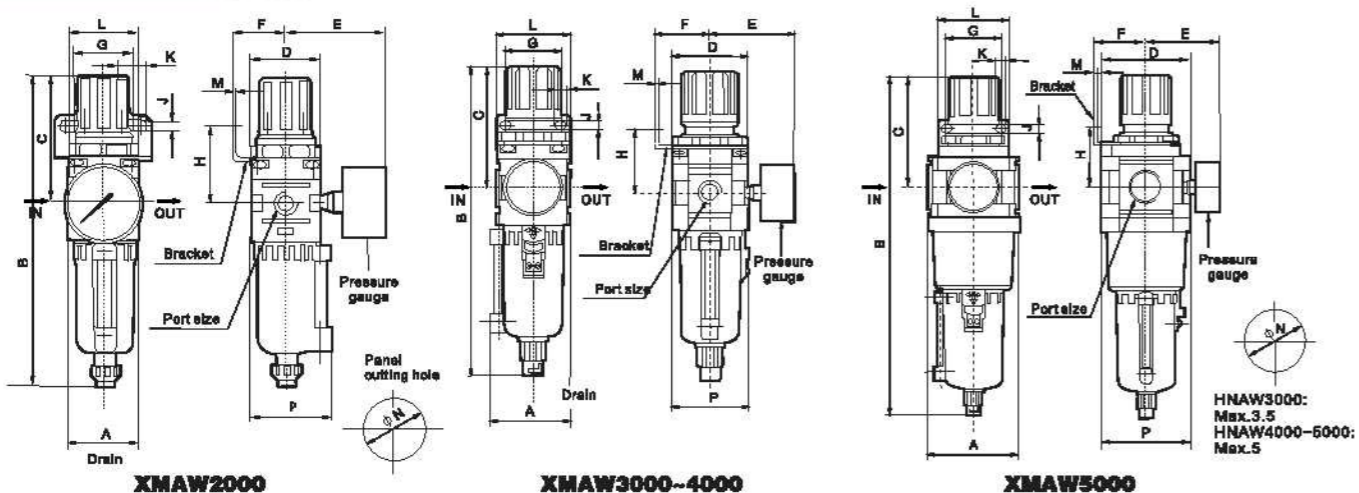
<b>XMA</b>	<b>W</b>	<b>3000</b>	<b>04</b>	<input type="checkbox"/>
<b>Series</b> XMA series	<b>Function code</b> Filter&Regulator	<b>Specification Code</b> 2000 3000 4000 5000	<b>Port Size</b> 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	<b>Drain Type</b> Blank:Manual D:Auto Drain Type (Available for 2000 or above)

XMAW4000-04 XMAW2000-02

**Specification**

Model	XMAW2000-01	XMAW2000-02	XMAW3000-02	XMAW3000-03	XMAW4000-03	XMAW4000-04	XMAW4000-06	XMAW5000-06	XMAW5000-10
Ensured Pressure Resistance	1.5MPa(15kgf/cm <sup>2</sup> )								
Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )								
Operating Temperature Range	5~60°C								
Filter Precision	25 μ & 5 μ & 50 μ								
Container Material	Aluminum Die Casting								
Pressure Regulating Range	0.05~0.85MPa(0.5~0.85kgf/cm <sup>2</sup> )								
Valve Type	With Overflow								
Rated Flow(L/min)	550		2000		4000		4500		5500
Port Size(G)	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"
Pressure Gauge Size	1/8		1/8		1/4		1/4		1/4

**Overall Dimensions**



**Dimension Sheet**

Model	Port Size(G)	A	B	C	D	E	F	G	H	J	K	L	M	P
XMAW2000	1/8"-1/4"	40	186.5	78	40	56.8	30	34	43.5	5.4	15.4	55	2.3	46
XMAW3000	1/4"-3/8"s	57.5	232.5	82.5	53	60.8	39	40	46	6.5	8	53	2.3	55
XMAW4000	1/2"s	74	278	112	70	70.5	49.2	54	53.5	8.5	10.5	70	2.3	72.5
XMAW4000-06	3/4"s	76.5	282	114	70	70.5	49.2	54	55.5	8.5	10.5	70	2.3	72.5
XMAW5000	3/4"-1"	90	355	116	90	75.5	49.2	54	62	8.5	10.5	70	2.3	90



### XMAF 2000~5000 Series Air Filter



**Ordering Code**

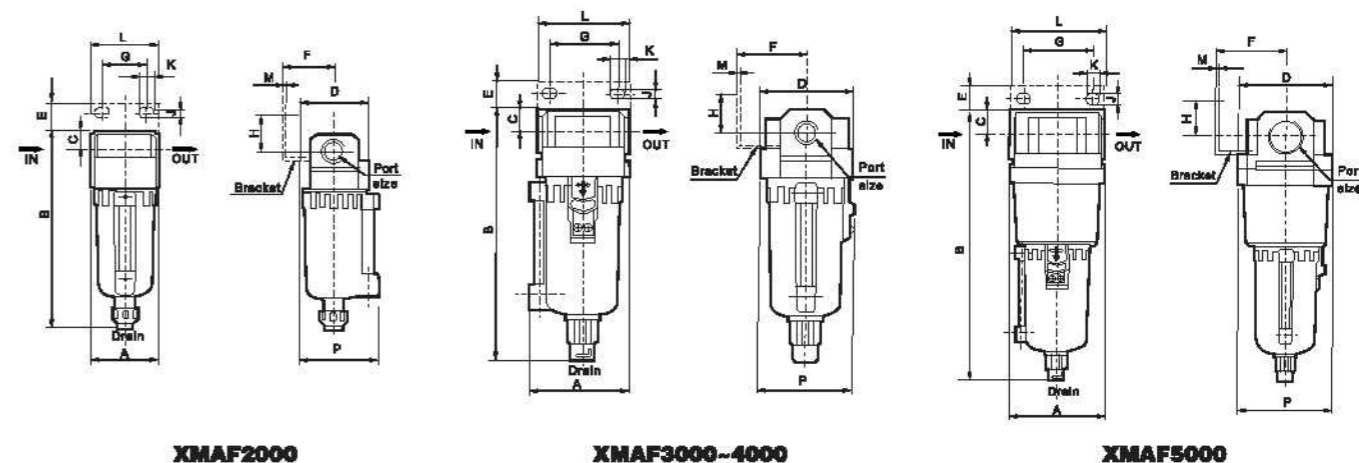
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<b>Series</b> XMA series	<b>Function code</b> Filter	<b>Specification Code</b> 2000 3000 4000 5000	<b>Port Size</b> 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"	<b>Drain Type</b> Blank:Manual D:Auto Drain Type (Available for 2000 or above)

XMAF4000-04 XMAF2000-02

**Specification**

Model	XMAF2000-01	XMAF2000-02	XMAF3000-02	XMAF3000-03	XMAF4000-03	XMAF4000-04	XMAF4000-06	XMAF5000-06	XMAF5000-10
Ensured Pressure Resistance	1.5MPa(15kgf/cm <sup>2</sup> )								
Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )								
Operating Temperature Range	5~60°C								
Filter Precision	25 μ & 5 μ & 50 μ								
Container Material	Aluminum Die Casting								
Rated Flow(L/min)	750		1500		4000		6000		7000
Port Size(G)	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"
Bowl Capacity	15		20		45		45		130

**Overall Dimensions**



**Dimension Sheet**

Model	Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
XMAF2000	1/8"-1/4"	40	119.5	11	40	17	27	22	5.4	8.4	40	2.3	46
XMAF3000	1/4"-3/8"s	57.4	154	14	53	16	40	23	6.5	8	53	2.3	55
XMAF4000	1/2"	74	184	18	70	17	54	26	8.5	10.5	70	2.3	72.5
XMAF4000-06	3/4"	76.5	188	20	70	14	54	25	8.5	10.5	70	2.3	72.5
XMAF5000	3/4"-1"	90	263	24	90	23	66	35	11	13	90	3.2	90



### MAL 2000~5000 Series Lubricator



**XMAL4000-04**



**XMAL2000-02**

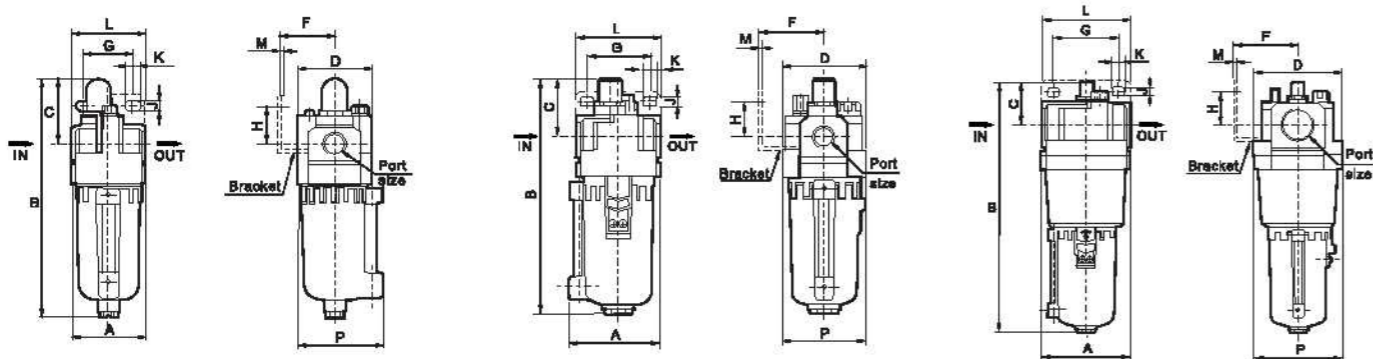
#### Ordering Code

<b>XMA</b>	<b>L</b>	<b>3000</b>	<b>04</b>
Series XMA series	Function code Lubricator	Specification Code 2000 3000 4000 5000	Port Size 01:G1/8" 02:G1/4" 03:G3/8" 04:G1/2" 06:G3/4" 10:G1"

#### Specification

Model	XMAL2000-01	XMAL2000-02	XMAL3000-02	XMAL3000-03	XMAL4000-03	XMAL4000-04	XMAL4000-06	XMAL5000-06	XMAL5000-10
Ensured Pressure Resistance	1.5MPa(15kgf/cm <sup>2</sup> )								
Highest Working Pressure	1.0MPa(10kgf/cm <sup>2</sup> )								
Operating Temperature Range	5~60°C								
Recommended Oil Use	Turble NO.1 Oil ISOVG32								
Container Material	Aluminum Die Casting								
Minimal Flow of Oil Drop(L/min)	15	30	40	40	50	50	50	190	190
Rated Flow(L/min)	800	1700	1700	1700	5000	5000	5000	7000	7000
Port Size(G)	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"
Bowl Capacity	25	50	50	50	130	130	130	130	130

#### Overall Dimensions



**XMAL2000**

**XMAL3000-4000**

**XMAL5000**

#### Dimension Sheet

Model	Port Size(G)	A	B	C	D	F	G	H	J	K	L	M	P
XMAL2000	1/8"-1/4"	40	137	39	50	30	27	22	5.4	8.4	40	2.3	40
XMAL3000	1/4"-3/8"	57.4	154.5	39	53	41	40	23	6.5	8	53	2.3	55
XMAL4000	1/2"	74	185.5	41	70	50	54	26	8.5	10.5	70	2.3	72.5
XMAL4000-06	3/4"	76.5	185.5	39	70	50	54	25	8.5	10.5	70	2.3	72.5
XMAL5000	3/4"-1"	90	262.5	45	90	68.5	68	35	11	13	90	3.2	90



### AC,BC Series Air Source Treatment Unit(F.R.L)



**BC3000**

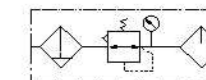


**AC2000**

#### Ordering Code

<b>BC</b>	<b>3000</b>	<b>□</b>
Series AC:Small Size BC:Middle Size	Port Size 1500:G1/8" 2000:G1/4" 3000:G3/8" 4000:G1/2"	Drain Type Blank:Manual Drain Type D:Auto Drain Type

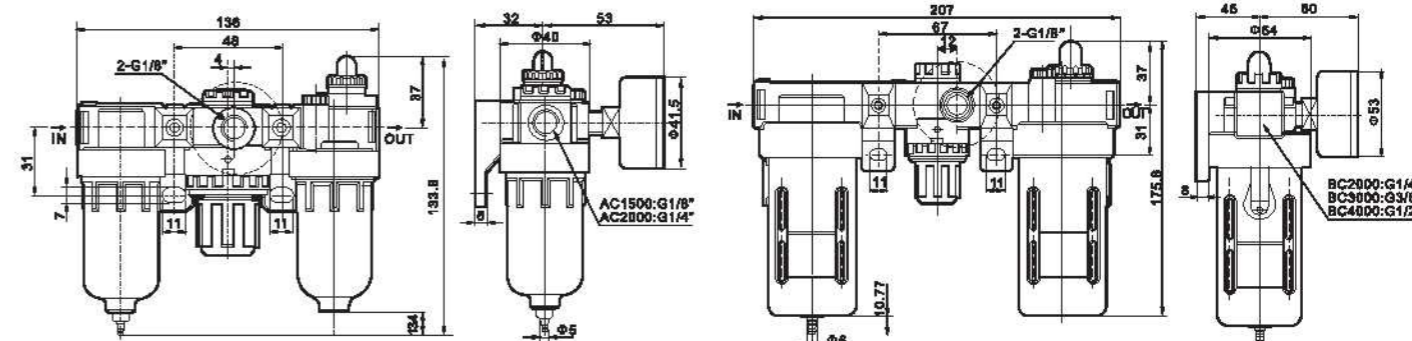
#### Graphic Symbol



#### Specification

Model	AC1500	AC2000	BC2000	BC3000	BC4000	
Operating Fluid	Air					
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"	
Filtering Element Reughness	40 μ					
Range of Adlutable Pressure	0.05~0.85MPa					
Max Adlutable Pressure	0.95MPa					
Ensured Pressure Resistance	1.5MPa					
Operating Temperature Range	5~60°C					
Capacity of Filter Cup	15 cc			60 cc		
Capacity of Oil Feed Cup	25 cc			90 cc		
Suggested Lube	ISO VG 32 or Same Grade Oil					
Weight	0.7 KG			0.9 KG		
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	Iron				
Composing Elements	Filter	AF1500	AF2000	BF2000	BF3000	BF4000
	Regulator	AR1500	AR2000	BR2000	BR3000	BR4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

#### Overall Dimensions



**AC Series**

**BC Series**



### AFC,BFC Series Air Source Treatment Unit(FR.L)



**BFC3000**

**AFC2000**

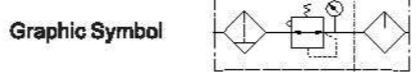
**Ordering Code**

**BFC** — **3000** — □

**Series**  
AFC:Small Size  
BFC:Middle Size

**Port Size**  
1500:G1/8"  
2000:G1/4"  
3000:G3/8"  
4000:G1/2"

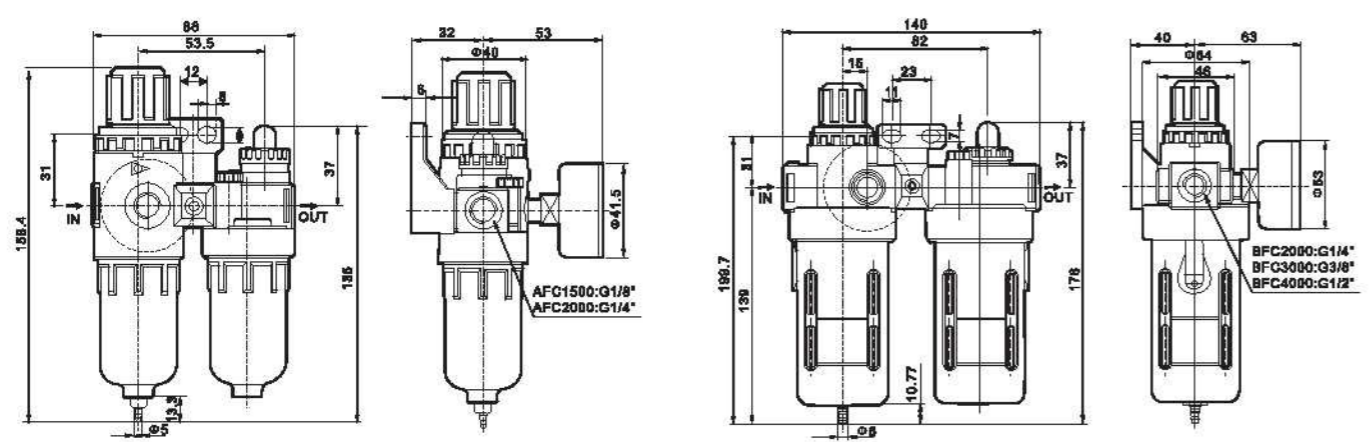
**Drain Type**  
Blank:Manual Drain Type  
D:Auto Drain Type



#### Specification

Model	AFC1500	AFC2000	BFC2000	BFC3000	BFC4000	
Operating Fluid	Air					
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"	
Filtering Element Roughness	40 μ					
Range of Adjustable Pressure	0.05~0.85MPa					
Max Adjustable Pressure	0.95MPa					
Ensured Pressure Resistance	1.5MPa					
Operating Temperature Range	5~60°C					
Capacity of Filter Cup	15 cc			60 cc		
Capacity of Oil Feed Cup	25 cc			90 cc		
Suggested Lube	ISO VG 32 or Same Grade Oil					
Weight	0.5 KG			0.7 KG		
Material	Body	Aluminum Die-casting Forming				
	Container Cup	PE				
	Protective Cup Cover	Iron				
Composing Elements	Filter & Regulator	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

#### Overall Dimensions



**AFC Series**

**BFC Series**

### AFR,BFR Series Filter&Regulator



**BFR3000**

**AFR2000**

**Ordering Code**

**BFR** — **3000** — □

**Series**  
AFR:Small Size  
BFR:Middle Size

**Port Size**  
1500:G1/8"  
2000:G1/4"  
3000:G3/8"  
4000:G1/2"

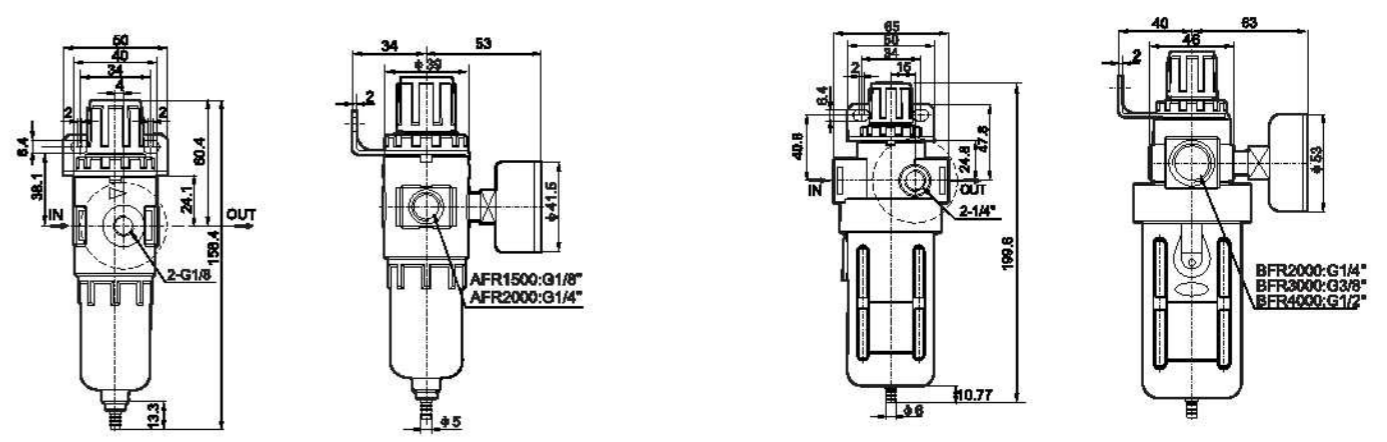
**Drain Type**  
Blank:Manual Drain Type  
D:Auto Drain Type



#### Specification

Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure	0.05~0.85MPa				
Max Adjustable Pressure	0.95MPa				
Ensured Pressure Resistance	1.5MPa				
Operating Temperature Range	5~60°C				
Capacity of Filter Cup	15 cc			60 cc	
Weight	0.26 KG			0.40 KG	
Material	Body	Aluminum Die-casting Forming			
	Container Cup	PE			
	Protective Cup Cover	Iron			

#### Overall Dimensions



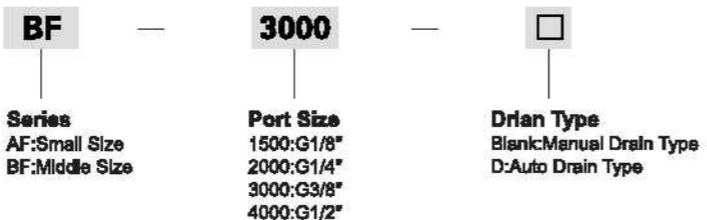
**AFR Series**

**BFR Series**



### AF,BF Series Air Filter

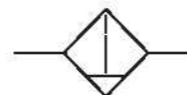
#### Ordering Code



BF3000

AF2000

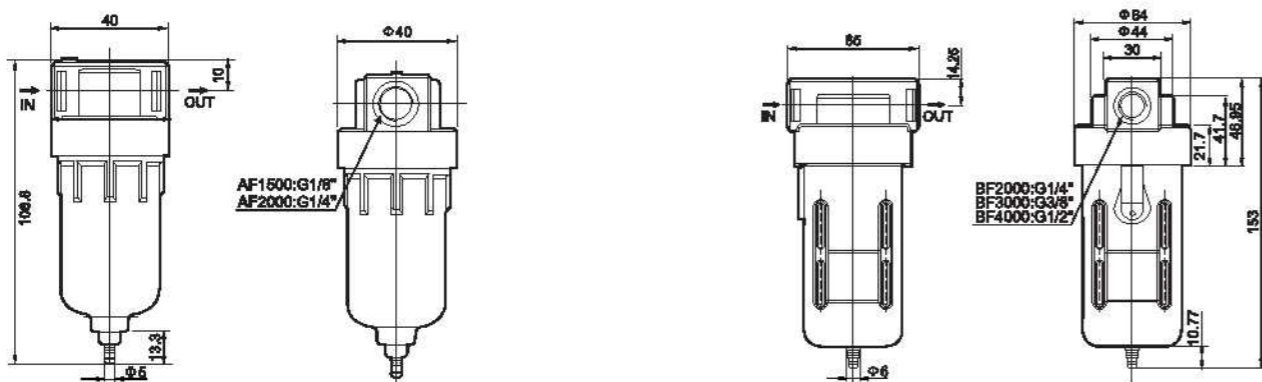
Graphic Symbol



#### Specification

Model	AF1500	AF2000	BF2000	BF3000	BF4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filtrating Element Reughness	40 μ				
Ensured Pressure Resistance	1.5MPa				
Operating Temperature Range	5~60°C				
Capacitv of Filter Cup	15 cc		80 cc		
Weight	0.14 KG		0.33KG		
Material	Body Aluminum Die-casting Forming				
	Container Cup PE				
	Protective Cup Cover - Iron				

#### Overall Dimensions



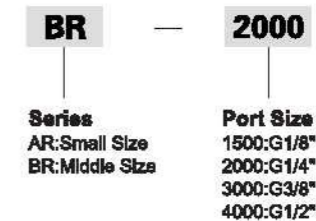
AF Series

BF Series



### AR,BR Series Regulator

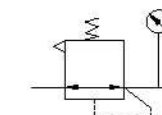
#### Ordering Code



BR3000

AR2000

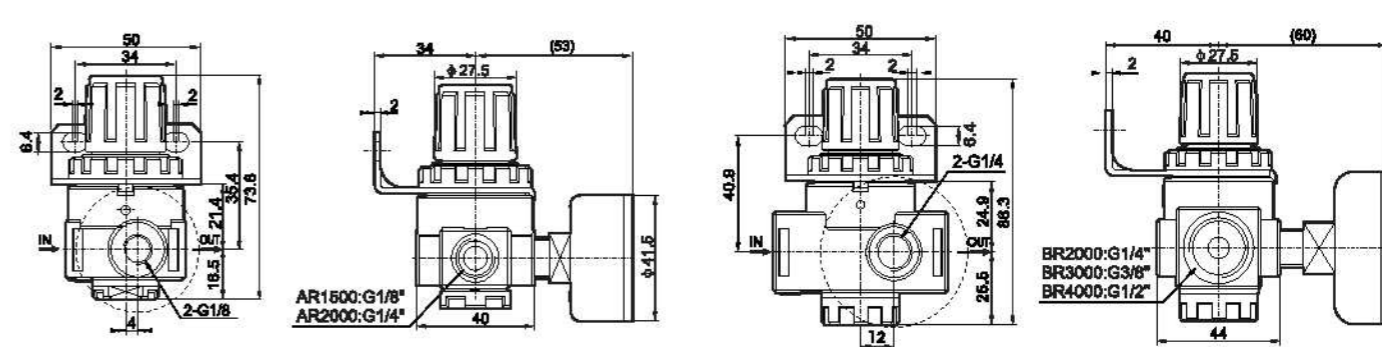
Graphic Symbol



#### Specification

Model	AR1500	AR2000	BR2000	BR3000	BR4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure	0.05~0.85MPa				
Max.Adjustable Pressure	0.95MPa				
Ensured Pressure Resistance	1.5MPa				
Operating Temperature Range	5~60°C				
Weight	0.20KG		0.23KG		
Material of Body	Aluminum Die-casting Forming				

#### Overall Dimensions



AR Series

BR Series



**AL, BL Series Lubricator**

**XACT300 Series Air Source Treatment Unit**



BL3000

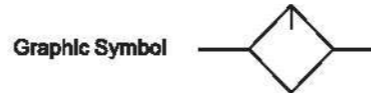
AL2000

**Ordering Code**

**BL** — **2000**

Series  
AL: Small Size  
BL: Middle Size

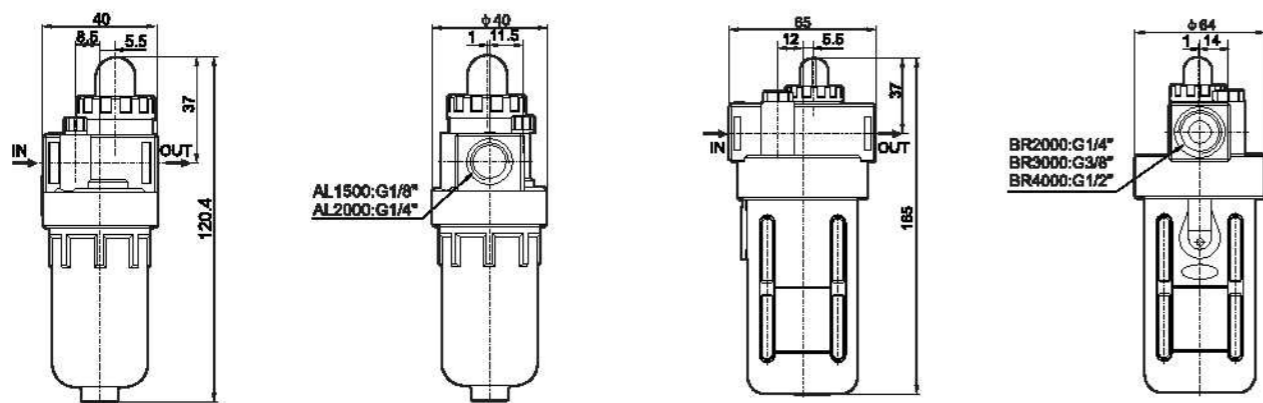
Port Size  
1500: G1/8"  
2000: G1/4"  
3000: G3/8"  
4000: G1/2"



**Specification**

Model	AL1500	AL2000	BL2000	BL3000	BL4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Ensured Pressure Resistance	1.5MPa				
Operating Temperature Range	5-60°C				
Suggested Lube	ISO VG 32 or Same Grade Oil				
Capacity of Oil Feed Cup	25 cc		90 cc		
Weight	0.17 KG		0.25KG		
Material	Body	Aluminum Die-casting Forming			
	Container Cup	PE			
	Protective Cup Cover	-			
			Iron		

**Overall Dimensions**



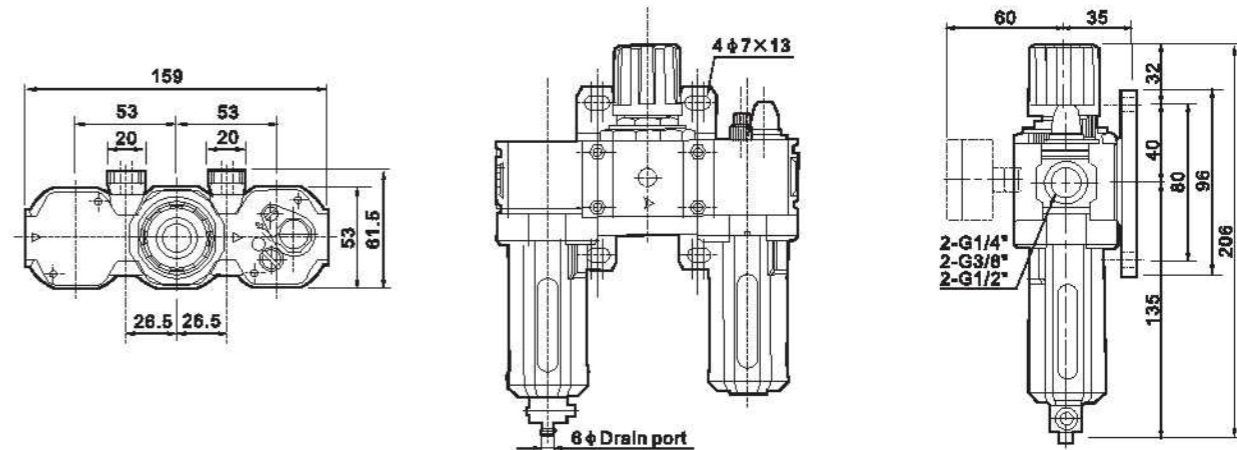
AL Series

BL Series

**Specification**

Model	XACT300		
Port Size Code	8A	10A	15A
Port Size Dimension	G1/4"	G3/8"	G1/2"
Operating Pressure Range	0-0.99MPa		
Pressure Resistance	1.5MPa		
Pressure Range	0.05-0.85MPa		
Operating Fluid	Air		
Ambient Temperature	5-60°C		
Filter Precision	5 μm		
Capacity Of Oil Feed Cup	55 c.c		
Min. Air Flow of Oil	50 l/min	60 l/min	60 l/min
Recommended Oil Use	Machine Oil SO-VG32		
Assembly	XAF300, XAR300, XAL300		
Accessory	Pressure Gauge/braket		

**Overall Dimensions**



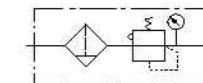
**Ordering Code**

**XACT300** — **10A**

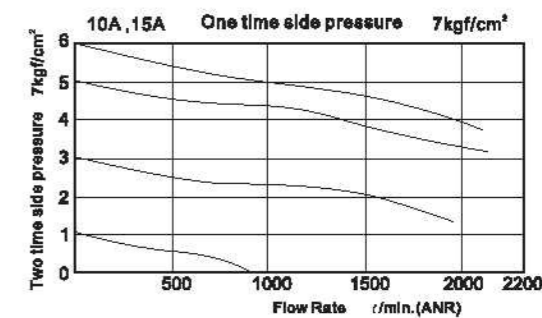
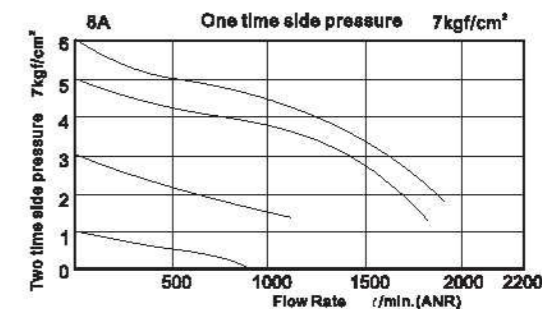
Series

Port Size  
8A: G1/4"  
10A: G3/8"  
15A: G1/2"

Graphic Symbol



**Flow Chart**







### XACP300 Series Air Source Treatment Unit



#### Ordering Code

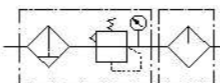
**XACP300**

**10A**

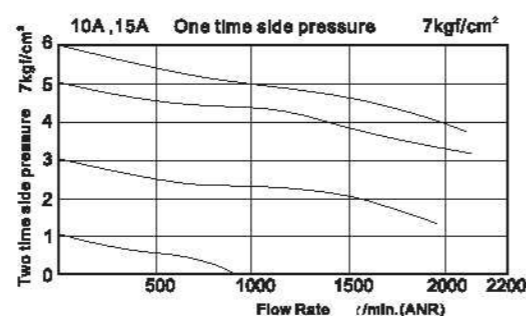
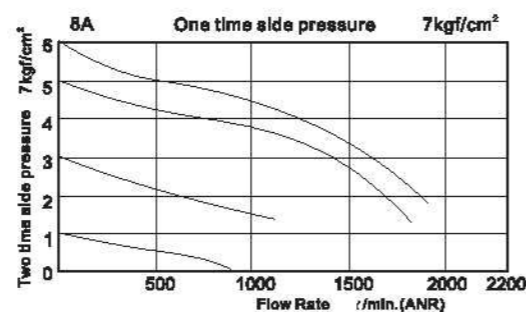
Series

Port Size  
8A:G1/4"  
10A:G3/8"  
15A:G1/2"

Graphic Symbol



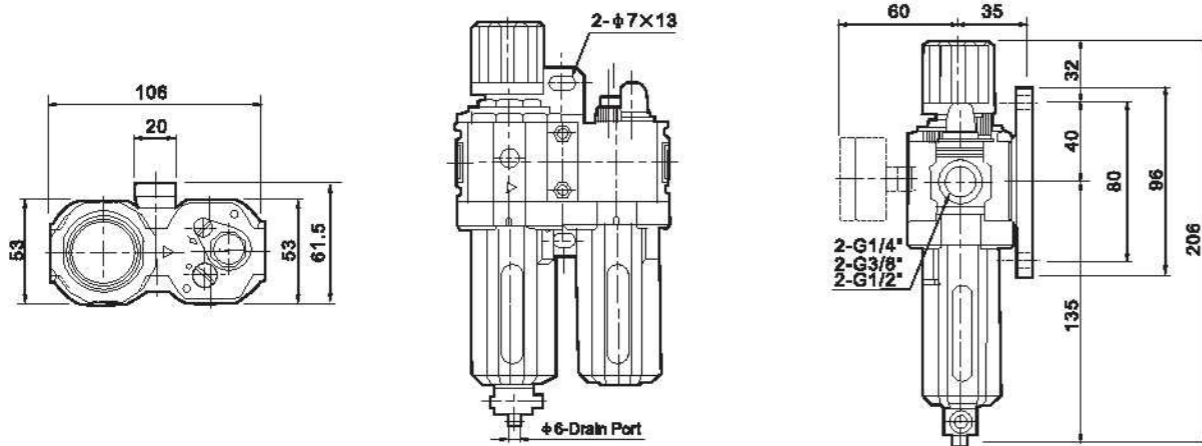
#### Flow Chart



#### Specification

Model	XACP300		
Port Size Code	8A	10A	15A
Port Size Dimension	G1/4"	G3/8"	G1/2"
Operating Pressure Range	0~0.99MPa		
Pressure Resistance	1.5MPa		
Pressure Range	0.05~0.85MPa		
Operating Fluid	Air		
Ambient Temperature	5~60°C		
Filter Precision	5 μm		
Capacity Of Oil Feed Cup	55 c.c		
Min. Air Flow of Oil	50 l/min	60 l/min	60 l/min
Recommended Oil Use	Machine Oil SO-VG32		
Assembly	XAFR300, XAL300		
Accessory	Pressure Gauge/braket		

#### Overall Dimensions



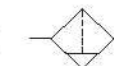
### PIR Series Precision Regulator



Port Size G1/8", G1/4", G3/8"  
Standard Type, Autom Drain Type and Metal Cup as Optional.

Designed to be compact and light weight with high output flow and precise setting pressure. Can be mounted easily with bracket or assemble with XA series F.R.L.

Graphic Symbol



#### Ordering Code

**PIR**

Series  
PIR series

**20**

Valve Body Size  
10  
20  
30

**00**

Pressure Range  
00(0.005~0.2Mpa)  
10(0.05~0.4Mpa)  
20(0.01~0.8Mpa)

**02**

Port Size  
01:G1/8"  
02:G1/4"  
03:G3/8"  
04:G1/2"

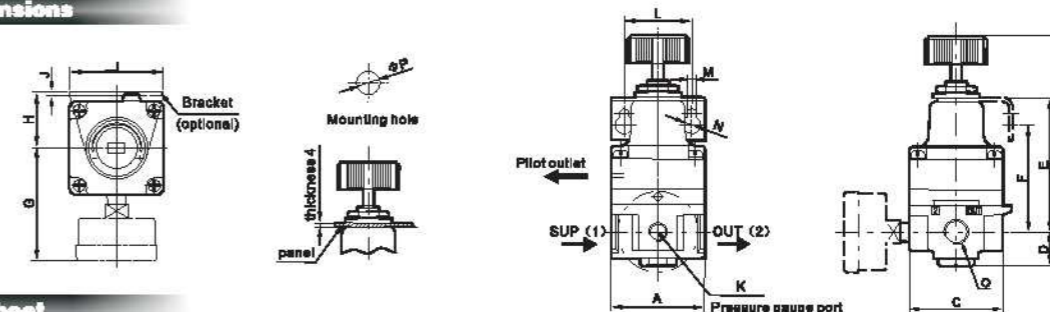
#### Order Example

- 1):PIR Series, Valve Body: 20, Port Size: G1/4, Pressure Range: 10, Model: PIR-2010-02
- 1):PIR Series, Valve Body: 30, Port Size: G1/2, Pressure Range: 20, Model: PIR-3010-04

#### Specification

Specification	PIR1000-01	PIR1010-01	PIR1020-01	PIR2000-02	PIR2010-0.2	PIR2020-02	PIR3000-03/04	PIR3010-03/04	PIR3020-03/04
Pressure Range	0.005~0.2	0.01~0.4	0.01~0.8	0.005~0.2	0.01~0.2	0.01~0.8	0.01~0.2	0.01~0.4	0.01~0.8
Port Size	G1/8			G1/4			G3/8, G1/2		
Air consumption	Max 3.5L/min			Max 3.1L/min			Max 9.5L/min Outlet: Max 2L/min		
Minimum pressure	Setting pressure+0.05			Setting pressure+0.05			Setting pressure+0.05		
Maximum pressure	1.0MPa								
Sensitivity	Within 0.2% of full span								
Repeatability	Within ±0.5% of full span								
Ambient and Fluid Temperature	-5~+60 ( with no freezing )								
Pressure Gauge Port	G1/8								

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PIR1000-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	φ8.5	G1/8	φ10.5
PIR1010-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	φ8.5	G1/8	φ10.5
PIR1020-01	35	90	35	10	51	44	43	25	42	2	G1/8	28	4.5	φ8.5	G1/8	φ10.5
PIR2000-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	φ9.5	G1/8	φ12.5
PIR2010-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	φ9.5	G1/8	φ12.5
PIR2020-02	50	123	50	18	71	63	60	30	50	2	G1/8	36	5.5	φ9.5	G1/8	φ12.5
PIR3000-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	φ15.5	G3/8	φ12.5
PIR3010-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	φ15.5	G1/2	φ12.5
PIR3020-03	66	148	66	22	76	76	68	48	82	2.3	G1/8	60	9	φ15.5	G1/2	φ12.5



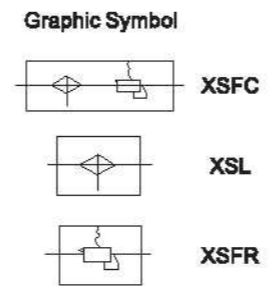
### XS Series Air Source Treatment Unit



**Ordering Code**

**XS** — **FC** — **200**

Series: XS series  
 Function code: FC: Filter&Regulator+Lubricator, FR: Regulator&Filter, L: Lubricator  
 Port Size: 200: G1/4", 300: G3/8", 400: G1/2"



**Specification**

Model	XSFC/FR/L-200	XSFC/FR/L-300	XSFC/FR/L-400
Port Size	G1/4"	G3/8"	G1/2"
Pressure Gauge Bore	G1/8"	G1/8"	G1/8"
Ensured Pressure Resistance	1.5MPa		
Highest Working Pressure	1.0MPa		
Environment and Fluid Temperature	5~60°C		
Protective Cover	Available		

The product has the function of filter, regulator and lubricator. Its structure is tight, flow rate is large, output is steady and installation is simple. The element has a pressure gauge, installation bracket and lubricator. The lubricator can non-stop gas. All have a cup-shaped protective cover. Use is safe and appearance is elegant.

