

	DNC Series Standard Cylinder	149
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	GPM Series Standard Cylinder	167
	QGB Series Standard Cylinder	169
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	DAL Series Mini Cylinder	186
	CG1 Series Round Line Cylinder	187
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	CQ Series Thin Cylinder	198
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	KZ Series Air Oil Pressure transition Cylinder	214
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VDMA/ISO6431 Cylinder

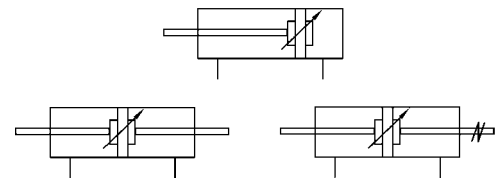
Characteristic:

- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of DNC series, pull-rod is hidden inside.



Specification:

Type	32	40	50	63	80	100	125
Motion	Double acting						
Series	DNC, DNCD						
Fluid	air						
Operating pressure range (Mpa)	0.1~1						
Operating speed (mm/sec)	50~500						
Ambient temperature (°C)	-10~70						
Cushion	Adjustable cushion at both ends						
Port size (G)	1/8"	1/4"	3/8"	1/2"			



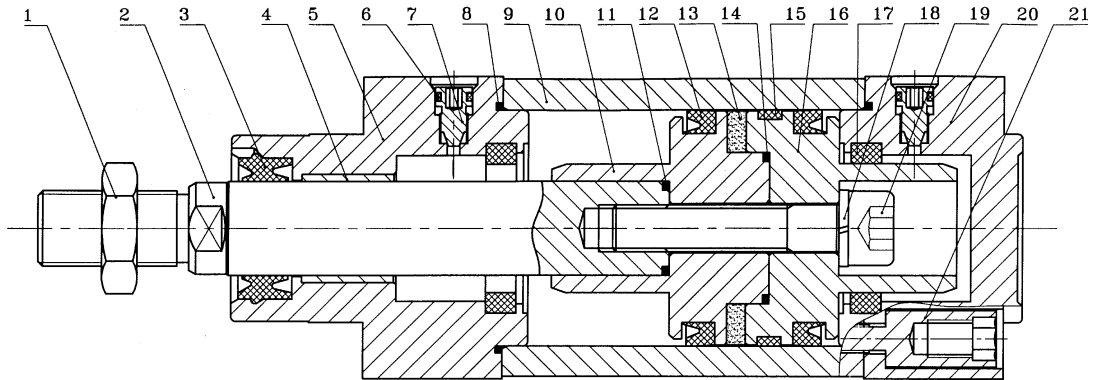
How to order:

DNC	50	×	100	FA	S	2
Series	Bore		stroke	Mounting type	with magnet	Sensor
DNC Standard Cylinder DNCD Double axial Cylinder	φ 32 φ 40 φ 50 φ 63 φ 80 φ 100 φ 125			Blank(Standard)	with magnet Switch magnet Blank without magnet	1: 1pcs 2: 2pcs
				FA CB FB LB CA TC		

Stroke:

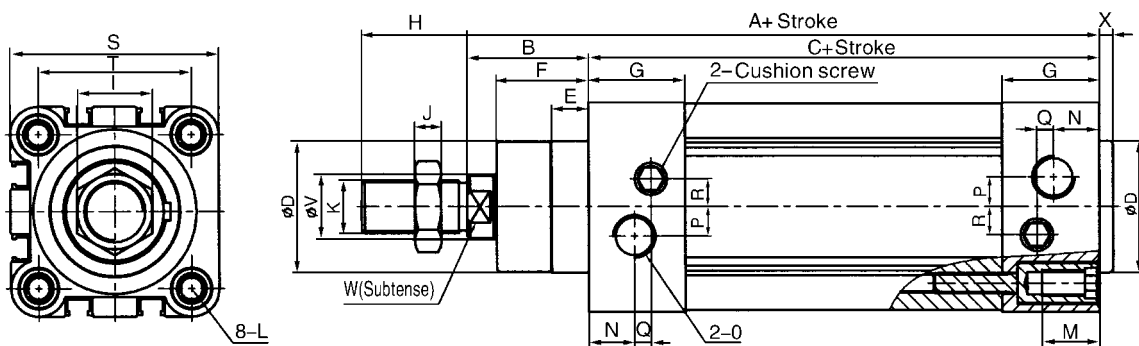
bore \ stroke	25	50	75	100	125	150	175	200	250	300	350	400	450	500	Max.stroke
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1000
40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1200
50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1200
63	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1500
80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1500
100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1500
125	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1500

Inner structure drawing:



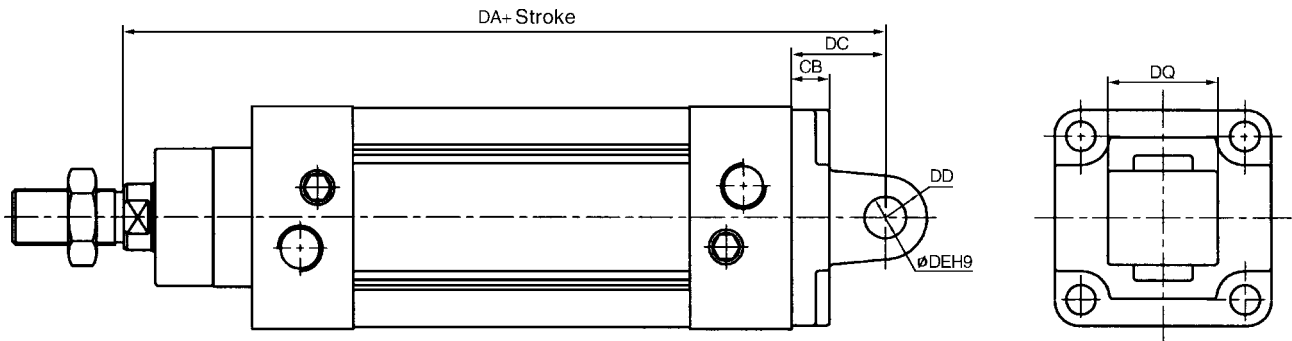
1	hexagon nut	7	cushion adjusting bolt	13	magnet	19	inner hexagon bolt
2	piston ring	8	O-ring	14	O-ring	20	rear cover
3	compageseal	9	tube	15	guard seals	21	cover nut
4	oiled bearing	10	piston 1	16	piston 2		
5	front cover	11	O ring	17	compageseal		
6	O-ring	12	Y seal	18	spring washer		

DNC Series

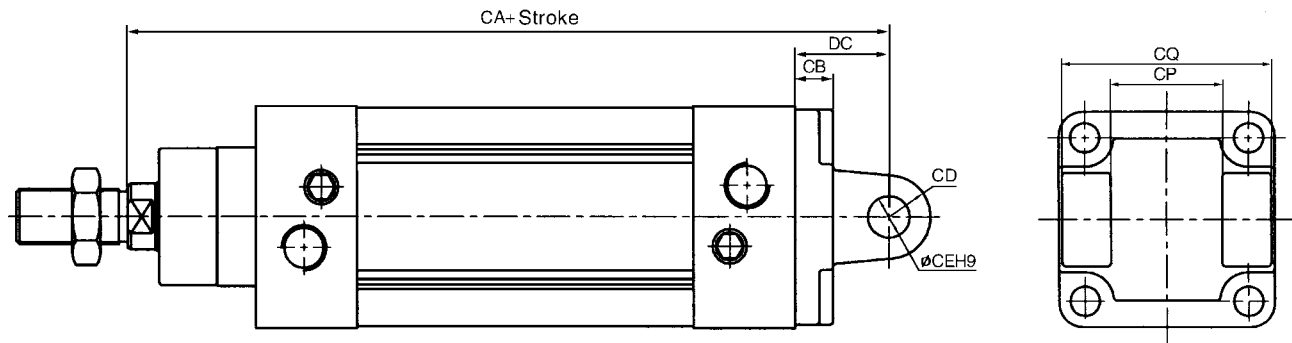


stroke \ Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	18	25	22	17	6	M10x1.25	M6	16	14	G1/8	6	3	5	45	32.5	12	10	4
40	135	30	105	35	10	21.5	30	24	17	7	M12x1.25	M6	16	14	G1/4	6	3	6	54	38	16	13	4
50	143	37	105	40	12	28	29.5	32	23	8	M16x1.5	M8	17	14	G1/4	9	5	8	65	46.5	20	17	4
63	156	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	17	17	G3/8	11	6	10	74	56.5	20	17	4
80	174	46	128	45	16	34.5	36	40	26	10	M20x1.5	M10	17	17	G3/8	12	10	10	93	72	25	22	4
100	189	51	138	55	16	38	40	40	26	10	M20x1.5	M10	17	19	G1/2	12	10	10	110	89	25	22	4
125	225	65	160	60	20	46	45.5	54	38	11	M27x2	M12	22	19	G1/2	13	14	10	135	110	32	27	6