### XC Series Air Source Treatment Unit



**Ordering Code**

**XC** — **1** — **04** — **C** — **5**

Series: XC Series  
 Specification: 1=G1/4", 2=G3/8", G1/2", 04=G1"  
 Port Size: 04=G1/4", 38=G3/8", 02=G1/2", 01=G1"  
 Group Type: C=D+L, E=V+D+L, G=D+L+AVP, HNA=V+D+L+AVP+PRESS NO, HNC=V+D+L+AVP+PRESS NC, N=V+D, p=D+AVP, Q=V+D+AVP, T=V+D+L+AVP, U=F13+FB3 (Only G3/8, G1/2, G1), ZNA=V+D+AVP+PRESS NO, ZNA=V+D+AVP+PRESS NC

**Specification**

Structure Type	Compact-Type
Material	Al-alloy, Brass, Nylon, NBR
Port Size	G1/4", G3/8", G1/2", G1"
Installation Type	Upright place, board connection or wall installation
Working Temperature	5~60°C (1MPa)
Surface Coat	Painted

**XC Series Filter, Regulator & Lubricator Combination Code**

Code	Description	Code	Description
D	Regulator&Filter Combination 0-1 Mpa, Semi-auto drain, filter precision 5 μm or 25 μm	AVP	Electricity control soft start valve
V	Two-position three-way separate valve	PRESS	Pressure switch (NC or NO)
L	Lubricator	F13	Filter auto drain (only G3/8, G1/2, G1) filter precision 5 μm or 25 μm
		Fb3	Gather Filter auto drain (only G3/8, G1/2, G1)

### XU Series Air Source Treatment Unit



**Ordering Code**

**XU** — **C** — **02** — **□**

Series: XU Series  
 Function code: C: Filter+Regulator+Lubricator, WL: Filter&Regulator+Lubricator, W: Filter&Regulator, R: Regulator, F: Filter, L: Lubricator  
 Port Size: 02: G1/4", 03: G3/8", 04: G1/2", 06: G3/4", 08: G1"  
 Drain Type: Blank: Manual, Drain Type, D: Auto Drain Type

**Specification**

Model	XUC/WL/W-02	XUC/WL/W-03	XUC/WL/W-04	XUC/WL/W-06	XUC/WL/W-08
	XUF/R/L-02	XUF/R/L-03	XUF/R/L-04	XUF/R/L-06	XUF/R/L-08
Port Size	G1/4"	G3/8"	G1/2"	G3/4"	G1"
Gauge	1/4"				
Fluid	Air				
Pressure Range	0.05~0.85MPa				
Max. Flow rate (l/min)	2050		2500		7900
Ambient Temperature	-10~60°C				
Filter Precision	Standard: 20 μm				
Oil Recommended	Turbine oil (ISO VG32)				
Cup Material	Polycarbonate				
Structure	Over flow type				

### H Series High Pressure Regulator/Filter

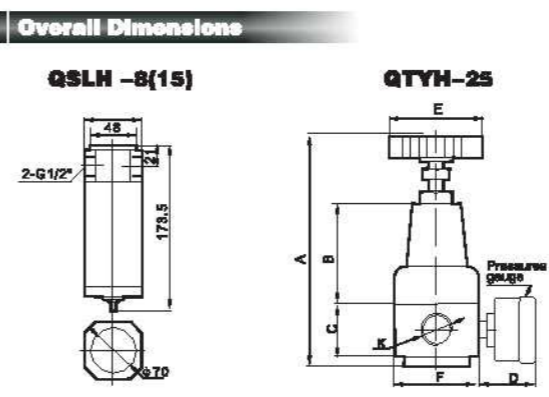


**Ordering Code**

**QTYH** — **15** — **QSLH** — **15**

High pressure Regulator: Connection 8: G1/4", 15: G1/2", 20: G3/4", 25: G1"  
 High Pressure Filter: Port Size 8: G1/4", 15: G1/2", 20: G3/4", 25: G1"

**Graphic Symbol**



**Specification**

Max. pressure	3.5MPa
Pressure Regulating Range	0.5~3.5MPa
Ambient and Fluid Temperature	-5~50°C

**Dimension Sheet**

Model	Port Size	A	B	C	D	E	F
QTYH-8	G1/4"	150	64	34	36	60	55×55
QTYH-15	G1/2"	150	64	34	36	60	55×55
QTYH-20	G3/4"	235	91	45	32	95	80×80
QTYH-25	G1"	235	91	45	32	94	80×80



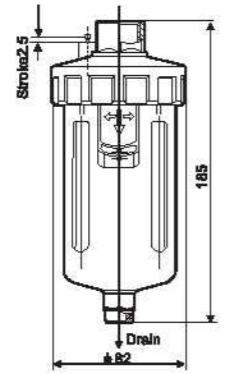
### HAD402 series Auto Drain

#### Specification

Model	HAD402-02	HAD402-03	HAD402-04
Ensured Pressure Resistance	1.5MPa		
Operating Pressure	0.15MPa~1.00MPa		
Ambient and Fluid Temperature	5~80°C		
Port Size	G1/4"	G3/8"	G1/2"
Drain Bore	G1/8"		
Drain Status	Normal Open type		
Working Medium	Compressed Air		



#### Overall Dimensions



#### Range of Application:

This product often applies to auto remove the see per at the lower places of piping, frozen type air drying machine. Oil separator, air storage tanks and the bottom of various air filters. It can be installed in the places inconvenient for manual discharge of sewage, such as higher, lower and narrow places, especially there large consumption of air or frequent water drains. It can prevent the compressed air being re-polluted by con-dense water resulting from neglect of manual drain.

- Features:**  
Auto Drain/Air Shutoff Drain/Manual Drain  
The water cup is provided with metal protective cover
- Points for Attention:**  
When using, the drainer should be installed vertically the drain port facing down



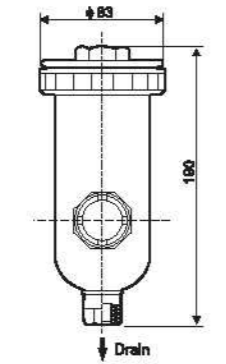
### SAH402 series High Pressure Auto Drain

#### Specification

Model	SAH402-02	SAH402-03	SAH402-04
Ensured Pressure Resistance	2.5MPa		
Operating Pressure	0.15MPa~2.00MPa		
Ambient and Fluid Temperature	5~80°C		
Port Size	G1/4"	G3/8"	G1/2"
Drain Bore	G1/8"	G1/4"	G3/8"
Drain Status	Normal Open type		
Working Medium	Compressed Air		



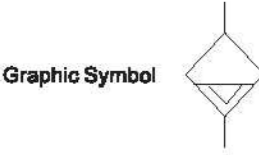
#### Overall Dimensions



#### Range of Application:

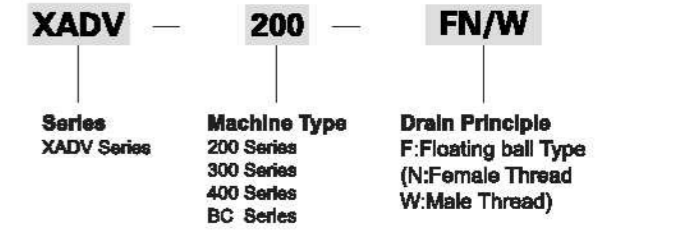
This product serves as a drainer for high-pressure air source system and functions to divert water for the whole pipeline system. It is generally used for the equipment inconvenient for manual discharge of water or comparatively high frequency of water discharge such as the low spots of pipeline, freezing type air drier and the water deposit place of air chamber etc.

- Features:**  
Auto Drain  
Metal protective cover with view window
- Points for Attention:**  
When using, the drainer should be installed vertically the drain port facing down.



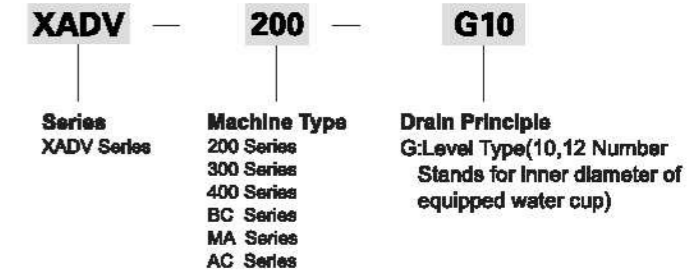
### XADV Series Auto Drain

#### Ordering Code



XADV 300-FN XADV 300-FW

#### Ordering Code



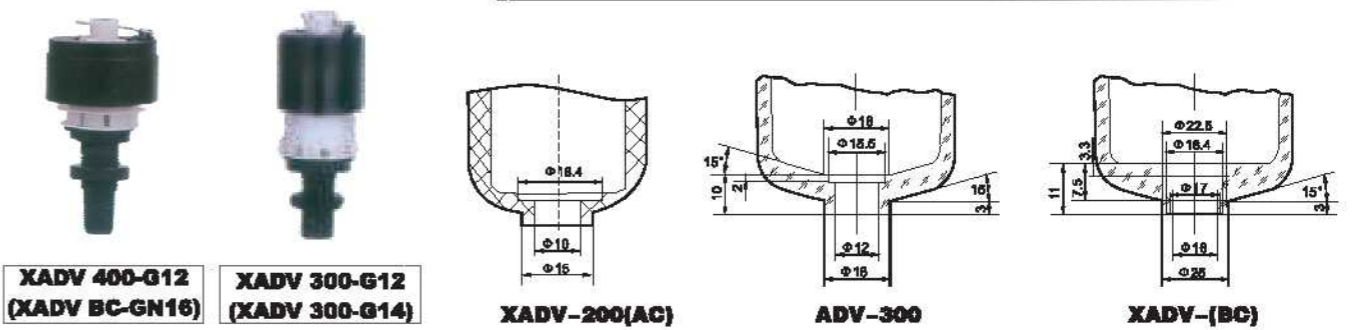
XADV 400-FN(BC-FN) XADV 400-FW(BC-FW)



XADV 200-G10(AC-G10) XADV-MA-G14

- Range of Application:**  
This product is installed at the bottom of water cups for auto dischargers, air filters and air filter regulators and can auto discharge the condense water gathered in the water cup.
- Technical Requirements:**  
Working medium: Compressed air  
Ambient and media temperature: 5~60°C  
Operating pressure range: 0.15~1.00Mpa
- Features:**  
Auto drainer/Air Shut off Drain/Manual Drain
- Points for Attention:**  
When using, the drainer should be installed vertically the drain port facing down.

#### Dimensional Drawing of Water Cup Connecting Part

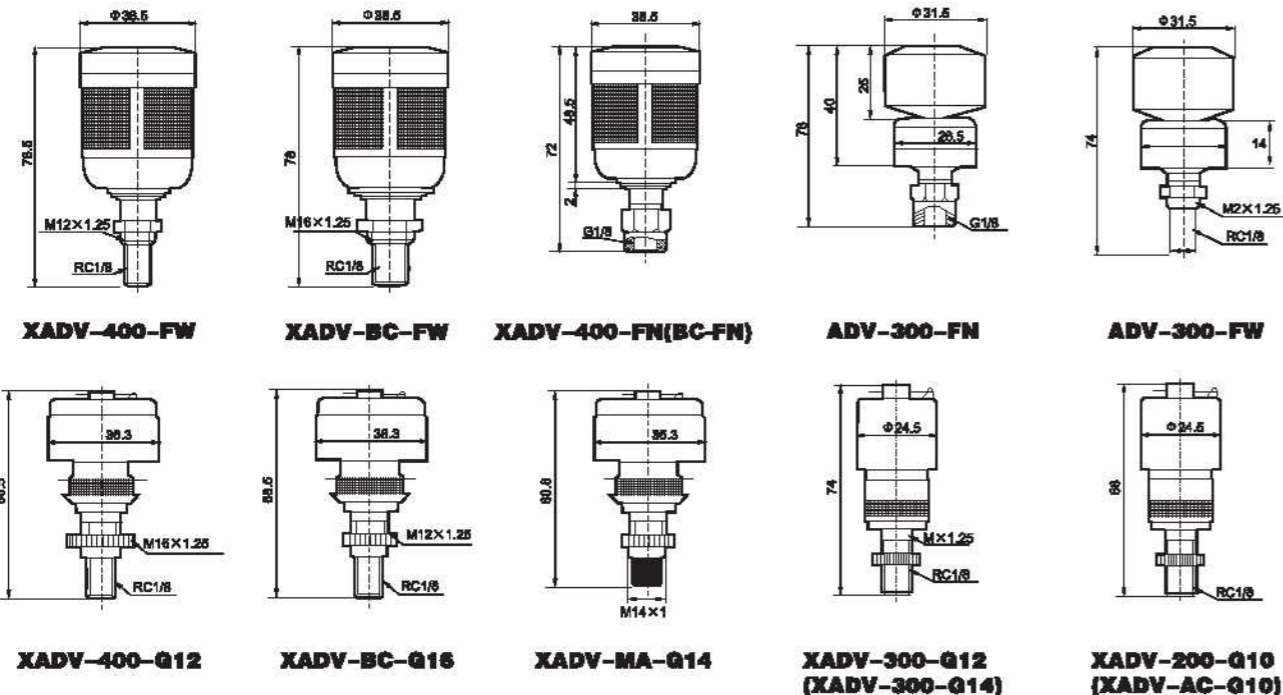


XADV 400-G12 (XADV BC-GN16) XADV 300-G12 (XADV 300-G14) XADV-200(AC) ADV-300 XADV-(BC)

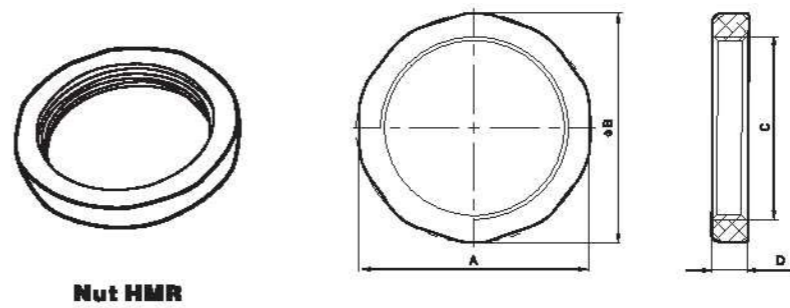


### XADV Series Auto Drain

#### Overall Dimensions



### XO Series Air Unit Accessories



Dimension Sheet		
Model	A	B
HMR-MINI/MAXI	44	45
HMR-MIDI	60	62

Model	C	D
HMR-MINI/MAXI	M36x1.5	7
HMR-MIDI	M52x1.5	8

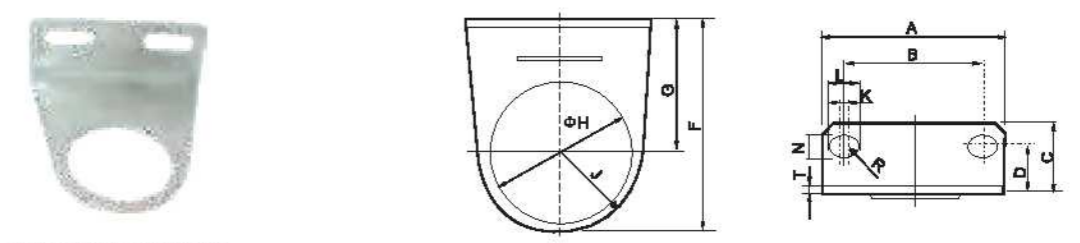


Pressure gauge OMA

Dimension Sheet			
Model	Normal size	Pneumatic connection	Indicating range
OMA-10-1/8	40	G1/8	0-10 bar
OMA-16-1/8			0-16 bar
OMA-10-1/4	50	G1/4	0-10 bar
OMA-16-1/4			0-16 bar

The Pressure gauge is used to measure and display the pressure of the control system.

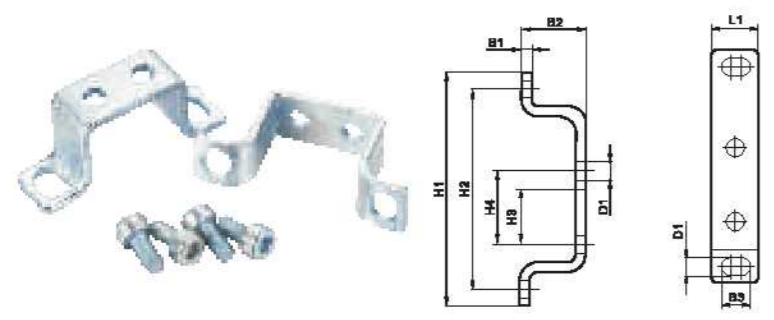
### XA Series Air Unit Accessories



Bracket for AR/AW

Model	A	B	C	D	F	G	ΦH	J	K	L	N	R	T	Applicable Model
B120	40	28	17	11	37.8	25	20.5	12.3	2	6.5	4.5	2.25	2	AR/AW1000
B220	55	34	25	19	50	30	33.5	20	10	15.4	5.4	2.7	2.3	AR/AW2000/AR2500
B320	53	40	21.5	14	84	39	42.5	25	1.5	8	8.5	3.25	2.3	AR/AW3000
B420	70	54	27	18	79.2	49.2	52.5	30	2	10.5	8.5	4.26	2.3	AR/AW4000-5000

### XO Series Air Unit Accessories

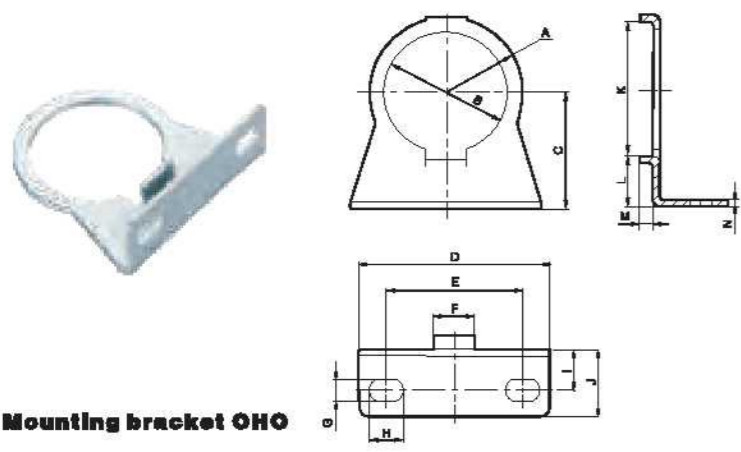


Mounting bracket OHC

Dimension Sheet					
Model	B1	B2	B3	D1	H1
OHC-MINI	2	19	7.3	4.3	43
OHC-MIDI/MAXI	3	19	8.3	5.3	70

Model	H2	H3	H4	L1
OHC-MINI	35	5.5	11	12
OHC-MIDI/MAXI	60	16.5	22	14

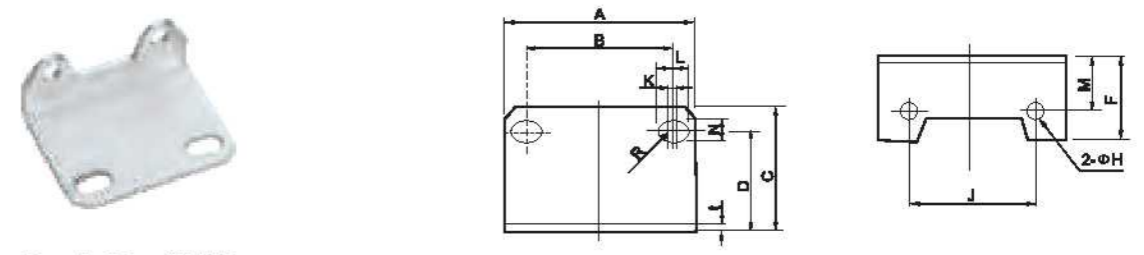


Mounting bracket OHO

Dimension Sheet							
Model	A	B	C	D	E	F	G
OHO-MINI/MAXI	22.5	38.5	35	56	40	12	6.5
OHO-MIDI	30	52.5	48	70	53	12	8.5

Model	H	I	J	K	L	M	N
OHO-MINI/MAXI	10	12	20	40.4	15	4	2
OHO-MIDI	10.5	17.5	27	55.5	20	4	2



Bracket for AL/AF

Model	A	B	C	D	F	G	ΦH	J	K	L	N	R	t	Assembly Screw	Applicable Model
B240	40	27	33	27	18	4.5	28	3	8.4	14	5.4	2.7	2.3	M4x8	AF/AL2000
B340	53	40	39	32	22.5	4.5	35	1.5	8	19	6.5	3.25	2.3	M4x8	AF/AL3000
B440	70	54	47	38	31.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5x10	AF/AL4000
B540	70	54	47	38	27.5	5.5	47	2	10.5	20	8.5	4.25	2.3	M5x10	AF/AL4000-06
B640	90	66	64	52	43	6.5	60	2	13	29	11	5.5	3.2	M6x10	AF/AL5000



## Solenoid valves

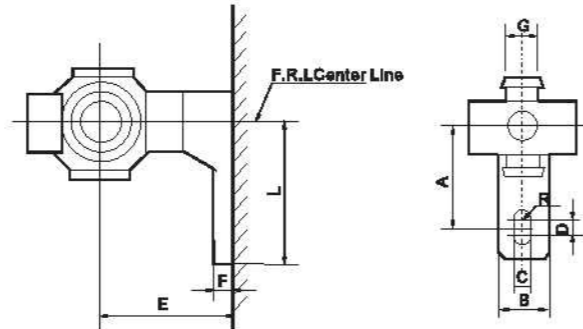
Solenoid valves are used for change directional of air flow, control by electricity. There are 3/2, 5/2 and 5/3 way/position as optional, and the port size from 1/8" to 1/2". XCPC never stop its step to improve the quality, 2 times life time, less friction inside the valve body and high dust prevention, the new type of solenoid valve is available now.



### XA Series Air Unit Accessories



L-Type Spacer

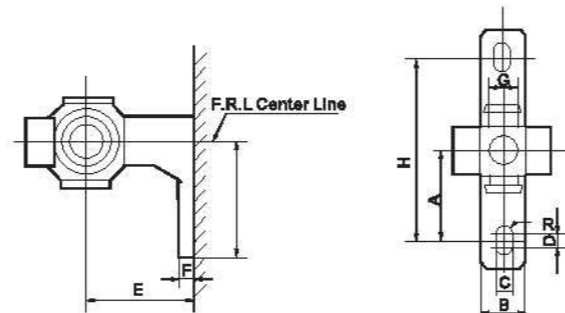


Spacer With L-Type bracket

Model	Spacer with L-Type Bracket	A	B	C	D	E	F	G	R	L	Applicable Model
B110L	Y10L	20	12	4.5	3	25	5	8	2.25	27	AC1000
B210L	Y20L	24	15	5.5	3	30	5	10	2.75	33	AC2000
B310L	Y30L	35	16	7	4	41	7	11	3.5	45	AC2500-3000
B410L	Y40L	40	22	9	4	50	7	14	4.5	50	AC4000
B510L	Y50L	40	22	9	4	50	7	14	4.5	50	AC4000-06
B610L	Y60L	50	23	12	4	69.8	10.5	15	6	63	AC5000



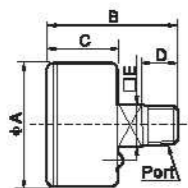
T-Type Spacer



Spacer With T-Type bracket

Model	Spacer with T-Type Bracket	A	B	C	D	E	F	G	H	R	L	Applicable Model
B110T	Y10T	20	12	4.5	3	25	5	8	40	2.25	27	AC1010
B210T	Y20T	24	15	5.5	3	30	5	10	48	2.75	33	AC2010
B310T	Y30T	35	16	7	4	41	7	11	70	3.5	45	AC3010
B410T	Y40T	40	22	9	4	50	7	14	80	4.5	50	AC4000
B510T	Y50T	40	22	9	4	50	7	14	80	4.5	50	AC4010-06
B610T	Y60T	50	23	12	4	69.8	10.5	15	100	6	63	AC5010

### Pressure Gauge



Model	Pressure Range	A	B	C	D	E	Applicable Model
G27-10-R1		G1/16"	26	17.5	11	6.5	AR1000 AW1000
G36-10-01	0~1MPa(Red) 0~150psi(Blue)	G1/8"	42	38.5	24	10	AR2000~3000 AW2000~3000
G46-10-02		G1/4"	52.5	43.5	25	10	AR4000~5000 AW4000~5000



**4V,3V Series Solenoid Valve,4A,3A Series Pneumatic Control Valve**

**Product instruction**

This solenoid valve is our new developed product. All the installation dimension is the same as 3V, 4V series, and the valve spindle material is still aluminum, but we changed the material outside valve spindle into POM (polyformaldehyde). Then it will be not only the seal-ring that operate separately, which will bring the new product two advantages:

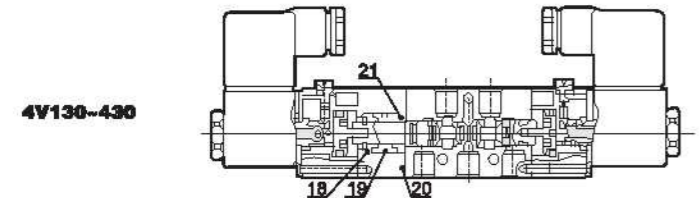
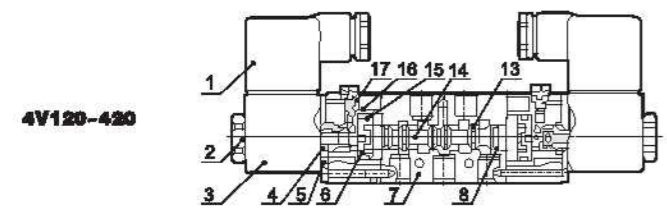
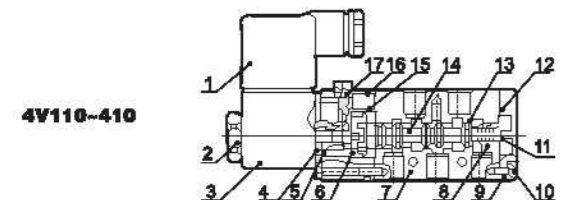
If you need this new product, please add the word "new" ( abbreviation "N" ) after the ordering code, for example: 4V210-08-N.



- 1. High dust prevention, air-proof
- 2. One or twice lifetime than normals'

- 1 Spool:material aluminum 6061
- 2 O-ring:material NBR
- 3 White case:Material POM

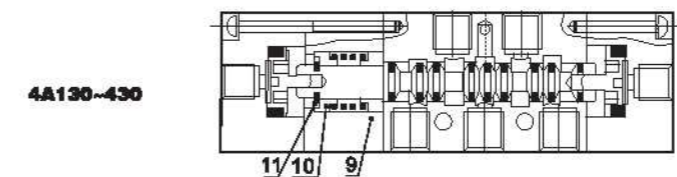
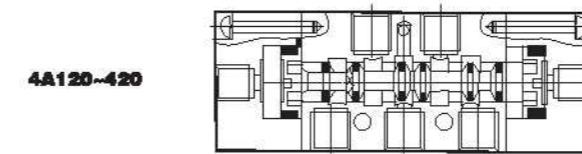
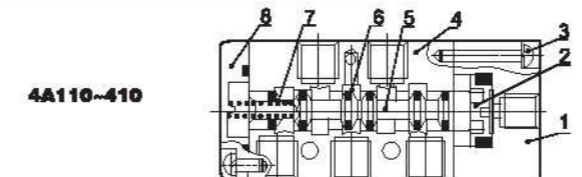
**4V Series Internal structure**



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

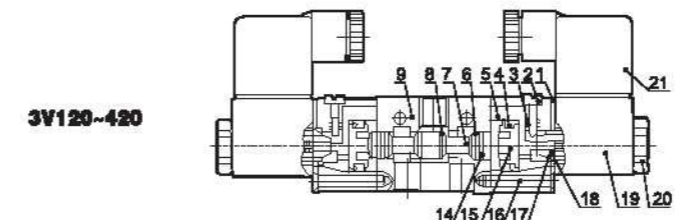
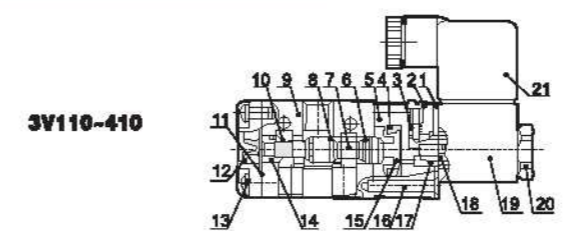
**4V,3V Series Solenoid Valve,4A,3A Series Pneumatic Control Valve**

**4A Series Internal structure**



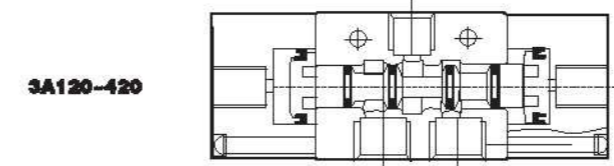
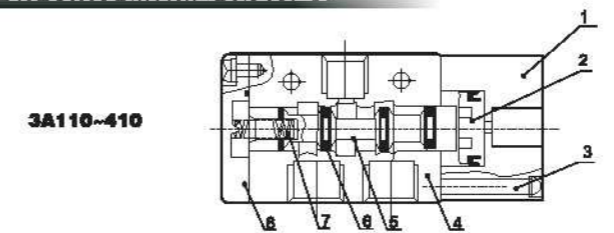
NO	Designation
1	Air control cover
2	Piston
3	Screw
4	Valve body
5	Spool
6	O-Ring
7	Spring
8	Rear cover
9	Back seat
10	Spring seat
11	C-type buckle

**3V Series Internal structure**



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

**3A Series Internal structure**



NO	Designation
1	Air control cover
2	Piston
3	Screw
4	Valve body
5	Spool
6	O-Ring
7	Spring
8	Rear cover

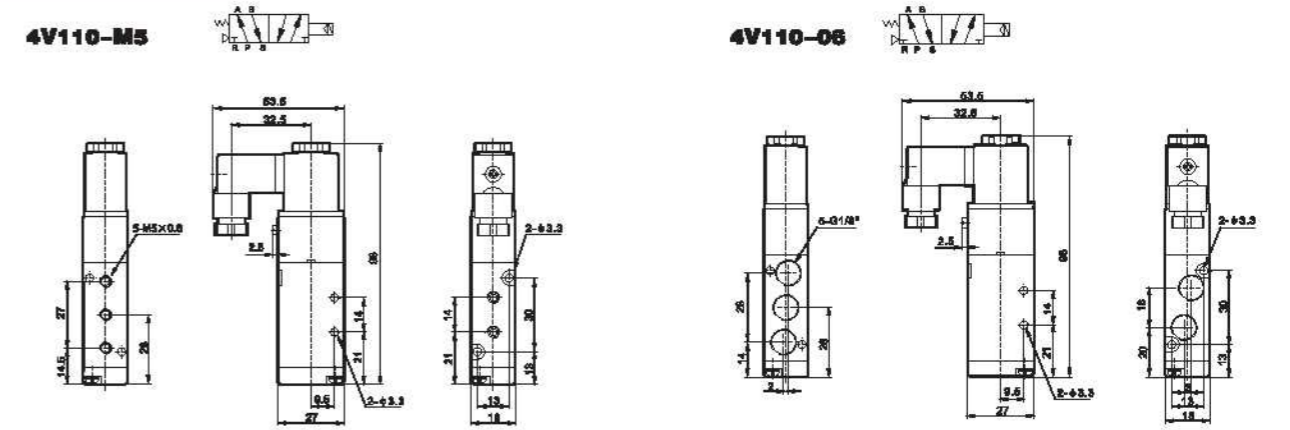


**4V,3V100 Series Solenoid Valve,4A,3A 100 Series Pneumatic Control Valve**

**4V,3V100 Series Solenoid Valve,4A,3A100 Series Pneumatic Control Valve**

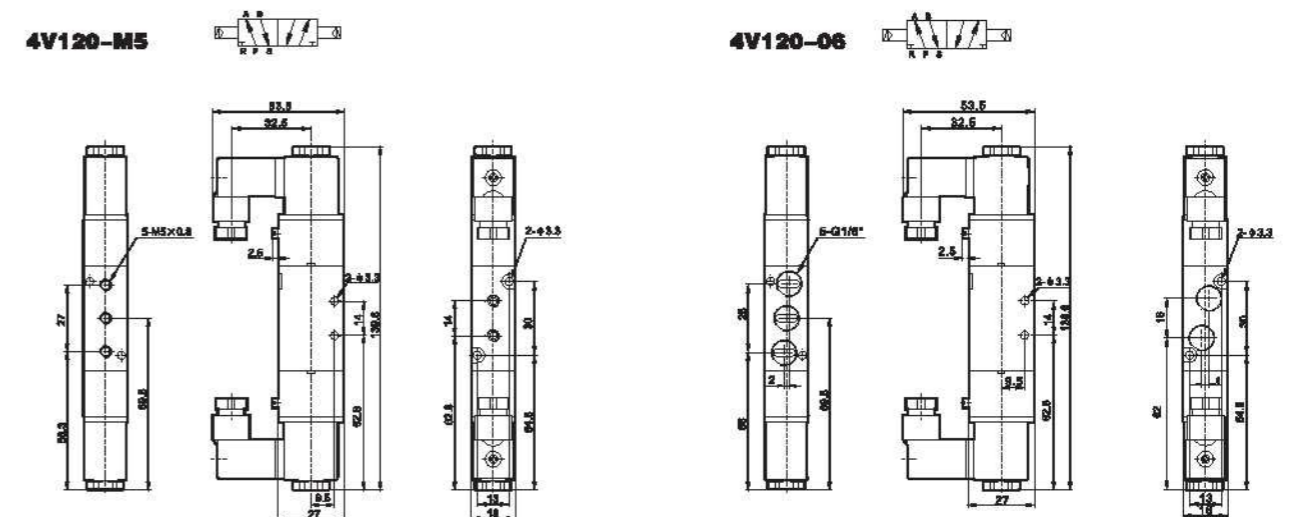


**Overall Dimensions**



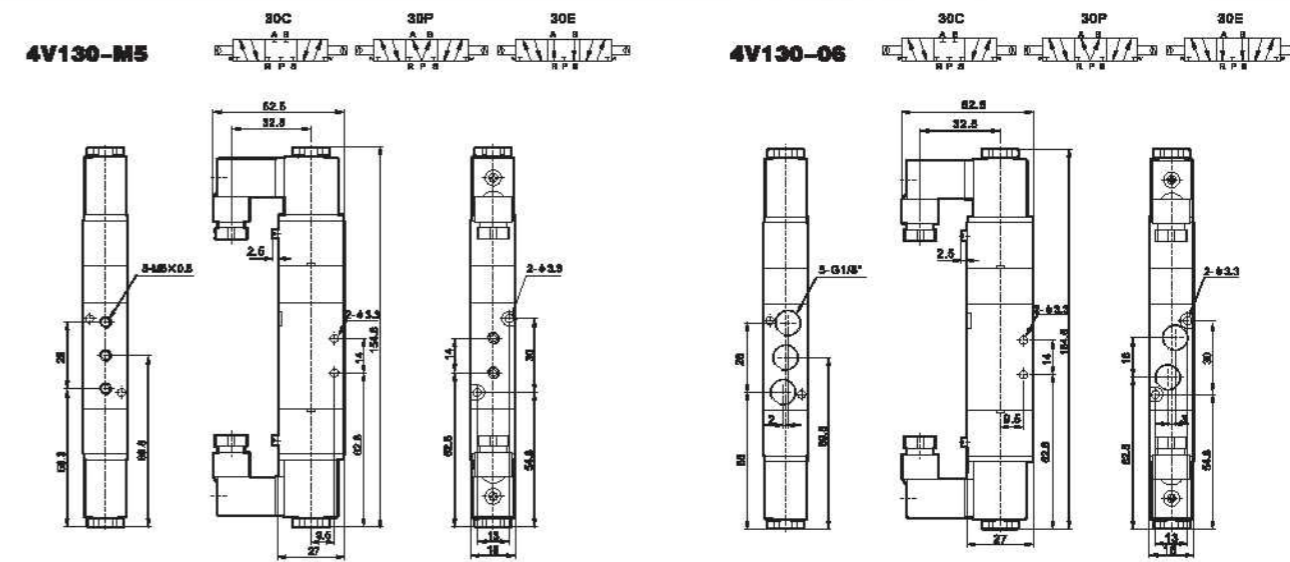
**Ordering Code**

<b>4V</b>	<b>1</b>	<b>10</b>	<b>06</b>	<input type="checkbox"/>	<b>AC220V</b>	<input type="checkbox"/>
<b>Specification Code</b> 4V:Two(Three)-position Five-way Solenoid Valve 4A:Two(Three)-position Five- way pneumatic control valve 3V:Two-position Three-way Solenoid valve 3A:Two-position Three-way pneumatic control valve	<b>Series Code</b> 100 Series	<b>Coil and Places</b> 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type	<b>Port Size</b> M5:M5×0.8 06:G1/8"	<b>Port connection and Initial State</b> NC:Two-position Three- way Normal Close Type NO:Two-position Three- way Normal Open Type	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Standard Connector LD:With Lighting Connector LD1:With Lighting 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
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	10mm <sup>2</sup> (CV=0.56)		7mm <sup>2</sup> (CV=0.40)			12mm <sup>2</sup> (CV=0.67)		9mm <sup>2</sup> (CV=0.5)		
Model	3V110-M5	3V120-M5	3A110-M5	3A120-M5	3V110-06	3V120-06	3A110-06	3A120-06		
Position and Way NO.	Two-position Three-way					Two-position Three-way				
Effective Section Area	10mm <sup>2</sup> (CV=0.56)					12mm <sup>2</sup> (CV=0.67)				
Joint Pipe Bore	Air Inlet=Air Outlet=Exhaust=M5x0.8					Air Inlet=Air Outlet=Exhaust=G1/8"				
Working Medium	40 Micron Filtered Air									
Motion Pattern	Inner Guide Type									
Working-pressure	0.15~0.8 M Pa									
Max. Pressure Resistance	1.2MPa									
Operating Temperature	5~50℃									
Voltage Range	±10%									
Power Consumption	AC: 2.5VA DC: 2.5W									
Insulation & Protection Class	F Class. IP65									
Wiring Form	Lead Wire or Connector type									
Highest Action Frequency	5 Cycle / Second									
Shortest Excitation Time	0.05 Second									



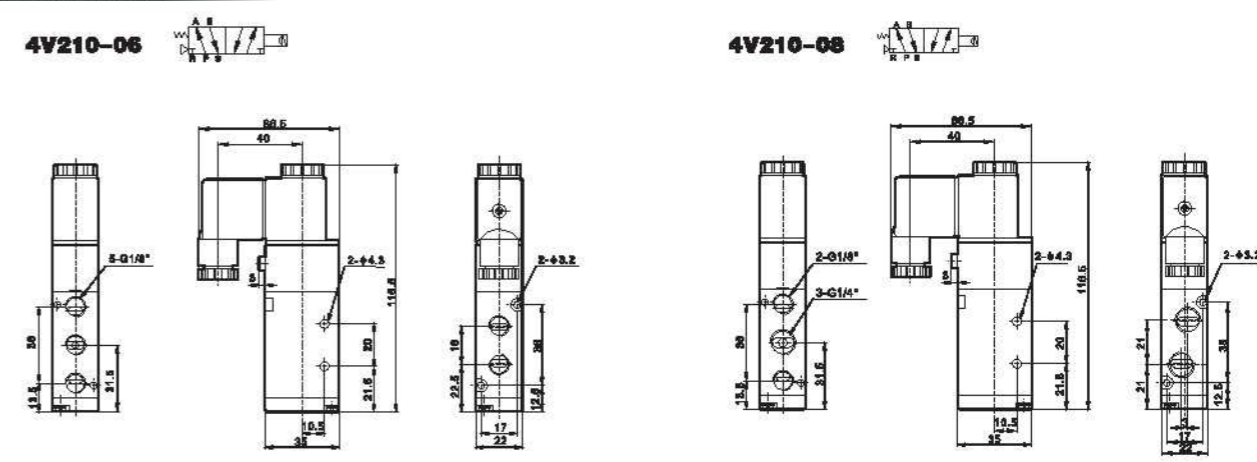






**4V,3V200 Series Solenoid Valve, 4A,3A200 Series Pneumatic Control Valve**

**4V,3V200 Series Solenoid Valve, 4A,3A200 Series Pneumatic Control Valve**



**Ordering Code**

**4V** — **2** — **10** — **08** — **AC220V** — **□**

**Specification Code**  
4V:Two(Three)-position Five-way Solenoid Valve  
4A:Two(Three)-position Five-way pneumatic control valve  
3V:Two-position Three-way Solenoid Valve  
3A:Two-position Three-way Pneumatic Control Valve

**Series Code**  
200 Series

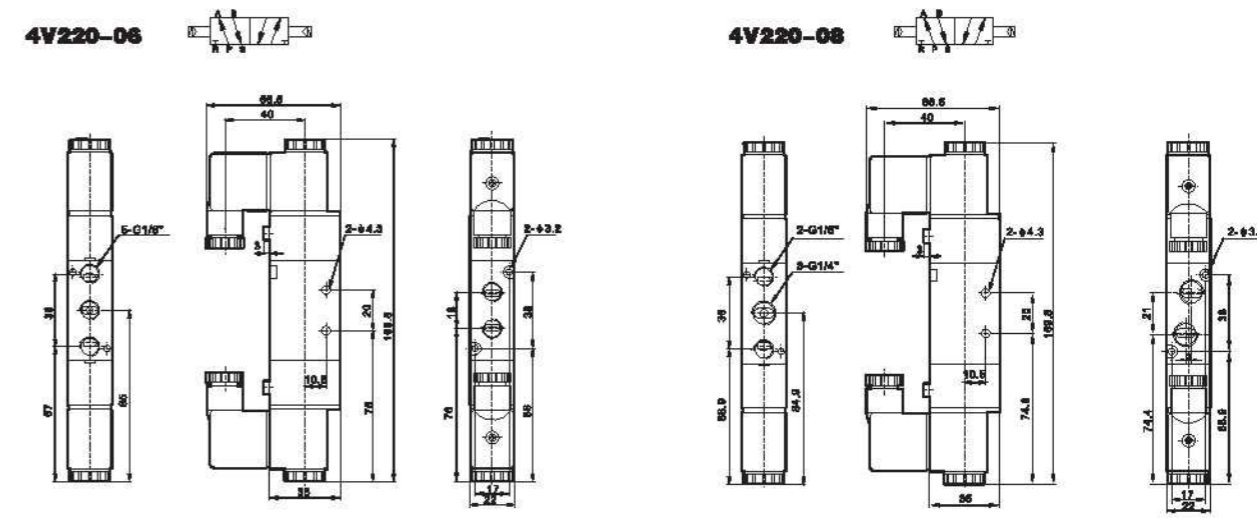
**Coil and Places**  
10:Single-head double-position  
20:Double-head double-position  
30C:Double-head Three-position Close Type  
30E:Double-head Three-position Exhaust Type  
30P:Double-head Three-position Pressure Type

**Port Size**  
06:G1/8"  
08:G1/4"

**Port connection and Initial State**  
NC:Two-position Three-way Normal Close Type  
NO:Two-position Three-way Normal Open Type

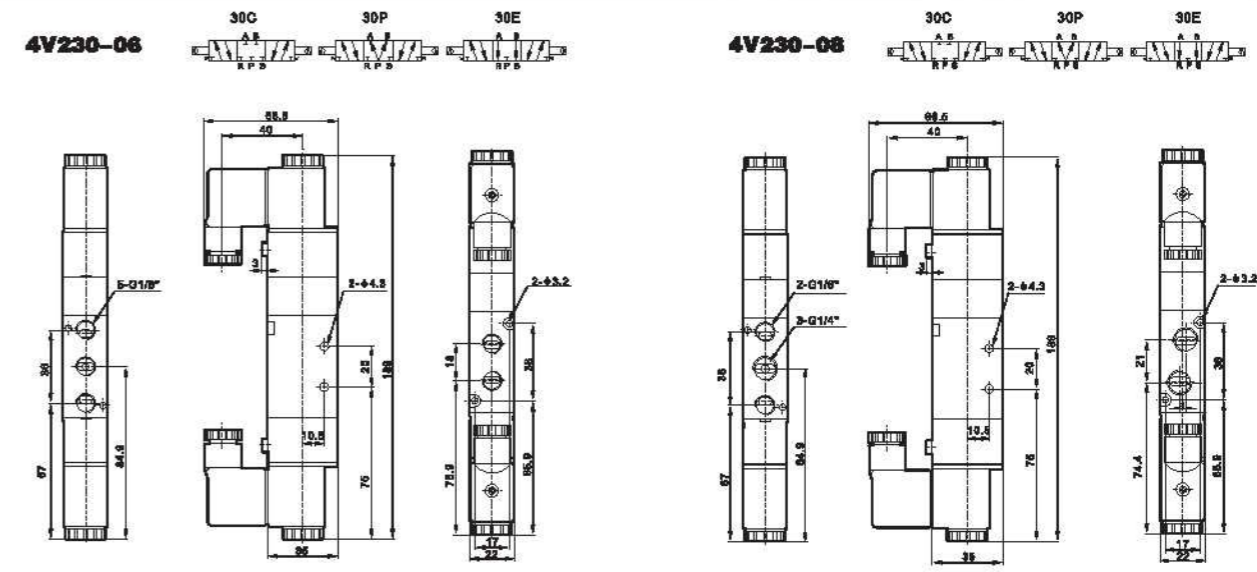
**Standard Voltage**  
DC12V  
DC24V  
AC24V 50Hz/60Hz  
AC110V 50Hz/60Hz  
AC220V 50Hz/60Hz  
AC380V 50Hz/60Hz

**Wiring Form**  
Blank:Standard Connector  
LD:With Lighting Connector  
LD1:With Lighting 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
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	14mm <sup>2</sup> (CV=0.78)		12mm <sup>2</sup> (CV=0.67)			16mm <sup>2</sup> (CV=0.89)		12mm <sup>2</sup> (CV=0.67)		
Model	3V210-06	3V220-06	3A210-06	3A220-06	3V210-08	3V220-08	3A210-08	3A220-08		
Position and Way NO.	Two-position Three-way				Two-position Three-way					
Effective Section Area	14mm <sup>2</sup> (CV=0.78)				16mm <sup>2</sup> (CV=0.89)					
Joint Pipe Bore	Air Inlet=Air Out=Exhaust=G1/8"				Air Inlet=Air Outlet1/4" Exhaust=G1/8"					
Working Medium	40 Micron Filtered Air									
Motion Pattern	Inner Guide Type									
Working-pressure	0.15~0.8 M Pa									
Max. Pressure Resistance	1.2MPa									
Operating Temperature	5~50°C									
Voltage Range	±10%									
Power Consumption	AC: 2.5VA DC: 2.5W									
Insulation & Protection Class	F Class. IP65									
Wiring Form	Lead Wire or Connector type									
Highest Action Frequency	5 Cycle / Sec									
Shortest Excitation Time	0.05 Second									

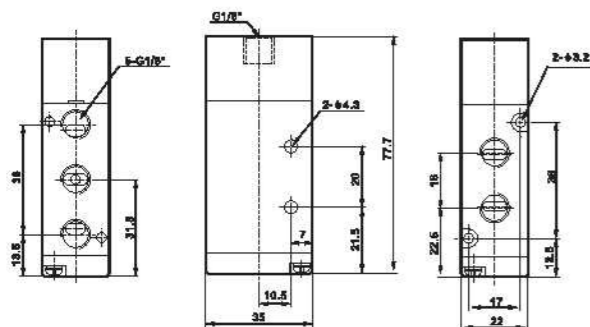
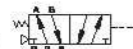




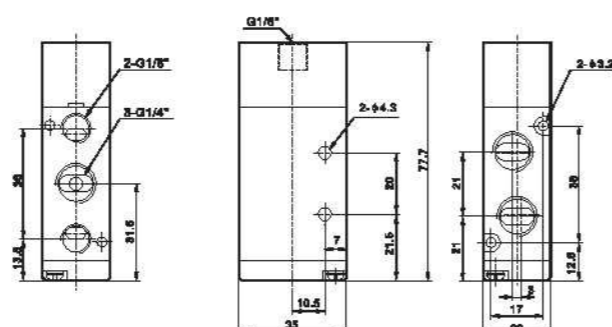
**4V,3V200 Series Solenoid Valve, 4A,3A200 Series Pneumatic Control Valve**

**Overall Dimensions**

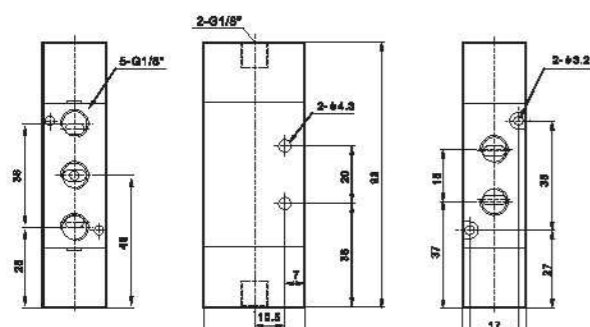
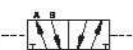
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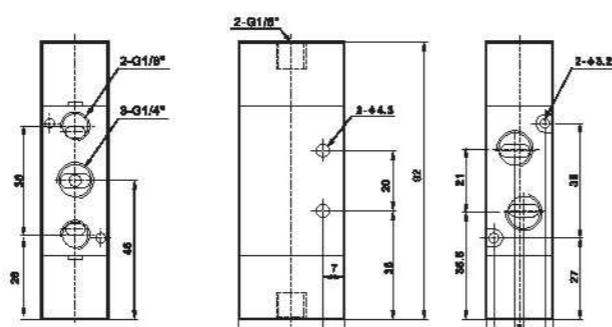
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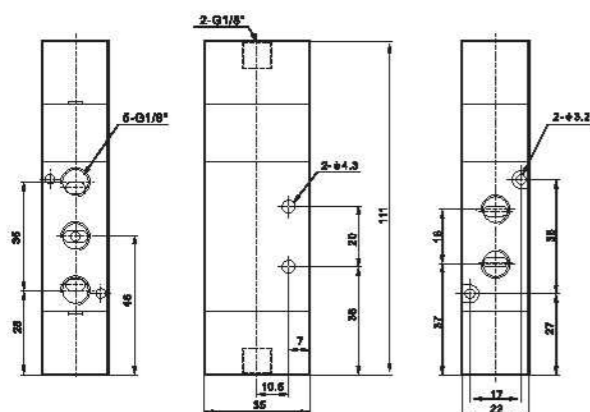
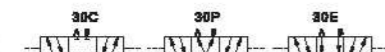
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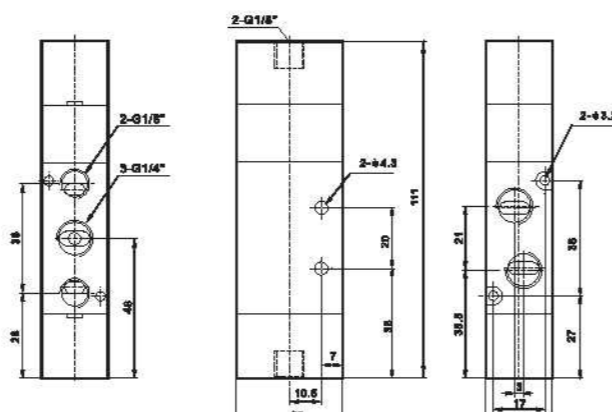
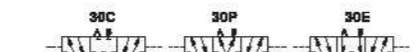
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**4A230-06**



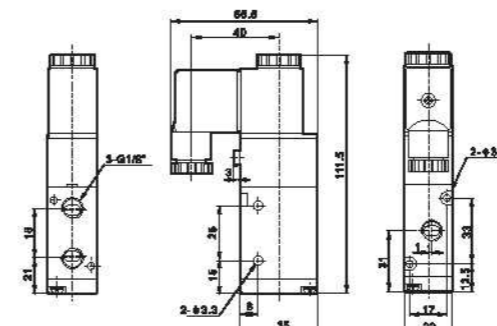
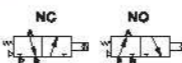
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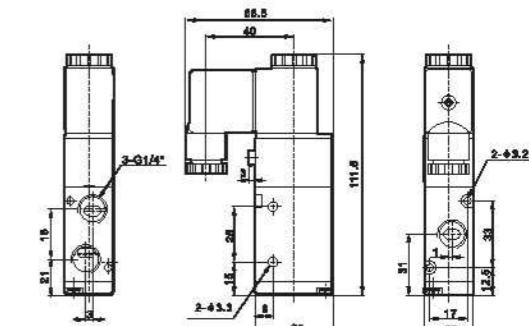
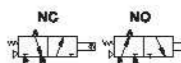
**4V,3V200 Series Solenoid Valve, 4A,3A200 Series Pneumatic Control Valve**

**Overall Dimensions**

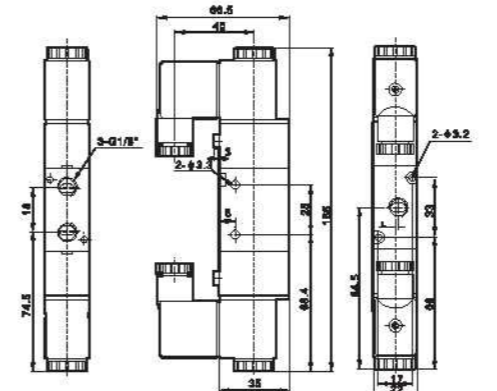
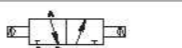
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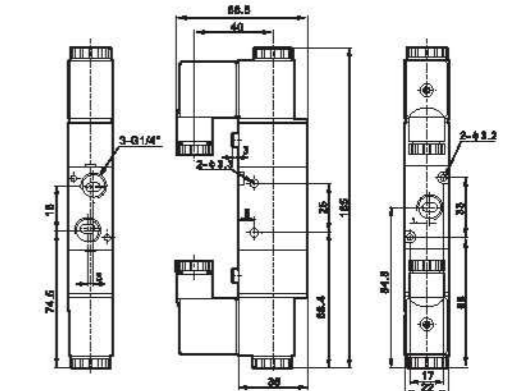
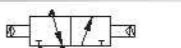
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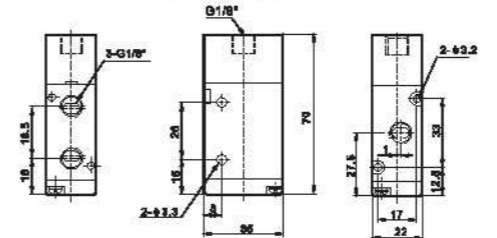
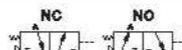
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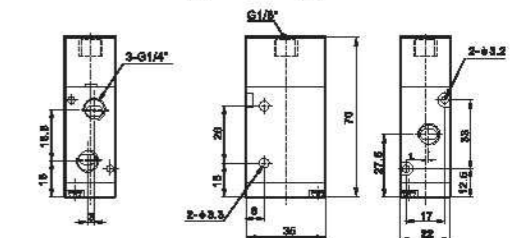
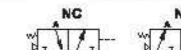
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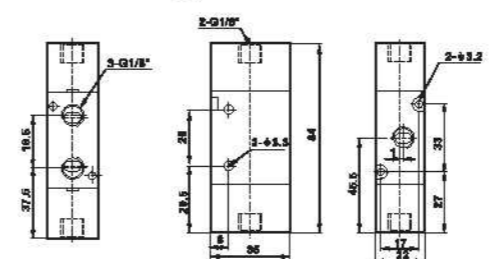
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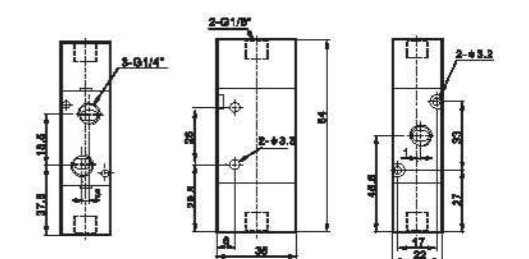
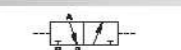
**3A210-08**



**3A220-06**



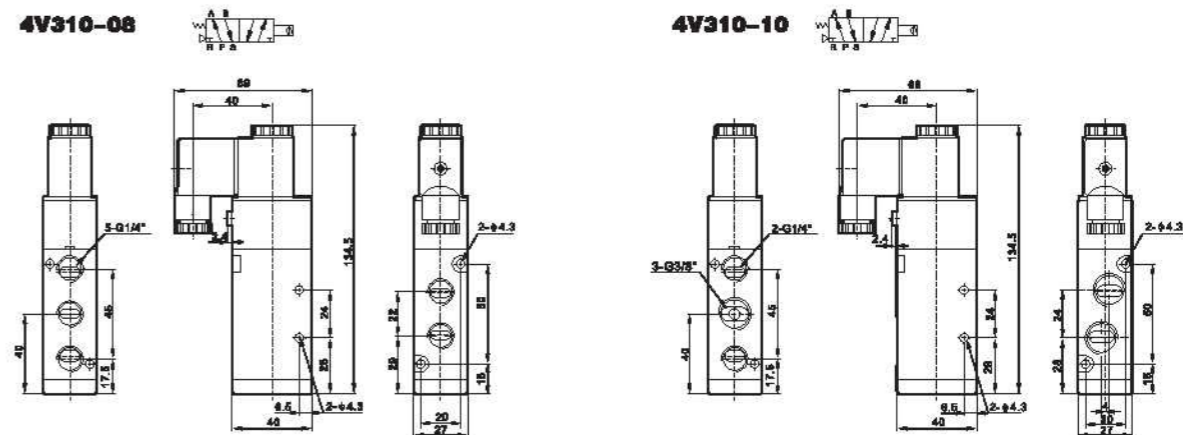
**3A220-08**





**4V,3V300 Series Solenoid Valve, 4A,3A300 Series Pneumatic Control Valve**

**4V,3V300 Series Solenoid Valve, 4A,3A300 Series Pneumatic Control Valve**

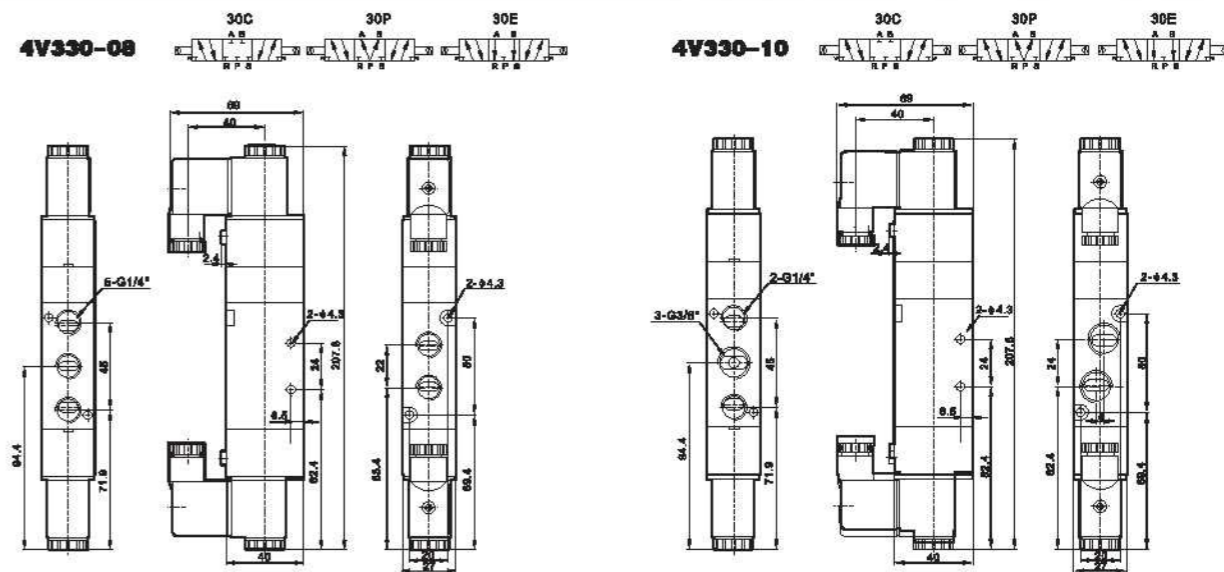
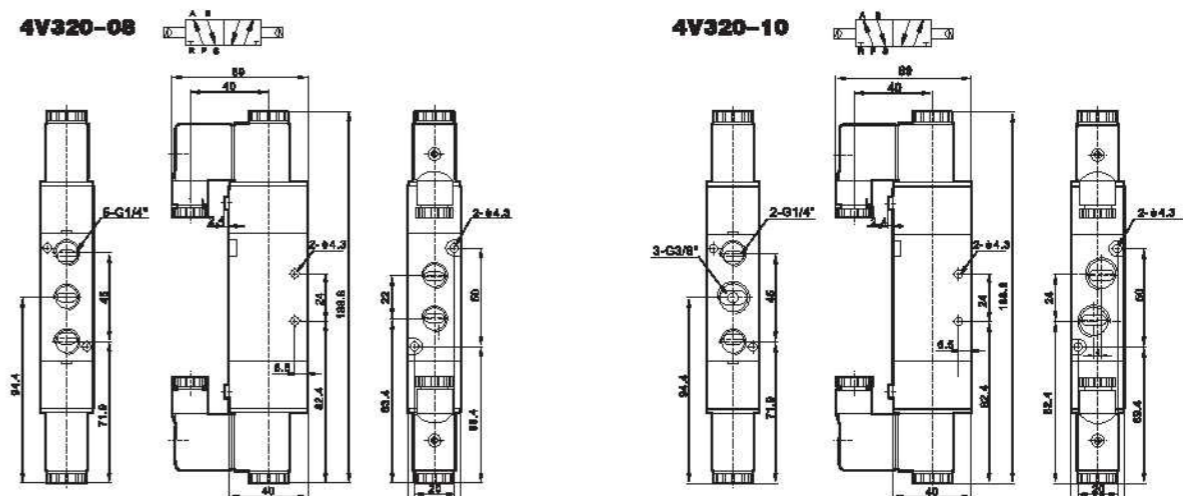


**Ordering Code**

<b>4V</b>	<b>3</b>	<b>10</b>	<b>10</b>	<b>AC220V</b>		
<b>Specification Code</b> 4V:Two(Three)-position Five-way Solenoid Valve 4A:Two(Three)-position Five-way pneumatic control Valve 3V:Two-position Three-way Solenoid Valve 3A:Two-position Three-way Pneumatic Control Valve	<b>Series Code</b> 300 Series	<b>Coil and Places</b> 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type	<b>Port Size</b> 08:G1/4" 10:G3/8"	<b>Port connection and Initial State</b> NC:Two-position Three-way Normal Close Type NO:Two-position Three-way Normal Open Type	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Standard Connector LD:With Lighting Connector LD1:With Lighting Connector W:Lead Wire Type

**Specification**

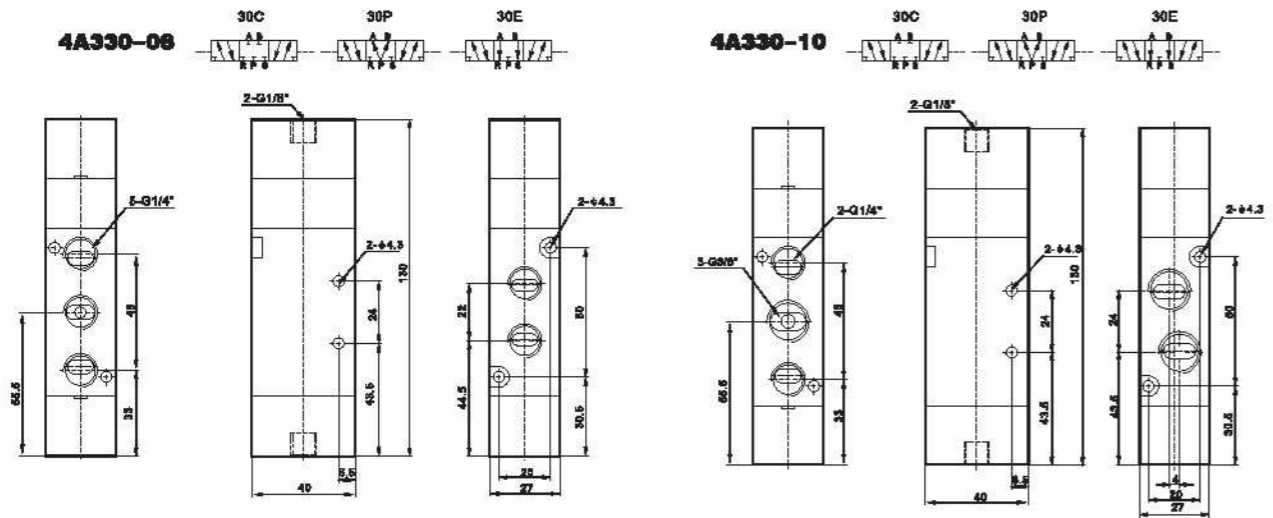
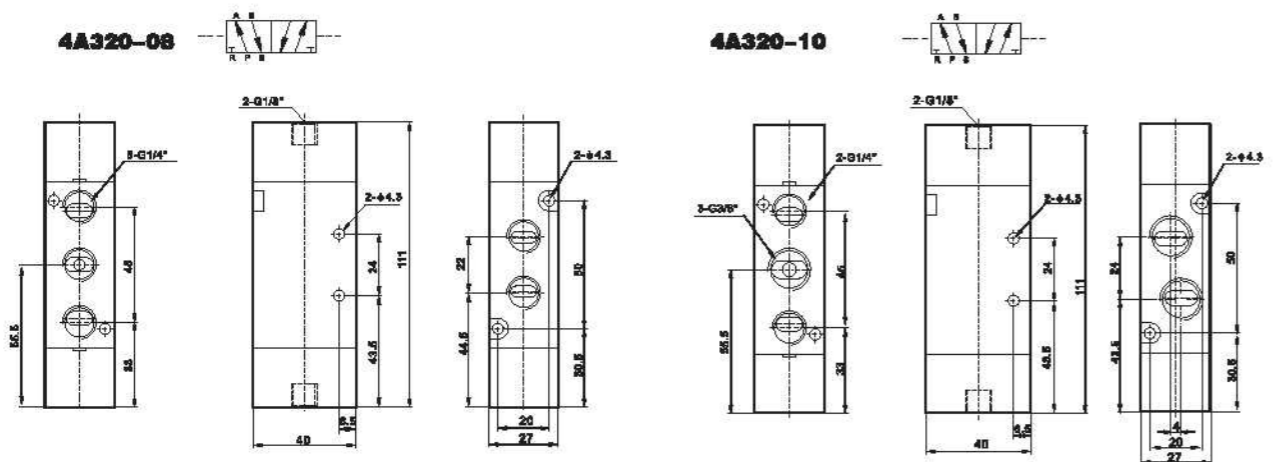
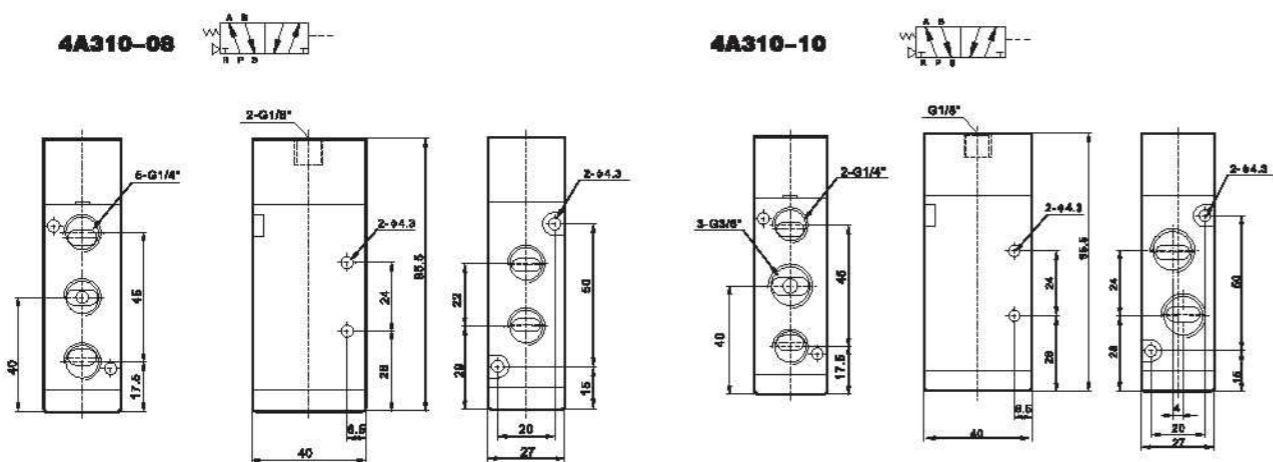
Model	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
Position and Way NO.	Two-position Five-way		Three-position Five-way			Two-position Five-way		Three-position Five-way		
Effective Sectional Area	25mm <sup>2</sup> (CV=1.40)		18mm <sup>2</sup> (CV=1.00)			30mm <sup>2</sup> (CV=1.68)		18mm <sup>2</sup> (CV=1.00)		
Model	3V310-08	3V320-08	3A310-08	3A320-08	3V310-10	3V320-10	3A310-10	3A320-10		
Position and Way NO.	Two-position Three-way				Two-position Three-way					
Effective Section Area	25mm <sup>2</sup> (CV=1.40)				30mm <sup>2</sup> (CV=1.68)					
Joint Pipe Bore	Air Inlet=Air Oute=Exhaust=G1/4"				Air Inlet=Air Outet=3/8" Exhaust=G1/4"					
Working Medium	40 Micron Filtered Air									
Motion Pattern	Inner Guide Type									
Working-pressure	0.15~0.8 M Pa									
Max. Pressure Resistance	1.2MPa									
Operating Temperature	5~50°C									
Voltage Range	±10%									
Power Consumption	AC: 4.5VA DC: 3W									
Insulation & Protection Class	F Class. IP65									
Wiring Form	Lead Wire or Connector Type									
Highest Action Frequency	5 Cycle / Sec									
Shortest Excitation Time	0.05 Second									





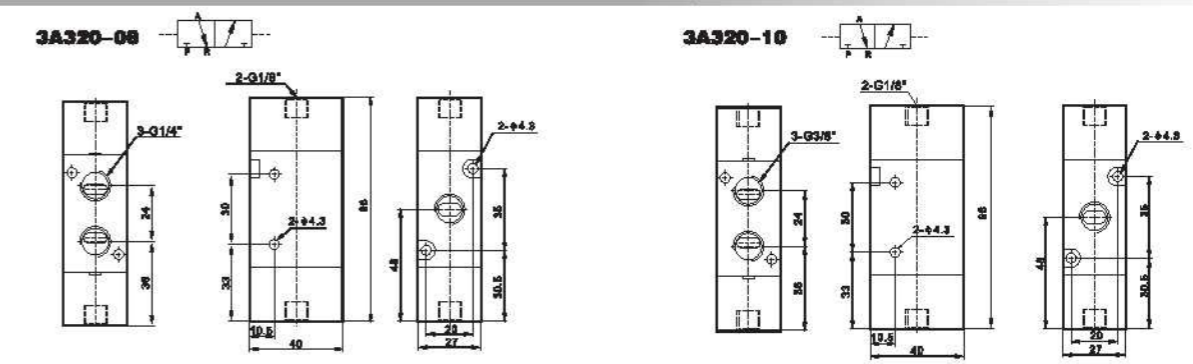
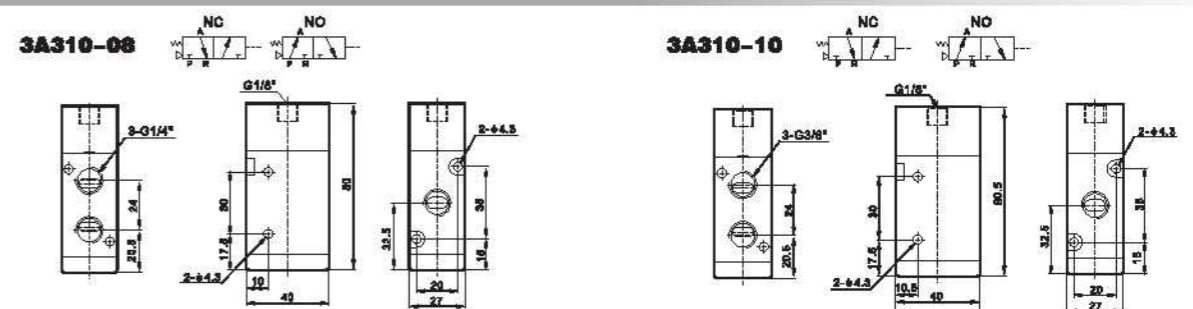
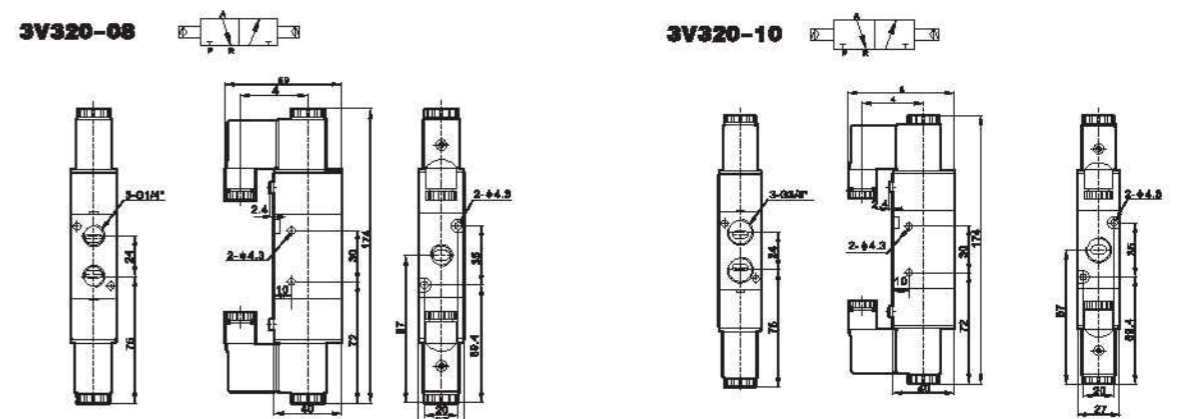
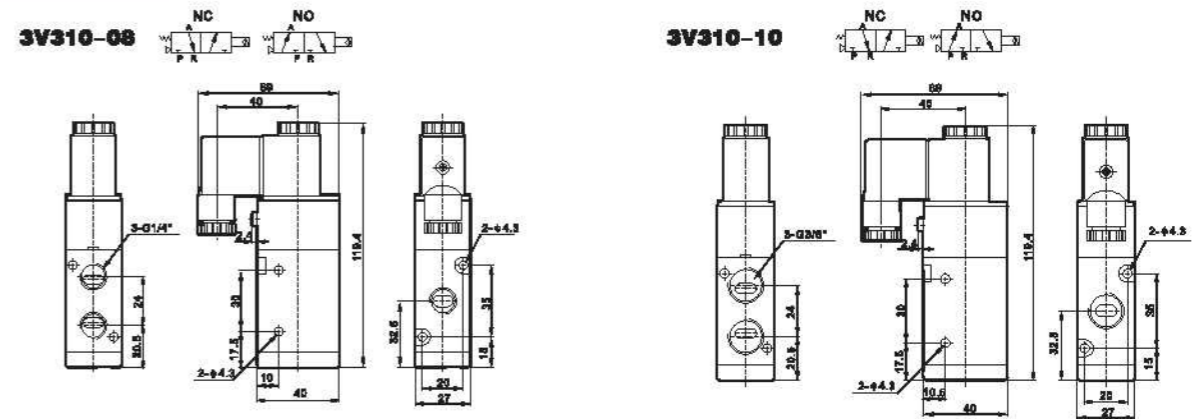
**4V,3V300 Series Solenoid Valve, 4A,3A300 Series Pneumatic Control Valve**

**Overall Dimensions**



**4V,3V300 Series Solenoid Valve, 4A,3A300 Series Pneumatic Control Valve**

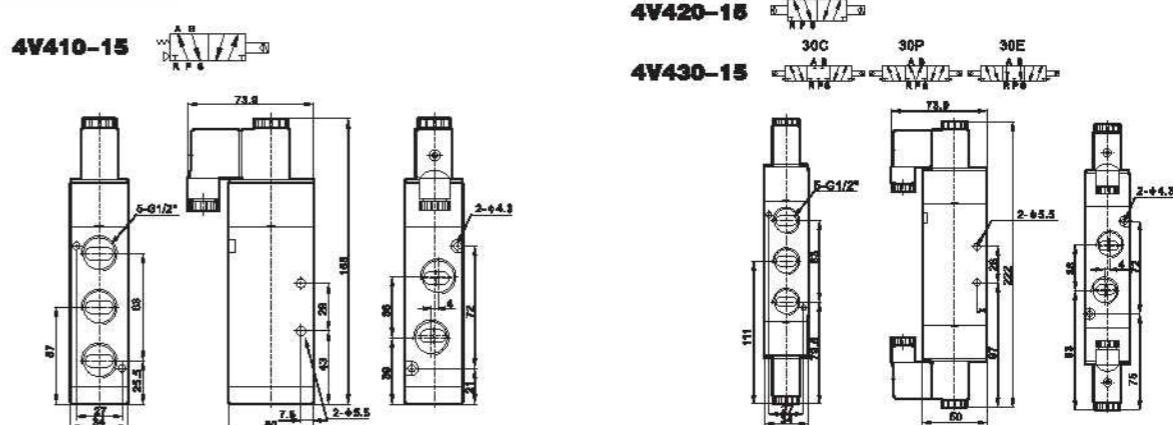
**Overall Dimensions**





**4V,3V400 Series Solenoid Valve,4A,3A400 Series Pneumatic Control Valve**

**4V,3V400 Series Solenoid Valve,4A,3A400 Series Pneumatic Control Valve**

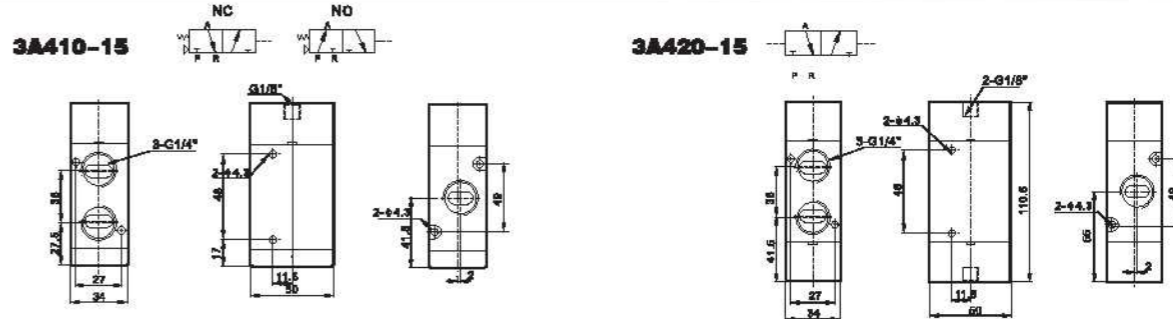
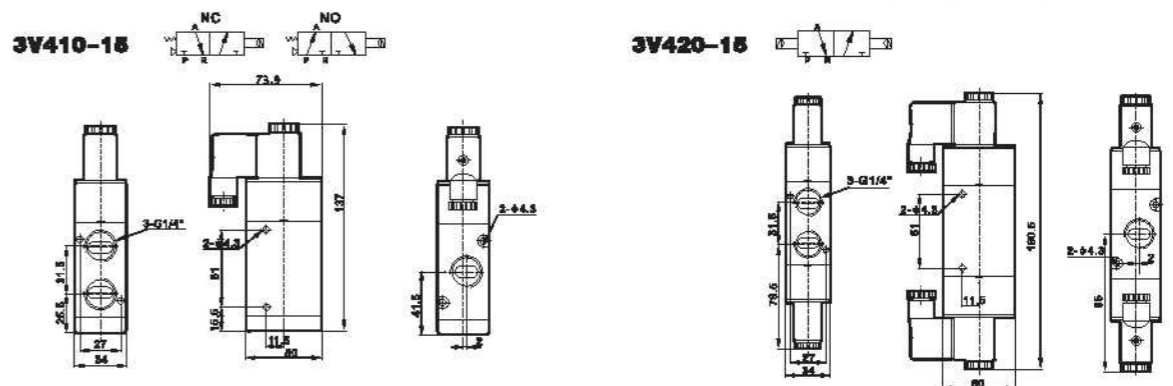
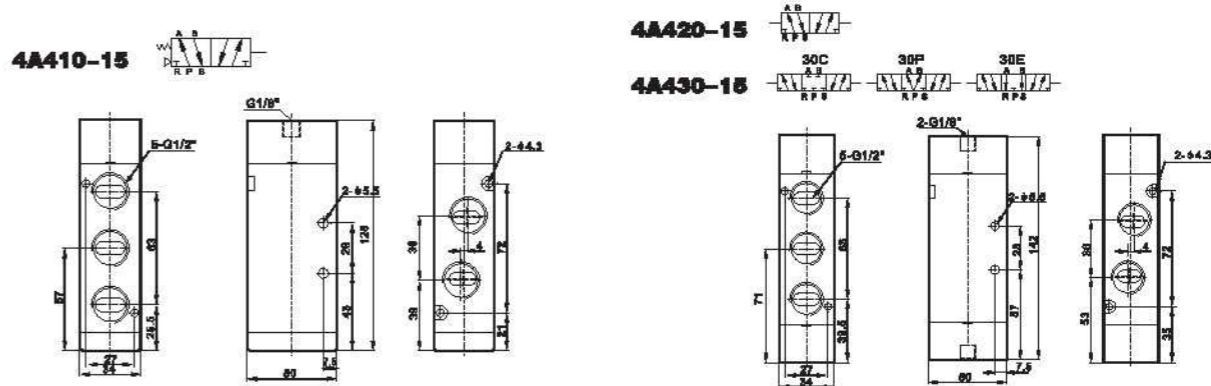


**订货单 Ordering Code**

<b>4V</b>	<b>4</b>	<b>10</b>	<b>10</b>	<b>□</b>	<b>AC220V</b>	<b>□</b>
<b>Specification Code</b> 4V:Two(Three)-position Five-way Solenoid Valve 4A:Two(Three)-position Five-way Pneumatic control Valve 3V:Two-position Three-way Solenoid Valve 3A:Two-position Three-way Pneumatic Control Valve	<b>Series Code</b> 400 Series	<b>Coil and Places</b> 10:Single-head Double-position 20:Double-head Double-position 30C:Double-head Three-position Close Type 30E:Double-head Three-position Exhaust Type 30P:Double-head Three-position Pressure Type	<b>Port Size</b> 15:G1/2"	<b>Port connection and Initial State</b> NC:Two-position Three-way Normal Close Type NO:Two-position Three-way Normal Open Type	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Standard Connector LD:With Lighting Connector LD1:With Lighting Connector W:Lead Wire Type

**Specification**

<b>Model</b>	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
	4A410-15	4A420-15	4A430C-15	4A430E-15	4A430P-15
<b>Position and Way NO.</b>	Two-position Five-way		Three-position Five-way		
<b>Effective Sectional Area</b>	50mm <sup>2</sup> (CV=2.79)		30mm <sup>2</sup> (CV=1.68)		
<b>Model</b>	3V410-08	3V420-08	3A410-08	3A420-08	
<b>Position and Way NO.</b>	Two-position Three-way				
<b>Effective Section Area</b>	50mm <sup>2</sup> (CV=2.79)				
<b>Joint Pipe Bore</b>	Air Inlet=Air Outlet=Exhaust=G1/2"				
<b>Working Medium</b>	40 Micron Filtered Air				
<b>Motion Pattern</b>	Inner Guide Type				
<b>Working-pressure</b>	0.15~0.8 M Pa				
<b>Max. Pressure Resistance</b>	1.2MPa				
<b>Operating Temperature</b>	5~50℃				
<b>Voltage Range</b>	±10%				
<b>Power Consumption</b>	AC: 4.5VA DC: 3W				
<b>Insulation &amp; Protection Class</b>	F Class, IP65				
<b>Wiring Form</b>	Lead Wire or Connector Type				
<b>Highest Action Frequency</b>	5 Cycle / Sec				
<b>Shortest Excitation Time</b>	0.05 Second				





### 4M Series Plate Type Valve



4M210-08

4M310-10

4M220-08

#### Ordering Code

**4M**

**2**

**10**

**06**

**AC220V**

**□**

**Specification Code**  
4M:Two-position  
Five-way Plate Type  
Valve

**Body Size**  
2:1/8" and 1/4"  
Valve body  
3:1/4" and 3/8"  
Valve body

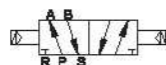
**Coil and Places**  
10:Single-head  
Double-position  
20:Double-head  
Double-position

**Port Size**  
06:G1/8"  
08:G1/4"  
10:G3/8"

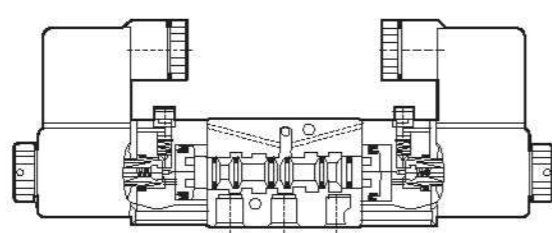
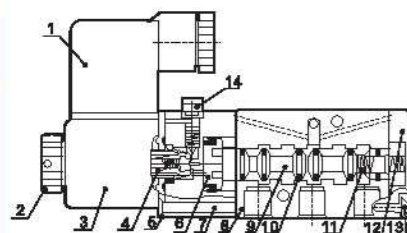
**Standard Voltage**  
DC12V  
DC24V  
AC24V 50Hz/60Hz  
AC110V 50Hz/60Hz  
AC220V 50Hz/60Hz  
AC380V 50Hz/60Hz

**Wiring Form**  
Blank:Standard  
Connector  
LD:With Lighting  
Connector  
LD1:With Lighting  
Connector  
W:Lead Wire Type

Graphic Symbol



#### Internal structure



4M 210-310

4M 220-320

NO	Designation	NO	Designation
1	Connector	8	Valve body
2	Nut	9	Spool
3	Coil	10	O-Ring
4	Pilot units	11	Spring
5	Plate	12	Rear cover
6	Piston	13	Screw
7	Screw	14	Manual override

#### Specification

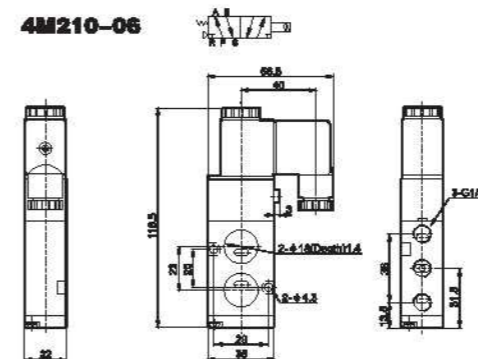
Model	4M210-06	4M220-06	4M210-08	4M220-08	4M310-08	4M320-08	4M310-10	4M320-10
Working Medium	40 Micron Filtered Air							
Motion Pattern	Inner Guide Type							
Position and Way NO.	Two-position Five-way							
Effective Section Area	14mm <sup>2</sup> (CV=0.78)	16mm <sup>2</sup> (CV=0.89)	16mm <sup>2</sup> (CV=0.89)	25mm <sup>2</sup> (CV=1.39)	25mm <sup>2</sup> (CV=1.39)	25mm <sup>2</sup> (CV=1.39)	30mm <sup>2</sup> (CV=1.67)	30mm <sup>2</sup> (CV=1.67)
Port Size	Air Inlet=Exhaust=G1/8"	Air Inlet=G1/4"/Exhaust=G1/8"	Air Inlet=G1/4"/Exhaust=G1/8"	Air Inlet=Exhaust=G1/4"	Air Inlet=Exhaust=G1/4"	Air Inlet=Exhaust=G1/4"	Air Inlet=G3/8"/Exhaust=G1/4"	Air Inlet=G3/8"/Exhaust=G1/4"
Lubricate	Not Necessary							
Working-Pressure	0.15~0.8MPa							
Max.Pressure Resistance	1.2MPa							
Operating Temperature	5~60°C							
Voltage Range	-15%~+10%							
Power Consumption	AC380V:2.5VA,AC220V:2.0VA,AC110V:2.5VA,AC24V:3.5VA,DC24V:3.0W,DC12V:2.5W							
Insulation & Protection Class	F Class,IP65							
Wiring Form	Lead wire or Connector Type							
Highest Action Frequency	5 Cycle / Sec							
Shortest Excitation Time	0.05 Second							