CA–Single–ear mounting type

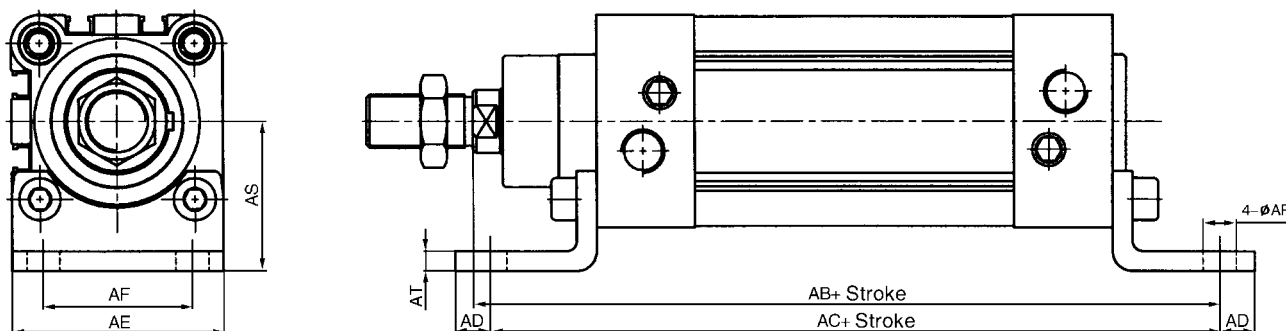


CB–Double–ear mounting type

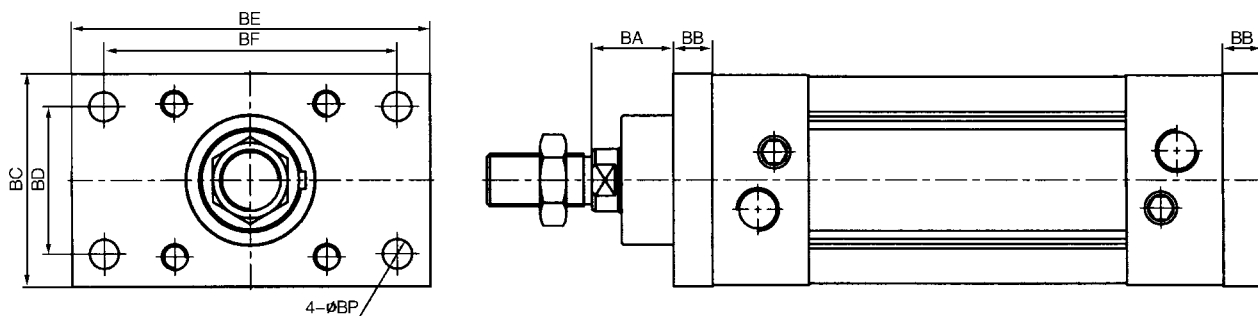


Bore \ stroke	DA	DC	CB	DD	ϕ DE	DQ	CA	CC	CB	CD	ϕ CE	CP	CQ
32	142	22	9	10	10	26	142	22	9	10	10	32	44.5
40	160	25	9	12	12	28	160	25	9	12	12	40	51.5
50	170	27	11	12	12	32	170	27	11	12	12	50	60
63	190	32	11	16	16	40	190	32	11	16	16	63	70
80	210	36	14	16	16	50	210	36	14	16	16	80	90
100	230	41	14	20	20	60	230	41	14	20	20	100	106
125	270	50	20	30	30	70	275	50	20	30	30	125	130

LB-Foot bracket mounting type



FA, FB-Front&rear flange mounting type



stroke \ Bore	AB	AC	AD	AE	AF	AP	AS	AT	BA	BB	BC	BD	BE	BF	BP
32	144	142	6.5	45	32	7	32	5	16	10	50	32	80	64	7
40	163	161	9	54	36	10	36	5	20	10	55	36	90	72	9
50	175	170	10.5	64	45	10	45	6	25	12	65	45	110	90	9
63	190	185	12.5	75	50	10	50	6	25	12	75	50	125	100	9
80	215	210	15	93	63	12	63	6	30	16	100	63	154	126	12
100	230	220	17.5	110	75	14.5	71	6	35	16	120	75	186	150	14
125	270	250	22	131	90	16.5	90	8	45	20	150	90	220	180	16

VDMA/ISO6431 Cylinder

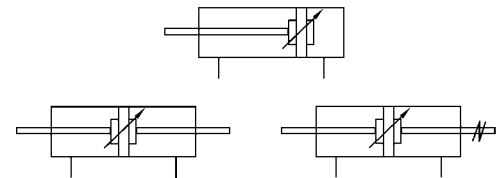
Characteristic:

- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of DNGU series, pull-rod is hidden inside.



Specification:

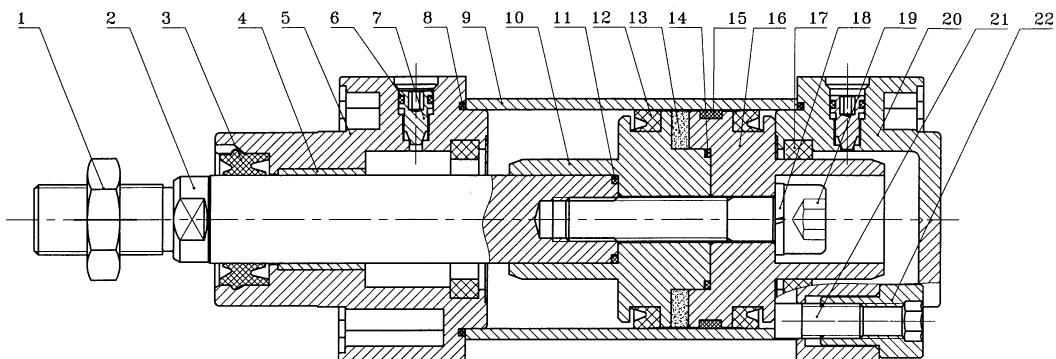
Type	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	DNG, DNGD, DNGU							
Fluid	Air							
Operating pressure range (Mpa)	0.1~1							
Operating speed (mm/sec)	50~500							
Ambient temperature (°C)	-10~70							
Cushion	Adjustable cushion at both ends							
Port size (G)	1/8"	1/4"		3/8"			1/2"	



How to order:

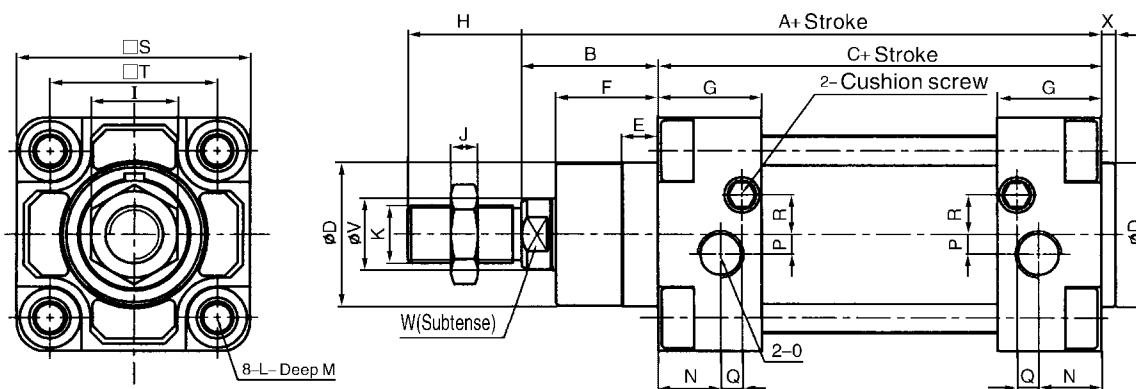
DNG	50	×	100	FA	S	2
Series	Bore		stroke	Mounting type	with magnet	Sensor
DNG Standard Cylinder	φ 32			Blank(Standard)	Switch magnet	1: 1pcs
DNGD Double axial Cylinder	φ 40			FA	Blank without magnet	2: 2pcs
DNGU Tie-rod hidden Cylinder	φ 50			FB		
	φ 63			CA		
	φ 80			CB		
	φ 100			LB		
	φ 125			TC		
	φ 160					

Inner structure drawing:



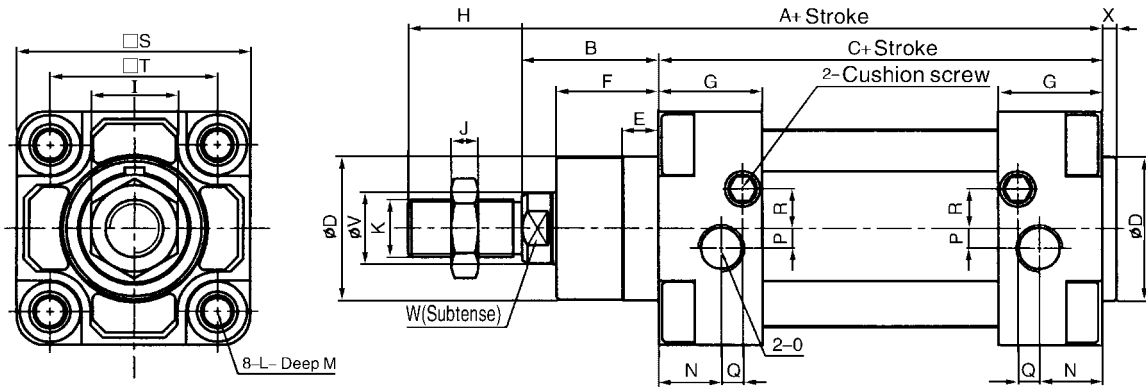
1	hexagon nut	7	cushion adjusting bolt	13	magnet	19	inner hexagon bolt
2	piston ring	8	O-ring	14	O-ring	20	rear cover
3	compageseal	9	tube	15	guard seals	21	pull-rod
4	oiled bearing	10	piston 1	16	piston 2	22	pull-rod nut
5	front cover	11	O ring	17	compages seal		
6	O-ring	12	Y seal	18	spring washer		

DNG Series



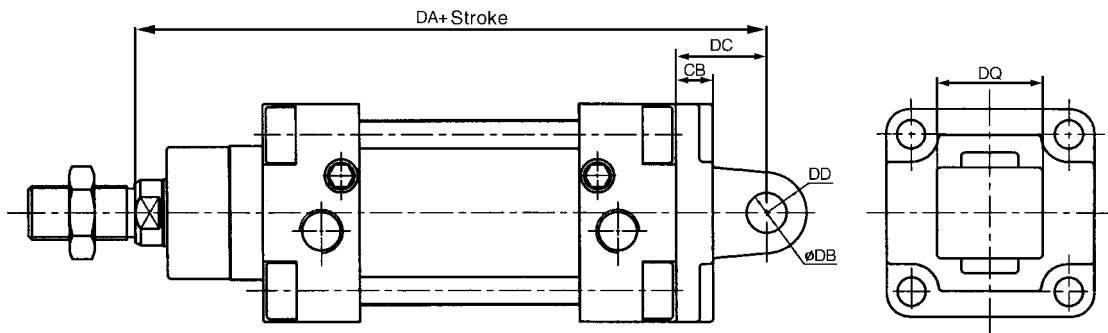
stroke \ Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	19	25	22	17	6	M10x1.25	M6	16	9	G1/8	2	7	7	50	32.5	12	10	4
40	135	30	105	35	10	21.5	26	24	17	7	M12x1.25	M6	12	11	G1/4	2	5	9	55	38	16	13	4
50	142	38	104	40	12	28.5	29	32	23	8	M16x1.5	M8	14.5	17	G1/4	5	2	11	65	46.5	20	17	4
63	158	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	18	18	G3/8	6	5	14	75	56.5	20	17	4
80	174	46	128	45	16	34.5	35.5	40	26	10	M20x1.5	M10	19	18	G3/8	7	8	15	93	72	25	22	4
100	189	51	138	55	16	37.5	38.5	40	26	10	M20x1.5	M10	19	18	G1/2	8	11	14	110	89	25	22	4
125	225	65	160	60	20	44.5	46.5	54	38	11	M27x2	M12	25	18	G1/2	8	14	13	138	110	32	27	6
160	260	80	160	65	20	48	50	72	50	13	M36x2	M16	25	24	G3/4	12	14	22	180	140	40	36	6

DNGU Series

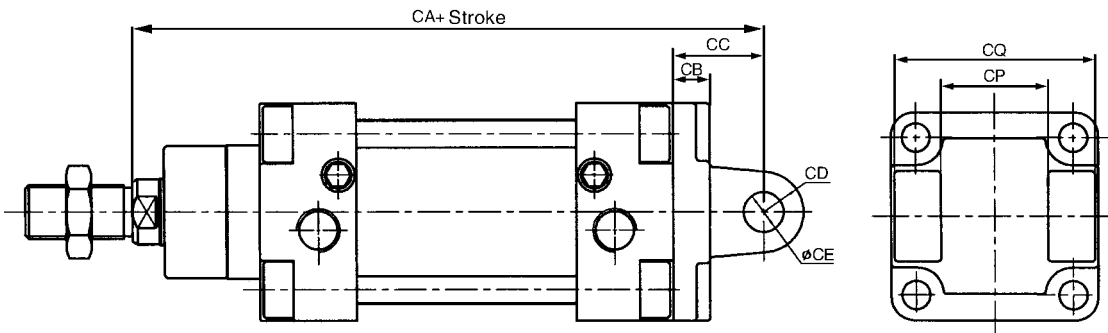


Bore \ stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	19	26	22	17	6	M10x1.25	M6	16	9	G1/8	2	7	7	50	32.5	12	10	4
40	135	30	105	35	10	21.5	26	24	17	7	M12x1.25	M6	16	11	G1/4	2	5	9	55	38	16	13	4
50	142	38	104	40	12	28.5	29	32	23	8	M16x1.5	M8	20	17	G1/4	5	2	11	65	46.5	20	17	4
63	158	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	20	18	G3/8	6	5	14	75	56.5	20	17	4
80	174	46	128	45	16	34.5	35.5	40	26	10	M20x1.5	M10	25	18	G3/8	7	8	15	93	72	25	22	4
100	189	51	138	55	16	37.5	38.5	40	26	10	M20x1.5	M10	28	18	G1/2	8	11	14	110	89	25	22	4
125	225	65	160	60	20	44.5	46.5	54	38	11	M27x2	M12	30	18	G1/2	8	14	13	138	110	32	27	6
160	260	80	160	65	20	48	50	72	50	13	M36x2	M16	35	24	G3/4	12	14	22	180	140	40	36	6

CA—Single—ear mounting type

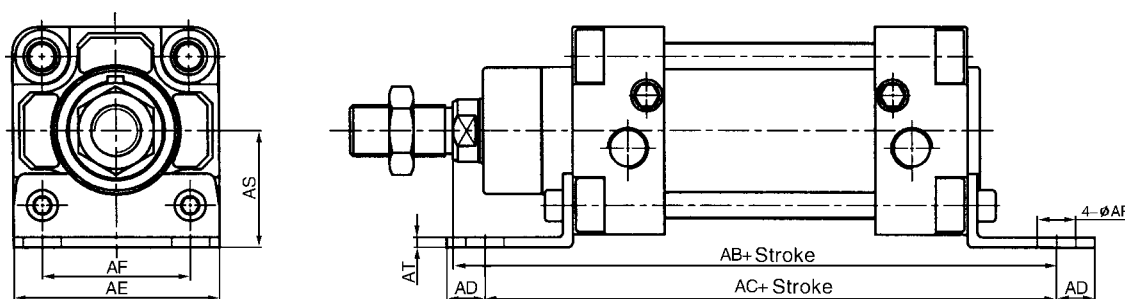


CB — Double—ear mounting type

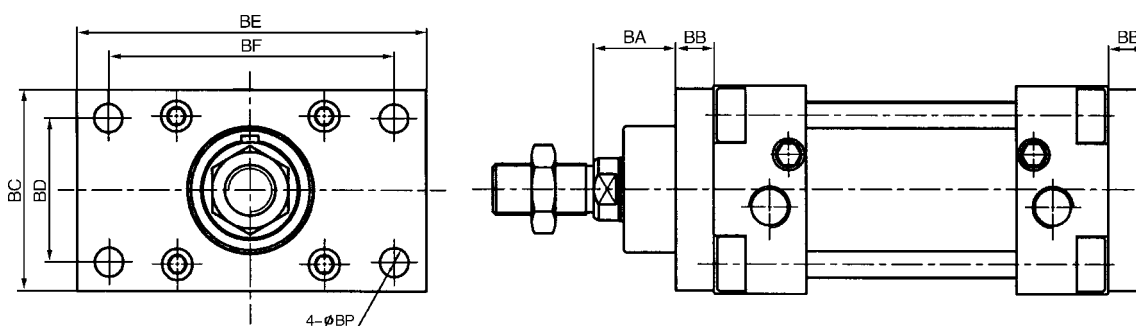


stroke Bore	DA	DC	OB	DD	φ DE	DQ	CA	CC	CB	CD	φ CE	CP	CQ
32	142	22	9	10	10	26	142	22	9	10	10	26	44.5
40	160	25	9	12	12	28	160	25	9	12	12	28	51.5
50	169	27	11	12	12	32	169	27	11	12	12	32	60
63	190	32	11	16	16	40	190	32	11	16	16	40	70
80	210	36	14	16	16	50	210	36	14	16	16	50	90
100	230	41	14	20	20	60	230	41	14	20	20	60	106
125	275	50	20	25	25	70	275	50	20	25	25	70	130
160	315	55	20	25	30	90	315	55	20	25	30	90	175