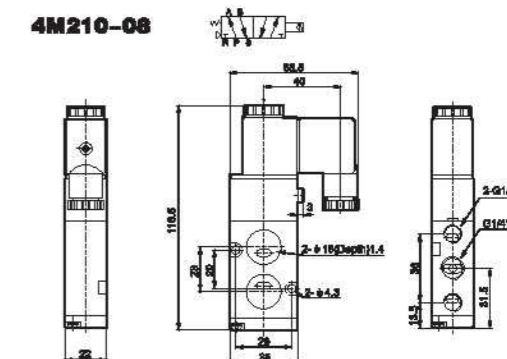
### 4M Series Plate Type Valve

#### Overall Dimensions

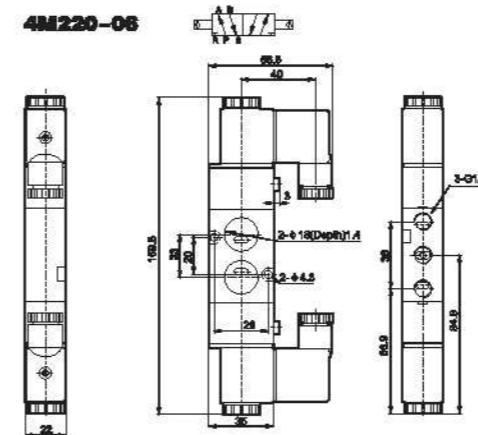
4M210-06



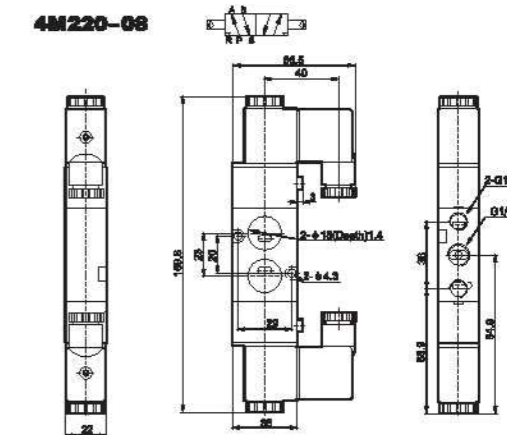
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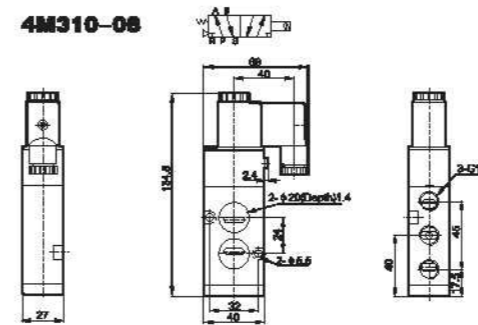
4M220-06



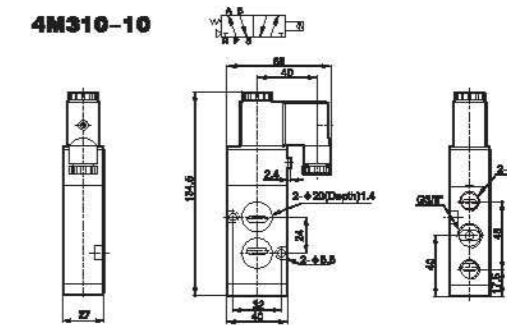
4M220-08



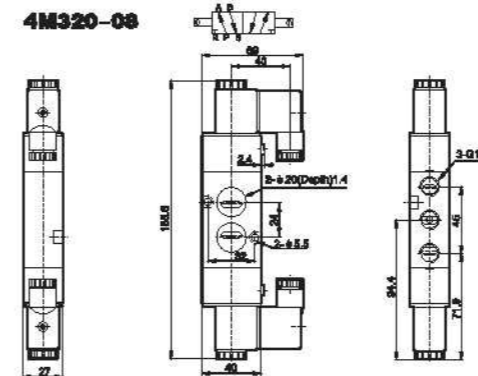
4M310-08



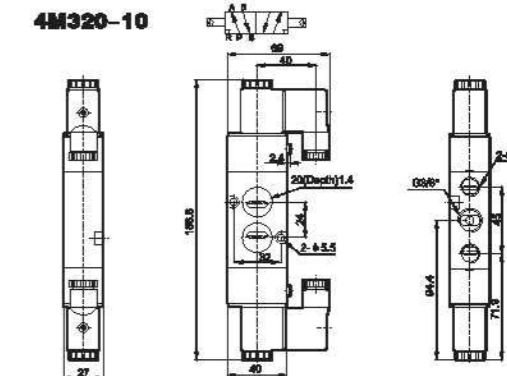
4M310-10



4M320-08



4M320-10





**VF, VZ Series Solenoid Valve**



**VF5120**

**VF3230**

**Ordering Code**

**VF3**

**1**

**30**

**AC220V**

**□**

**Series No.**  
VF3 Series  
VF5 Series  
VZ5 Series

**Coil and Places**  
1:Single-Coil Double-position  
2:Double-Coil Double-position  
3:Double-Coil Three-position Close Type  
4:Double-Coil Three-position Exhaust Type  
5:Double-Coil Three-position Pressure Type

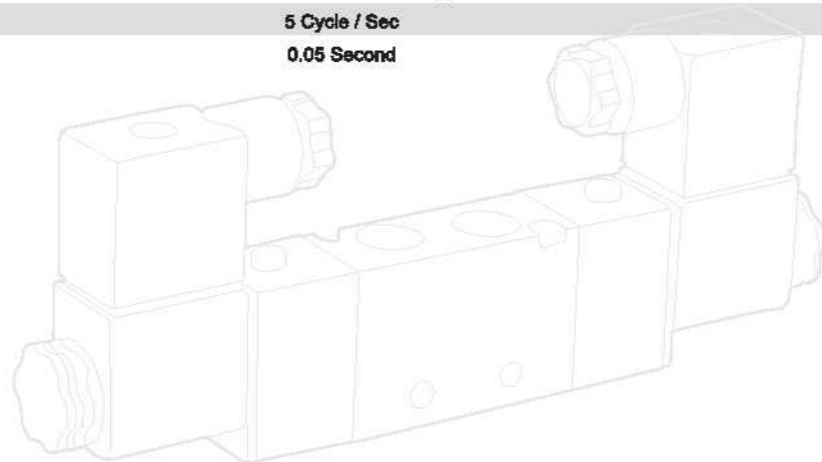
**Order No.**  
VF3:30  
VF5:20  
VZ5:20

**Standard Voltage**  
DC12v  
DC24v  
AC24v 50Hz/60Hz  
AC110v 50Hz/60Hz  
AC220v 50Hz/60Hz  
AC380v 50Hz/60Hz

**Wiring Form**  
Blank:Standard Connector  
LD:With Lighting Connector  
W:Lead Wire Type

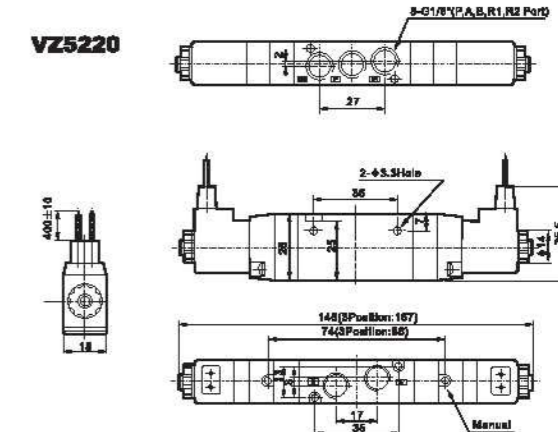
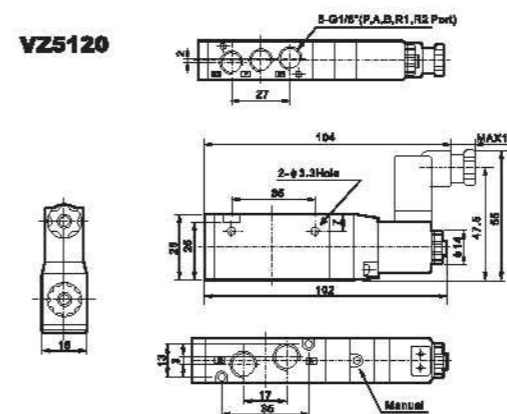
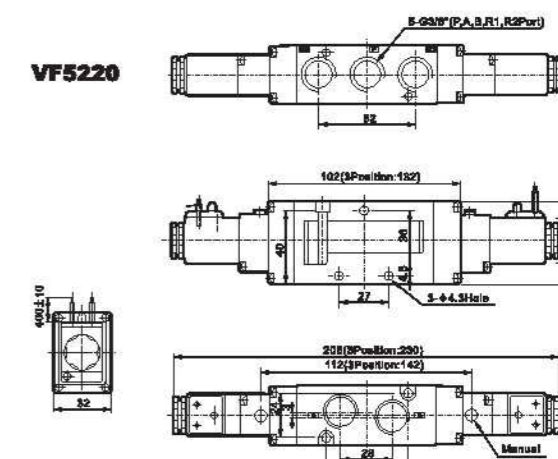
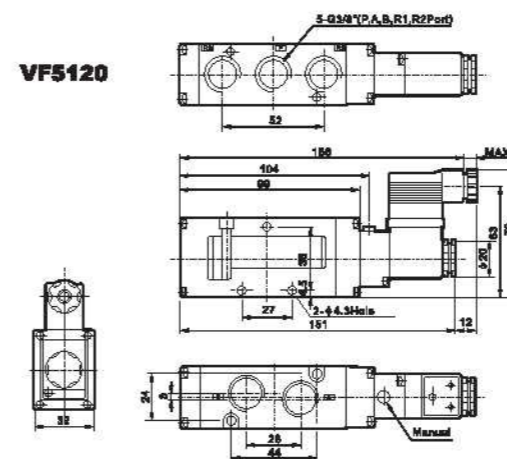
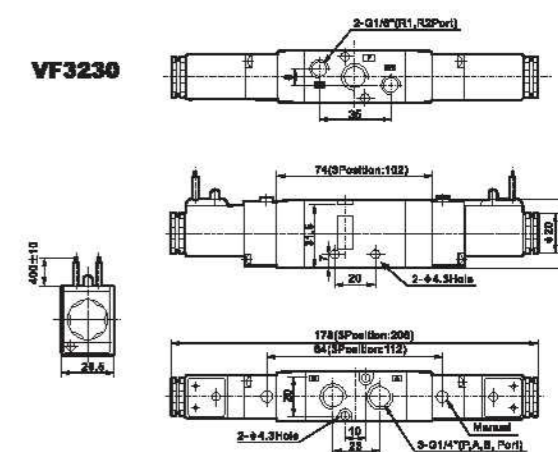
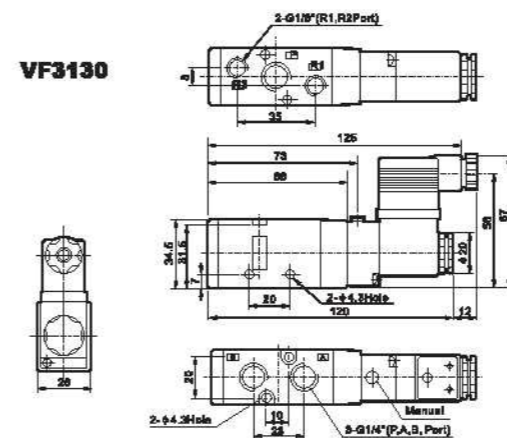
**Specification**

Model	VF3130	VF3230	VF33(4/5)30	VF5120	VF5220	VF53(4/5)20	VZ5120	VZ5220	VZ53(3/4)20
Position and Way No.	Two-position Five-way	Three-position Five-way	Three-position Five-way	Two-position Five-way	Three-position Five-way	Two-position Five-way	Two-position Five-way	Three-position Five-way	Three-position Five-way
Effective Section Area	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)	12mm <sup>2</sup> (CV=0.67)	25mm <sup>2</sup> (CV=1.40)	18mm <sup>2</sup> (CV=1.00)	12mm <sup>2</sup> (CV=0.67)	12mm <sup>2</sup> (CV=0.67)	9mm <sup>2</sup> (CV=0.50)	9mm <sup>2</sup> (CV=0.50)
Working Medium	40 Micron Filtered Air								
Motion Pattern	Inner Guide Type								
Working-Pressure	0.15~0.8MPa								
Max.Pressure Resistance	1.2MPa								
Operating Temperature	5~50°C								
Voltage Range	±10%								
Power Consumption	AC:4.5VA DC:3W								
Insulation & Protection Class	IP65/F Class.IP65								
Wiring Form	Lead Wire or Connector Type								
Highest Action Frequency	5 Cycle / Sec								
Shortest Excitation Time	0.05 Second								



**VF, VZ Series Solenoid Valve**

**Overall Dimensions**





### 3V1 Series Solenoid Valve



3V1-06

#### Ordering Code

**3V 1 06 - B AC220V** - □

**Specification Code**  
3V: Two-position Three-way Solenoid Valve

**Port Size**  
M5:M5×0.8  
06:G1/8"

**Standard Voltage**  
DC12v  
DC24v  
AC24v 50Hz/60Hz  
AC110v 50Hz/60Hz  
AC220v 50Hz/60Hz  
AC380v 50Hz/60Hz

**Wiring Form**  
Blank:Standard Connector  
G:Lead Wire Type  
L:With Lighting Connector

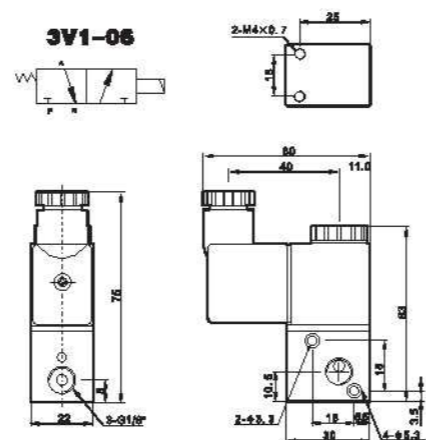
**Series Code**  
100 Series

**Connecting Type**  
Blank:Pipe Connection Type  
B:Plate Connection Type

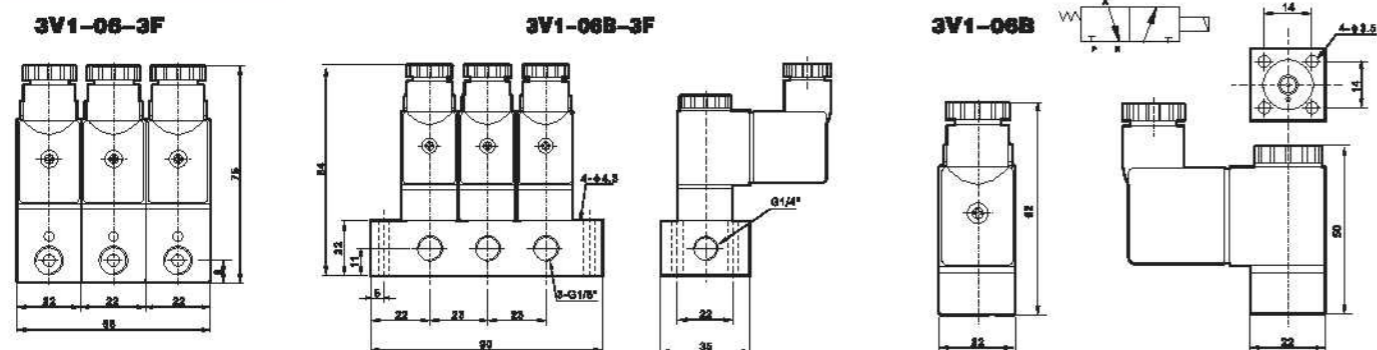
#### Specification

Model	3V1-M5	3V1-06
Working Medium	40 Micron Filtered Air	
Motion Pattern	Direct Drive Type	
Joint Pipe Bore	M5	1/8"
Ambient Temperature	-10~+60°C	
Gas Temperature	5~60°C	
Air Outlet Diameter	1.0mm	
Lubrication	Not Necessary	
Working-pressure	0~0.8MPa	
Max.Pressure Resistance	1.2MPa	
Power Consumption	AC:4.5VA DC:3.0W	
Protect Class	IP65	
Power Connection Form	Gorl	
Material of Body	Aluminum alloy	
Highest Action Frequency	10Cycle / Sec	
Insulation	F Class	
Voltage Range	±10%	
Shortest Excitation Time	0.05 Second	

#### Overall Dimensions



#### Overall Dimensions



### Base For 4V, 4A Series Valve



#### Base Ordering Code

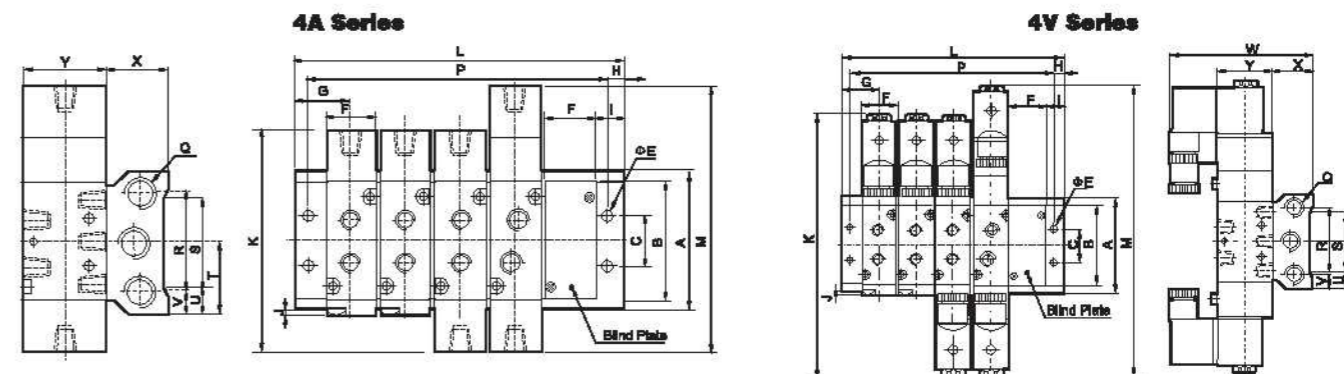
**4V** - **100M** - □ **F**

**Series Code**  
4V:For 4V Series uses  
4A:For 4A Series uses

**Specification Code**  
100M:Base for 100 Series Use  
200M:Base for 200 Series Use  
300M:Base for 300 Series Use  
400M:Base for 400 Series Use

**Joint Base Number**  
100M:Wantonly Joint  
200M:Wantonly Joint  
300M:Wantonly Joint  
400M:Wantonly Joint

#### Overall Dimensions



#### Dimension Sheet(4A Series)

Model	A	B	C	E	F	G	H	I	J	K	L															
											1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M-□F	58	43.2	20	4.5	18.3	19	5	10	0.8	139.4	38	57	75	95	114	133	152	171	190	209	228	247	266	285	304	323
200M-□F	61	50.7	21	4.5	22.4	23	6	12	1.2	170	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
300M-□F	75	64.8	26	4.5	27.3	27	6	13.5	2.5	188.8	54	82	110	138	166	194	22	250	278	306	334	362	-	-	-	-
400M-□F	104	94.5	32	5.5	34.3	31.5	7	14.5	5	221.8	63	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-

Model	M	P																Q	R	S	T	U	V	W	X	Y
		1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F									
100M-□F	154.5	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313	G1/4"	40	30	29	14	9	79	25	27
200M-□F	189	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379	G1/4"	43	32	30.5	14.5	9	93	26	35
300M-□F	208	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	G3/8"	53	48	37.5	13.5	11	99.5	30	40
400M-□F	243	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	G1/2"	68	67	52	18.5	18	112.5	38	50

#### Dimension Sheet(4V Series)

Model	A	B	C	E	F	G	H	I	J	K	L															
											1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M-□F	58	43.2	20	4.5	18.3	19	5	10	0.8	81	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
200M-□F	61	50.7	21	4.5	22.4	23	6	12	1.2	92	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
300M-□F	75	64.8	26	4.5	27.3	27	6	13.5	2.5	111	54	82	110	138	166	194	22	250	278	306	334	362	-	-	-	-
400M-□F	104	94.5	32	5.5	34.3	31.5	7	14.5	5	142	71	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-

Model	M	P																Q	R	S	T	U	V	X	Y
		1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F								
100M-□F	96	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313	G1/4"	40	30	29	14	9	25	27
200M-□F	111	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379	G1/4"	43	32	30.5	14.5	9	26	35
300M-□F	130	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	G3/8"	53	48	37.5	13.5	11	30	40
400M-□F	163	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	G1/2"	68	67	52	18.5	18	38	50





## Hand/Mechanical Valve

The valve is controlled by human or machine, to switch the direction of air flow. These valves included hand pull, hand draw, button control, rotary and foot valve. Body is made from aluminum, machining by CNC center. XCPC used the high grade of material and imported machine to make all the details perfect.



### Base For VF, VZ Series Valve



#### Base Ordering Code

**VF3000M**

**F**

#### Specification Code

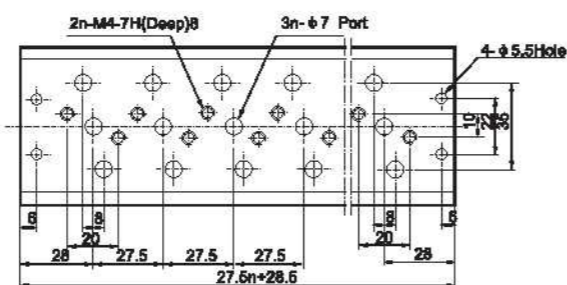
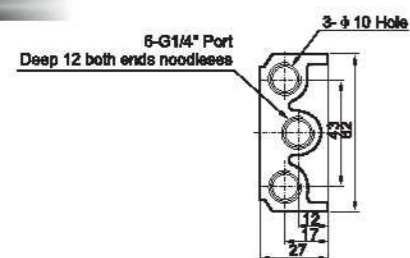
VF3000M:For VF3 Series Use  
VF5000M:For VF5 Series Use  
VZ5000M:For VZ5 Series Use

#### Joint Base Number

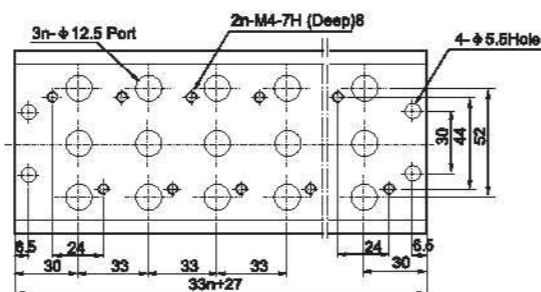
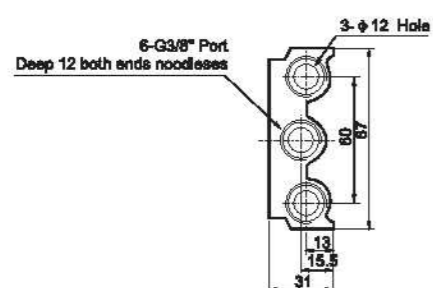
VF3000M:Wantonly Joint  
VF5000M:Wantonly Joint  
VZ5000M:Wantonly Joint

### Overall Dimensions

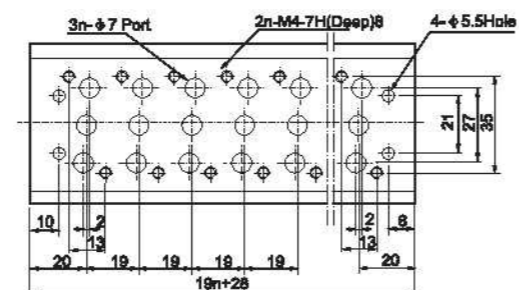
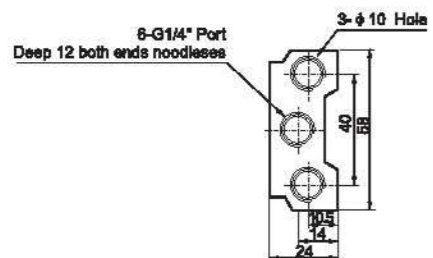
**VF3000M**



**VF5000M**



**VZ5000M**



### Base For 4M Series Valve



#### Blind Plate Ordering Code

**4M**

**100M**

**B**

**Series Code**  
4M:For 4M Series uses

**Specification Code**  
100M:For 100 Series Use  
200M:For 200 Series Use  
300M:For 300 Series Use  
400M:For 400 Series Use

**Blind Plate Code**  
B:Base Purposed Blind Plate

**Blind plate Operating Instructions:**  
When base quantity is more than solenoid (pneumatic) valve quantity, can use blind plate to seal the redundant valve base temporary, and then change it if add extra solenoid (pneumatic) valve. Like this can expand system.





### MSV Series Mechanical Valve



MSV86522-EB MSV86522-PB MSV86522-TB MSV86522-LB MSV86522-PP MSV86522-PPL MSV86522-R

#### Ordering Code

**MSV 98 32 1 R**

**Specification Code**  
Mechanical Valve

**Series Code**  
98 Series  
86 Series

**Position and Way Number**  
32: Two-position Three-way  
52: Two-position Five-way

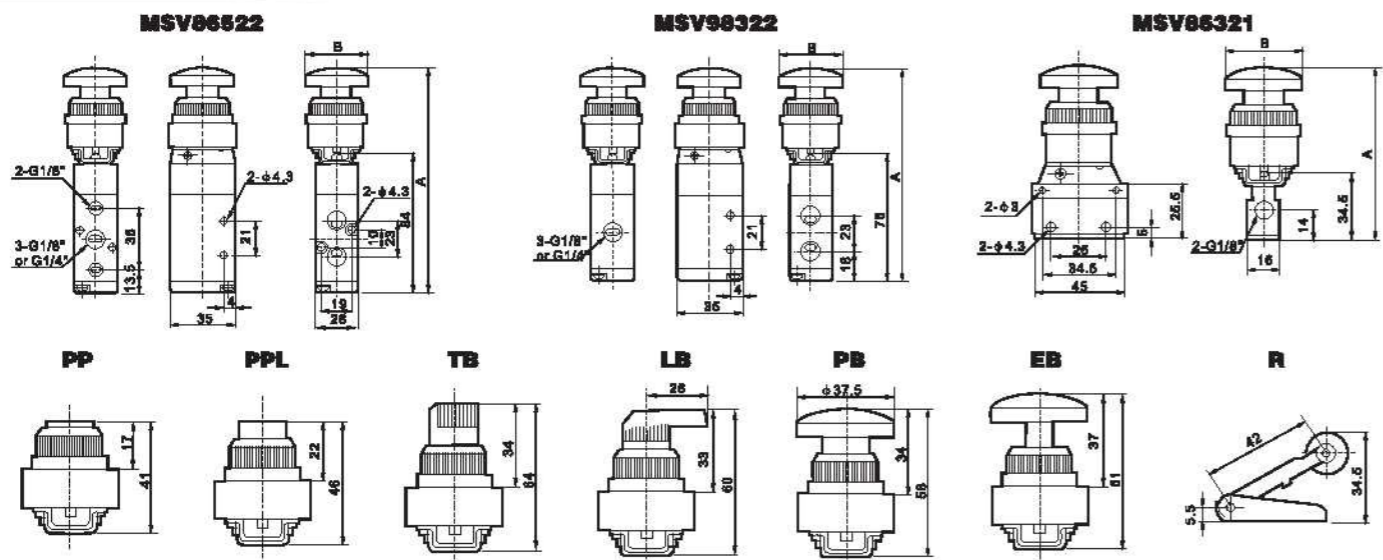
**Port Size**  
1: G1/8"  
2: G1/4"

**Button type**  
Blank: Normal Type  
R: Roller Type  
TB: Selective Knob  
LB: Strengthened Knob  
PB: Large Round Button  
PP: Plat Round Button  
PPL: Convex Round Button  
EB: With Lock Button

#### Specification

Model	MSV86321	MSV86522	MSV98322
Working Medium	40 Micron Filtered Air		
Position and Way No.	Two-position Three-way	Two-position Five-way	Two position Three-way
Effective Section Area	12mm <sup>2</sup> (CV=0.67)	16mm <sup>2</sup> (CV=0.88)	16mm <sup>2</sup> (CV=0.89)
Port Size	G1/8"	G1/4"	G1/4"
Pressure Range	0~0.8Mpa		
Temperature Range	0~60°C		

#### Overall Dimensions



#### Dimension Sheet

Series	Symbol/Model	PP	PPL	LB	TB	EB	PB	R
MSV86522	A	114	119	133	136.5	134	131	107.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5
MSV98322	A	106	111	125	128.5	126	123	99.5
	B	39.5	24.5	28.5	36.5	39.5	37.5	42.5
MSV86321	A	66	71	85	88.5	86	83	59.5
	B	39.5	24.5	28.5	36.5	39.5	37.5	42.5



### JMJ Series Mechanical Valve



JMJ-01 MJMJ-02 MJMJ-03 MJMJ-04 MJMJ-05 MJMJ-06 MJMJ-07

#### Ordering Code

**JMJ** — **01**

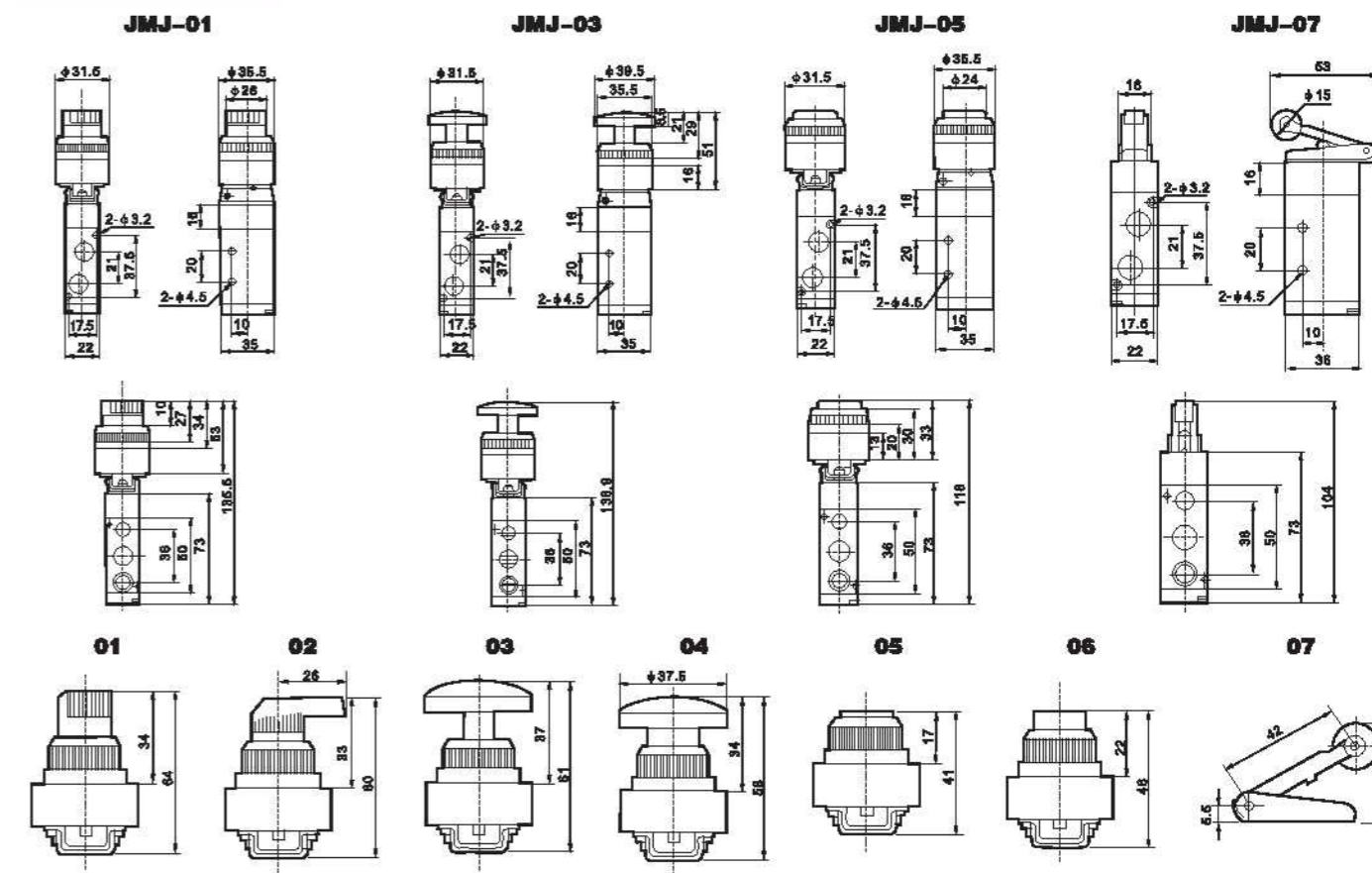
**Specification Code**  
Joint Pipe Bore G1/4" Two-position Three-way Mechanical Valve

**Type**  
01: Selective Knob  
02: Strengthened Knob  
03: With Lock Button  
04: Large Round Button  
05: Plat Round Button  
06: Convex Round Button  
07: With Lock Button

#### Specification

Model	JMJ-01, 02, 03, 04, 05, 06, 07
Port Size	G1/4"
Working Medium	Air
Temperature Range	0~60°C
Pressure Range	0~1MPa
Effective Section Area	25mm <sup>2</sup>
Lubrication	Not Necessary

#### Overall Dimensions





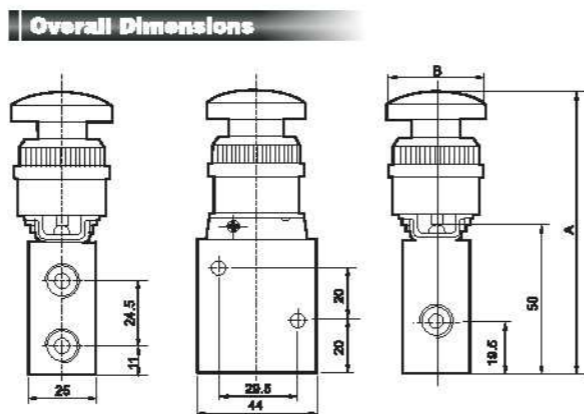
### JM Series Mechanical Valve



**Ordering Code**  
**JM** — **05**  
**Specification Code** Stop-type Machinery Valve  
**Button Type** 05: Selective Knob  
 06: With Lock Button  
 06A: Plat Round Button  
 07: Roller Type

**Specification**

Model	JM-05	JM-06	JM-06A	JM-07
Working Medium	40 Micron Filtered Air			
Position and Way No.	0-0.8MPa			
Port Size	G1/4"			
Working-pressure Range	Two-position Three-way, Two-position Two-way			
Operating Temperature	0-60°C			



**Dimension Sheet**

Model	JM-05	JM-06	JM-06A	JM-07
A	114	111	96	84.5
B	36.5	39.5	39.5	42.5

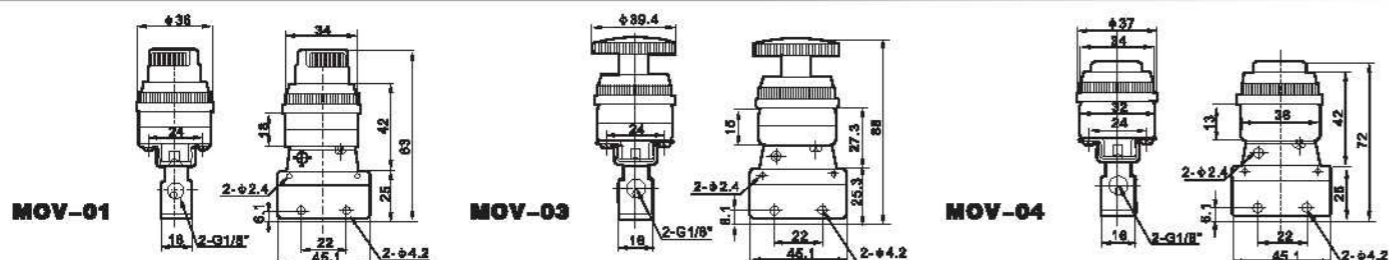
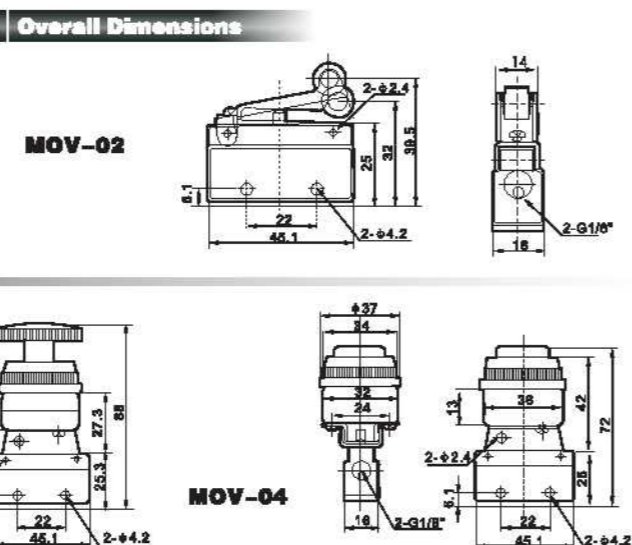
### MOV Series Mechanical Valve



**Ordering Code**  
**MOV** — **01**  
**Specification Code** Machine-Control, Hand-Control Valve  
**Button Type** 01: Selective Knob  
 02: Roller Type  
 03: With Lock Button  
 04: Plat Round Button

**Specification**

Model	MOV-01	MOV-02	MOV-03	MOV-04
Working Medium	Air			
Position and Way No.	Two-position Two-way			
Port Size	G1/8"			
Working-pressure Range	0-0.8MPa			
Operating Temperature	0-70°C			



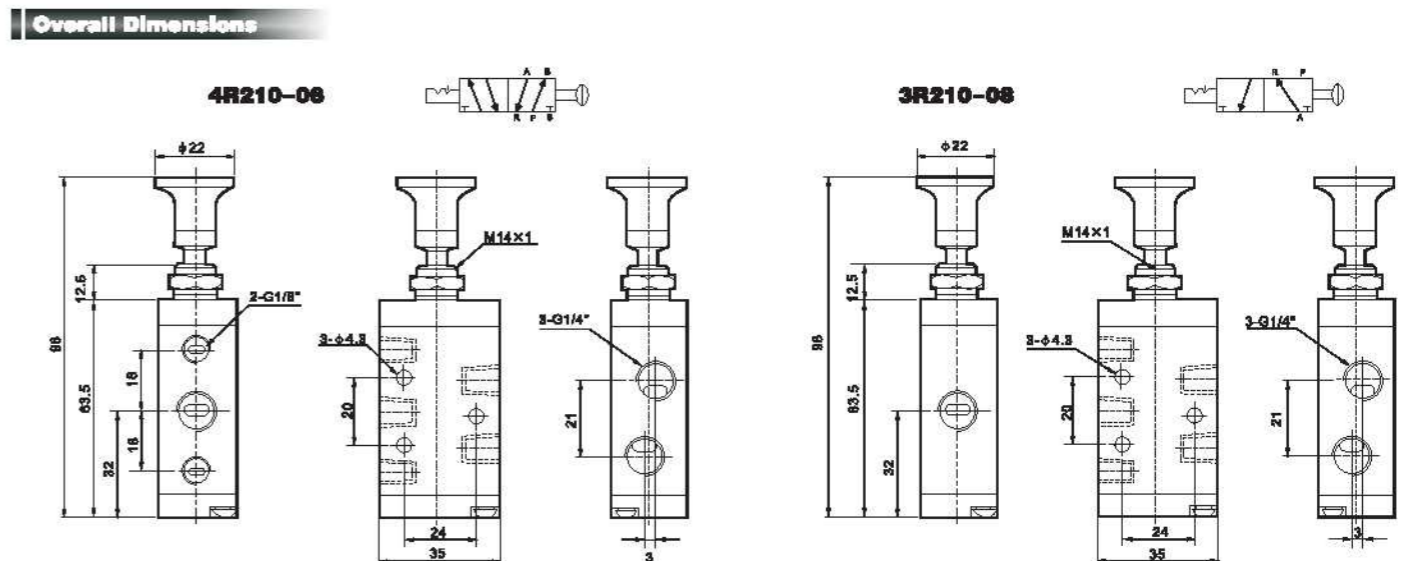
### 4R Series Hand-draw Valve



**Ordering Code**  
**4R** — **2** — **10** — **06**  
**Specification Code** 4R: Two-position Five-way Hand-draw Valve  
 3R: Two-position Three-way Hand-draw Valve  
**Series Code** 200 Series  
 300 Series  
 400 Series  
**Number of Places** 10: Single-head Double-position  
**Port Size** 06: G1/8"  
 08: G1/4"  
 10: G3/8"  
 15: G1/2"

**Specification**

Model	4R110-06	4R210-08	4R310-10	4R410-15	3R110-06	3R210-08	3R310-10	3R410-15
Working Medium	Compressed Air							
Position and Way No.	Two-position Five-way				Two-position Three-way			
Joint Pipe Bore	G1/8"	G1/4"	G3/8"	G1/2"	G1/8"	G1/4"	G3/8"	G1/2"
Working-pressure Range	0-1.0MPa							
Operating Temperature Range	-5-60°C							
Operating Method	Direct Action Type							
Lubrication	Not Required							





### HV, K34 Series Hand-switching Valve



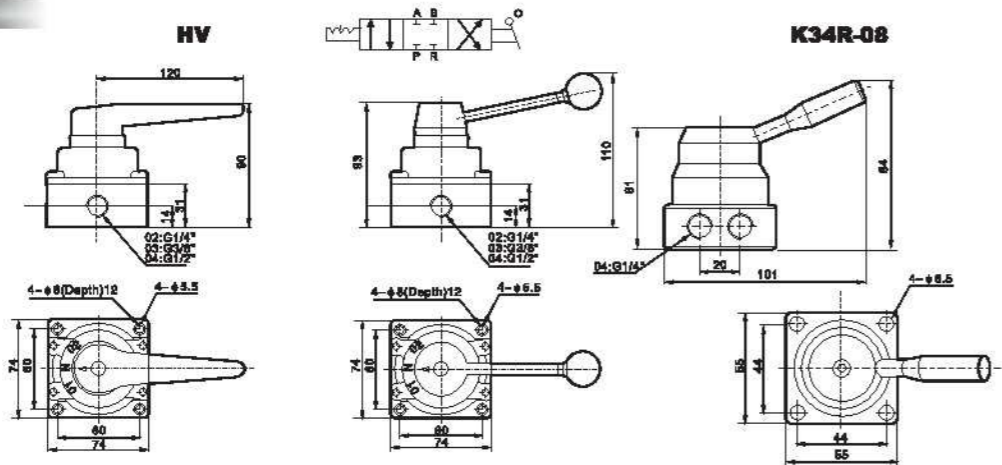
**Ordering Code**

**HV** — **02** **K** **34** — **R<sub>0</sub>** **L8** **D**  
 Specification Code Hand-switching Valve    Port Size 02:G1/4" 03:G3/8" 04:G1/2"    Joint Pipe Type Blank/Pipe Connection Type B:Plate Connection Type  
 Specification Code Hand-switching Valve    Position and way NO. 24:Two-position Four-way 34:Three-position Four-way    Type Code R<sub>0</sub>:Hand-switching Valve    Port Size L6:G1/8" L8:G1/4"    Base Joint

**Specification**

Model	HV-02	HV-03	HV-04	K34R <sub>0</sub> -L6	K34R <sub>0</sub> -L8
Working Medium	40 Micron Filtered Air				
Effective Sectional Area	30mm <sup>2</sup> (cv+1.68)		18mm <sup>2</sup> (cv+1.00)		
Port Size	G1/4"	G3/8"	G1/2"	G1/8"	G1/4"
Working-pressure Range	0~0.8MPa				
Operating Temperature Range	0~60℃				

**Overall Dimensions**



### 4HV Series Hand-switching Valve



**Ordering Code**

**4HV** — **230** — **08** — **T**  
 Specification Code 4HV: Hand-switching Valve    Number of Places 230: Three-position Four-way 330: Three-position Four-way 430: Three-position Four-way    Port Size 08: PT1/4" 10: PT3/8" 15: PT1/2"    Install Type Blank: Body of Valve Install T: Panel Install



### TSV Series Hand-pull Valve



TSV86522-M

TSV98322-M

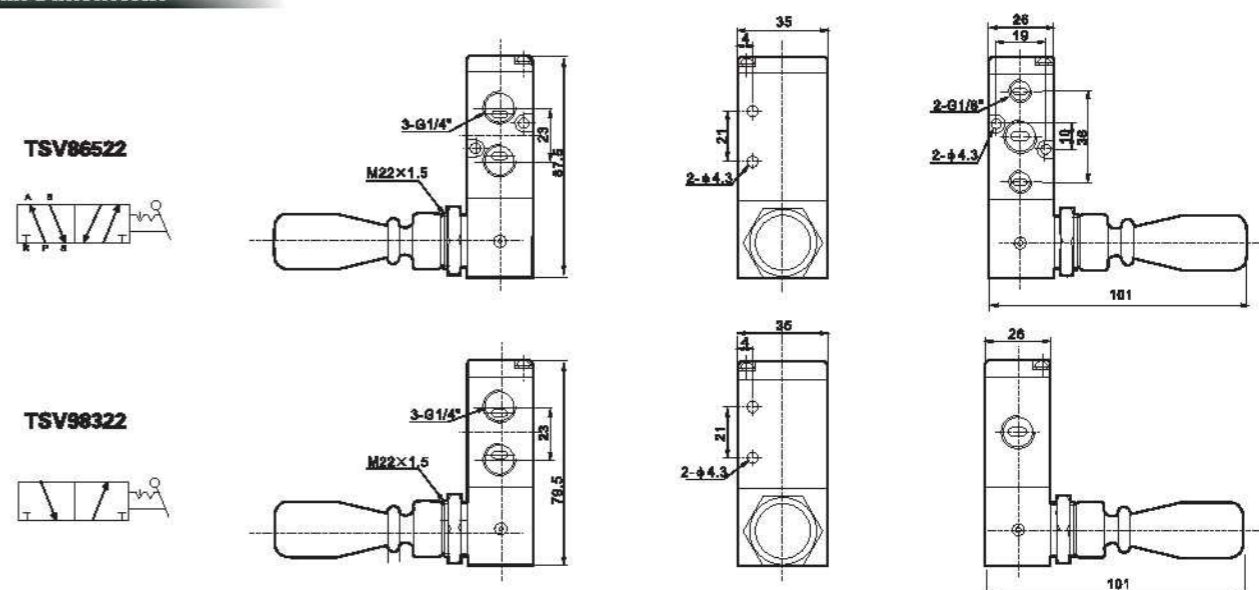
**Ordering Code**

**TSV86** — **52** — **2** — **M**    |    **TSV98** — **32** — **2** — **M**  
 Specification Code Hand-pull Valve    Position and Way NO. Two-position Five-way    Port Size 1:G1/8" 2:G1/4"    Type Code M:Machinery Locking Type S:Spring Return Type  
 Specification Code Hand-pull Valve    Position and Way NO. Two-position Three-way    Port Size 1:G1/8" 2:G1/4"    Type Code M:Machinery Locking Type S:Spring Return Type

**Specification**

Model	TSV86522M/S	TSV98322M/S
Working Medium	40 Micron Filtered Air	
Motion Pattern	Direct Drive Type	
Effective Sectional Area	18mm <sup>2</sup> (CV=1.00)	
Port Size	G1/4	
Working-pressure Range	0~1.0MPa	
Operating Temperature Range	0~60℃	

**Overall Dimensions**





### 4H Series Hand-pull Valve

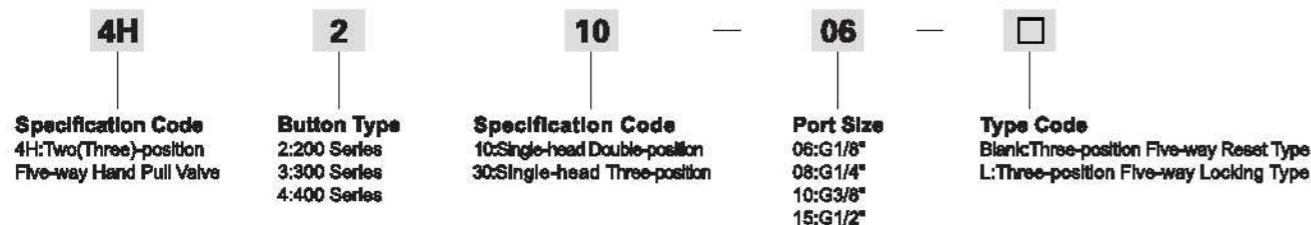


4H330-10



4H210-06

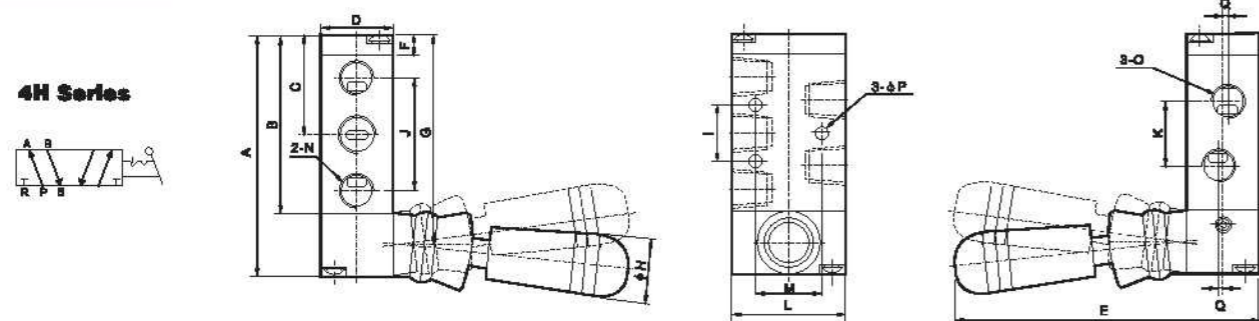
#### Ordering Code



#### Specification

Model	4H210-06	4H210-08	4H230-08	4H310-08	4H310-10	4H330-10	4H410-15	4H430-15
Working Medium	40 Micron Filtered Air							
Motion Pattern	Direct Drive Type							
Effective Section Area	14mm <sup>2</sup> (CV=0.78)	16mm <sup>2</sup> (CV=0.89)	12mm <sup>2</sup> (CV=0.67)	25mm <sup>2</sup> (CV=1.4)	30mm <sup>2</sup> (CV=1.68)	30mm <sup>2</sup> (CV=1.68)	50mm <sup>2</sup> (CV=2.79)	50mm <sup>2</sup> (CV=2.79)
Port Size	Air Inlet=Air Outlet=Exhaust=G1/8"	Air Inlet=Air Outlet=Exhaust=G1/4"		Air Inlet=Air Outlet=Exhaust=G1/4"	Air Inlet=Air Outlet=Exhaust=G1/4"		Air Inlet=Air Outlet=Exhaust=G1/2"	
Working-Pressure Range	0~1.0MPa							
Operating Temperature Range	0~60°C							

#### Overall Dimensions



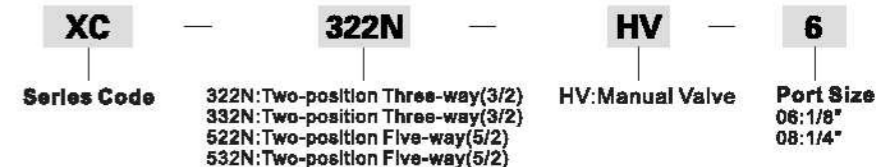
Symbol/Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
4H210-06	76	56.5	31.5	22	95	6.5	66.5	18	20	36	21	35	21	G1/8"	G1/8"	4.3	-
4H230-06	76	56.5	31.5	22	95	6.5	66.5	18	20	36	21	35	21	G1/8"	G1/8"	4.3	-
4H230-06(Automatic Reset)	95	75.5	31.5	22	95	6.5	85.5	18	20	36	21	35	21	G1/8"	G1/8"	4.3	-
4H210-08	76	56.5	31.5	22	95	6.5	66.5	18	20	36	21	35	21	G1/8"	G1/4"	4.3	1.5
4H230-08L	76	56.5	31.5	22	95	6.5	66.5	18	20	36	21	35	21	G1/8"	G1/4"	4.3	1.5
4H230-08(Automatic Reset)	95	75.5	31.5	22	95	6.5	85.5	18	20	36	21	35	21	G1/8"	G1/4"	4.3	1.5
4H310-08	92	72.5	40	27	100	7.5	82.5	18	24	45	24	40	27	G1/4"	G1/4"	4.3	-
4H310-10	92	72.5	40	27	100	7.5	82.5	18	24	45	24	40	27	G1/4"	G3/8"	4.3	2
4H410-15	126	102	55.5	34	100	7.5	114	18	28	63	36	50	35	G1/2"	G1/2"	5.5	-



### XC Series Mechanical Manual Valve



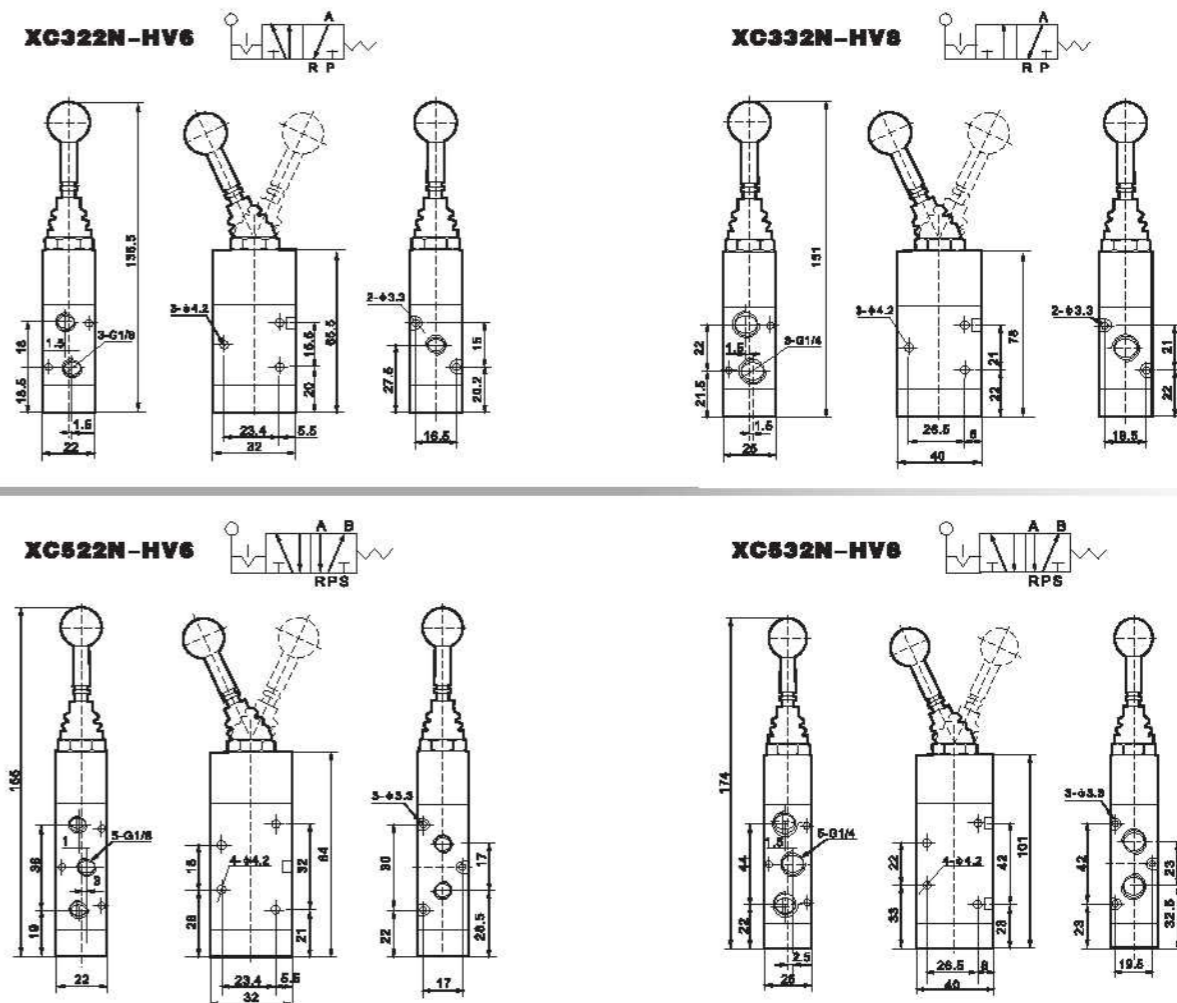
#### Ordering Code



#### Specification

Model	XC322N-HV6	XC332N-HV8	XC522N-HV6	XC532N-HV8
Working Medium	Compresses Air			
Position and Way No.	Two-position Three-way		Two-position Five-way	
Port Size	G1/8"	G1/4"	G1/8"	G1/4"
Working-pressure Range	0~1.0MPa			
Operating Temperature Range	-5~60°C			

#### Overall Dimensions





### XC Series Mechanical Hand-draw Valve



NEW

#### Ordering Code

**XC** — **322N** — **R** — **6** — **S**

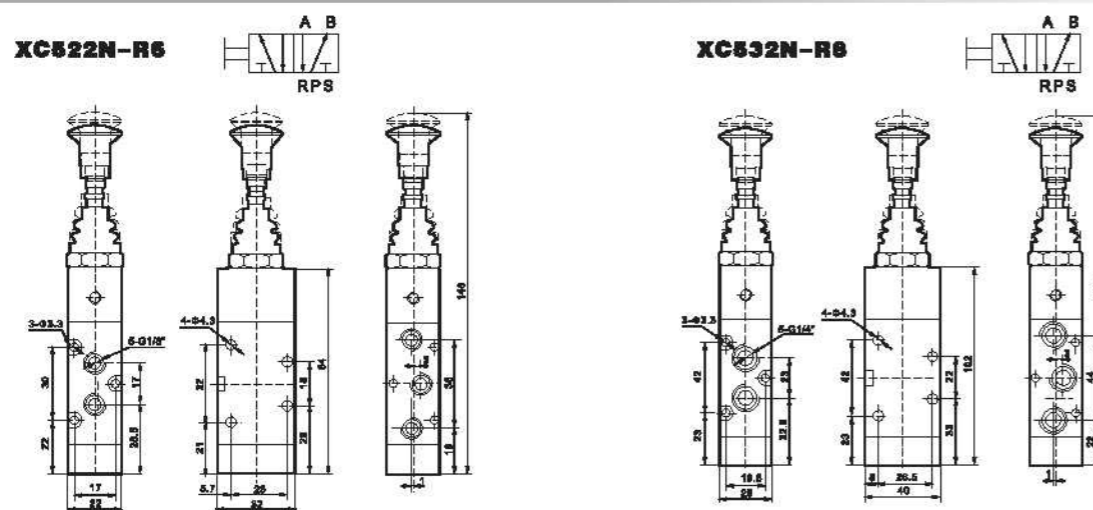
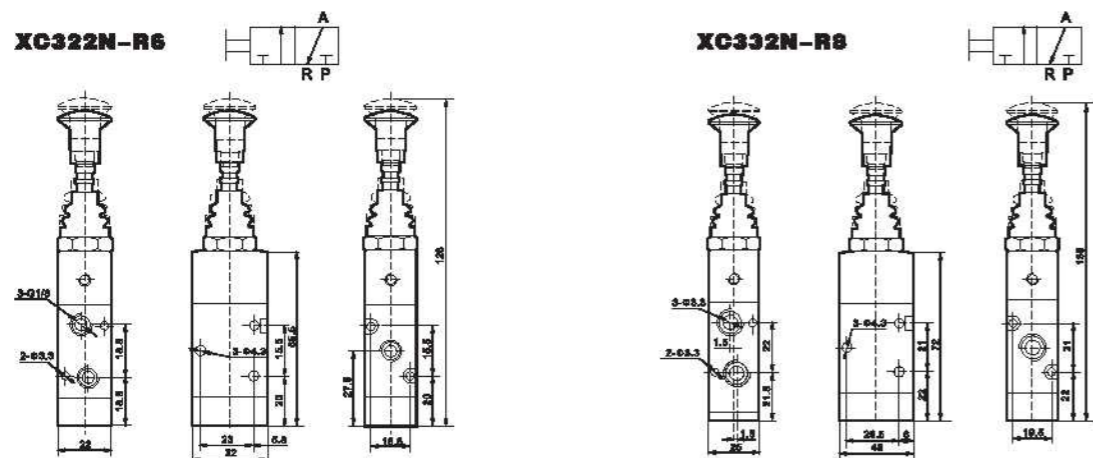
Series Code    322N: Two-position Three-way(3/2)  
 332N: Two-position Three-way(3/2)  
 522N: Two-position Five-way(5/2)  
 532N: Two-position Five-way(5/2)

R: Hand-draw Valve    Port Size    S: Spring Return  
 06: 1/8"    08: 1/4"

#### Specification

Model	XC322N-R6	XC332N-R8	XC322N-R6S	XC332N-R8S	XC522N-R6	XC532N-R8	XC522N-R6S	XC532N-R8S
Working Medium	Compresses Air							
Position and Way NO.	Two-position Three-way				Two-position Five-way			
Port Size	G1/8"							
Working-pressure Range	0~1.0MPa							
Operating Temperature Range	-5~60°C							

#### Overall Dimensions



### XC Series Hand-Pull Valve



NEW

#### Ordering Code

**XC** — **522N** — **H** — **6** — **S**

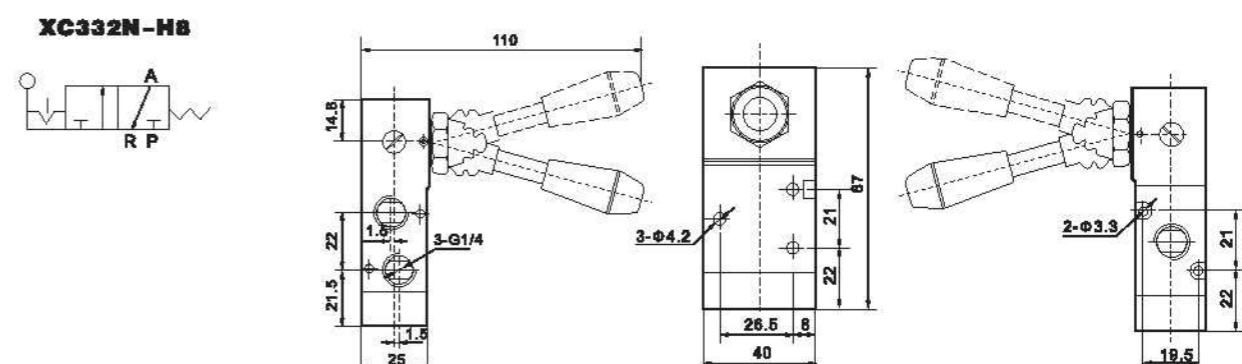
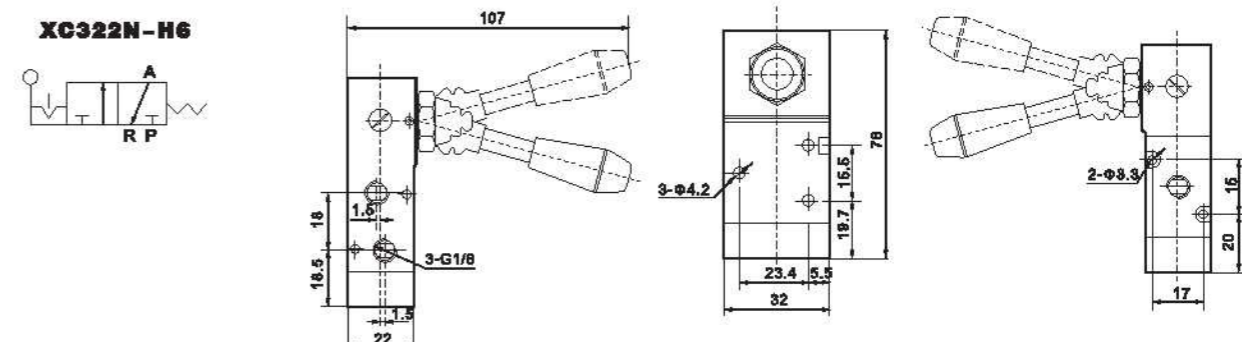
Series Code    322N: Two-position Three-way(3/2)  
 332N: Two-position Three-way(3/2)  
 522N: Two-position Five-way(5/2)  
 532N: Two-position Five-way(5/2)  
 533N: Three-position Five-way(5/3)

H: Hand-pull valve    Port Size    S: Spring return  
 06: 1/8"    08: 1/4"

#### Specification

Model	XC322N-H6	XC322N-H6S	XC332N-H8	XC332N-H8S	XC522N-H6	XC522N-H6S	XC532N-H8	XC532N-H8S
Working Medium	40Micron Filtered Air							
Position and Way NO.	Two-position Three-way				Two-position Five-way			
Operating Method	Direct Drive Type							
Effective Sectional Area	18mm <sup>2</sup> (CV=1.00)							
Port Size	G1/8"		G1/4"		G1/8"		G1/4"	
Working-pressure Range	0~1.0MPa							
Operating Temperature Range	0~60°C							

#### Overall Dimensions

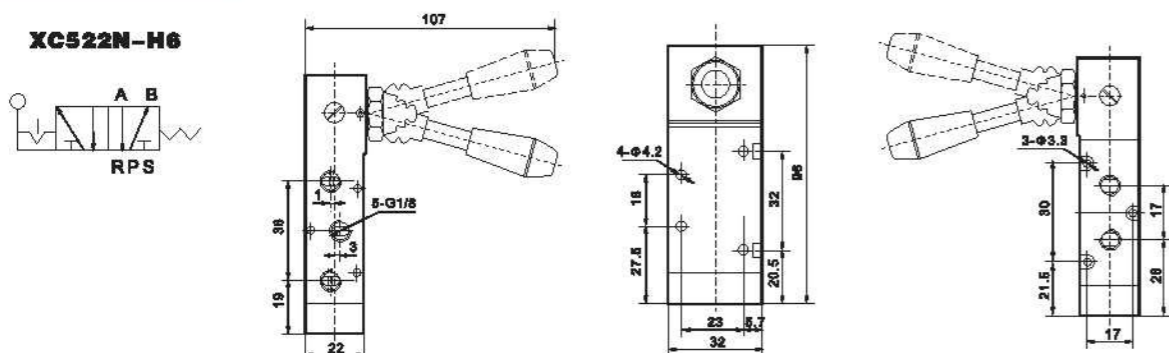




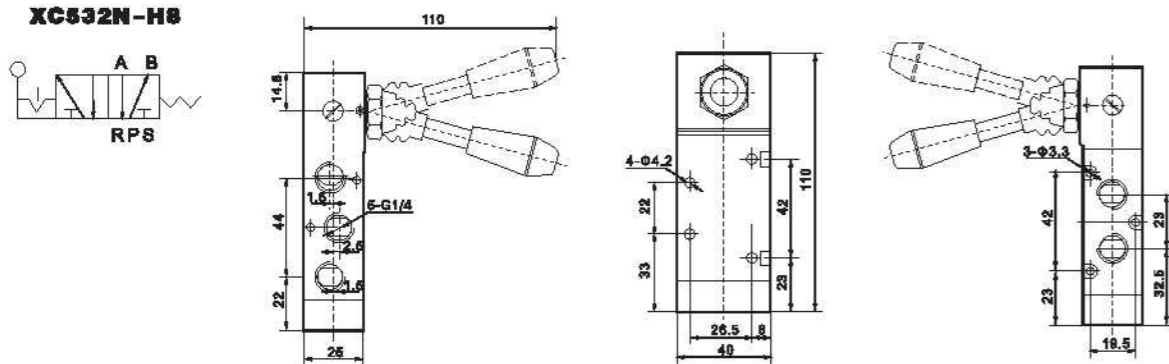
### XC Series Hand-Pull Valve

#### Overall Dimensions

**XC522N-H6**



**XC532N-H8**



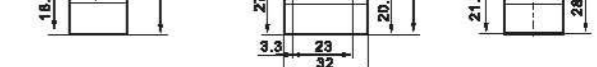
### XC-MV Series Mechanical Valve

#### Overall Dimensions

**XC322N-MVA**



**XC522N-MVA**



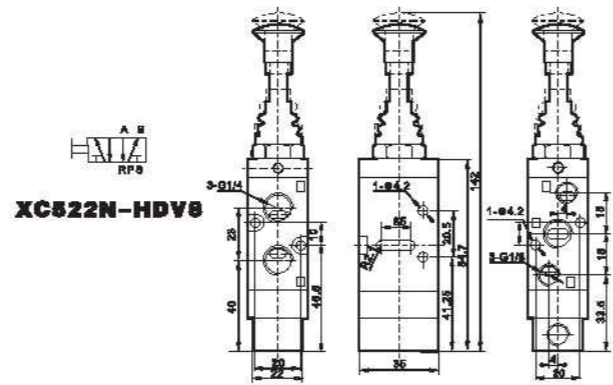
#### Ordering Code

**XC** — **522N** — **HDV** — **8**  
 Series Code 522N: Two-position Five-way (5/2) HDV: Hand-draw Valve Port Size 08: 1/8" 08: 1/4"

#### Specification

Model	XC522N-HDV6	XC522N-HDV8
Working Medium	Compresses Air	
Position and Way number	Two-position Five-way	
Port Size	G1/8"	G1/4"
Working-pressure Range	0~1.0MPa	
Operating Temperature Range	-5~60°C	

#### Overall Dimensions



### XC-MV Series Mechanical Valve

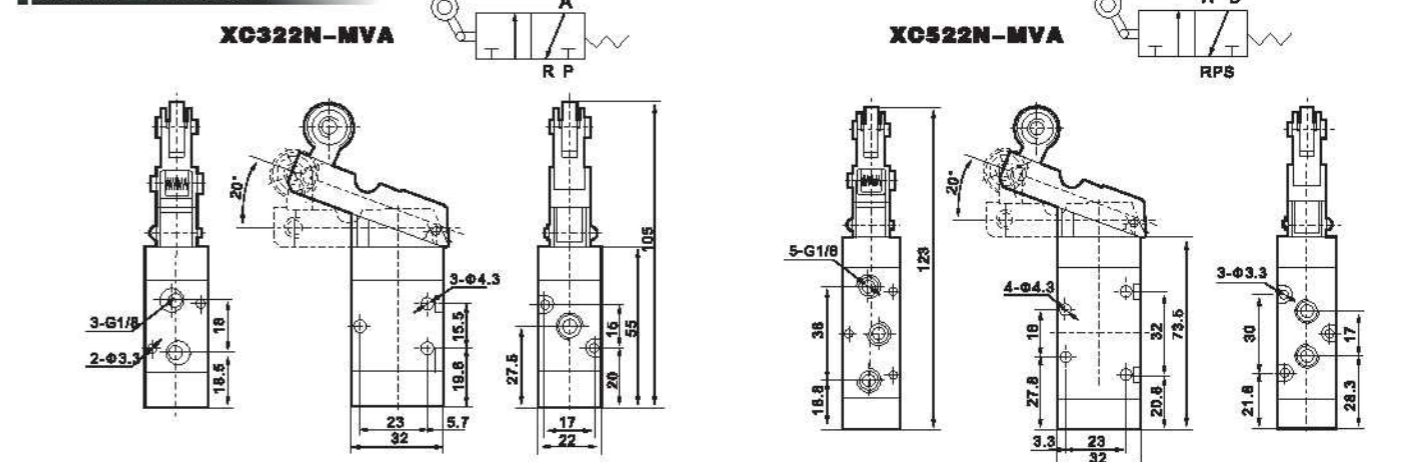
#### Ordering Code

**XC** — **322N** — **MV** — **A**  
 Series Code 322N: Two-position Three-way(3/2) 522N: Two-position Five-way(5/2) MV: Mechanical Valve A: A Type

#### Specification

Model	XC322N-MVA	XC522N-MVA
Working Medium	Compresses Air	
Position and Way No.	Two-position Three-way	Two-position Five-way
Port Size	G1/8"	
Working-pressure Range	0~1.0MPa	
Operating Temperature Range	0~60°C	

#### Overall Dimensions



### XC-MV Series Mechanical Valve

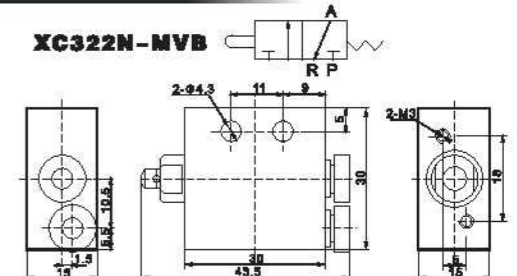
#### Ordering Code

**XC** — **322N** — **MV** — **B**  
 Series Code 322N: Two-position Three-way(3/2) MV: Mechanical Valve B: B Type

#### Specification

Model	XC322N-MVB
Working Medium	Compresses Air
Position and Way number	Two-position Three-way
Port Size	φ4
Working-pressure Range	0~1.0MPa
Operating Temperature Range	0~60°C

#### Overall Dimensions





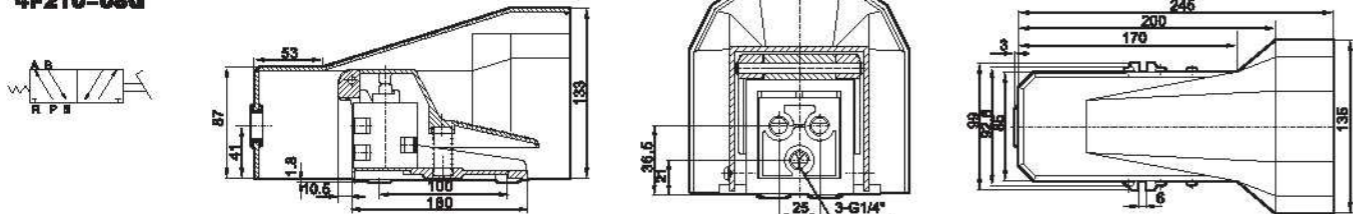




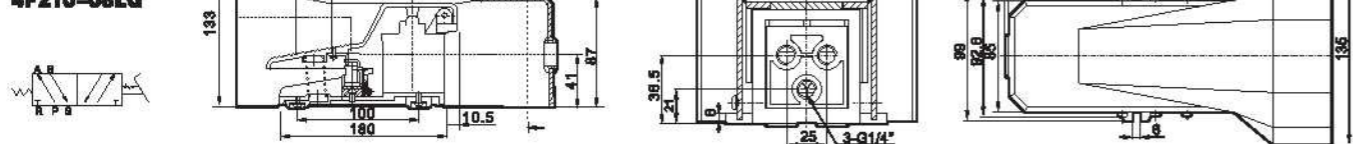
### 4F.FV Series Foot Valve

#### Overall Dimensions

4F210-08Q

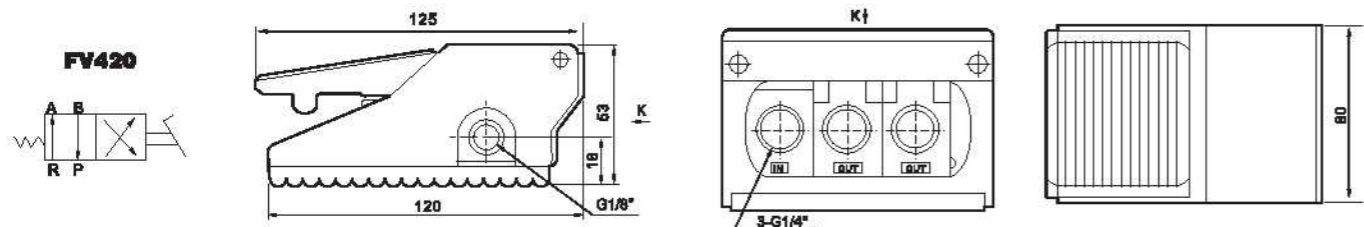


4F210-08LG

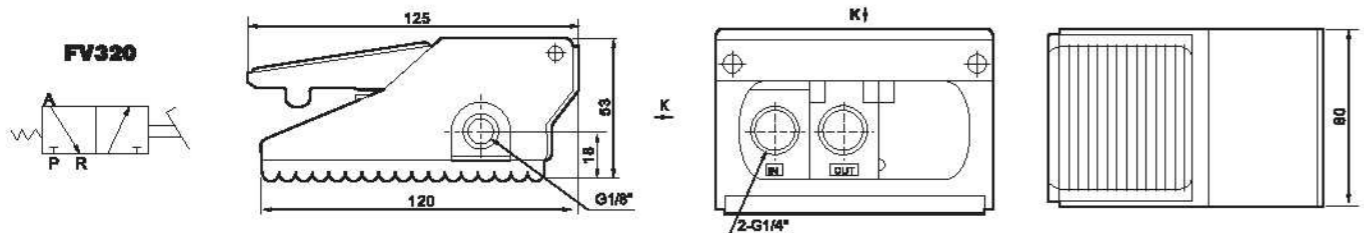


### FV Series Foot Valve

FV420



FV320



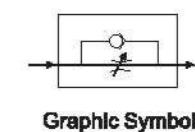
### RE Series Flow Control Valve

#### Ordering Code



**RE**  
Series Code  
RE: Ordinary Type  
Flow Control Valve

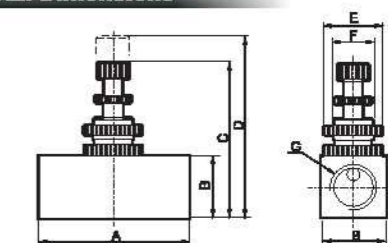
**01**  
Port Size  
01: G1/8"  
02: G1/4"  
03: G3/8"  
04: G1/2"



#### Specification

Model	RE-01	RE-02	RE-03	RE-04
Port Size	G1/8"	G1/4"	G3/8"	G1/2"
Working Medium	Air			
Working-pressure Range	0~0.95MPa			
Operating Temperature Range	0~60°C			

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G
RE-01	45	19	43	50	Φ19	M14×1	G1/8
RE-02	45	19	43	50	Φ19	M14×1	G1/4
RE-03	55	25	55	62	Φ25	M18×1	G3/8
RE-04	55	25	55	62	Φ25	M18×1	G1/2

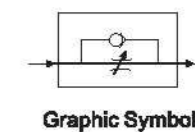
### ASC Series Check Valve

#### Ordering Code



**ASC**  
Series Code  
ASC: Accurate Type  
Flow Control Valve

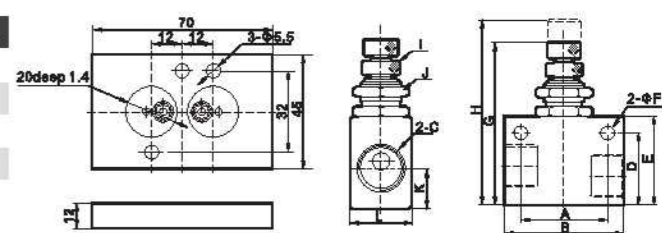
**08**  
Port Size  
06: G1/8"  
08: G1/4"  
10: G3/8"  
15: G1/2"



#### Specification

Model	ASC-06	ASC-08	ASC-10	ASC-15
Port Size	G1/8"	G1/4"	G3/8"	G1/2"
Working Medium	Air			
Working-pressure Range	0~0.95MPa			
Operating Temperature Range	0~60°C			

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L
ASC-06	22	32	G1/8	22	27	4.3	49.7	56.5	M6×0.5	M12×0.75	12	18
ASC-08	26	36	G1/4	22	27	4.3	49.7	56.5	M6×0.5	M12×0.75	12	18
ASC-10	28	40	G3/8	25	30	4.3	52.7	59.5	M6×0.5	M12×0.75	13	22
ASC-15	28	40	G1/2	30	35	4.3	58.7	65.5	M6×0.5	M12×0.75	13.5	26

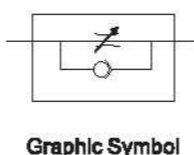


### KLA Series Check Valve



#### Ordering Code

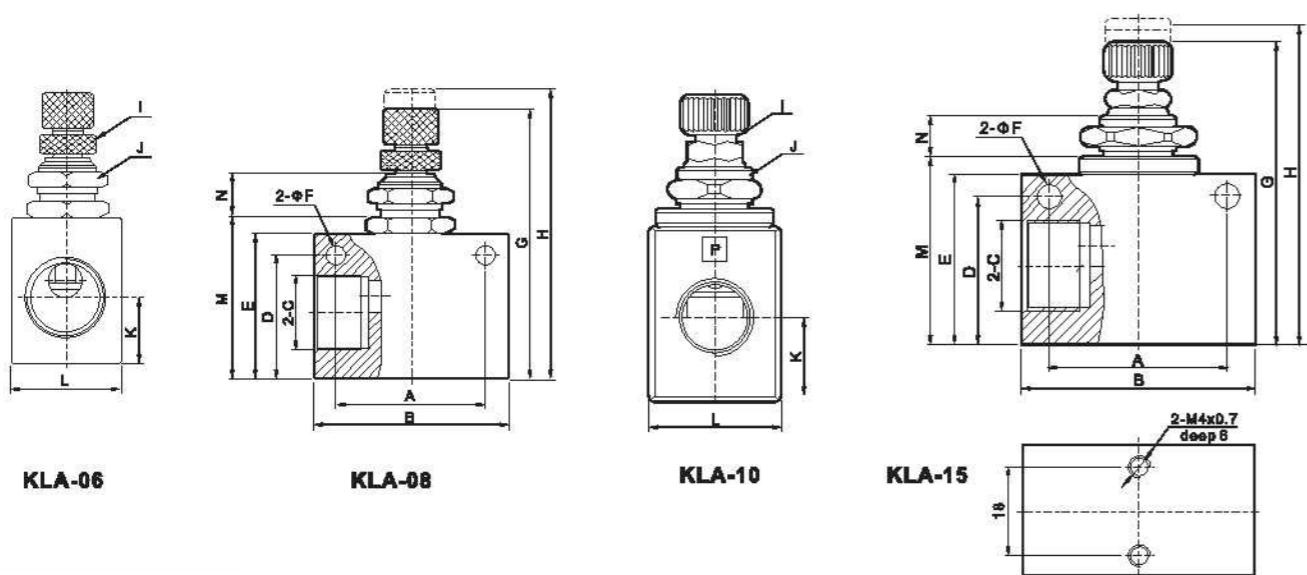
**KLA** — **10**  
 Specification Code  
 KLA: Check Valve  
 Port Size  
 06: G1/8"  
 08: G1/4"  
 10: G3/8"  
 15: G1/2"



#### Specification

Model	KLA-06	KLA-08	KLA-10	KLA-15
Working Medium	Air			
Port Size	G1/8"	G1/4"	G3/8"	G1/2"
Working-pressure Range	0.5~0.95 Kg/cm <sup>2</sup>			
Ensured Pressure Resistance	15.0 Kg/cm <sup>2</sup>			
Operating Temperature Range	-5~60°C			
Body of Material	Aluminum Alloy Ly12			
Standard Rated Flow(L/min)	Check Valve	200	450	1250
	One-way Valve	400	800	1500

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
KLA-06	22	32	PT1/8	18	23	4.3	46.8	52.3	M6×0.5	M12×0.75	10	18	26	8.6
KLA-08	26	36	PT1/4	23	27	4.3	50.8	56.3	M6×0.5	M12×0.75	13.5	18	30	8.6
KLA-10	35	50	G3/8	32	37	5.3	65	74	M8×0.75	M16×1	17.5	28	40.5	10.2
KLA-15	35	50	G1/2	32	37	5.3	65	74	M8×0.75	M16×1	17.5	28	40.5	10.2

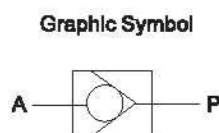


### KA Series Check Valve



#### Ordering Code

**KA** — **L8**  
 Series Code  
 KA: Check Valve  
 Port Size  
 L06: G1/8"  
 L08: G1/4"  
 L10: G3/8"  
 L15: G1/2"  
 L20: G3/4"  
 L25: G1"  
 L32: G1/4"  
 L40: G1-1/2"  
 L50: G2"



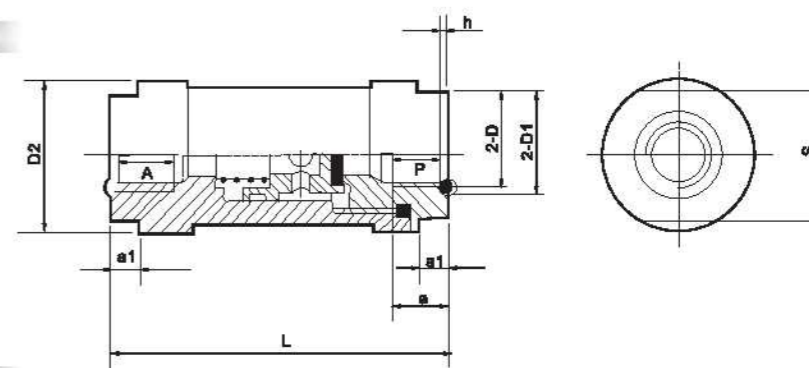
#### Product Explain

The valve is unidirectional control element. When passing the valve, the working medium can only flow along a given direction. In operation, when the medium pressure direction changes, the valve functions to stop the return of the medium in the system. Therefore, the product is also called non-return valve.