LB — Foot bracket mounting type



FA, FB—Front and rear flange mounting type



stroke Bore	AB	AC	AD	AE	AF	AP	AS	AT	BA	BB	BC	BD	BE	BF	BP
32	144	142	8	48	32	7	32	5	16	10	50	32	80	64	7
40	163	161	12	53	36	10	36	5	20	10	55	36	90	72	9
50	175	170	13	63	45	10	45	6	26	12	65	45	110	90	9
63	190	185	13	73	50	10	50	6	25	12	75	50	125	100	9
80	215	210	19	93	63	12	63	6	30	16	93	63	154	126	12
100	230	220	19	110	75	14.5	71	6	35	16	110	75	186	150	14
125	270	250	20	138	90	16.5	90	8	45	20	138	90	220	180	16
160	320	300	15	184	115	18.5	115	9	60	20	180	115	280	230	18

Standard Cylinder

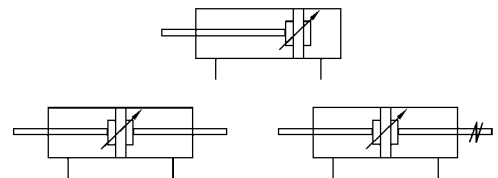
Characteristic:

- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of SC series, pull-rod is hidden inside.



Specification:

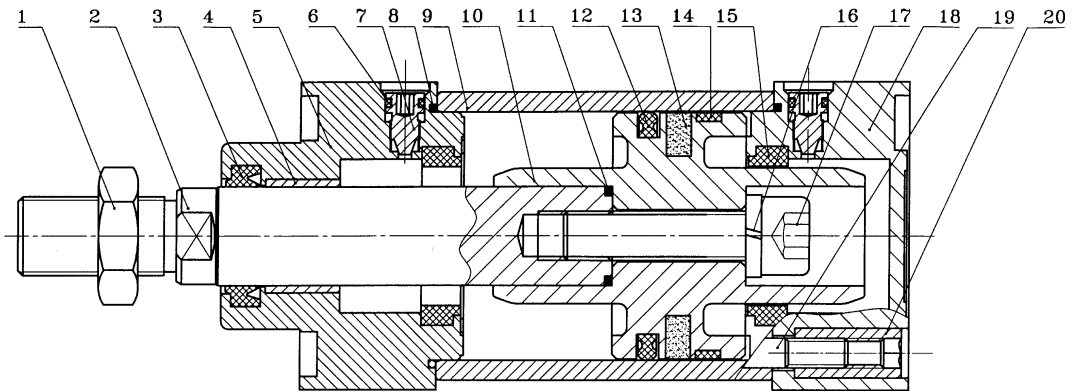
Mode	32	40	50	63	80	100	125	160	200
Motion	Double acting								
Series	SC, SCD, SCJ, SU								
Fluid	Air								
Operating pressure range (Mpa)	0.1~1								
Operating speed mm/sec	50~500								
Ambient temperature ℃	-10~70℃								
Cushion	adjustable cushion at both ends								
Port size	1/8"	1/4"	3/8"	1/2"					



How to order:

SC	50 × 100	FA	S	2																				
series	bore	mounting type	with magnet	Sensor																				
SC standard cylinder SC double axial cylinder SCJ stroke adjustable cylinder SU pull-rod hidden cylinder	<table border="1"> <tr><td>φ 32</td><td>φ 100</td></tr> <tr><td>φ 40</td><td>φ 125</td></tr> <tr><td>φ 50</td><td>φ 160</td></tr> <tr><td>φ 63</td><td>φ 200</td></tr> <tr><td>φ 80</td><td></td></tr> </table>	φ 32	φ 100	φ 40	φ 125	φ 50	φ 160	φ 63	φ 200	φ 80		<table border="1"> <tr><td>blank(standard)</td><td></td></tr> <tr><td>FA</td><td>CB </td></tr> <tr><td>FB </td><td>LB </td></tr> <tr><td>CA </td><td>TC </td></tr> </table>	blank(standard)		FA	CB	FB	LB	CA	TC	S: with magnet blank: without magnet	<table border="1"> <tr><td>1:1</td></tr> <tr><td>2:2</td></tr> </table>	1:1	2:2
φ 32	φ 100																							
φ 40	φ 125																							
φ 50	φ 160																							
φ 63	φ 200																							
φ 80																								
blank(standard)																								
FA	CB																							
FB	LB																							
CA	TC																							
1:1																								
2:2																								

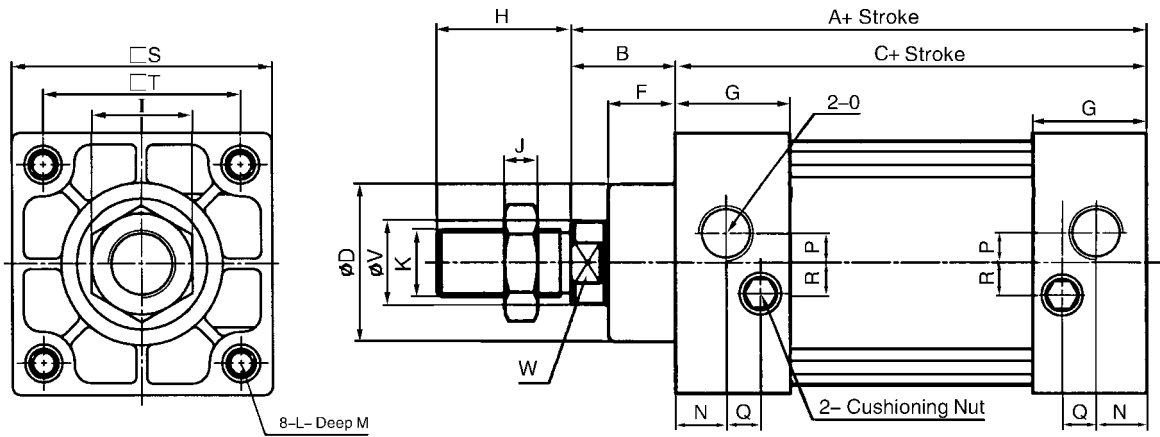
Inner structure drawing:



1	hexagon nut	6	O -ring	11	O -ring	16	spring washer
2	piston ring	7	cushion adjusting bolt	12	C -ring	17	inner hexagon bolt
3	compagesseal	8	O-ring	13	magnet	18	rear cover
4	oiled bearing	9	tube	14	guard seals	19	pull-rod
5	front cover	10	piston	15	compagesseal	20	pull-rod nut

Dimension:

■ ϕ 32~ ϕ 200

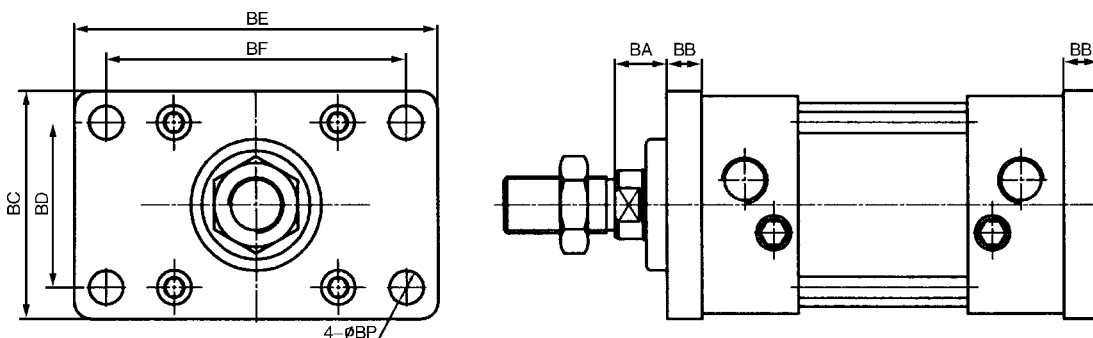


bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	171	47	124	56	32	32	45	38	11	M27 × 2	M12
160	195	50	145	64	32	40	50	50	13	M36 × 2	M16
200	202	54	148	66	35	41	60	50	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22
125	15	17	G1/2"	11	6	11	140	110	32	27
160	18	24	G1/2"	11	5	12	178	140	40	36
200	18	24	G1/2"	12	6	11	220	175	40	36

FA、FB Dimension:

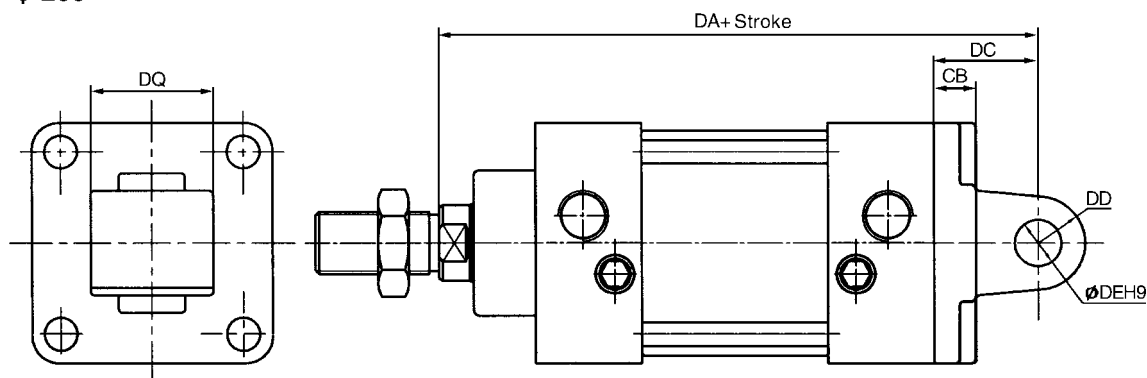
■ ϕ 32~ ϕ 200



bore/stroke	BA	BB	BC	BD	BE	BF	BP
32	15	10	48	33	73	58	6.5
40	15	10	52	36	83	70	6.5
50	14	11	65	47	104	86	6.5
63	15	11	75	56	117	98	9
80	19	16	94	70	143	119	11
100	19	16	115	84	162	138	11
125	27	20	140	90	215	180	16
160	30	20	180	115	270	230	18
200	29	25	220	135	315	270	22

CA Dimension:

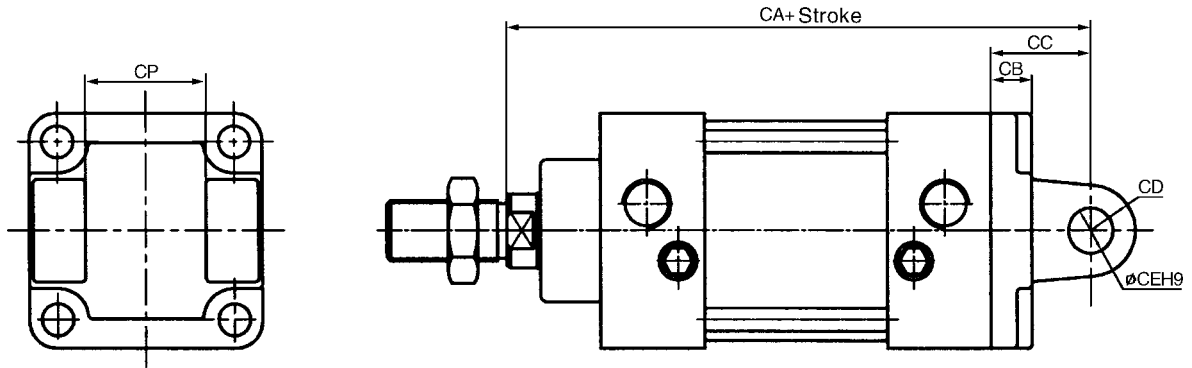
■ ϕ 32~ ϕ 200



bore/stroke	DA	DC	CB	DD	ϕ DE	DQ
32	140	22	9	10	10	26
40	143	25	9	12	12	28
50	145	27	11	12	12	32
63	153	32	11	16	16	40
80	179	36	14	16	16	50
100	189	41	14	20	20	60
125	224	53	20	25	25	70
160	252	57	20	30	30	90
200	262	60	25	30	30	90

CB Dimension:

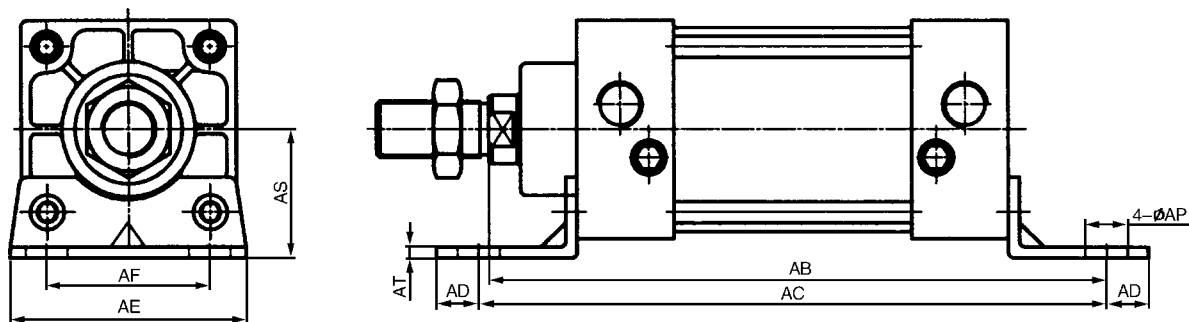
■ ϕ 32~ ϕ 200



bore/stroke	CA	CC	CB	CD	ϕ CE	CP
32	140	22	9	10	10	26
40	143	25	9	12	12	28
50	145	27	11	12	12	32
63	153	32	11	16	16	40
80	179	36	14	16	16	50
100	189	41	14	20	20	60
125	221	50	20	25	25	70
160	248	53	20	30	30	90
200	264	62	25	30	30	90

LB Dimension:

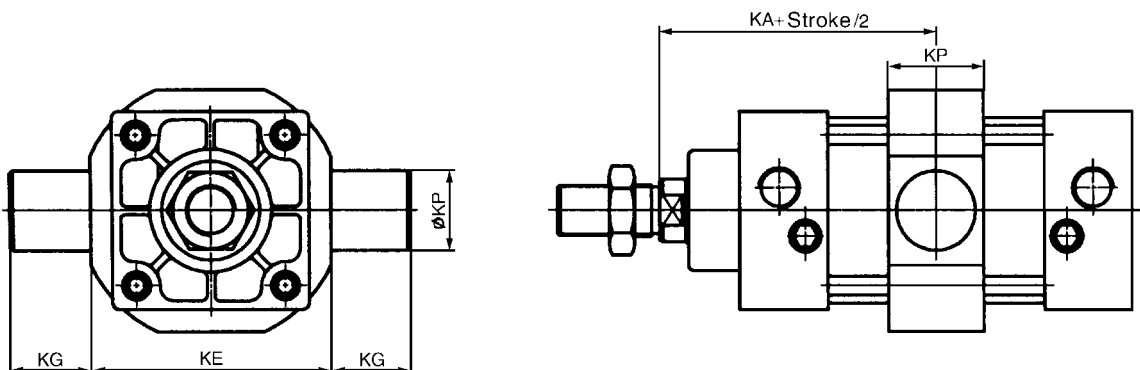
■ ϕ 32~ ϕ 200



bore/stroke	AB	AC	AD	AE	AF	AS	AT	AP
32	138.5	134	9.5	50	33	28	3	9
40	141.5	140	14.5	57	36	30	3	12
50	146	149	12	68	47	36.5	3	12
63	153	158	13	80	56	41	3	12
80	172.5	167	16	97	70	49	4	14
100	178	173	16	112	84	57	4	14
125	206	194	25	140	110	90	5	16
160	230.5	216	25	178	140	115	5	18
200	265.5	275	30	220	175	135	6	22

TC Dimension:

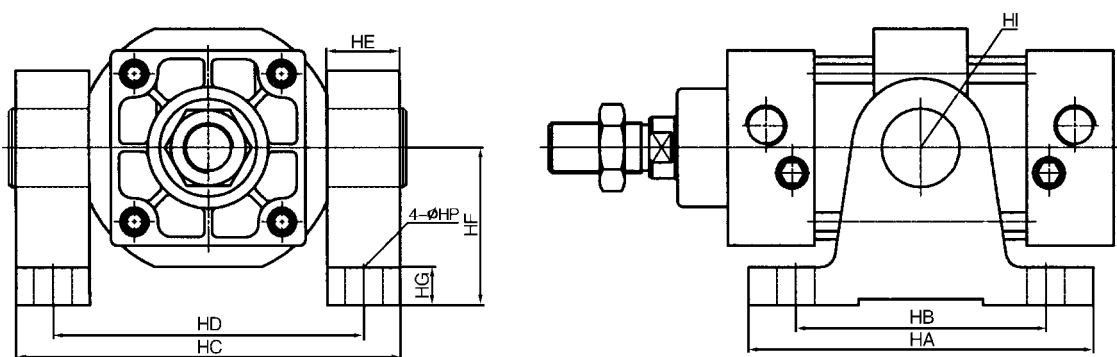
■ ϕ 32~ ϕ 200



bore/stroke	KE	KG	KP	KA
32	53	12	12	71.5
40	63	25	25	71.5
50	76	25	25	71.5
63	89	25	25	73
80	114	27	25	89
100	133	25	25	92
125	165	25	30	109
160	207	29	32	120
200	243	36	36	130

TC Foot mounting type Dimension:

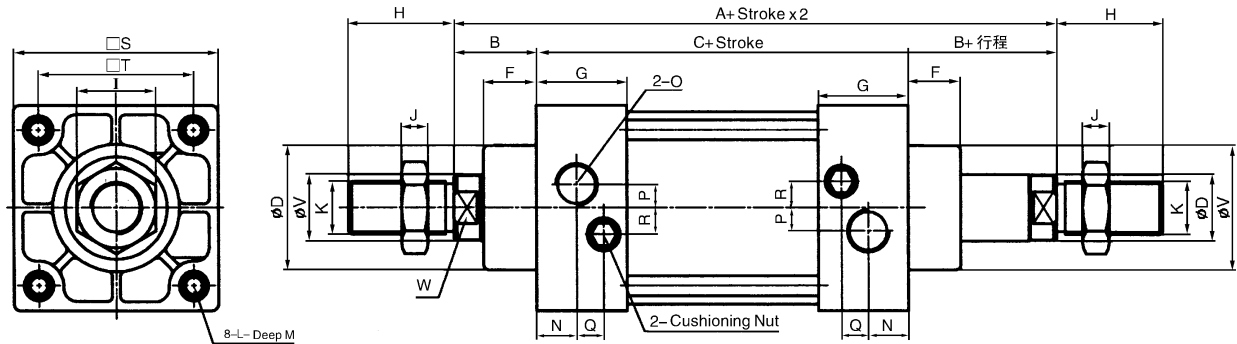
■ ϕ 40~ ϕ 100



bore/stroke	HA	HB	HC	HD	HE	HF	HG	HI	HP
40	110	80	109	86	23	50	12	22	12
50	110	80	122	99	23	50	12	22	12
63	110	80	134	111	23	50	12	22	12
80	120	80	160	137	23	70	14	22	14
100	120	80	178	155	23	70	14	22	14

Standard Dimension:

■ ϕ 32~ ϕ 200

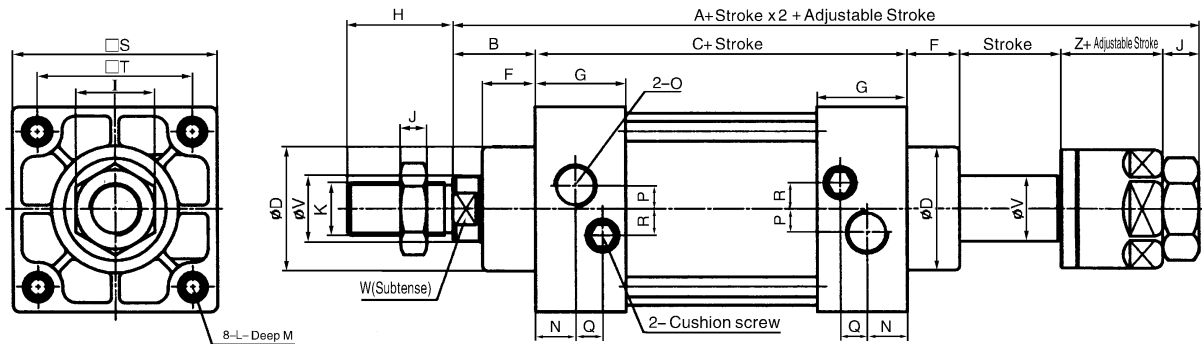


bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	143	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	143	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	143	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	147	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	178	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	183	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	218	47	124	56	32	32	45	38	11	M27 × 2	M12
160	245	50	145	64	32	40	50	50	13	M36 × 2	M16
200	256	54	148	66	35	41	60	50	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22
125	15	17	G1/2"	11	6	11	140	110	32	27
160	18	24	G1/2"	11	5	12	178	140	40	36
200	18	24	G1/2"	12	6	11	220	175	40	36

Standard Dimension:

■ $\phi 32 \sim \phi 1200$



bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	160	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	161	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	165	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	168	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	203	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	208	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	249	47	124	56	32	32	45	38	11	M27 × 2	M12
160	280	50	145	64	32	40	50	50	13	M36 × 2	M16
200	290	54	148	66	35	41	60	50	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W	Z
32	13	12	G1/8"	6	8	6	45.5	33	12	10	21
40	13	12	G1/4"	6	8	7	50	37	16	13	21
50	13	12	G1/4"	7	8	8	62	47	20	17	23
63	13	14	G3/8"	7	8	8	75	56	20	17	23
80	14	16	G3/8"	10	10	14	94	70	25	22	29
100	16	16	G1/2"	10	10	11	112	84	25	22	29
125	15	17	G1/2"	11	6	11	140	110	32	27	35
160	18	24	G1/2"	11	5	12	178	140	40	36	40
200	18	24	G1/2"	12	6	11	220	175	40	36	40

Standard Cylinder

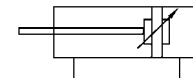
Characteristic:

- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision. Quality meet international standard.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

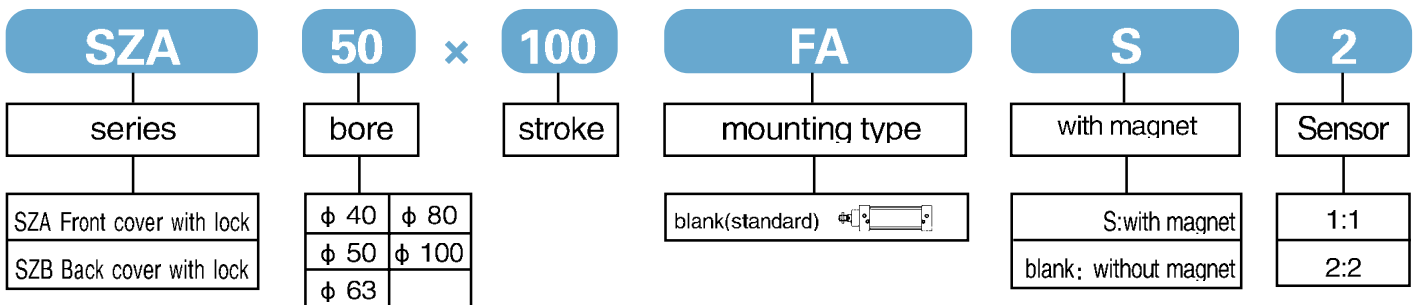


Specification:

Mode	40	50	63	80	100
Motion	Double acting				
Series	SZA, SZB				
Fluid	Air				
Operating pressure range (Mpa)	0.1~1				
Operating speed mm/sec	50~500				
Ambient temperature °C	-10~70°C				
Cushion	adjustable cushion at both ends				
Port size	1/4"		3/8"		1/2"

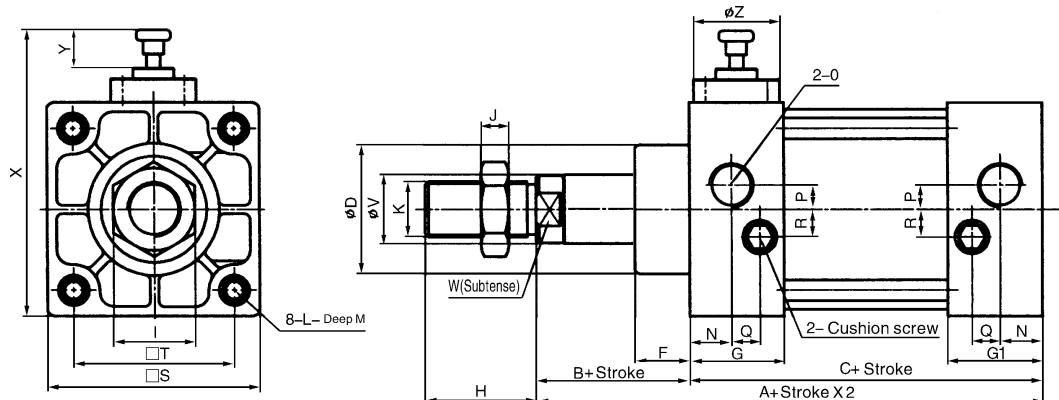


How to order:



SZA Dimension:

■ φ 40~ φ 100

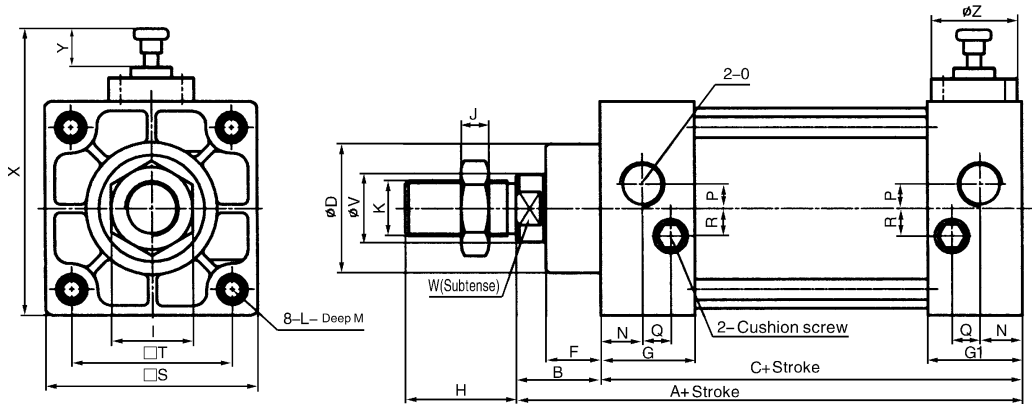


bore/stroke	A	B	C	D	F	G	G1	H	I	J	K	L
40	118	25	93	32	15	30	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	30	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	31.5	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	39	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	39	33	40	26	10	M20 × 1.5	M10

bore/stroke	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4"	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4"	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8"	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8"	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2"	10	10	11	112	84	25	22	134	8	33

SZB Dimension:

■ φ 40~ φ 100



bore/stroke	A	B	C	D	F	G	G1	H	I	J	K	L
40	118	25	93	32	15	30	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	30	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	31.5	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	39	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	39	33	40	26	10	M20 × 1.5	M10

bore/stroke	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4"	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4"	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8"	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8"	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2"	10	10	11	112	84	25	22	134	8	33

Standard Cylinder

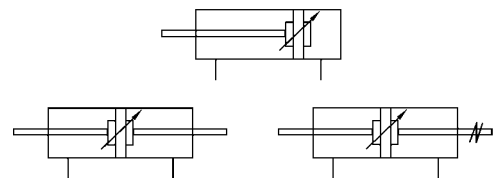
ISO International standard aluminium alloy cylinder:

- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision. Quality meet international standard.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

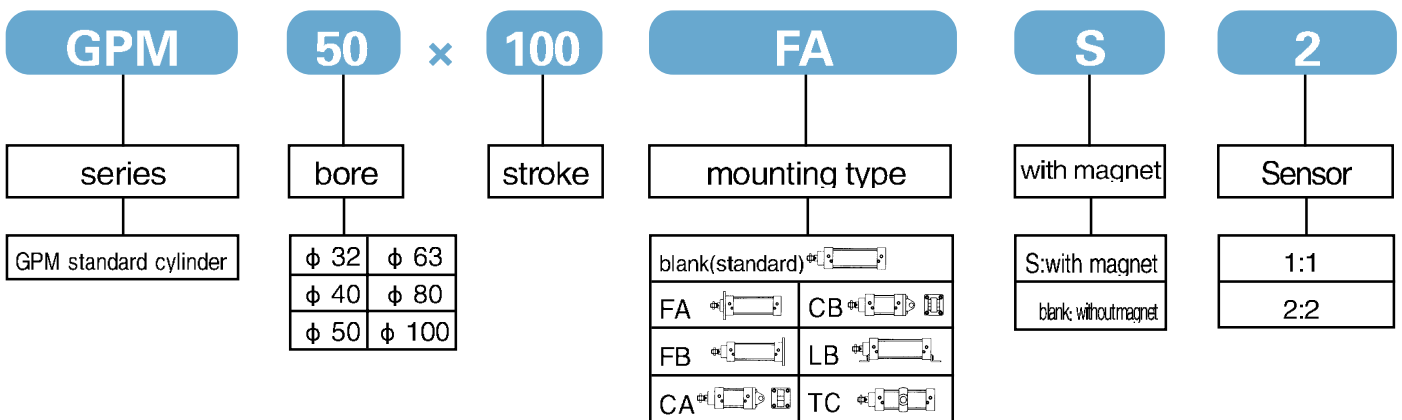


Specification:

Mode	32	40	50	63	80	100
Motion	Double acting					
Series	GPM					
Fluid	Air					
Operating pressure range(Mpa)	0.1~1					
Operating speed mm/sec	50~500					
Ambient temperature °C	-10~70°C					
Cushion	adjustable cushion at both ends					
Port size	1/8"	1/4"	3/8"	1/2"		

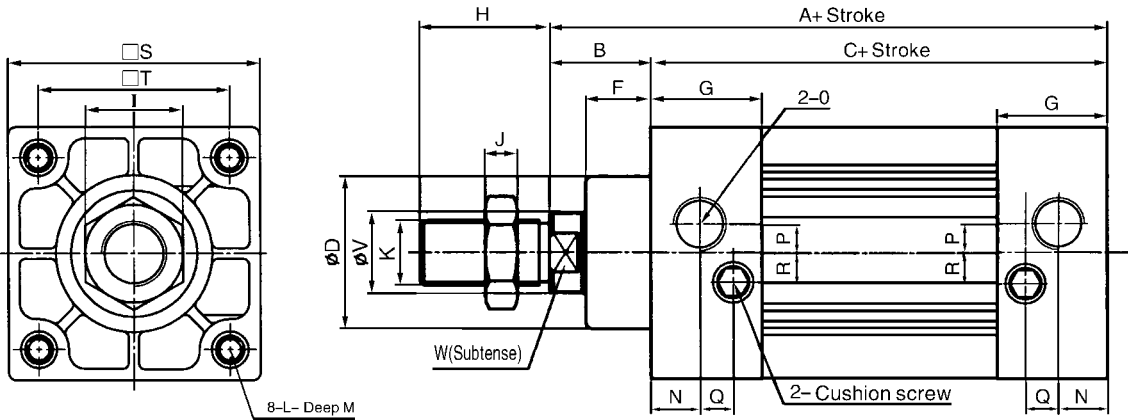


How to order:



Standard Dimension:

■ ϕ 32~ ϕ 100



bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	33	40	26	10	M20 × 1.5	M10

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8"	6	8	6	45.5	33	12	10
40	13	12	G1/4"	6	8	7	50	37	16	13
50	13	12	G1/4"	7	8	8	62	47	20	17
63	13	14	G3/8"	7	8	8	75	56	20	17
80	14	16	G3/8"	10	10	14	94	70	25	22
100	16	16	G1/2"	10	10	11	112	84	25	22

Standard Cylinder

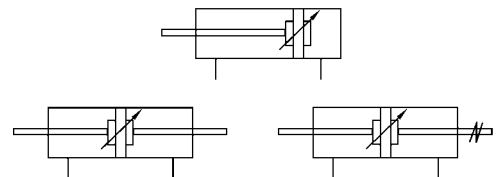
Characteristic:

- Finished by aluminum alloy die-casting, CNC mechanically processed with high precision. Quality meet international standard.
- Aluminum tube is imported, stainless forever with friction & corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