#### Specification

Model	KA-L06	KA-L08	KA-L10	KA-L15	KA-L20	KA-L25	KA-L32	KA-L40	KA-L50
Working-pressure	0.05~0.8MPa								
Environment Temperature	-10~+55°C								
Medium Temperature	0~+55°C								
Circulating Ability	10	20	40	60	110	190	300	400	650
Startup Ability	≤0.03MPa								
Leak Out Flow(cm <sup>3</sup> /min)	50	50	120	120	250	250	500	500	500
Respond Time(Sec)	0.03								
Life(Ten Thousand Times)	≥150								

#### Overall Dimensions



#### Dimension Sheet

Model	Joint Pipe Code	D	D1	D2	S	L	a	a1	h
KA-L3	3	M6×1	Φ9	Φ15	12	36	6	5	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-L6	6	G1/8 M10×1	Φ13	Φ28	24	64	10	6	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-L8	8	G1/4 M12×1.5	Φ16	Φ28	24	64	12	6	1.4 <sup>0</sup> <sub>-0.1</sub>
KA-L10	10	G3/8 M16×1.5	Φ20	Φ40	36	86	14	10	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-L15	15	G1/2 M20×1.5	Φ26	Φ40	36	86	14	10	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-L20	20	G3/4 M27×2	Φ32	Φ55	46	112	21	12	1.8 <sup>0</sup> <sub>-0.1</sub>
KA-L25	25	G1 M33×2	Φ40	Φ55	46	112	23	12	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-L32	32	G1 1/4 M42	Φ48	Φ88	75	161	25	22	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-L40	40	G1 1/2 M48×2	Φ54	Φ88	75	161	26	26	2.7 <sup>0</sup> <sub>-0.12</sub>
KA-L50	50	G2 M60×2	Φ70	Φ100	90	95	26	26	4.5 <sup>0</sup> <sub>-0.18</sub>



### KAM Series Check Valve



**Ordering Code**

**KAM** — **15**

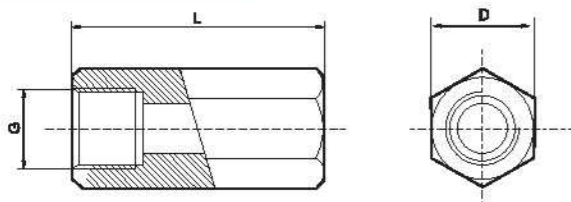
Series Code  
KAM:KAM Series Check Valve

Port Size  
06:G1/8"  
08:G1/4"  
10:G3/8"  
15:G1/2"

**Specification**

Model	KAM-06	KAM-08	KAM-10	KAM-15
Port Size	G1/8"	G1/4"	G3/8"	G1/2"
Flow mm <sup>2</sup> /S	10	20	40	60
Leak Out Flow(cm <sup>3</sup> /min)	≤45	≤60	≤80	≤95
Operation Medium	Compress Air			
Working Temperature Range	-5~60°C			
Working Pressure	0.05~1.2MPa			

**Overall Dimensions**



**Dimension Sheet**

Model	D	G	L
KAM-06	G1/8"	37	14
KAM-08	G1/4"	48	17
KAM-10	G3/8"	50	21
KAM-15	G1/2"	60	24



### AS Series Check Valve



**Ordering Code**

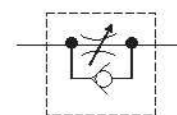
**AS** — **4000** — **02**

Series Code  
AS:Check Valve

Specification Code  
4000

Port Size  
02:G1/4"  
03:G3/8"  
04:G1/2"

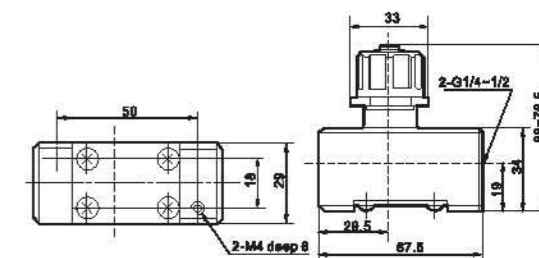
**Graphic Symbol**



**Specification**

Model	AS4000-02	AS4000-03	AS4000-04
Port Size	G1/4"	G3/8"	G1/2"
Free Flow Flow(L/min)	1670		
Free Flow Effective Sectional Area(mm <sup>2</sup> )	25.5		
Controlled Flow Flow(L/min)	1670		
Controlled Flow Effective Sectional Area(mm <sup>2</sup> )	25.5		
Ensured Pressure Resistance	1.5MPa		
Highest Working Pressure	1.0MPa		
Lowest Working Pressure	0.05MPa		
Ambient and Media Temperature	5~60°C		
Regulated Flow Turnsq	8~9		

**Overall Dimensions**



AS4000

Note\*:Input pressure is 0.5MPa.  
Note\*:8 turns for AS4000

### QE Series Quick Exhaust Valve



The valve is generally installed on the pipeline between the cylinder and reversal valve and near the cylinder, which directly discharge the air from cylinder without passing the reversal valve and thus to achieve the goal of fast reversion of cylinder.The effect on improving cylinder speed is especially obvious.  
P: Connect reversal valve export  
A: Connect cylinder  
R: Connect muffler

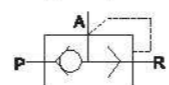
**Ordering Code**

**XQ** — **170800**

Series Code  
XQ:Quick Exhaust Valve

Port Size  
170600:G1/8"  
170800:G1/4"  
171000:G3/8"  
171500:G1/2"

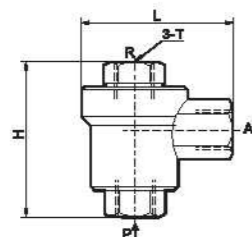
**Graphic Symbol**



**Specification**

Model	XQ170600	XQ170800	XQ171000	XQ171500
Joint Threaded	G1/8"	G1/4"	G3/8"	G1/2"
Port Size	6mm	6mm	8mm	15mm
Flow	≥0.9m <sup>3</sup> /min	≥0.9m <sup>3</sup> /min	≥2.5m <sup>3</sup> /min	≥4.5m <sup>3</sup> /min
Timerate(Ten Thousand Times)	≤200			
Working Pressure Range	0.12~1.0MPa			
Exchange Times(S)	≤0.03	≤0.03	≤0.04	≤0.05

**Overall Dimensions**



**Dimension Sheet**

Model	T	H	L
XQ170600	G1/8"	39	32
XQ170800	G1/4"	51	45
XQ171000	G3/8"	68	62
XQ171500	G1/2"	77	88

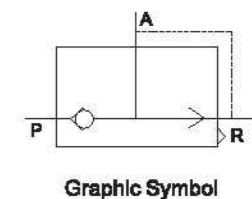


**Ordering Code**

**QE** — **01**

Series Code  
QE:Quick Exhaust Valve

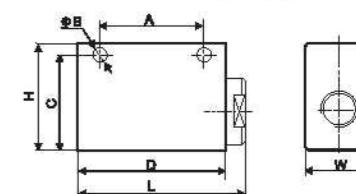
Port Size  
01:G1/8"  
02:G1/4"  
03:G3/8"  
04:G1/2"  
06:G3/4"



**Specification**

Model	QE-01	QE-02	QE-03	QE-04	QE-06
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"
Effective Sectional Area	16mm <sup>2</sup>	27.5mm <sup>2</sup>	38mm <sup>2</sup>	71mm <sup>2</sup>	72.5mm <sup>2</sup>
Working Medium	Air				
Working Pressure Range	0~1.0MPa				
Operating Temperature Range	0~60°C				

**Overall Dimensions**



**Dimension Sheet**

Model	Bore	L	W	H	A	B	C	D
QE-01	G1/8"	46	20	32	30	4.3	27	40
QE-02	G1/4"	62	25	40	39	5.8	33.5	55
QE-03	G3/8"	62	25	40	39	5.8	33.5	55
QE-04	G1/2"	98	38	64	60	8.5	51	90
QE-06	G3/4"	98	38	64	60	8.5	51	90



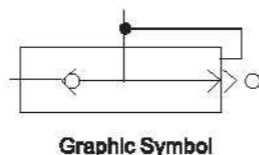
### XKP Series Quick Exhaust Valve

#### Ordering Code



**XKP**  
Series Code  
XKP:Quick Exhaust Valve

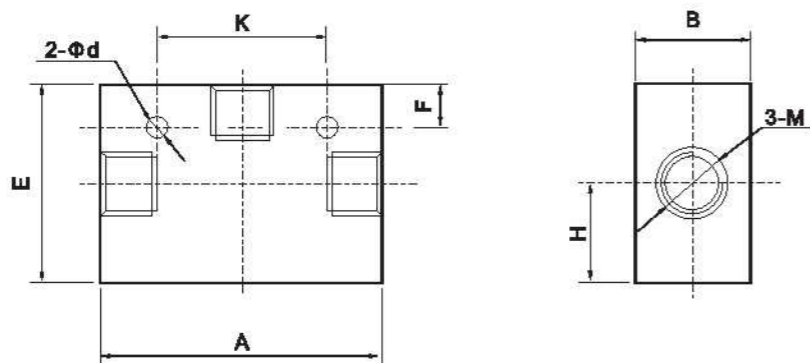
**L15**  
Port Size  
L6:G1/8"  
L8:G1/4"  
L10:G3/8"  
L15:G1/2"  
L20:G3/4"  
L25:G1"  
L32:G1-1/4"  
L40:G1-1/2"  
L50:G2"



#### Specification

Model	XKP-L6	XKP-L8	XKP-L10	XKP-L15	XKP-L20	XKP-L25	XKP-L32	XKP-L40	XKP-L50
Section Area	P→A: 10 A→□: 20	20 40	40 60	60 110	110 190	190 300	300 400	400 650	650 900
Leak Out Flow(cm³/min)	≤10		≤25		≤50		≤70		
Working Medium	Compress Air								
Operating Temperature Range	-5~60°C								
Working-pressure	0.05~1.2MPa								

#### Overall Dimensions



#### Dimension Sheet

Model	M	A	K	B	E	H	F	d
XKP-L6	G1/8							
XKP-L8	G1/4	75	-	36	41	10	-	-
XKP-L10	G3/8							
XKP-L15	G1/2	82	58	44	60	23	8	7
XKP-L20	G3/4	128	98	72	95	36	8	10
XKP-L25	G1							
XKP-L32	G1-1/4	158	126	88	112	44	10	10
XKP-L40	G1-1/2							
XKP-L50	G2	190	148	102	130	52	10	12



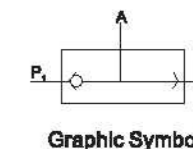
### ST Series Shuttle Valve

#### Ordering Code



**ST**  
Series Code  
ST:Shuttle Valve

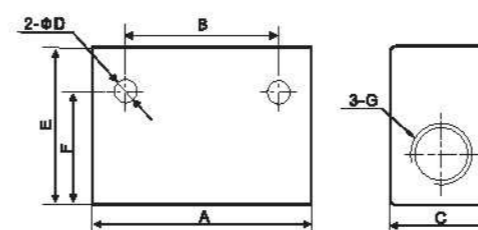
**01**  
Port Size  
01:G1/8"  
02:G1/4"  
03:G3/8"  
04:G1/2"  
06:G3/4"  
08:G1"



#### Specification

Model	ST-01	ST-02	ST-03	ST-04	ST-06	ST-08
Working Medium	Air					
Effective Sectional Area	7.5mm²	21mm²	40mm²	60mm²	110mm²	190mm²
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"
Working Pressure Range	0~1.0MPa					
Operating Temperature Range	-5~60°C					

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	E	F	G
ST-01	40	24	16	4.5	25	20.5	G1/8"
ST-02	50	35	22	5.5	35	25	G1/4"
ST-03	75	48	30	7	50	42	G3/8"
ST-04	75	48	30	7	50	42	G1/2"
ST-06	110	72	40	7	70	58	G3/4"
ST-08	110	72	40	7	70	58	G1"

### CV Series Vacuum Valve

#### Ordering Code



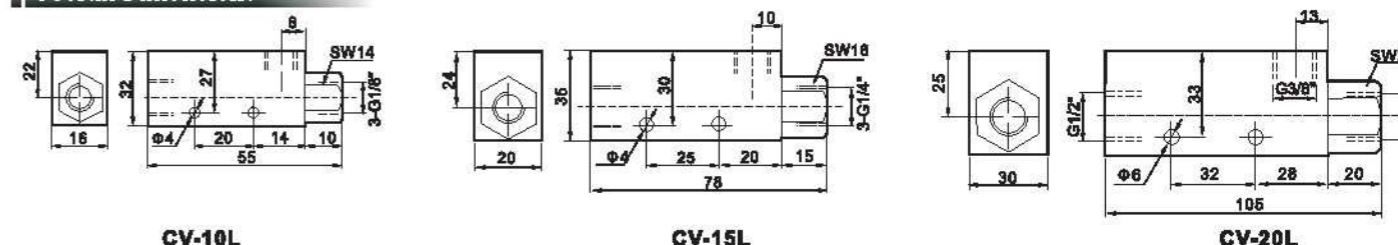
**CV**  
Series Code  
CV:Vacuum Valve

**15L**  
Port Size  
10L:G1/8"  
15L:G1/4"  
20L:G3/8"

#### Specification

Model	CV-10L	CV-15L	CV-20L
Working Medium	Air		
Working pressure	1.0MPa		
Shortest Excitation Time	0.05 Second		
Leakage Volume	≤10cm³/min		

#### Overall Dimensions



CV-10L

CV-15L

CV-20L



## 2 Position 2 Way Solenoid Valves

This kind of valve widely used in wide different industry, you can find the valve with different material like brass, stainless steel, engineering plastic, and they are used for pressure range from 0 to 50 bar, temperature from -10° to 180°. If there is no current models with your meet, please contact us, we are available to provide specialized valves according to your requirement.



## HSV Hand Sliding Valve

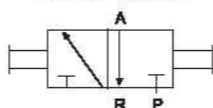
### Ordering Code

HSV — 03

Specification Code  
HSV: Hand Sliding Valve

Port Size  
01: G1/8"  
02: G1/4"  
03: G3/8"  
04: G1/2"  
06: G3/4"

Graphic Symbol

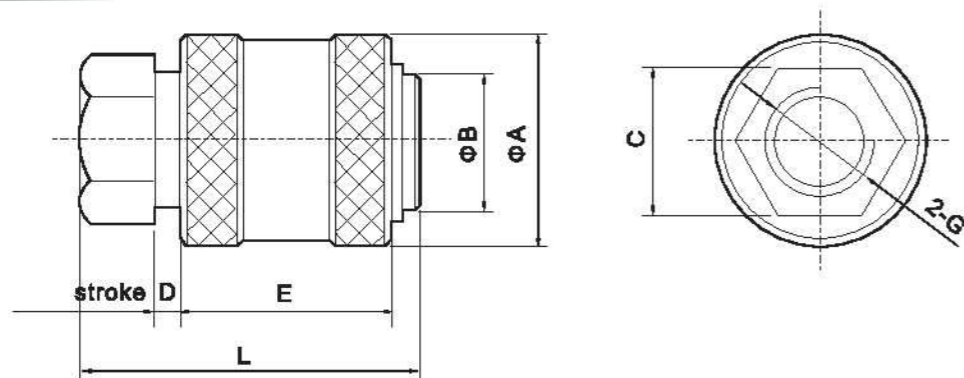


This valve is a two-position three-way hand sliding valve, which is usually installed in the piping to turn on/off air. When it is turned off, the air pressure in the pneumatic system is exhausted simultaneously.

### Specification

Model	HSV-01	HSV-02	HSV-03	HSV-04	HSV-06
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"
Flow Bore	4mm	7mm	10mm	12mm	16mm
Working Medium	Filtered Air				
Working-pressure	0-1.0MPa				
Ambient Temperature Range	5-60°C				
Working Force	20N			30N	

### Overall Dimensions



### Dimension Sheet

Model	A	B	C	D	E	L	G
HSV-01	20	13	14	3	20	32	G1/8
HSV-02	27	18	19	5	32	48	G1/4
HSV-03	30	21	22	5	32	48	G3/8
HSV-04	38	24	27	10	40	70	G1/2
HSV-06	45	32	34	10	45	75	G3/4



## General Information About Solenoid Valve

### Inner structure and categories of two way solenoid valves

#### Direct acting solenoid valves

Including normal close style (N.C.) and normal open style(N.O.). The N.C. style solenoid valve stay close at power off condition. When power on, the coil yields electricity-magnetic force, which exceed the spring force and hence pulls active armature approaching to static armature, the valve becomes open; when power off, the electricity-magnetic force disappear and the active armature go back to its original place by the spring force, the valve close. The N.O. style is just opposite. These valve are normally simple structure, dependable action, fast response, high, frequency and with  $\leq 6\text{mm}$  small orifice size(N.O. style  $\leq 4\text{mm}$ ).

#### Diaphragm pilot solenoid valves

This style valve makes main valve and pilot valve together, when power on, the coil yields electricity-magnetic force pulls active armature approaching to static armature, the pilot valve open and control the main valve to open; when power off, the electricity-magnetic force disappear and with the gravity and spring force, the active armature close the pilot valve, which control the main valve to close. The N.O. style is just opposite. These valve are normally with bigger orifice size and  $\leq 10\text{Bar}$  working pressure and with zero differential working pressure.

#### Piston pilot solenoid valves

Similar with piston pilot solenoid valves, but supports for higher pressure and temperature, with  $\geq 1\text{ Bar}$  differential working pressure.

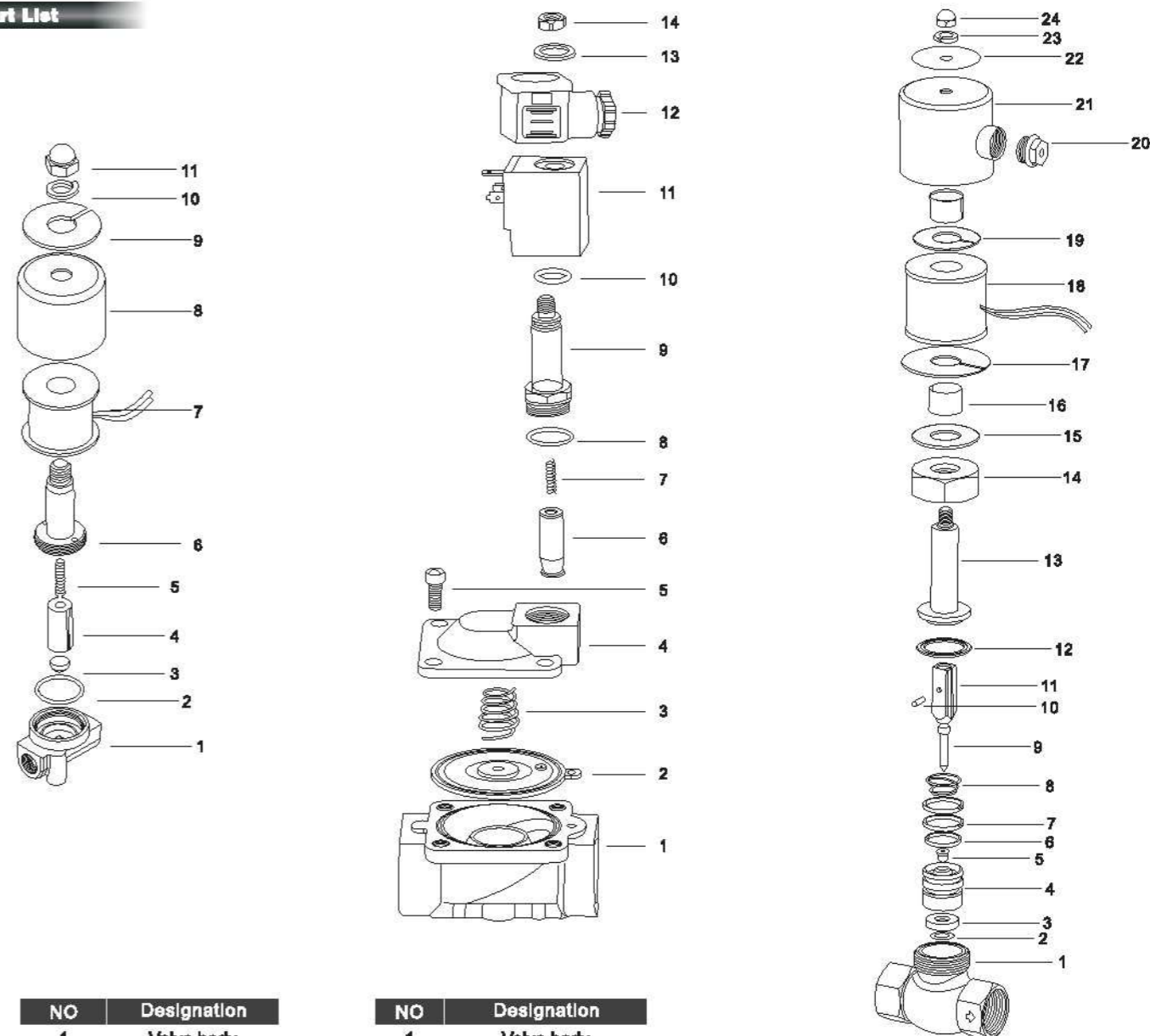
### Seal Features

Medium	Material Applicability	Material						
		NBR	HNBR	EPDM	VMQ	FKM	PTFE	PU
Highest working temperature		80℃	120℃	120℃	180℃	120℃	200℃	80℃
Lowest working temperature		-5℃	-10℃	-20℃	-40℃	-20℃	-50℃	-20℃
Anti-burning		x	x	x	△	⊙	⊙	△
Steam		x	△	⊙	○	△	○	x
Oil		⊙	⊙	x	△	⊙	⊙	⊙
O <sub>3</sub>		△	⊙	⊙	⊙	⊙	⊙	⊙
Chemical		△	○	⊙	⊙	⊙	⊙	⊙
Acid		△	○	⊙	△	⊙	⊙	x
Alkallty		○	⊙	⊙	△	⊙	⊙	x
Water		○	○	⊙	○	○	⊙	⊙
Wearing		○	⊙	○	x	○	⊙	⊙
Anti distortion		○	○	○	⊙	○	x	x
Tension		⊙	⊙	⊙	x	○	x	⊙

Description of the symbol: ⊙ Very good ○ Good △ Normal level × Not OK

## General Information About Solenoid Valve

### Part List



NO	Designation
1	Valve body
2	O-ring
3	Seal pad
4	Pilot
5	Spring
6	Armature
7	Coil
8	Steel washer
9	Washer
10	Spring washer
11	Nut

NO	Designation
1	Valve body
2	Diaphragm
3	Diaphragm spring
4	Valve cover
5	Hexagon screw
6	Pilot units
7	Plunger Spring
8	O-ring
9	Plunger tube assembly
10	O-ring
11	Coil
12	Connector
13	Gasket
14	Lock Nut

NO	Designation	NO	Designation
1	Valve body	13	Static armature
2	Washer	14	Nut
3	Seal pad	15	Gasket
4	Valve core	16	Bushing
5	Seal	17	Steel plate
6	Gasket	18	Coil
7	Guide ring	19	Steel plate
8	Spring	20	Nut
9	Valve needle	21	Steel cover
10	Pin	22	Min plate
11	Armature	23	Spring washer
12	Seal ring	24	Nut

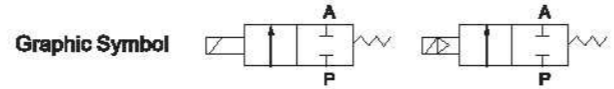


### 2V Series 2/2 Solenoid Valve

#### Ordering Code



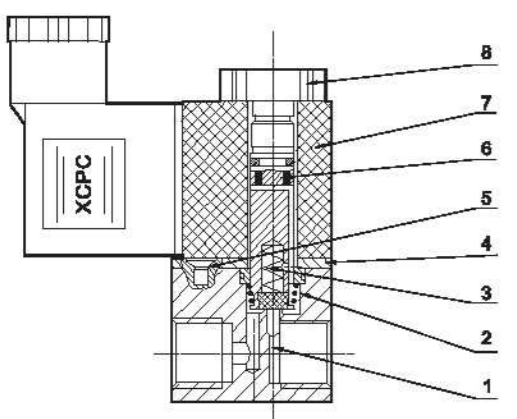
<b>2V</b>	<b>025</b>	<b>06</b>	<b>AC110V</b>	<b>V</b>
<b>Specification Code</b> 2V:Two-positionTwo-way Solenoid Valve	<b>Aperture of Flow Rate</b> 025:2.5mm 130:13mm 250:25mm	<b>Port Size</b> 06:G1/8" 08:G1/4" 10:G3/8" 15:G1/2" 20:G3/4" 25:G1"	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Oil Seal Code</b> Blank:NBR V:VITON(For High temperature)



#### Specification

Model	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Working Medium	Air,Water,Oil					
Motion Pattern	Direct Drive Type			Guide Type		
Type	Normal Close Type					
Aperture of Flow Rate(mm)	2.5		13		25	
CV Value	0.23		6.2		23	
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"
Operation Fluid Viscosity	20 CST (Below)					
Working-pressure	Air,Water,Oil 0~0.8MPa			Air,Water,Oil 0.05~0.7MPa		
Max. Pressure Resistance	12kgf/cm <sup>2</sup>			10.5kgf/cm <sup>2</sup>		
Operating Temperature Range	-10~+80℃					
Voltage Range	±10%					
Protect Class	IP65					
Power Consumption	AC:7VA860Hz PC:6W					
Insulation	F Class					
Material of Body	Aluminum or Brass			Brass		
Material of Oil Seal	NBR or VITON			NBR or VITON		
Shortest Excitation Time	0.05 Second					

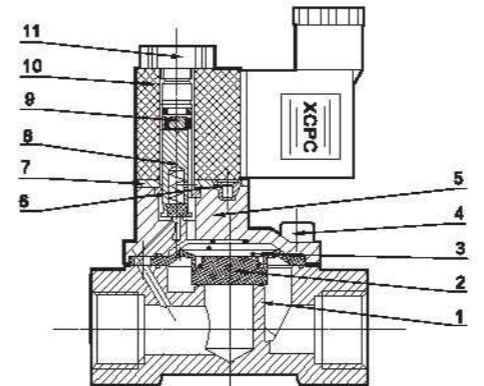
#### Internal structure



NO	Name
1	Body Of Valve
2	Spring
3	Assembly Of Iron Core
4	Assembly Of Iron Core
5	Cruciform Slot Screw
6	Platen
7	Coil
8	Nut

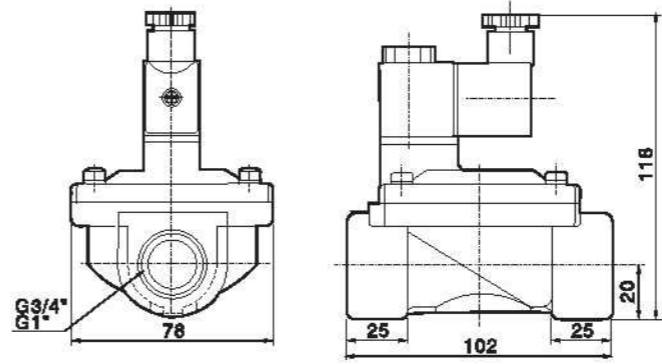
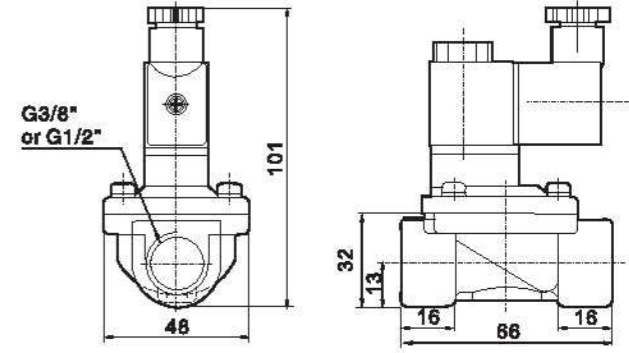
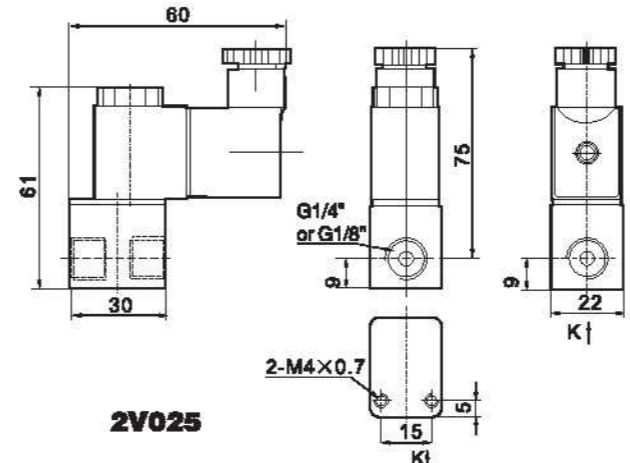
### 2V Series 2/2 Solenoid Valve

#### Internal structure



NO	Name
1	Body Of Valve
2	Diaphragm
3	Spring
4	Socket Hexagon Screws
5	Cover board
6	Cruciform Slot Screw
7	Platen
8	Assembly Of Iron Core
9	Assembly Of Iron Core
10	Coil
11	Nut

#### Overall Dimensions



E

E



**2P Series 2/2 Solenoid Valve (Plastic Steel Type)**

**2W(UD) Series 2/2 Direct Drive Type Solenoid Valve (Small Aperture)**



**Ordering Code**

**2P** — **025** — **06** — **AC110V** — **□**

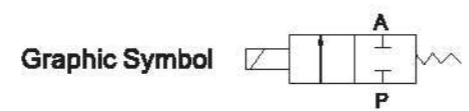
**Specification Code**  
2P: Two-position Two-way Solenoid Valve (Reinforced plastic steel type)

**Aperture of Flow Rate**  
025: 2.5mm

**Port Size**  
06: G1/8"  
08: G1/4"

**Standard Voltage**  
DC12V DC24V  
AC24V 50Hz/60Hz  
AC110V 50Hz/60Hz  
AC220V 50Hz/60Hz  
AC380V 50Hz/60Hz

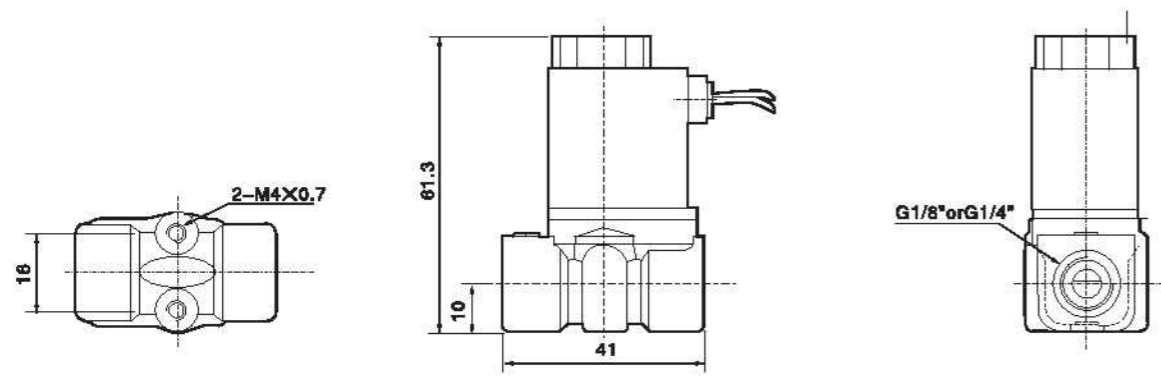
**Wiring Form**  
Blank: Lead wire Type  
D: Join Connector



**Specification**

Model	2P025-06	2P025-08
Working Medium	Air, Water, Oil, Gas	
Motion Pattern	Direct Drive Type	
Type	Normal Close Type	
Aperture of Flow Rate (mm)	2.5	
CV Value	0.23	
Port Size	G1/8"	G1/4"
Operation Fluid Viscosity	20 CST (Below)	
Working-pressure	0~0.7MPa	
Max. Pressure Resistance	1.0MPa	
Operating Temperature Range	-5~+80°C	
Voltage Range	±10%	
Material of Body	Engineering Plastic Steel	
Material of Oil Seal	NBR EPDM or VITON	

**Overall Dimensions**



**Ordering Code**

**2W** — **025** — **08** — **F** — **AC110V** — **□**

**Specification Code**  
2W: Two-position Two-way solenoid valve direct drive type  
2WH: Two-position Two-way solenoid valve (High pressure direct drive Type)

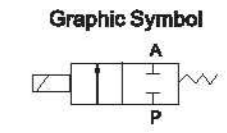
**Aperture of Flow Rate**  
012: 1.2mm  
020: 2.0mm  
025: 2.5mm  
040: 4.0mm

**Port Size**  
08: G1/8"  
08: G1/4"  
10: G3/8"

**Initial Estate**  
Blank: Pipe Joint type  
F: Flange Type

**Standard Voltage**  
DC12V DC24V  
AC24V 50Hz/60Hz  
AC36V 50Hz/60Hz  
AC110V 50Hz/60Hz  
AC220V 50Hz/60Hz  
AC380V 50Hz/60Hz

**Wiring Form**  
Blank: Lead Wire Type  
D: Join Connector  
E: Blast-proof Coil  
G: Water-proof Coil



**Specification**

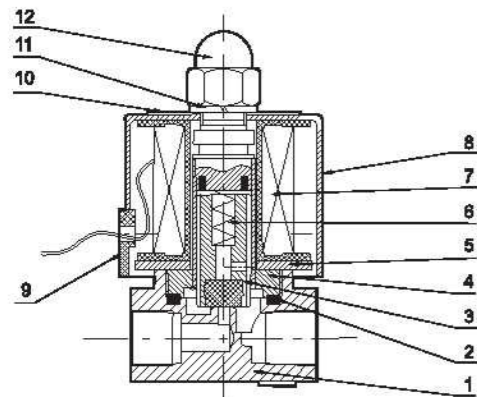
Model	2W025-06	2W025-08	2W040-10	2WH012-06	2WH012-08	2WH020-10
Working Medium	Air, Water, Oil, Gas			Air, Water, Oil, Gas		
Motion Pattern	Direct Drive Type					
Type	Normal Close Type					
Aperture of Flow Rate (mm)	2.5		4	1.2		2
CV Value	0.23		0.60	0.05		0.15
Port Size	G1/8"	G1/4"	G3/8"	G1/8"	G1/4"	G3/8"
Operation Fluid Viscosity	20 CST (Below)					
Working-pressure	Air, Water, Oil, Gas: 0~0.7MPa			Air, Water, Oil: 0~2.0MPa		
Max. Pressure Resistance	1.0			3.5		
Operating Temperature Range	-5~+80°C					
Voltage Range	±10%					
Material of Body	Brass					
Material of Oil Seal	NBR EPDM or VITON					





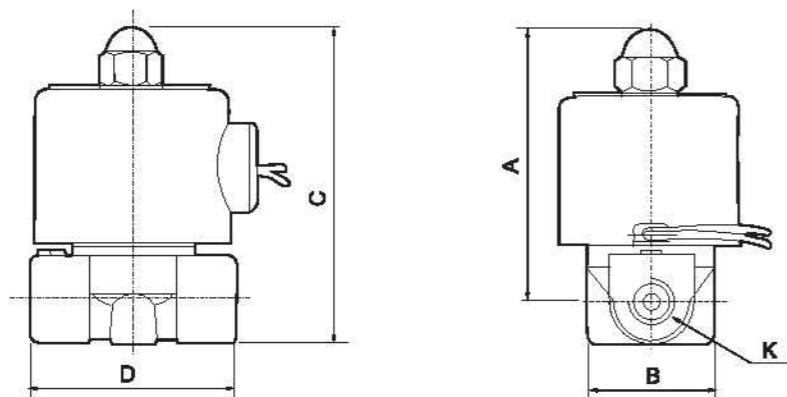
**2W(UD) Aperture 2/2 Direct Drive Type Solenoid Valve(Small Aperture)**

**Internal structure**



NO	Name
1	Body Of Valve
2	O-ring
3	Assembly Of Iron Core
4	Assembly Of Iron Core
5	Magnetic Plate
6	Spring
7	Assembly Of Coil
8	Iron Cover
9	Cord-locks
10	Name Plate
11	Gasket
12	Head Cover Nut

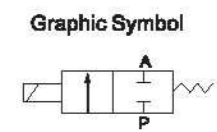
**Overall Dimensions**



**Dimension Sheet**

Symbol/Model	A	B	C	D	K(PT)
2W25-06	66	30.3	75	41.5	G1/8"
2W25-08	66	30.3	75	41.5	G1/4"
2W25-10	74	32.2	85.5	53	G3/8"
2WH12-06	66	30.3	75	40.5	G1/8"
2WH12-08	66	30.3	75	40.5	G1/4"
2WH12-10	74	32.3	85.5	53	G3/8"

**2W(UW) Series 2/2 Direct Drive Type Solenoid Valve(Large Aperture)**



**Ordering Code**

<b>2W</b>	<b>160</b>	<b>15</b>	<b>F</b>	<b>AC110V</b>	<input type="checkbox"/>
<b>Specification Code</b> 2W:Two-position two-way solenoid valve (direct drive type)	<b>Aperture of Flow Rate</b> 160:16mm 200:20mm 250:25mm 350:35mm 400:40mm 500:50mm	<b>Port Size</b> 10:G3/8" 15:G1/2" 20:G3/4" 25:G1" 35:G1 1/4" 40:G1 1/2" 50:G2"	<b>Initial Estate</b> Blank:Pipe Joint type F: Flange Type	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC36V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Lead wire Type D: Join Connector

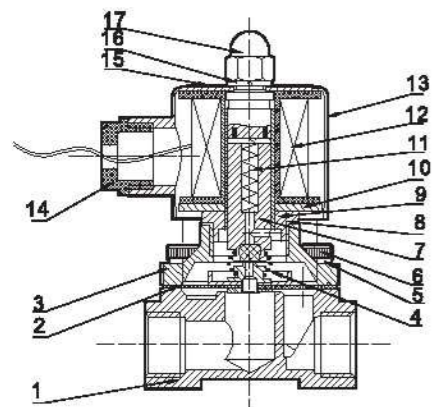
**Specification**

Model	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
Working Medium	Air,Water,Oil,gas						
Motion Pattern	Direct Drive Type						
Type	Normal Close Type / Normal Open Type						
Aperture of Flow Rate(mm)	16	20	25	35	40	50	
CV Value	4.8	7.6	12	24	29	48	
Port Size	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"	G2"
Operation Fluid Viscosity	20 CST (Below)						
Working-pressure	Air:0~0.7MPa Water:0~0.5MPa Oil:0~0.5MPa Gas: 0~7MPa						
Max. Pressure Resistance	1.0MPa						
Operating Temperature Range	-5~+80℃						
Voltage Range	±10%						
Material of Body	Brass						
Material of Oil Seal	NBR EPDM or VITON						



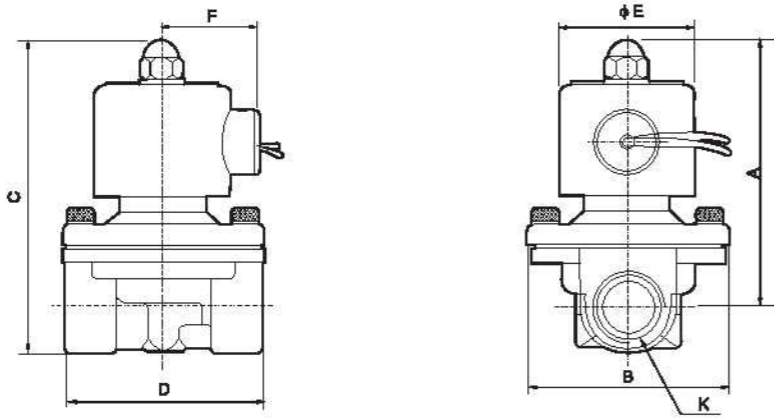
### 2W(UW) Series 2/2 Direct Drive Type Solenoid Valve(Large Aperture)

#### Internal structure



NO	Name	NO	Name
1	Body Of Valve	10	Magnetic Plate
2	Assembly Of Diaphragm	11	Spring
3	Valve Cover	12	Assembly Of Coil
4	Pull Spring	13	Iron Cover
5	Gasket	14	Cord-locks
6	Socket Hexagon Screws	15	Name Plate
7	Assembly Of Iron Core	16	Gasket
8	Seal Gasket	17	Head Cover Nut
9	Assembly Of Iron Core		

#### Overall Dimensions

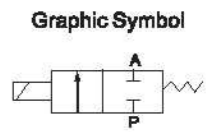


2W(Large Aperture)

#### Dimension Sheet

Symbol/Model	A	B	C	D	E	F	K
2W160-10	101.5	57	117	67	50	36	G3/8"
2W160-15	101.5	57	117	67	50	36	G1/2"
2W200-20	107	57	123.5	72	50	36	G3/4"
2W250-25	111.5	73.5	134.5	92	50	36	G1"
2W350-35	142	95	172	125	70.5	56	G1 1/4"
2W400-40	142	95	172	125	70.5	56	G1 1/2"
2W500-50	172	123	209	168	70.5	56	G2"

### 2S Series Solenoid Valve



#### Ordering Code

2S	030	08	F	AC110V	□
<b>Specification Code</b> 2S:Two-position two-way solenoid valve (direct drive type)	<b>Aperture of Flow Rate</b> 030:3.0mm 040:4.0mm 160:16mm 200:20mm 250:25mm 350:35mm 400:40mm 500:50mm	<b>Port Size</b> 08:G1/4" 10:G3/8" 15:G1/2" 20:G3/4" 25:G1" 35:G1 1/4" 40:G1 1/2" 50:G2"	<b>Initial Estate</b> Blank:Pipe Joint type F: Flange Type	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC36V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Lead Wire Type D : Join Connector E : Blast-proof Coil G : Water-proof Coil

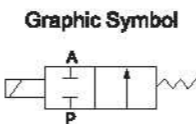
#### Specification

Model	2S030-06(08)	2S050-10	2S160-10(15)	2S200-20	2S250-25	2S350-35(40)	2S500-50
<b>Working Medium</b>	Air,Water,Oil,Gas						
<b>Motion Pattern</b>	Direct Drive Type						
<b>Type</b>	Normal Close Type						
<b>Aperture of Flow Rate(mm)</b>	2.5	5	16	20	35	40	50
<b>CV Value</b>	0.23	0.60	4.8	7.6	24	29	48
<b>Port Size</b>	G3/8" G1/4"	G3/8"	G3/8" G1/2"	G3/4"	G1"	G1 1/4" G1 1/2"	G2"
<b>Operation Fluid Viscosity</b>	20 CST (Below)						
<b>Working-pressure</b>	Air:0~0.7MPa		Water:0~0.5MPa Air:0~0.7MPa Oil:0~0.5MPa Gas: 0~0.7MPa				
<b>Max. Pressure Resistance</b>	1.05MPa						
<b>Operating Temperature Range</b>	-5~+80℃						
<b>Voltage Range</b>	±10%						
<b>Material of Body</b>	Stainless steel						
<b>Material of Oil Seal</b>	NBR EPDM or VITON						

Note:2S Series Solenoid Valve's Overall Dimension, Flow Chart and Inner Structure all Same as 2W Series.



### 2W/2S Normal Open Series Solenoid Valve



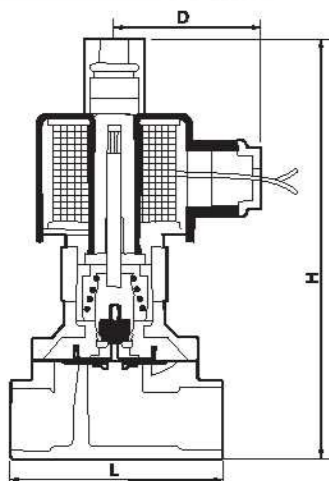
#### Ordering Code

<b>2W</b>	<b>160</b>	<b>10</b>	<b>NO</b>	<b>AC110V</b>	
<b>Specification Code</b> 2W:Two-position two-way solenoid valve (direct drive type) 2S:Stainless steel two position two way solenoid valve(direct drive type)	<b>Aperture of Flow Rate</b> 040:4.0mm 160:16mm 200:20mm 250:25mm	<b>Port Size</b> 10:G3/8" 15:G1/2" 20:G3/4" 25:G1"	<b>Initial Estate</b> NO: Normal Open	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC36V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	<b>Wiring Form</b> Blank:Lead Wire Type D : Join Connector E : Blast-proof Coil G : Water-proof Coil

#### Specification

Model	2W/2S(040-10NO)	2W/2S(160-10NO)	2W/2S(160-15NO)	2W/2S(200-20NO)	2W/2S(250-25NO)
<b>Working Medium</b>	Air,Water,Oil,Gas				
<b>Motion Pattern</b>	Direct Drive Type				
<b>Type</b>	Normal Open Type				
<b>Aperture of Flow Rate(mm)</b>	4	16	16	20	25
<b>CV Value</b>	0.6	4.8	4.8	7.6	12
<b>Port Size</b>	G3/8"	G3/8"	G1/2"	G3/4"	G1"
<b>Operation Fluid Viscosity</b>	20 CST (Below)				
<b>Working-pressure</b>	Water:0~0.5MPa Air:0~0.7MPa Oil:0~0.5MPa Gas: 0~0.7MPa				
<b>Max. Pressure Resistance</b>	1.05MPa				
<b>Operating Temperature Range</b>	-5~+80°C				
<b>Voltage Range</b>	±10%				
<b>Material of Body</b>	2W: Brass; 2S: Stainless steel				
<b>Material of Oil Seal</b>	NBR EPDM or VITON				

#### Overall Dimensions



#### Dimension Sheet

Model	L	H	D
2W040-10NO	53	105	54
2W160-10NO	69	116	62
2W160-15NO	69	116	62
2W200-20NO	73	127	62
2W250-25NO	99	135	62

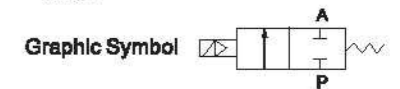


### 2L(US) Series 2/2 Solenoid Valve



#### Ordering Code

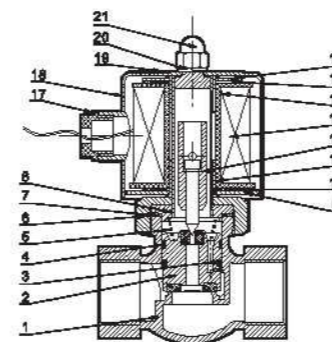
<b>2L</b>	<b>170</b>	<b>15</b>	<b>AC110V</b>
<b>Specification Code</b> 2L:Steam type Two-position Two-way Solenoid Valve	<b>Aperture of Flow Rate</b> 170:17mm 200:22mm 300:30mm 500:50mm	<b>Port Size</b> 10:G3/8" 15:G1/2" 20:G3/4" 25:G1" 35:G1/4" 40:G1/2" 50:G2"	<b>Standard Voltage</b> DC12V DC24V AC24V 50Hz/60Hz AC38V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz



#### Specification

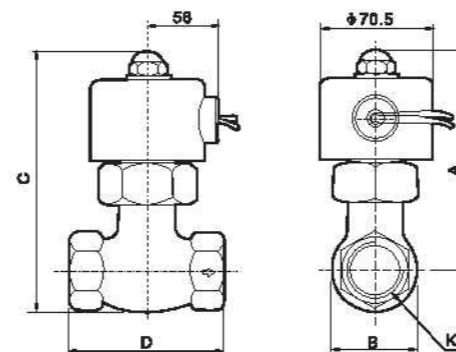
Model	2L170-10	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
<b>Working Medium</b>	Air, Water, Steam						
<b>Motion Pattern</b>	Guide Type						
<b>Type</b>	Normal Close Type						
<b>Aperture of Flow Rate(mm)</b>	17		22		30		50
<b>CV Value</b>	4.8		12		20		48
<b>Port Size</b>	G3/8"	G1/2"	G3/4"	G1"	G1/4"	G1/2"	G2"
<b>Operation Fluid Viscosity</b>	20 CST (Below)						
<b>Working-pressure</b>	Air, Water, Steam:0.1~1.5MPa						
<b>Max. Pressure Resistance</b>	2.25MPa						
<b>Operating Temperature Range</b>	-5~+180°C						
<b>Voltage Range</b>	±10%						
<b>Material of Body</b>	Brass						
<b>Material of Oil Seal</b>	PTFE						

#### Internal structure



NO	Name	NO	Name	NO	Name
1	Body Of Valve	8	Assembly of Iron Core	15	Gasket
2	Assembly Of Piston	9	Magnetic Plate	16	Magnetic Plate
3	Springiness Spacer	10	Gasket	17	Cord-locks
4	Wear Strip	11	Bush	18	Iron Cover
5	Spring	12	Assembly Of Iron Core	19	Name Plate
6	Nut	13	Assembly Of Coil	21	Gasket
7	O-ring	14	Bush	21	Head Cover Nut

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D	K
2L170-10	125	38	146	76	G3/8"
2L170-15	125	42	146	81	G1/2"
2L170-20	125	47	146	84	G3/4"
2L200-25	136	54	162	91.5	G1"
2L300-35	148	76	185	111	G1/4"
2L300-40	148	76	185	111	G1/2"
2L500-50	176	88	223	164	G2"

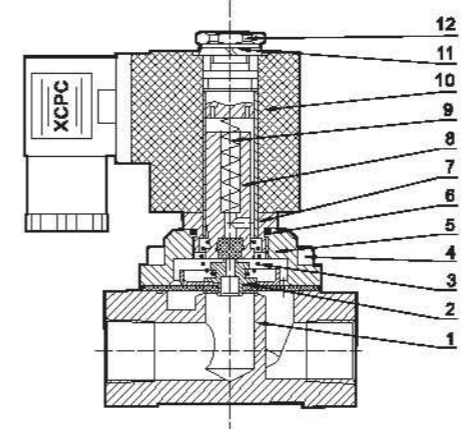


**PU220 Series 2/2 Solenoid Valve(Direct drive type)**

**PU220 Series 2/2 Solenoid Valve(Direct drive type)**



**Internal structure**



NO	Name	NO	Name
1	Body Of Valve	7	Assembly Of Iron Core
2	Assembly Of Diaphragm	8	Assembly Of Iron Core
3	Pull Spring	9	Spring
4	Socket Hexagon Screws	10	Coll
5	Valve Cover	11	Gasket
6	O-ring	12	Nut

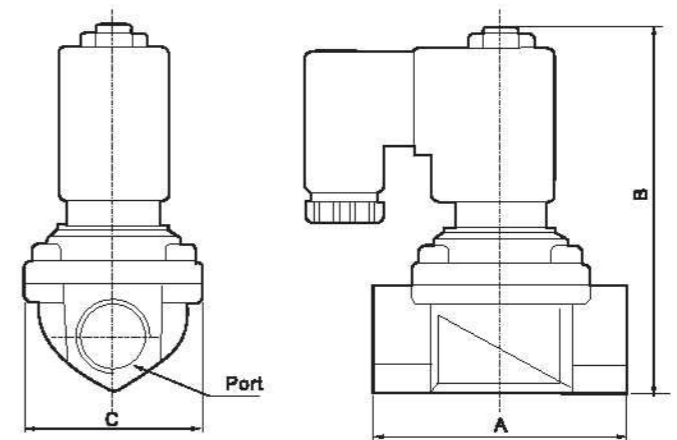
**Ordering Code**

**PU** Specification Code  
 PU:Two -position  
 Two -way solenoid valve  
**220** Motion Pattern  
 200:Direct drive Type  
**02** Port Size  
 01:G1/8" 02:G1/4"  
 03:G3/8" 04:G1/2"  
 08:G3/4" 08:G1"  
 12:G1 1/4" 14:G1 1/2"  
 20:G2"  
**A** Initial Estate  
 A: Large Flux  
 AR: Small Aperture  
 Direct Drive  
 F: Flange Type  
**AC110V** Standard Voltage  
 AC220V  
 AC110V  
 DC12V  
 DC24V  
**T** Wiring Form  
 Blank:Standard Coil  
 T:Timer Coil

**Specification**

Model	PU220-01AR	PU220-02AR	PU220-03AR	PU220-03A	PU220-04A	PU220-06A	PU220-08A
Working Medium	Air, Water, Oil						
Motion Pattern	220:Direct Drive Type/225:Guide Type						
Type	Normal Close Type						
Aperture of Flow Rate(mm)	1.5	2.3	8	13	13	20	25
CV Value	0.10	0.18	1.00	4.00	4.00	8.60	11.00
Joint Pipe Bore	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G1"
Operation Fluid Viscosity	50 CST						
Working-pressure	0-0.7MPa						
Max. Pressure Resistance	1.05MPa						
Operating Temperature Range	-5--+80℃						

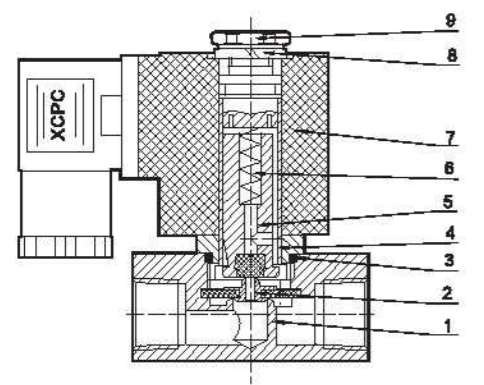
**Overall Dimensions**



**Dimension Sheet**

Model	Port	A	B	C
PU220-01AR	G1/8"	22	72	22
PU220-02AR	G1/4"	35	72	25.4
PU220-03AR	G3/8"	55	79.5	30
PU220-03A	G3/8"	65.5	101	48
PU220-04A	G1/2"	65.5	101	48
PU220-06A	G3/4"	71	107	58
PU220-08A	G1"	97	120	70

**Internal structure**



NO	Name
1	Body Of Valve
2	Assembly of Diaphragm
3	O-ring
4	Assembly Of Iron Core
5	Assembly Of Iron Core
6	Spring
7	Coll
8	Gasket
9	Nut





### VX Series 2/2 Solenoid Valve



**Ordering Code**

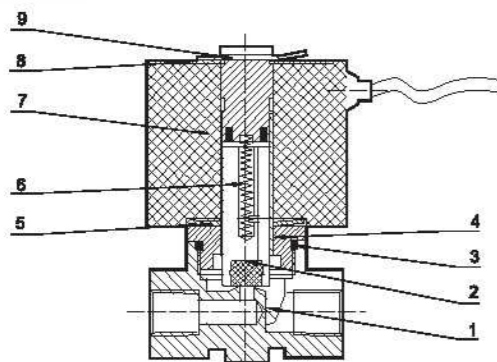
<b>VX2120</b>	<b>08</b>	<b>A</b>	<b>AC220V</b>
<b>Specification Code</b>	<b>Port Size</b>	<b>Initial code</b>	<b>Standard Voltage</b>
	06:G1/8" 08:G1/4" 10:G3/8" 15:G1/2"	Blank: Standard Type A: Large Flux	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz



**Specification**

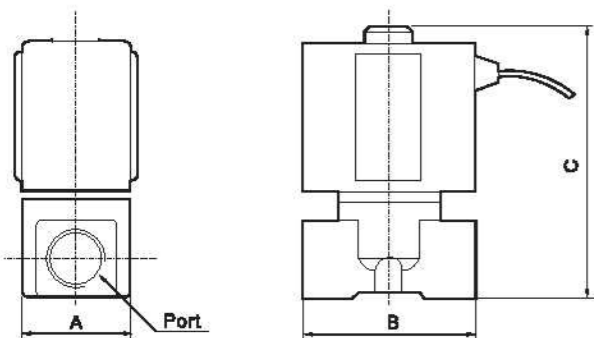
Model	VX2120-06	VX2120-08	VX2120-10	VX2120-10A	VX2120-15
Working Medium	Air, Water, Steam				
Motion Pattern	Direct Drive Type				
Type	Normal Close Type				
Working-pressure	0~1.0MPa				
Aperture of Flow Rate(mm)	3	10	13		
Port Size	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"
Operating Temperature Range	-5~+150°C		-5~+80°C		
Material of Oil Seal	VITON		NBR		

**Internal structure**



NO	Code	Name
1	VX2120-06-01	Body Of Valve
2	VX2120-06-02	Assembly Of Iron Core
3	VX2120-06-03	O-ring
4	VX2120-06-04	Assembly Of Iron Core
5	VX2120-06-05	Spring
6	VX2120-06-06	Spring
7	VX2120-06-07	Coil
8	VX2120-06-08	Name Plate
9	VX2120-06-09	Clip

**Overall Dimensions**



**Dimension Sheet**

Model	Port	A	B	C
VX2120-06	G1/8"	26	40	66
VX2120-08	G1/4"	26	40	66
VX2120-10	G3/8"	40	48	80
VX2120-10A	G3/8"	47	66	88
VX2120-15	G1/2"	47	66	88

### VXF Series Solenoid Valve



**Ordering Code**

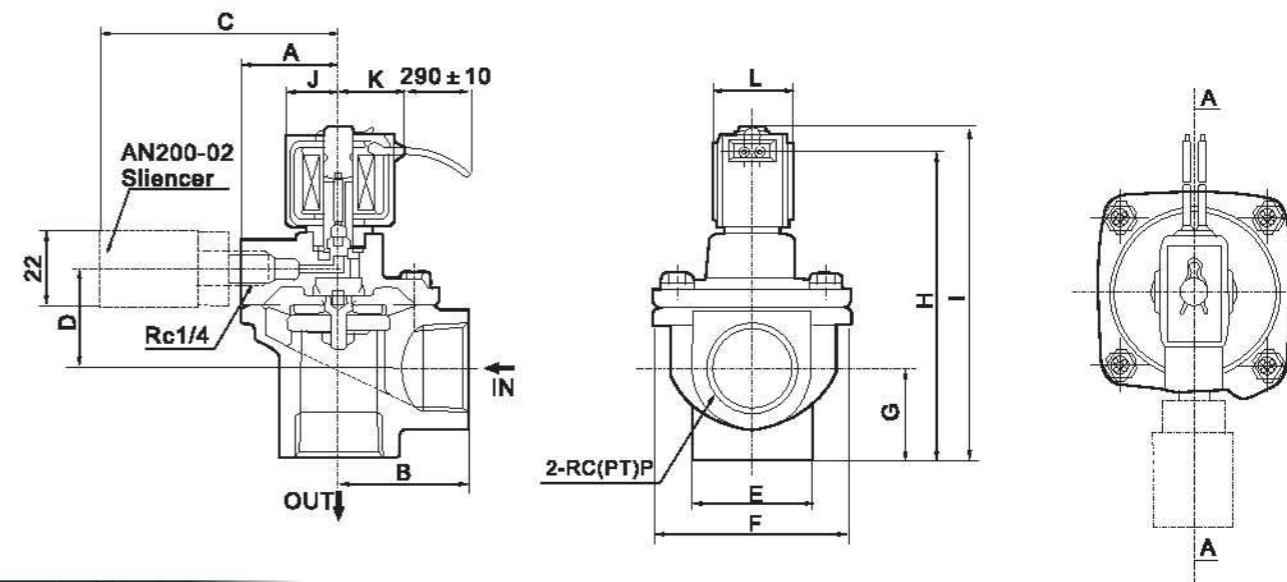
<b>VX2150</b>	<b>06</b>	<b>AC220V</b>	<input type="checkbox"/>
<b>Specification Code</b>	<b>Port Size</b>	<b>Standard Voltage</b>	<b>Wiring Form</b>
	06:G3/4" 10:G1" 14:G1 1/2"	DC12V DC24V AC24V 50Hz/60Hz AC36V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	Blank:Lead Wire Type D:Join Connector



**Specification**

Model	VXF2150-06	VX2160-10	VX2280-14
Port Size	G3/4"	G1"	G1 1/2"
Max. Operating Differential Pressure	1.0MPa		
Min. Operating Differential Pressure	0.031MPa		
Section (mm)	20	27	40
Effective Area of Section	170	330	810
CV Value	9.5	18.5	45
Exhaust Orifice	Rc(PT)1/4		

**Overall Dimensions**



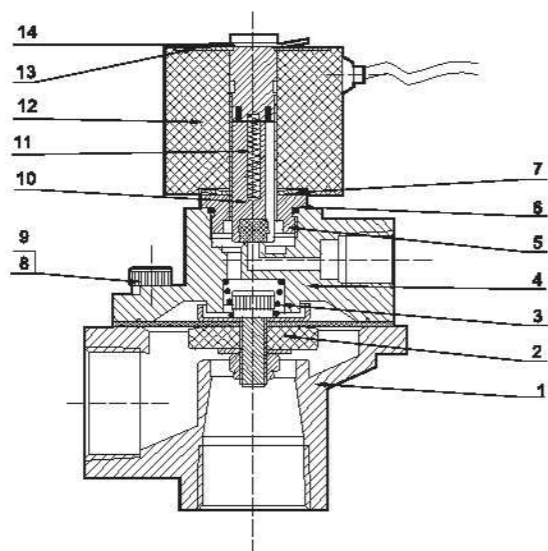
**Dimension Sheet**

Model	A	B	C	D	E	F	G	H	I	J	K	L	P
VXF2150	33	40	85	32.5	36	66	25	103	110	20	23	30	G3/4"
VXF2160	37	48	89	38	45	74	33.5	118	125	20	23	30	G1"
VXF2280	28	68	81	58	110	110	62.5	174	184	23	25	35	G1-1/2"



### VXF Series Solenoid Valve

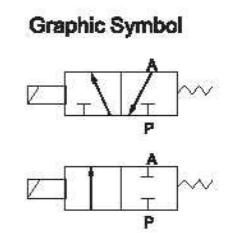
#### Internal structure



NO	Code	Name
1	VXF2150-06-01	Body of Valve
2	VXF2150-06-02	Assembly Of Diaphragm
3	VXF2150-06-03	Pull Spring
4	VXF2150-06-04	Valve Cover
5	VXF2150-06-05	Assembly Of Iron Core
6	VXF2150-06-06	O-ring
7	VXF2150-06-07	Spring
8	GB70-85	Gasket
9	GB859-87	Socket Hexagon Screws
10	VXF2150-06-08	Assembly Of Iron Core
11	VXF2150-06-09	Spring
12	VXF2150-06-10	Coil
13	VXF2150-06-11	Name Plate
14	VXF2150-06-12	Clip



### XC22/23 Series Solenoid Valve



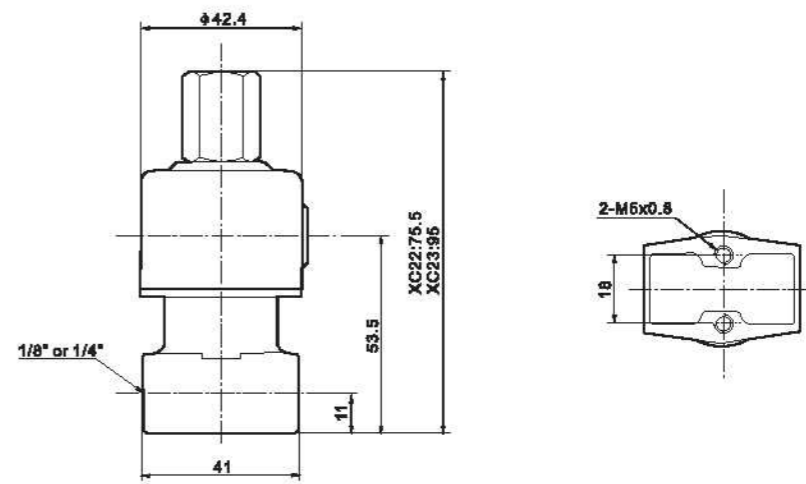
#### Ordering Code

<b>XC</b>	<b>23</b>	<b>06</b>	<b>AC220V</b>
Factory Code	The Position counting 22 : Two position two way 23 : Two position three way	Port Size 06:G3/4" 08:G1"	Standard Voltage DC12V DC24V AC24V 50/60Hz AC36V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz

#### Specification

Model	XC22-06	XC22-08	XC23-06	XC23-08
Working Medium	Air, Water, Oil			Air
Aperture of Flow Rate(mm)	1.6	2.4	3.2	4.0
CV Value	0.10	0.21	0.33	0.43
Port size	G1/8"	G1/4"	G1/8"	G1/4"
Working-pressure Range	0~1.5	0~1.0	0~0.7	0~0.5
Voltage Range	±10%			
Material of oil seal	NBR or VITON			

#### Overall Dimensions





### XC5404 Series High Pressure, High Temperature Solenoid Valve

**Ordering Code**

XC 5404 - 04 - AC110V - □

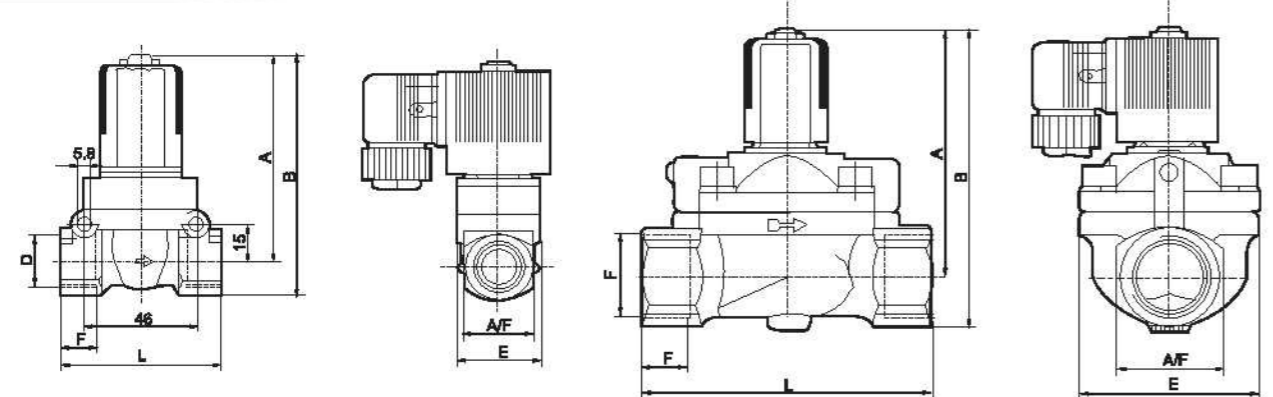
Factory Code Model Port Size Standard Voltage Wiring Form  
 04:G1/2" DC12V DC24V Blank/Lead Wire Type  
 06:G3/4" AC24V 50/60Hz D:Joint Connector  
 08:G1" AC36V 50/60Hz  
 AC110V 50/60Hz  
 AC220V 50/60Hz  
 AC380V 50/60Hz



#### Specification

Model	XC5404-04	XC5404-06	XC5404-08
Working Medium	Air, Water, Oil, Gas		
Motion Pattern	Guide Type		
Type	Normal Close Type		
Aperture of Flow Rate(mm)	12	25	25
KV Value	2.0	5.0	10.0
Joint Pipe Bore	G1/2"	G3/4"	G1"
Working-pressure(kgf/cm <sup>2</sup> )	Gas:1~50, Liquid:1~50	Gas:1~40, Liquid:01~25	Gas:1~40, Liquid:1~25
Max. Pressure Resistance(kgf/cm <sup>2</sup> )	75	60	
Operating Temperature Range(°C)	-5~+150°C		
Voltage Range	±10%		
Protect Class	IP65		
Power Consumption	AC:5.5VA DC:9W		
Insulation	F Class		
Material of Body	Brass		
Material of Oil Seal	PTFE		

#### Overall Dimensions



#### Dimension Sheet

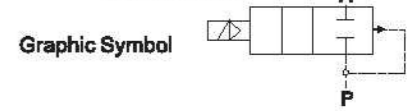
Model	Bore(mm)	Port	A	B	F	E	L	A/F
XC5404-04	12.0	G1/2"	83.0	98	14	32	63	27
XC5404-06	20.0	G3/4"	99.5	125	16	60	92	40
XC5404-08	25.0	G1"	99.5	125	16	60	92	40

### XC6213 Series Diaphragm Type Solenoid Valve

**Ordering Code**

XC 6213 - 04 - AC110V - □

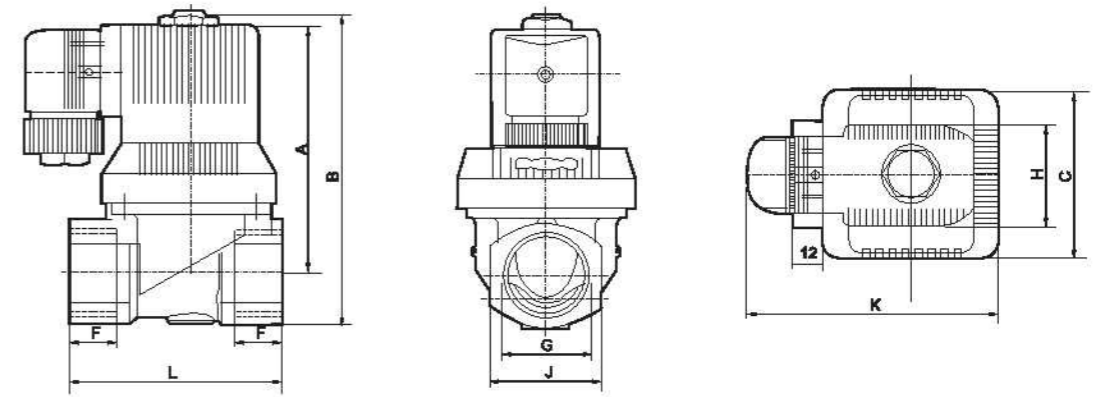
Factory Code Model Port Size Standard Voltage Wiring Form  
 02:G1/4" DC12V DC24V Blank/Lead Wire Type  
 03:G3/8" AC24V 50/60Hz D:Joint Connector  
 04:G1/2" AC36V 50/60Hz  
 06:G3/4" AC24V 50/60Hz  
 08:G1" AC110V 50/60Hz  
 AC220V 50/60Hz  
 AC380V 50/60Hz



#### Specification

Model	XC6213-02	XC6213-03	XC6213-04	XC6213-04	XC6213-06	XC6213-06	XC6213-08
Inside nominal diameter(mm)	10			14			
Port Size	G1/4"	G3/8"	G1/2"	G1/2"	G3/4"	G3/4"	G1"
Working Pressure(MPa)	0.03~1.0						
Environment Temperature(°C)	-10~+55						
Medium Temperature(°C)	-10~+90						
Kv Value(m <sup>3</sup> /h)	2	3.8	8.3	8.3	11	11	11
Power Consumption	AC(VA)		14				
	DC(W)		8				
Change Frequency(Hz)	≥1					≥0.5	
Power/Voltage	AC: 50Hz 24V,36V,110V,220V, DC:24V,12V						

#### Overall Dimensions



#### Dimension Sheet

Model	G	C	F	L	J	A	B	H	K
XC6213-02	G1/4"	38	14	50	26	71	85	35	71
XC6213-03	G3/8"	38	14	50	26	71	85	35	71
XC6213-04	G1/2"	38	14	50	26	71	85	35	71
XC6213-04	G1/2"	45	16	58	31	82	96	35	80
XC6213-06	G3/4"	45	16	58	31	82	96	35	80
XC6213-06	G3/4"	85	18	80.5	41	96	117	35	90
XC6213-08	G1"	85	18	80.5	41	96	117	35	90





### 2Q Series Air Contor Two-Way Valve

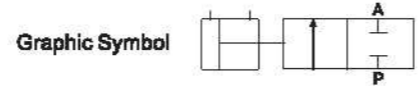
**Ordering Code**

**2Q** — **200** — **25**

**Specification Code**  
2Q: Two position two way Air Control valve

**Aperture of Flow Rate**  
160:16mm  
200:22mm  
250:25mm  
350:35mm  
400:40mm  
500:50mm

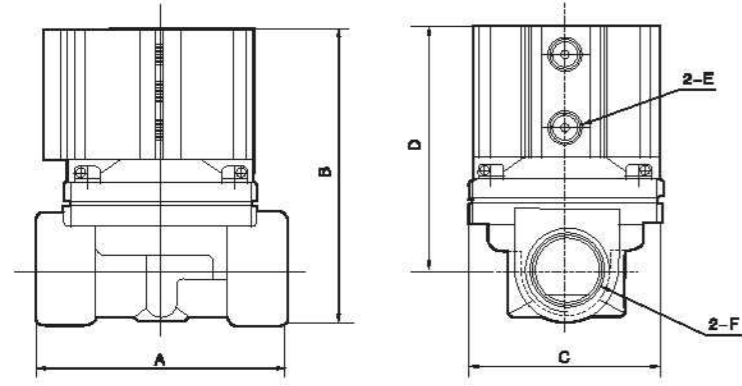
**Port Size**  
15:G1/2"  
20:G3/4"  
25:G1"  
35:G1 1/4"  
40:G1 1/2"  
50:G2"



#### Specification

Model	2Q160-15	2Q200-20	2Q250-25	2Q350-35	2Q400-40	2Q500-50
Working Medium	Air, Water, Oil, Gas					
Motion Pattern	Direct Drive					
Aperture of Flow Rate(mm)	16	20	25	35	40	50
CV Value	4.8	12	7.8	24	29	48
Joint Pipe Bore	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"	G2"
Operation Fluid Viscosity	50 CST(Below)					
Working-pressure Range	0~0.7Mpa					
Max. Pressure Resistance	1.05Mpa					
Control Pressure Range	0.3~0.6Mpa					
Operating Temperature Range	-5~100℃					
Material of Body	Brass					
Material of Oil Seal	PTFE					
Control Joint Pipe Bore	2-M5	2-G1/8"	2-G1/8"	2-G1/4"	2-G1/4"	2-G1/4"

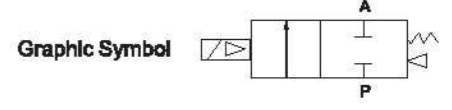
#### Overall Dimensions



**Dimension Sheet**

Model	A	B	C	D	E	F
2Q160-15	67	89	57	75	M5	G1/2"
2Q200-20	99	116	57	95	G1/8"	G3/4"
2Q250-25	99	116	57	95	G1/8"	G1"
2Q350-35	127	123	93	97	G1/4"	G1 1/4"
2Q400-40	123	146	95	116	G1/4"	G1 1/2"
2Q500-50	170	155	118	114	G1/4"	G2"

### SLP Series 2/2 Solenoid Valve(Normal Close)



**Ordering Code**

**SLP** — **06** — — **E2** — **3L** — **S1** — **H**

**SLP Series**

**Port size**  
08: G1/8" 08: G1/4"  
10: G3/8" 15: G1/2"  
20: G3/4" 25: G1"  
35: G1 1/4"  
40: G1 1/2"  
50: G2"  
F: Flange

**Seal material**  
Blank: NBR  
V: VITON  
E: EPDM

**Voltage**  
E1: AC110V  
E2: AC220V  
E3: AC380V  
E4: DC24V  
E5: DC12V  
E6: AC36V  
E7: AC24V  
E8: DC110V  
E9: DC48V  
E10: DC36V

**Orifice(mm)**  
1L: 1.0 1.5L: 1.5  
2.5L: 2.5 3L: 3.0  
4L: 4.0 5L: 5.0  
8L: 8.0 10L: 10.0  
10.5L: 10.5  
13L: 13.0  
20L: 20.0  
25L: 25.0  
35L: 35.0  
40L: 40.0  
50L: 50.0

**Body material**  
Blank: Brass  
S1: SS316

**Control style**  
Blank: Normal close  
H: Normal open

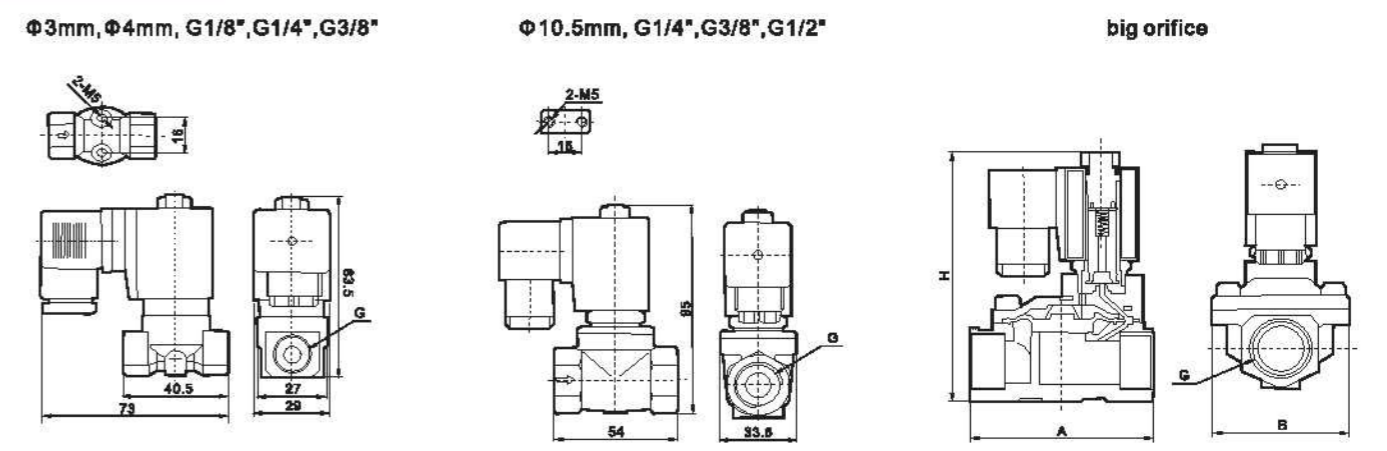
*Cancel if same with port size*

\* SLP series, 2 port, 2 position, 1/8" port size, NBR Seal, AC110V, Orifice: 3mm, Brass valve body, normal close, model: SLP06E1-3L  
\* SLP series, 2 port, 2 position, 3/8" port size, VITON Seal, AC220V, Orifice: 13mm, SS316 valve body, normal open, model: SLP10VE2-13LS1H

#### Product Features

- \* Normal Close, available body: brass, SS316.
- \* Multiple seals are available for different medium.
- \* Wide size range from 1/8" to 2" with both thread and flange connection.
- \* Diaphragm pilot solenoid valve, with lower working pressure.

#### Overall Dimensions





### SLP Series 2/2 Solenoid Valve(Normal Close)

#### Specification

Port size (G)	Orifice (mm)	CV value	Pressure difference(Bar)				Max. temperature (°C)	Power		Model		Overall dimension Length × Width × Height A × B × H(mm)
			Min. pressure	Max. working pressure				VA AC 220	W DC 24V	220VAC	50/60Hz	
				Air, Gas	Water, Liquid	Hot water, Liquid						
1/8"	3	0.23	0	13	13	10	80	22	13	SLP08E2-3L	SLP08E2-3LS1	
	3	0.23	0	13	13	-	130	22	13	SLP08EE2-3L	SLP08EE2-3LS1	
	3	0.23	0	13	13	10	120	22	13	SLP08VE2-3L	SLP08VE2-3LS1	
1/4"	3	0.23	0	13	13	10	80	22	13	SLP08E2-3L	SLP08E2-3LS1	
	3	0.23	0	13	13	-	130	22	13	SLP08EE2-3L	SLP08EE2-3LS1	
	3	0.23	0	13	13	10	120	22	13	SLP08VE2-3L	SLP08VE2-3LS1	
	10.5	1.47	0	10	10	10	80	22	13	SLP08E2-10.5L	-	
	10.5	1.47	0	10	10	-	130	22	13	SLP08EE2-10.5L	-	
	10.5	1.47	0	10	10	10	120	22	13	SLP08VE2-10.5L	-	
3/8"	3	0.3	0	13	13	10	80	22	13	SLP10E2-3L	SLP10E2-3LS1	
	3	0.3	0	13	13	10	130	22	13	SLP10EE2-3L	SLP10EE2-3LS1	
	3	0.3	0	13	13	10	120	22	13	SLP10VE2-3L	SLP10VE2-3LS1	
	4	0.6	0	8	8	6	80	22	13	SLP10E2-4L	SLP10E2-4LS1	
	4	0.6	0	8	8	6	130	22	13	SLP10EE2-4L	SLP10EE2-4LS1	
	4	0.6	0	8	8	6	120	22	13	SLP10VE2-4L	SLP10VE2-4LS1	
	10.5	1.68	0	10	10	10	80	22	13	SLP10E2-10.5L	-	
	10.5	1.68	0	10	10	-	130	22	13	SLP10EE2-10.5L	-	
	10.5	1.68	0	10	10	10	120	22	13	SLP10VE2-10.5L	-	
	13	4.5	0.5	16	16	13	80	22	13	SLP10E2-13L	SLP10E2-13LS1	
	13	4.5	0.5	16	16	13	130	22	13	SLP10EE2-13L	SLP10EE2-13LS1	
	13	4.5	0.5	16	16	13	120	22	13	SLP10VE2-13L	SLP10VE2-13LS1	
1/2"	10.5	1.75	0	10	10	10	80	22	13	SLP15E2-10.5L	-	66×48×112
	10.5	1.75	0	10	10	-	130	22	13	SLP15EE2-10.5L	-	
	10.5	1.75	0	10	10	10	120	22	13	SLP15VE2-10.5L	-	
	13	4.5	0.5	16	16	13	80	22	13	SLP15E2-13L	SLP15E2-13LS1	
	13	4.5	0.5	16	16	13	130	22	13	SLP15EE2-13L	SLP15EE2-13LS1	
	13	4.5	0.5	16	16	13	120	22	13	SLP15VE2-13L	SLP15VE2-13LS1	
3/4"	20	7.6	0.5	16	16	13	80	22	13	SLP-20E2	SLP-20E2S1	75×58×118
	20	7.6	0.5	16	16	13	130	22	13	SLP-20EE2	SLP-20EE2S1	
	20	7.6	0.5	16	16	13	120	22	13	SLP-20VE2	SLP-20VE2S1	
1"	25	12	0.5	16	16	13	80	22	13	SLP-25E2	SLP-25E2S1	98×70×131
	25	12	0.5	16	16	13	130	22	13	SLP-25EE2	SLP-25EE2S1	
	25	12	0.5	16	16	13	120	22	13	SLP-25VE2	SLP-25VE2S1	
1-1/4"	35	22	0.5	16	16	13	80	22	13	SLP-35E2	SLP-35E2S1	131×96×146
	35	22	0.5	16	16	13	130	22	13	SLP-35EE2	SLP-35EE2S1	
	35	22	0.5	16	16	13	120	22	13	SLP-35VE2	SLP-35VE2S1	
1-1/2"	40	30	0.5	16	16	13	80	22	13	SLP-40E2	SLP-40E2S1	131×96×146
	40	30	0.5	16	16	13	130	22	13	SLP-40EE2	SLP-40EE2S1	
	40	30	0.5	16	16	13	120	22	13	SLP-40VE2	SLP-40VE2S1	
2"	50	48	0.5	16	16	13	80	22	13	SLP-50E2	SLP-50E2S1	165×120×167
	50	48	0.5	16	16	13	130	22	13	SLP-50EE2	SLP-50EE2S1	
	50	48	0.5	16	16	13	120	22	13	SLP-50VE2	SLP-50VE2S1	
Flange connection	25	12	0.5	16	16	13	80	22	13	-	SLPFEE2-25LS1	134×110×160
	25	12	0.5	16	16	13	130	22	13	-	SLPFEE2-25LS1	134×110×160
Flange connection	35	22	0.5	16	16	13	80	22	13	-	SLPFEE2-35LS1	160×135×175
	35	22	0.5	16	16	13	130	22	13	-	SLPFEE2-35LS1	160×135×175
	35	22	0.5	16	16	13	120	22	13	-	SLPFEE2-35LS1	160×135×175
Flange connection	40	30	0.5	16	16	13	80	22	13	-	SLPFEE2-40LS1	160×145×180
	40	30	0.5	16	16	13	130	22	13	-	SLPFEE2-40LS1	160×145×180
Flange connection	40	30	0.5	16	16	13	120	22	13	-	SLPFEE2-40LS1	160×145×180
	50	48	0.5	16	16	13	80	22	13	-	SLPFEE2-50LS1	200×160×207
	50	48	0.5	16	16	13	130	22	13	-	SLPFEE2-50LS1	200×160×207
Flange connection	50	48	0.5	16	16	13	120	22	13	-	SLPFEE2-50LS1	200×160×207

### SLP Series 2/2 Solenoid Valve(Normal Open)

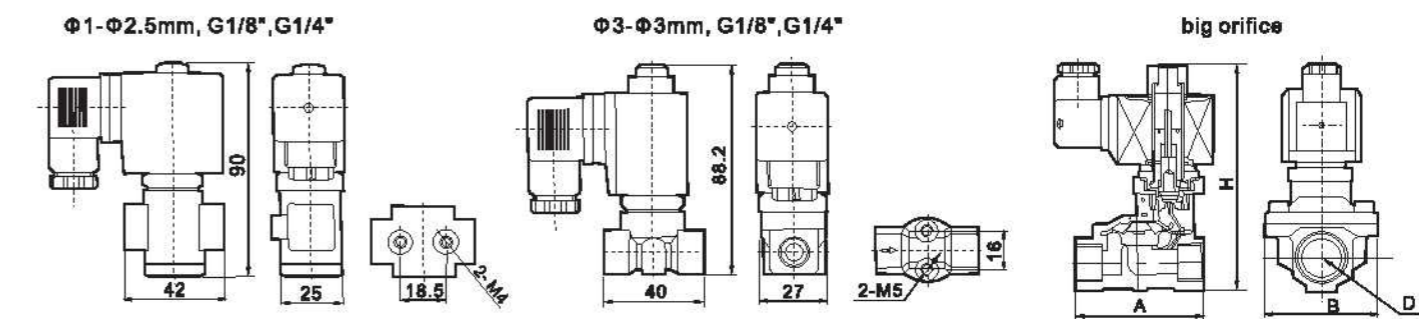
#### Specification



#### Product Features

- \* Normal open, available body: brass, SS316
- \* Multiple seals are available for different medium
- \* Wide size range from 1/8" to 2", with both thread and flange connection
- \* Diaphragm pilot solenoid valve, with lower working pressure

#### Overall Dimensions



#### Specification

Port size (G)	Orifice (mm)	CV value	Pressure difference(Bar)				Max. temperature (°C)	Power		Model	
			Min. pressure	Max. working pressure				VA AC 220	W DC 24V	220VAC	50/60Hz
				Air, Gas	Water, Liquid	Hot water, Liquid					
1/8"	1	0.04	0	30	30	25	80	22	13	SLP08E2-1LH	SLP08E2-1LS1H
	1	0.04	0	30	30	-	130	22	13	SLP08EE2-1LH	SLP08EE2-1LS1H
	1	0.04	0	30	30	25	120	22	13	SLP08VE2-1LH	SLP08VE2-1LS1H
	1.5	0.09	0	20	20	15	80	22	13	SLP08E2-1.5LH	SLP08E2-1.5LS1H
	1.5	0.09	0	20	20	-	130	22	13	SLP08EE2-1.5LH	SLP08EE2-1.5LS1H
	1.5	0.09	0	20	20	15	120	22	13	SLP08VE2-1.5LH	SLP08VE2-1.5LS1H
	2.5	0.2	0	15	15	12	80	22	13	SLP08E2-2.5LH	SLP08E2-2.5LS1H
	2.5	0.2	0	15	15	-	130	22	13	SLP08EE2-2.5LH	SLP08EE2-2.5LS1H
	2.5	0.2	0	15	15	12	120	22	13	SLP08VE2-2.5LH	SLP08VE2-2.5LS1H
	3	0.25	0	12	12	10	80	22	13	SLP08E2-3LH	SLP08E2-3LS1H
	3	0.25	0	12	12	-	130	22	13	SLP08EE2-3LH	SLP08EE2-3LS1H
	3	0.25	0	12	12	10	120	22	13	SLP08VE2-3LH	SLP08VE2-3LS1H



### SLP Series 2/2 Solenoid Valve(Normal Open)

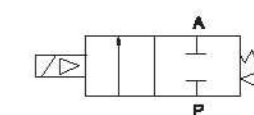
#### Specification

Port size (G)	Orifice (mm)	CV value	Pressure difference(Bar)				Max. temperature (°C)	Power		Model		Overall dimension Length × Width × Height A × B × H(mm)
			Max. working pressure					VA	W	220VAC 50/60Hz		
			Alr. Gas	Water, water, Liquid	Hot water, Liquid	Light oil ≤20CST				Brass	Stainless steel	
1/4"	1	0.04	0	30	30	25	80	22	13	SLP08E2-1LH	SLP08E2-1LS1H	86×48×124
	1	0.04	0	30	30	-	130	22	13	SLP08EE2-1LH	SLP08EE2-1LS1H	
	1	0.04	0	30	30	25	120	22	13	SLP08VE2-1LH	SLP08VE2-1LS1H	
	1.5	0.09	0	20	20	15	80	22	13	SLP08E2-1.5LH	SLP08E2-1.5LS1H	
	1.5	0.09	0	20	20	-	130	22	13	SLP08EE2-1.5LH	SLP08EE2-1.5LS1H	
	1.5	0.09	0	20	20	15	120	22	13	SLP08VE2-1.5LH	SLP08VE2-1.5LS1H	
	2.5	0.2	0	15	15	12	80	22	13	SLP08E2-2.5LH	SLP08E2-2.5LS1H	
	2.5	0.2	0	15	15	-	130	22	13	SLP08EE2-2.5LH	SLP08EE2-2.5LS1H	
	2.5	0.2	0	15	15	12	120	22	13	SLP08VE2-2.5LH	SLP08VE2-2.5LS1H	
3/8"	3	0.25	0	12	12	10	80	22	13	SLP08E2-3LH	SLP08E2-3LS1H	86×48×124
	3	0.25	0	12	12	-	130	22	13	SLP08EE2-3LH	SLP08EE2-3LS1H	
	3	0.25	0	12	12	10	120	22	13	SLP08VE2-3LH	SLP08VE2-3LS1H	
	13	4.5	0.5	8	8	7	80	33	32	SLP10E2-13LH	SLP10E2-13LS1H	
	13	4.5	0.5	8	8	7	120	33	32	SLP10EE2-13LH	SLP10EE2-13LS1H	
	13	4.5	0.5	8	8	7	80	33	32	SLP10VE2-13LH	SLP10VE2-13LS1H	
	13	4.5	0.5	8	8	7	120	33	32	SLP15E2-13LH	SLP15E2-13LS1H	
	13	4.5	0.5	8	8	7	120	33	32	SLP15EE2-13LH	SLP15EE2-13LS1H	
	13	4.5	0.5	8	8	7	120	33	32	SLP15VE2-13LH	SLP15VE2-13LS1H	
1/2"	20	7.8	0.5	8	8	7	80	33	32	SLP-20E2H	SLP-20E2S1H	75×58×130
	20	7.8	0.5	8	8	7	120	33	32	SLP-20EE2H	SLP-20EE2S1H	
	20	7.8	0.5	8	8	7	120	33	32	SLP-20VE2H	SLP-20VE2S1H	
3/4"	25	12	0.5	8	8	7	80	33	32	SLP-25E2H	SLP-25E2S1H	96×70×143
	25	12	0.5	8	8	7	120	33	32	SLP-25EE2H	SLP-25EE2S1H	
	25	12	0.5	8	8	7	120	33	32	SLP-25VE2H	SLP-25VE2S1H	
1"	35	22	0.5	8	8	7	80	33	32	SLP-35E2H	SLP-35E2S1H	131×96×158
	35	22	0.5	8	8	7	120	33	32	SLP-35EE2H	SLP-35EE2S1H	
	35	22	0.5	8	8	7	120	33	32	SLP-35VE2H	SLP-35VE2S1H	
1-1/4"	40	30	0.5	8	8	7	80	33	32	SLP-40E2H	SLP-40E2S1H	131×96×158
	40	30	0.5	8	8	7	120	33	32	SLP-40EE2H	SLP-40EE2S1H	
	40	30	0.5	8	8	7	120	33	32	SLP-40VE2H	SLP-40VE2S1H	
1-1/2"	50	48	0.5	8	8	7	80	33	32	SLP-50E2H	SLP-50E2S1H	165×120×179
	50	48	0.5	8	8	7	120	33	32	SLP-50EE2H	SLP-50EE2S1H	
	50	48	0.5	8	8	7	120	33	32	SLP-50VE2H	SLP-50VE2S1H	
2"	50	48	0.5	8	8	7	80	33	32	SLP-50E2H	SLP-50E2S1H	165×120×179
	50	48	0.5	8	8	7	120	33	32	SLP-50EE2H	SLP-50EE2S1H	
	50	48	0.5	8	8	7	120	33	32	SLP-50VE2H	SLP-50VE2S1H	
Flange connection	25	12	0.5	8	8	7	80	33	32		SLPFEE2-25LS1H	134×110×172
	25	12	0.5	8	8	7	120	33	32		SLPFVE2-25LS1H	
	25	12	0.5	8	8	7	120	33	32		SLPFEE2-25LS1H	
Flange connection	35	22	0.5	8	8	7	80	33	32		SLPFEE2-35LS1H	160×135×187
	35	22	0.5	8	8	7	120	33	32		SLPFVE2-35LS1H	
	35	22	0.5	8	8	7	120	33	32		SLPFEE2-35LS1H	
Flange connection	40	30	0.5	8	8	7	80	33	32		SLPFEE2-40LS1H	160×145×182
	40	30	0.5	8	8	7	120	33	32		SLPFVE2-40LS1H	
	40	30	0.5	8	8	7	120	33	32		SLPFEE2-40LS1H	
Flange connection	50	48	0.5	8	8	7	80	33	32		SLPFEE2-50LS1H	200×160×219
	50	48	0.5	8	8	7	120	33	32		SLPFVE2-50LS1H	
	50	48	0.5	8	8	7	120	33	32		SLPFEE2-50LS1H	

### THP Series 2/2 Solenoid Valve(Normal Close)



Graphic Symbol



#### Ordering Code

**THP** Series    **06** Port size    **E2** Voltage    **2.5L** Orifice(mm)    **S2** Body Material    **Control style**    **Coll type**

**THP Series**  
 06: G1/8"    08: G1/4"    E1: AC110V  
 10: G3/8"    15: G1/2"    E2: AC220V  
 20: G3/4"    25: G1"    E3: AC380V  
 35: G1-1/4"    E4: DC24V  
 40: G1-1/2"    E5: DC12V  
 50: G2"    E6: AC36V  
 25F: 1" Flange    E7: AC24V  
 35F: 1-1/4" Flange    E8: DC110V  
 40F: 1-1/2" Flange    E9: DC48V  
 50F: 2" Flange    E10: DC36V

**Seal material**  
 Blank: NBR  
 T: Teflon  
 V: VITON  
 E: EPDM (N,V,E orifice ≤ Φ5.5mm optional)

**Orifice(mm)**  
 2.5L: 2.5  
 4.5L: 4.5  
 15L: 15.0  
 20L: 20.0  
 25L: 25.0  
 35L: 35.0  
 40L: 40.0  
 50L: 50.0

**Body Material**  
 Blank: Brass  
 S1: SS316  
 S2: SS304

**Control style**  
 Blank: Normal close  
 H: Normal open

**Coll type**  
 Blank: DIN connector  
 F: Flying leads

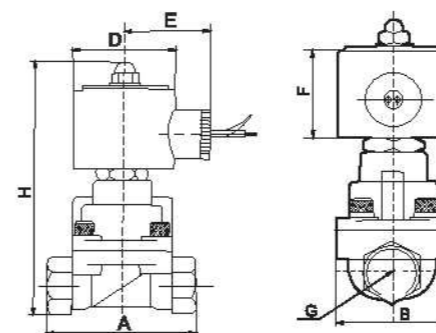
Cancel if same with port size

\* THP series, 2 port, 2 position, 1/8" port size, AC110V, NBR Seal, Orifice: 2.5mm, Brass valve body, normal close, DIN coll, model: THP06E1-2.5L  
 \* THP series, 2 port, 2 position, 3/8" port size, AC220V, teflon Seal, Orifice: 15mm, SS304 valve body, normal open, flying leads coll, model: THP10E2-15LS2HF

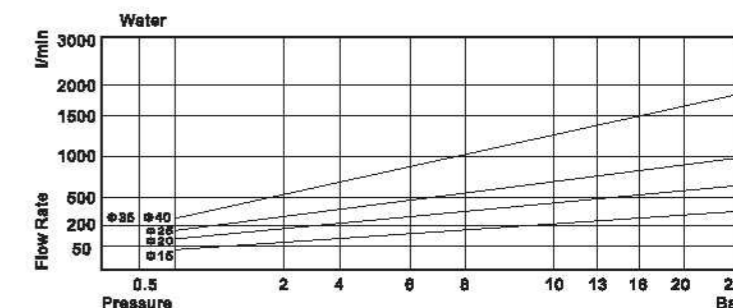
#### Product Features

- \* Normal Close, available body: brass, SS304, SS316
- \* Multiple seals are available for different medium
- \* Wide size range from 1/8" to 2"
- \* DIN style / flying leads coil, thread / flange connection
- \* Piston pilot solenoid valve with high working pressure and temperature

#### Overall Dimension



#### Flow Chart



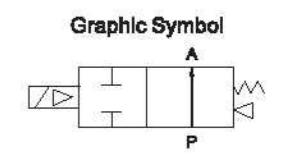


### THP Series 2/2 Solenoid Valve(Normal Close)

#### Specification

Port size (G)	Orifice (mm)	CV value	Pressure difference(Bar)								Max. temperature (°C)	Power		Model		Overall dimension Length×Width×Height A×B×H(mm)
			Min. pressure	Max.working pressure						VA		W	220VAC	50/60Hz		
				Air, Gas	Water, Hot water, Liquid	Light oil ≤20CST		Steam								
						AC/DC	AC		DC						AC/DC	
G1/8"	2.5	0.23	0	8	8	8	8	6	6	10	180	22	13	THP06T-2.5L	-	48×25×85.5
	2.5	0.23	0	13	13	13	7	7	10	110	22	13	THP06V-2.5L	-	48×25×85.5	
	4.5	0.6	0	7	4	7	4	4	4	7	165	22	13	THP06T-4.5L	-	58×25×85.5
	4.5	0.6	0	7	4	7	4	4	4	7	110	22	13	THP06V-4.5L	-	58×25×85.5
G1/4"	2.5	0.23	0	7	4	7	4	4	4	10	180	22	13	THP08T-2.5L	-	48×25×85.5
	2.5	0.23	0	13	13	13	4	7	7	10	110	22	13	THP08V-2.5L	-	48×25×85.5
	4.5	0.6	0	7	4	7	4	4	4	7	165	22	13	THP08T-4.5L	-	58×25×85.5
	4.5	0.6	0	7	4	7	4	4	4	7	110	22	13	THP08V-4.5L	-	58×25×85.5
G3/8"	15	4.5	0.5	25	20	25	20	20	20		110	33	32	THP10T-15L	THP10T-15LS2	75×52×129
	15	4.5	0.5	25	20	25	20	20	20	10	185	30	25	THP10T-15LF	THP10T-15LS2F	75×52×129
G1/2"	15	4.5	0.5	25	20	25	20	20	20		110	33	32	THP-15T	THP-15TS2	75×52×129
	15	4.5	0.5	25	20	25	20	20	20	10	185	30	25	THP-15TF	THP-15TS2F	75×52×129
G3/4"	20	9.0	0.5	25	20	25	20	20	20		110	33	32	THP-20T	THP-20TS2	85×60×141
	20	9.0	0.5	25	20	25	20	20	20	10	185	30	25	THP-20TF	THP-20TS2F	85×60×141
G1"	25	13	0.5	25	20	25	20	20	20		110	33	32	THP-25T	THP-25TS2	100×70×148
	25	13	0.5	25	20	25	20	20	20	10	185	30	25	THP-25TF	THP-25TS2F	100×70×148
G1-1/4"	35	26	0.5	25	20	25	20	20	20	10	110	33	32	THP-35T	THP-35TS2	120×90×168
	35	26	0.5	25	20	25	20	20	20		185	30	25	THP-35TF	THP-35TS2F	120×90×168
G1-1/2"	35	26	0.5	25	20	25	20	20	20	10	110	33	32	THP40T-35L	THP40T-35LS2	120×90×168
	35	26	0.5	25	20	25	20	20	20		185	30	25	THP40T-35LF	THP40T-35LS2F	120×90×168
G2"	50	48	0.5	25	20	25	20	20	20		110	33	32	-	THP-50TS2	150×110×190
	50	48	0.5	25	20	25	20	20	20	10	185	30	25	-	THP-50TS2F	150×110×190
G1" Flange	25	13	0.5	25	20	25	20	20	20		110	33	32	-	THPPFT-25LS2	134×110×185
	25	13	0.5	25	20	25	20	20	20	10	185	30	25	-	THPPFT-25LS2F	134×110×185
G1-1/4" Flange	35	26	0.5	25	20	25	20	20	20		110	33	32	-	THPPFT-35LS2	160×135×200
	35	26	0.5	25	20	25	20	20	20	10	185	30	25	-	THPPFT-35LS2F	160×135×200
G1-1/2" Flange	35	26	0.5	25	20	25	20	20	20		110	33	32	-	THPPFT-40LS2	160×145×205
	35	26	0.5	25	20	25	20	20	20	10	185	30	25	-	THPPFT-40LS2F	160×145×205
G2" Flange	50	45	0.5	25	20	25	20	20	20	10	110	33	32	-	THPPFT-50LS2	200×155×250
	50	45	0.5	25	20	25	20	20	20		185	30	25	-	THPPFT-50LS2F	200×155×250

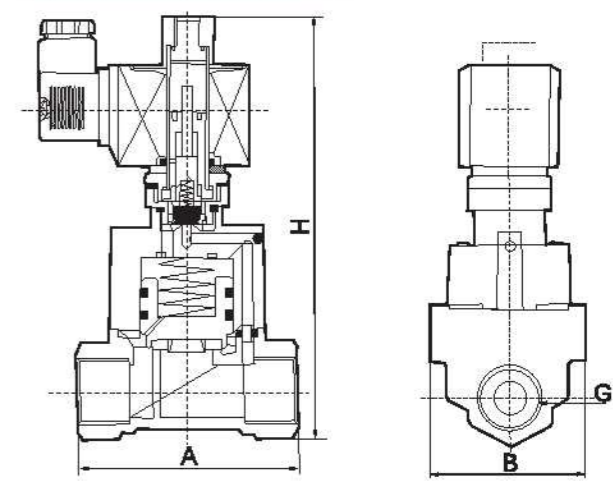
### THP Series 2/2 Solenoid Valve(Normal Open)



#### Product Features

- \* Normal open, available body: brass, SS304, SS316
- \* Multiple seals are available for different medium
- \* Wide size range from 1/8" to 2"
- \* DIN style / flying leads coil, thread / flange connection
- \* Piston pilot solenoid valve with high working pressure and temperature

#### Overall Dimensions



#### Specification

Port size (G)	Orifice (mm)	CV value	Pressure difference(Bar)						Max. temperature (°C)	Power		Model		Overall dimension Length×Width×Height A×B×H(mm)
			Min. pressure	Max.working pressure				VA		W	220VAC	50/60Hz		
				Air, Gas	Water, Hot water, Liquid	Light oil ≤20CST							Steam	
						AC	DC							
3/8"	15	4.5	0.5	8	8	8	8	130	33	32	THP10T-15LH	THP10T-15LS2H	75×52×147	
	15	4.5	0.5	8	8	8	8	130	33	32	THP10T-15LHF	THP10T-15LS2HF	75×52×147	
1/2"	15	4.5	0.5	8	8	8	8	130	33	32	THP-15TH	THP-15TS2H	75×52×147	
	15	4.5	0.5	8	8	8	8	130	33	32	THP-15THF	THP-15TS2HF	75×52×147	
3/4"	20	9.0	0.5	8	8	8	8	130	33	32	THP-20TH	THP-20TS2H	85×60×159	
	20	9.0	0.5	8	8	8	8	130	33	32	THP-20THF	THP-20TS2HF	85×60×159	
1"	25	13	0.5	8	8	8	8	130	33	32	THP-25TH	THP-25TS2H	100×70×166	
	25	13	0.5	8	8	8	8	130	33	32	THP-25THF	THP-25TS2HF	100×70×166	
1-1/4"	35	26	0.5	8	8	8	8	130	33	32	THP-35TH	THP-35TS2H	120×90×186	
	35	26	0.5	8	8	8	8	130	33	32	THP-35THF	THP-35TS2HF	120×90×186	
1-1/2"	35	26	0.5	8	8	8	8	130	33	32	THP40T-35LH	THP40T-35LS2H	120×90×186	
	35	26	0.5	8	8	8	8	130	33	32	THP40T-35LHF	THP40T-35LS2HF	120×90×186	
1" Flange	25	25	0.5	8	8	8	8	130	33	32	-	THP-25FE2TS2H	134×110×200	
	25	13	0.5	8	8	8	8	130	33	32	-	THP-25FE2TS2HF	134×110×200	
1-1/4" Flange	35	26	0.5	8	8	8	8	130	33	32	-	THP-35FE2TS2H	160×134×215	
	35	26	0.5	8	8	8	8	130	33	32	-	THP-35FE2TS2HF	160×134×215	
1-1/2" Flange	40	26	0.5	8	8	8	8	130	33	32	-	THP-40FE2TS2H	160×145×200	
	40	26	0.8	8	8	8	8	130	33	32	-	THP-40FE2TS2HF	160×145×200	



### XMFZ Series Right Angle Pulse Valve

### XMFY Series In Line Pulse Valve



**Ordering Code**

**X** — **MF** — **Z** — **25** — **P** — **EX**

X: XCPC Product  
 MF: Pulse Valve Type Code  
 Z: Solenoid Control (Z), Pneumatic Control (Q)  
 25: Orifice Size  
 P: Thread Type (Blank: Normal, Thread Type: A: Thread Type+Insert pipe, P: Thread Type, S: Double Diaphragms, J: Thread Type (Economy Type))  
 EX: Wiring Form (Blank: Normal Type, EX: Ex-proof type)

**Ordering Code**

**X** — **MF** — **Y** — **50** — **S** — **EX**

X: XCPC Product  
 MF: Pulse Jet Valve  
 Y: Solenoid Control (Y), Pneumatic Control (Q)  
 50: Orifice  
 S: Double Diaphragms  
 EX: Wiring Form (Blank: Normal Type, EX: Ex-proof Type)

**Specialty**

Adopt international advanced technology.  
 Used for dust remover.  
 Key parts all made of imported materials.  
 Pneumatic control type, solenoid control type, ex-proof solenoid control type for choose.  
 Female thread connection port, easy to be mounted.

**Specialty**

Adopt international advanced technology  
 Used for dust remover  
 Key parts all made of imported materials  
 Pneumatic control type, solenoid control type, ex-proof solenoid control type for choose  
 Directing mounted to gas bag better blowing effect and small loss of air source.

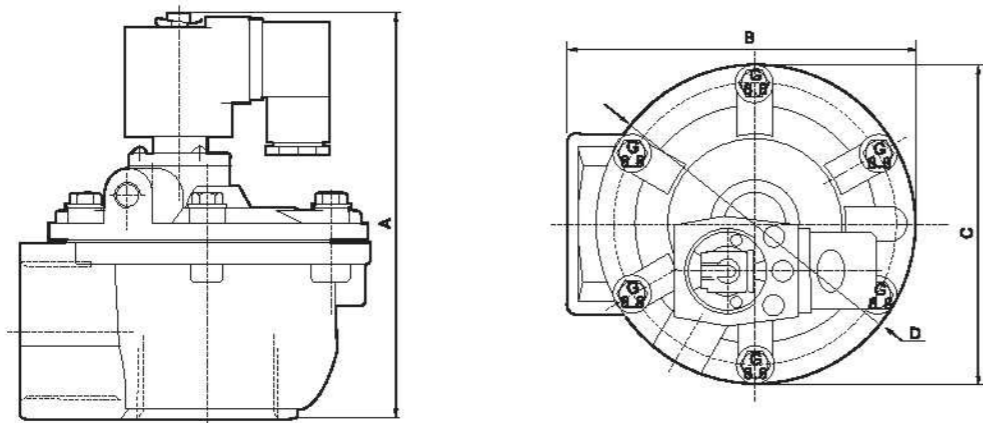
**Specification**

Model	XMF-Z-20A	XMF-Z-20P	XMF-Z-20	XMF-Z-25	XMF-Z-25P	XMF-Z-35P	XMF-Z-40S	XMF-Z-50S	XMF-Z-62S	XMF-Z-76S	XMF-Z-100S
Working Pressure	0.3~0.8MPa										
Ambient Temperature	-5~55℃										
Relatively Humidity	<85%										
Working Medium	Clean Air										
Voltage	AC110V/AC220V/DC24V										
Diaphragm Life Cycles	Over 1000k Cycles										
Orifice(mm)	φ20	φ20	φ20	φ25	φ25	φ35	φ40	φ50	φ62	φ76	φ100
Connection Port	G3/4"	G3/4"	G3/4"	G1"	G1"	G1 1/2"	G1 1/2"	G2"	G1 1/2"	G3"	φ100

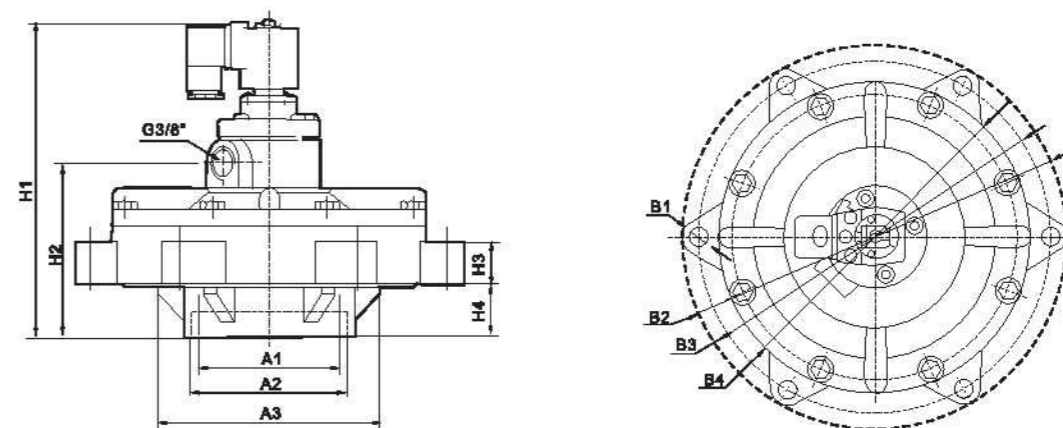
**Specification**

Model	XMF-Y-50S	XMF-Y-62S	XMF-Y-76S
Working Pressure	0.3~0.6MPa		
Ambient Temperature	-5~55℃		
Relatively Humidity	<85%		
Working Medium	Clean Air		
Voltage	AC110V/AC220V/DC24V		
Diaphragm Life Cycles	Over One Million Cycles		
Orifice(mm)	φ50	φ62	φ76
Connection Port	φ62	φ80	φ90

**Overall Dimensions**



**Overall Dimensions**



**Dimension Sheet**

Model	XMF-Z-20A	XMF-Z-20P	XMF-Z-20	XMF-Z-25	XMF-Z-25P	XMF-Z-35P	XMF-Z-40S	XMF-Z-50S	XMF-Z-62S	XMF-Z-76S	XMF-Z-100S
A	173	124	110	110	124	142	166	202	222	245	356.5
B	145	105	90.5	90.5	105	121	132	210	210	230.5	286.5
C	-	82.5	75	75	82.5	-	-	-	-	-	-
D	φ90	-	-	-	-	φ112	φ137	φ185	φ185	φ200	φ221

**Dimension Sheet**

Model	A1	A2	A3	B1	B2	B3	B4	H1	H2	H3	H4
XMF-Y-50S	φ84.5	φ78.5	φ118	6-φ11.5	φ200	φ180	φ159	187	100	25	31
XMF-Y-62S	φ80	φ93.5	φ145	6-φ11	φ226	φ204	φ185	197	107	34.5	35
XMF-Y-76S	φ90	φ99	φ141	6-φ11	φ248	φ227	φ200	205	113	27	34



### XMF Series Insert Pipe Type Pulse Valve



**Ordering Code**

**X** — **MF** — **25** — **DD** — **EX**

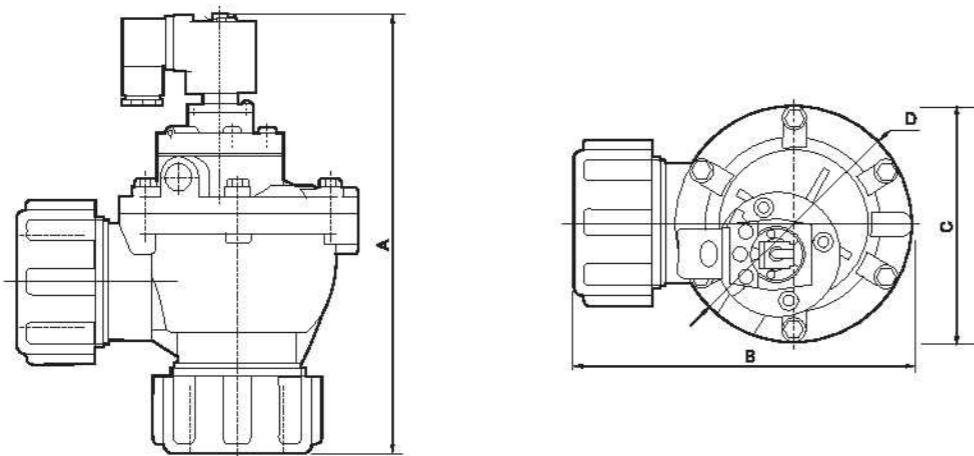
XKPC Product Pulse Jet Valve Orifice Insert Pipe Type Wiring Form  
Blank:Normal Type EX:Ex-proof Type

**Speciality**  
 Adopt international advanced technology  
 Used for dust remover  
 Key parts all made of imported materials  
 Pneumatic control type, solenoid control type, ex-proof solenoid control type for choose.  
 Inset pipe style, much easier to be mounted.

#### Specification

Model	XMF-25DD	XMF-45DD
Working Pressure	0.3~0.6MPa	
Ambient Temperature	-5~55°C	
Relatively Humidity	<85%	
Working Medium	Clean Air	
Voltage	AC110V/AC220V/DC24V	
Diaphragm Life Cycles	Over One Million Cycles	
Orifice(mm)	φ 25	φ 40
Connection Port	φ 35	φ 50

#### Overall Dimensions



#### Dimension Sheet

Model	A	B	C	D
XMF-25DD	189	131	82.5	-
XMF-45DD	237	179.5	-	φ 126

### XCP Series Plastic Actuator Bevel Valve



**Ordering Code**

**XCP** — **15** — □

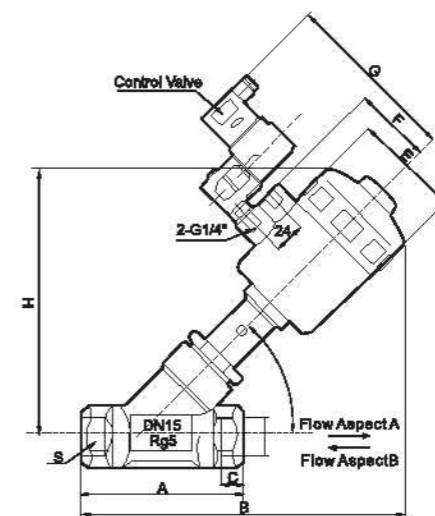
XCP Series Plastic Bevel Valve Port Size Type  
 15mm 20mm 25mm 32mm 40mm 50mm  
 SC:Single Action Normal Close DO:Double Action Normal Open

**Graphic Symbol**  
 Double-Acting Normally Closed Normally Open

#### Specification

Orifice Size	15	20	25	32	40	50
Port size	G1/2"	G3/4"	G1"	G1-1/4"	G1-1/2"	G2"
KV Value(m³/h)	4.2	8	19	27.5	42	55
Max. Working Pressure(Mpa)	0~1.6	0~1.1	0~1.1	0~1.5	0~1.25	0~1.0
Min. Pilot Pressure(Mpa)	0.39	0.39	0.42	0.5	0.44	0.4
Polyamide	50	50	63	63	63	80
Medium Temperature	-10~+180°C					
Flow Direction	A(Flow Direction Below The Seat) or B(Flow Direction above The Seat)					

#### Overall Dimensions



#### Dimension Sheet

Orifice Size (mm)	Port size	Actuator Size(φ mm)		B		φ E		F		G		H		L	S		
		Polyamide	Aluminum Alloy	Polyamide	Aluminum Alloy	Polyamide	Aluminum Alloy	Polyamide	Aluminum Alloy	Polyamide	Aluminum Alloy						
15	G1/2"	50	-	85	173	-	12	64	-	44	-	112	-	137	-	33	27
20	G3/4"	50	-	95	178	-	12	64	-	44	-	112	-	145	-	35	23
25	G1"	63	-	105	212	-	14	80	-	52	-	120	-	173	-	40	41
32	G1-1/4"	63	100	118	236	278	16	80	140	52	70	120	138	188	250	35	55
40	G1-1/2"	63	100	130	230	270	18	80	140	52	70	120	138	188	250	35	55
50	G2"	80	125	150	238	300	20	100	170	52	83	120	151	250	280	38	70





### HLP Series Pressure Controller



#### Descriptions

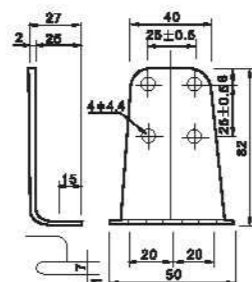
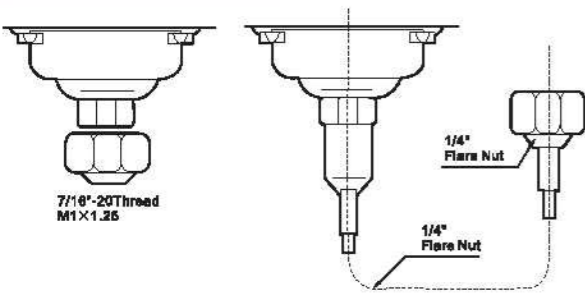
For use with fluorinated refrigerants as well as with a air and water.  
 (Allowable Fluid Temp.: -10°C~+110°C)  
 Various contact functions available,  
 With SPDT contact mechanism,  
 Renovated micro-switch structure ensures the reliable switch function,  
 Manual-controlled and no use of other instruments to have a function test,  
 Flexible mounting plate suits various kinds of application.  
 Our products can substitute for congeneric import products, such as  
 JOHNSON, DANFOSS, SAGINOMIYA, 3S, RANCO and so on

#### Specification

Model	Range(bar)		Differential(bar)		Factory Setting(bar)		Max. Bellows Press(bar)
	Min.	Max.	Min.	Max.	OFF	ON	
HLP503	-0.7	3	0.2	1.5	2	1	16.5
HLP506	-0.7	6	0.6	4	3	2	18.5
HLP506M	-0.7	6	Duplicate voltage disparity ≤ 1		3	Manual Reset	16.5
HLP110	1	10	1	3	6	5	16.5
HLP516	5	16	1	4	10	8	35
HLP520	5	24	2	5	16	13	35
HLP530D	5	30	5	10	20	15	35
HLP530	8	30	Fixed 3-5		20	15-17	35
HLP530M	8	30	Duplicate voltage disparity ≤ 4		20	Manual Reset	35

Model	Press Side	Range(bar)		Differential(bar)		Factory Setting(bar)		Max. Bellows Press(bar)
		Min.	Max.	Min.	Max.	OFF	ON	
HLP830	Low Side	-0.7	6	0.6	4	3	2	16.5
	High Side	8	30	Fixed 3-5		2	15	35
	Low Side	-0.7	6	0.6	4	3	2	16.5
HLP830HM	High Side	8	30	Duplicate voltage disparity ≤ 4		20	Manual Reset	35
	Low Side	-0.7	6	Duplicate voltage disparity ≤ 4		3	Manual Reset	16.5
HLP830HLM	High Side	8	30	Duplicate voltage disparity ≤ 4		20	Manual Reset	35

#### Way of Connection



#### Slight Moving Switch's Data

Specified Voltage(V)	Specified Electric Current(A)	
	A.C. 125	A.C. 125
Non-Inductive Current	48	12
Maximum Load	48	12
Twinking Electric Current	288	72



### Special Solenoid Valve

Model	Product	Specification	Model	Product	Specification
4VXC-08		Valve type: 5 port 2 way Orifice size: 25mm <sup>2</sup> (CV=1.40) Fluid Air (to be filtered by 40 μ filter element) Acting Inner guide type Pressure range: 0.25~1.0MPa Proof pressure: 1.2MPa Temperature: 5~50°C Voltage range: -10%~+10% Power consumption: AC: 5.5VA DC: 4.8W Insulation & Protection: F Class & IP65 Max frequency: 5 cycle/c Min activating time: 0.05 sec/stary	XR2 Valve Group		Fluid medium: Compress Air Motion pattern: Direct acting Type: Normal Close, (2/2, 3/2) Orifice: 1.2mm Connection port: G1/8" Working pressure: 0~0.8MPa Working temperature: -20°C~60°C Voltage Range: DC6~220V, AC24~220V, 50/60Hz±10% Material of Body: Aluminum alloy Seal: NBR
XCZ-110-10-A Small Valve Group		Fluid medium: Compress Air Pattern: Direct acting Type: Normal Close, Two-position Three-way Orifice: 0.7mm Connection port: M5 Working pressure: 0~0.8Mpa Working temperature: 0~60°C Voltage Range: DC12V~DC24V, ±10% Power: ≤3W Material of Body: Aluminum Seal: FPM	DL-6A DL-6B DL-6K DL Orifice Adjustable Steam Solenoid Valve		Medium: Water, Steam Pattern: Direct acting Type: Normal Close Orifice: 2.5mm(DL-6A, DL-6B) 0~2.5mm(DL-6K) Connection port: G1/4", G1/8" Working pressure: 0~0.8Mpa Ambient temperature: 0.1~180°C Voltage: AC24, AC110V, AC220-240V, 50/60Hz, ±10% Material of Body: Stainless Steel+Brass Seal: PTFE
Q22XD-2L Q23XD-2L		Port size: M10×1, G1/8" Use Pressure: 0.15 to 0.8Mpa Apply Temperature: -5°C~50°C	XC114 Medical Solenoid Valve		Fluid medium: Water, Gas Motion Pattern: Direct acting Type: Normal Close, Two-position Two-way Orifice: 1mm Connection port: M4, M5 (Female), or φ3 hose Working pressure: 0~0.8Mpa Working temperature: 0~90°C Voltage Range: AC110V, 220V, 50Hz, DC6-24V, ±10% Material of Body: Brass Seal: NBR, Si
F17 Petrol Solenoid Valve		Fluid medium: Petrol and solvents Motion Pattern: Direct acting Type: Normal Close, Two-position Two-way Orifice: φ 1.8mm, φ 3mm Connection port: φ 4 hose Working pressure: 0~0.35Mpa Working temperature: -40°C~80°C Voltage Range: DC12V DC24V Material of Body: POM Seal: VITON	3VKZF-15/10~25/20 3AKZF-15/10~25/20		Working Medium: Air Motion Pattern: Stop Type Aperture of Flow Rate: 3V: 16mm/25mm 3A: 16mm/25mm Port Size: G1/2" / G3/8", G1" / G3/4", Working pressure: 0~1.0MPa Max. Pressure Resistance: 1.5MPa Voltage Range: -10%~+10% Material of Body: Aluminum
XC 21106		Valve Type: 2/2 Guide Type Solenoid Valve, Normal Close Type Material of Valve Body: Brass Seal Material: EPDM Joint Pipe Bore: φ 6 Bore: 11 Fluid Temperature: -40°C~120°C Environment Temperature: -40°C~85°C	RSC-1 RSC-2		Medium: Water, Gas Medium Temperature: 0~100°C Environment Temperature: 0~40°C Action method: Direct drive Pressure: Normally close 0~8bar Body material: PP 1/8" black 1/4" white Sealing material: EPDM Heat resistance grade: class B 130°C Continuous Service: 100% Wire Length: 30cm(12")
SH-402 SH-403 SH-402S SH-403S		Working Medium: Air Working pressure Range: 0.15~0.9MPa Working temperature Range: 0~70°C Port Size: 1/4 PT, 3/8PT Position Number: Two-position Five-way Blank: Immobility Type S: Spring Reset Type	SF-402 SF-403 SF-402S SF-403S		Working Medium: Air Working pressure Range: 0.15~0.9MPa Working temperature Range: 0~70°C Port Size: 1/4 PT, 3/8PT Position Number: Two-position Five-way Blank: Immobility Type S: Spring Reset Type





### Solenoid Valve Accessories

Model	Product	Specification	Model	Product	Specification
XC601 3/2 XC602 2/2 (Armature)		Often used for 4V110 etc and small-sized special electromagnetism valves.	XC603 3/2 XC604 2/2 (Armature)		Often used for 4V210, 4V310, 4V410 etc valves.
XC605 3/2 XC606 2/2 (Armature)		Often used for matching small-sized 3/2 and 2/2 electromagnetism valves.	DIN 43650A (Connectors)		Distance:18mm Form:2+1 GND Protection Class:IP65(80629 Situation of IEC) Working Voltage:AC250V DC300V Nominal Current:10A Contact Resistance:≤5mΩ Max.Conductor Section:3×1.5mm <sup>2</sup> Fixing Screw:M3×25
DIN 43650B (Connectors)		Distance:11mm Form:2+1 GND Protection Class:IP65 (80629 Situation of IEC) Working Voltage:AC250V DC300V Nominal Current:10A Contact Resistance:≤5mΩ Max.Conductor Section:3×1.5mm <sup>2</sup> Fixing Screw:M3×30	DIN 43650C (Connectors)		Distance:9.4mm Form:2+1 GND Protection Class:IP65 (80629 Situation of IEC) Working Voltage:AC250V DC300V Nominal Current:10A Contact Resistance:≤5.5Ω Max.Conductor Section:3×0.75mm <sup>2</sup> Fixing Screw:M3×25
Coil		Coil aperture, Height: φ8×31 Applicable power and Voltage: AC 6VA 12V-220V DC 3W 6V-110V	Coil		Coil aperture, Height: φ9×29.5 Applicable power and Voltage: AC 6VA 12V-220V DC 3W 6V-110V
2W (UD) Series Coil UD-08		Coil Aperture, height: φ14×31 Applicable Power And Voltage: AC 28VA 24-380V DC 12 W 6-380V	2W (UD) Coil UD-15		Coil aperture, Height: φ16×37 Applicable power and Voltage: AC 18VA 24V-380V DC 16W 12V-380V
2W (UW) Series Coil		Coil Aperture, height: φ16×17 Applicable Power And Voltage: AC 28VA 24-380V DC 24 W 24-380V	2W (2L,US) Large Aperture Coil US-H		Coil Aperture, height: φ23×55 Applicable Power And Voltage: AC 28VA 24-380V DC 24 W 24-380V
2W(2L,US) Large Aperture Plastic Capsulation Coil		Coil Aperture, height: φ22×55 Applicable Power And Voltage: AC 28VA 24-380V DC 24 W 24-380V	AB410A		Coil Aperture, height: φ16×38 Applicable Power And Voltage: AC 28VA 24-380V DC 18 W 12-220V
PU Series Coil		Coil Aperture, height: φ14.5×42 Applicable Power And Voltage: AC 15VA 24-380V DC 12.5 W 12-110V	VX Series Coil		Coil aperture, Height: φ11×35 Applicable power and Voltage: AC 13VA 12V-380V DC 8W 6V-380V



### Solenoid Valve Accessories

Model	Product	Specification	Model	Product	Specification
2V,2P Series Coil		Coil Aperture, height: φ8×29.5 Applicable Power And Voltage: AC 8VA 12-220V DC 6 W 6V-110V	Coil		Coil aperture: φ8 Applicable power and Voltage: AC 8VA 12V-220V DC 6W 6V-110V
PU220 Series Diaphragm		PU220-03A PU220-04A PU220-06A PU220-08A	PU225 Series Diaphragm		PU225-03A PU225-04A PU225-06A PU225-08A
2W Series Diaphragm		2W-160-15 2W-200-20 2W-250-25 2W-350-35 2W-400-40 2W-500-50	2L(US) Series Piston		2L-170-10/15/20 2L-200-25 2L-350-35/40 2L-500-50

### Explosion-proof Coil & Timer

Model	Product	Overall Dimension	Specification
Product No. XC280 Product Type 0980,0981			Normal Voltage: AC220V, AC110V, AV24V, DC24V, DV12V Other Voltage can be customized Normal Power: AC5.5VA, DC5W Other Power can be customized Explosion-proof level: Exm I / II T4 Connection Type: Connector Type Applicability: EX-proof Solenoid Valve
Product No. XC281 Product Type 1380,1381		 Supply voltage	Normal Voltage: AC220V, AC110V, AV24V, DC24V, DV12V Other Voltage can be customized Normal Power: AC5.5VA, DC5W Other Power can be customized Explosion-proof level: Exm I / II T4 Connection Type: Connector Type Cable Applicability: EX-proof Solenoid Valve
Valver Timer-1			Supply voltage: 24...240V AC/DC-50Hz/60Hz for "CE" marked Timer Absorption current: 4 mA max Operating temperature: -10°C+50°C Class protection: IP65-EN60529 Switch holding voltage: 400V Max Switch capacity: 1A Inrush current: 10A for 10ms Duty cycle: 100% ED Switch Life: 3×10 <sup>6</sup> Time ON: Form 0.5 to 10s. Time OFF: Form 0.5 to 45s. Indicators: Yellow LED Test: Test Termination: DIN43650A