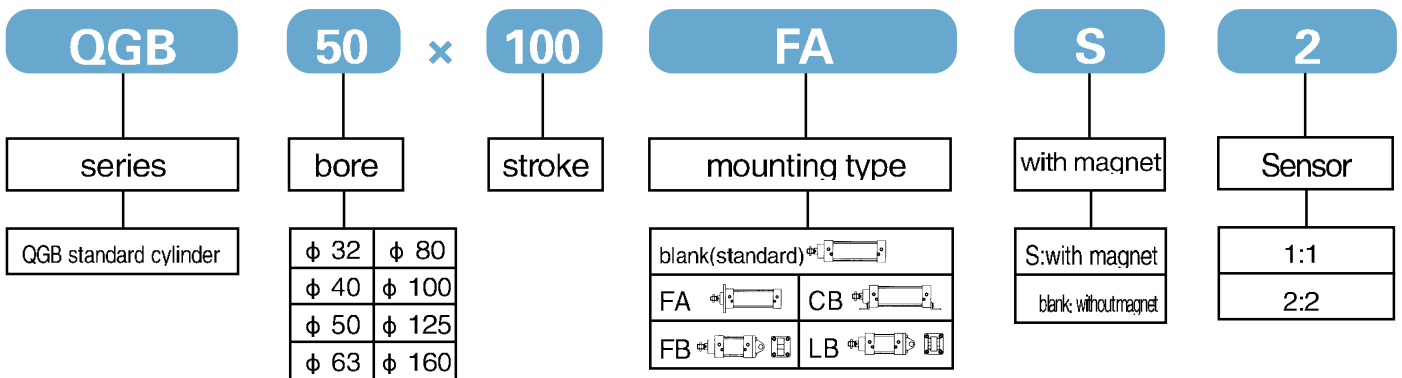


Specification:

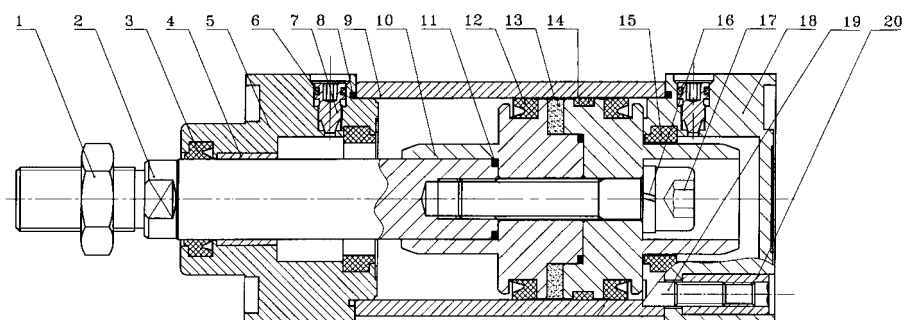
Mode	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	QGB							
Fluid	Air							
Operating pressure range (Mpa)	0.1~1							
Operating speed mm/sec	50~500							
Ambient temperature °C	-10~70°C							
Cushion	adjustable cushion at both ends							
Port size	1/8"	1/4"	3/8"	1/2"		3/4"		



How to order:



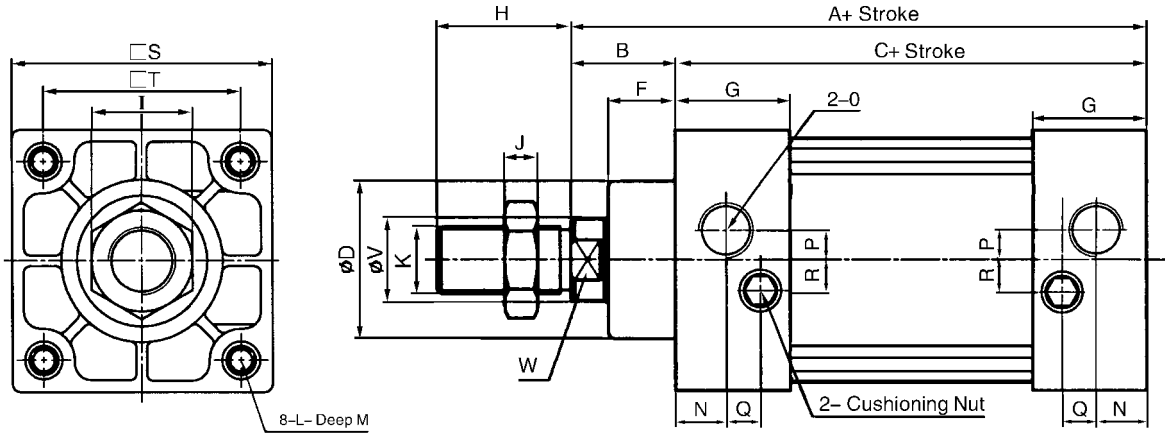
Inner structure drawing:



1	hexagon nut	11	O-ring
2	Piston Rod	12	C-ring
3	compages seal	13	magnet
4	oiled bearing	14	guard seals
5	front cover	15	compages seal
6	O-ring	16	spring washer
7	cushion adjusting bolt	17	inner hexagon bolt
8	O-ring	18	rear cover
9	tube	19	pull-rod
10	piston	20	pull-rod nut

Standard Dimension:

■ ϕ 32~ ϕ 200

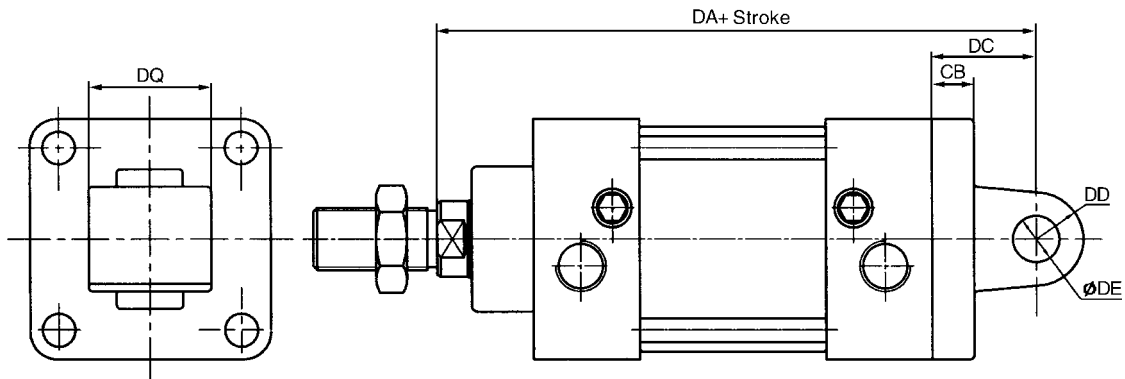


bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	16	6	M10 × 1.25	M6
40	135	30	105	30	23	28	24	18	7	M12 × 1.25	M6
50	145	35	110	35	25	28	32	24	8	M16 × 1.5	M6
63	158	37	121	40	25	32	32	24	8	M16 × 1.5	M8
80	174	46	128	50	30	32	40	30	10	M20 × 1.5	M10
100	189	51	138	50	35	37.5	40	30	10	M20 × 1.5	M10
125	225	65	160	60	44.5	46.5	54	41	11	M27 × 2	M12
160	260	80	180	65	48	50	72	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	14	11	G1/8"	6	9	6	45.5	33	12	10
40	14	11	G1/4"	7	9	7	53	40	16	13
50	14	11	G1/4"	7	9	7	65	48	20	17
63	14	14	G3/8"	8	10	8	80	58	20	17
80	16	14	G1/2"	12	10	10	100	75	25	22
100	17	16	G1/2"	12	13	10	120	90	25	22
125	18	23	G1/2"	12	13	18	136	110	32	27
160	18	24	G3/4"	12	13	22	180	145	40	36

CA Dimension:

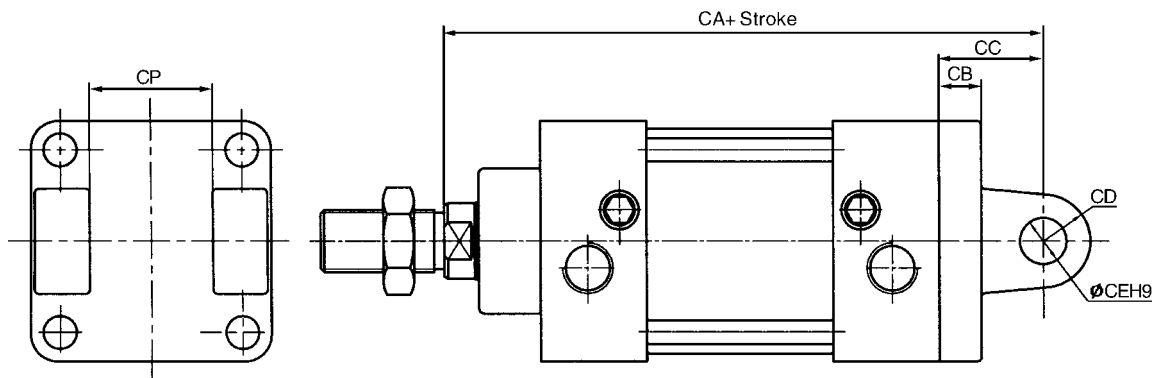
■ ϕ 32~ ϕ 160



bore/stroke	DA	DC	CB	DD	ϕ DE	DQ
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

CB Dimension:

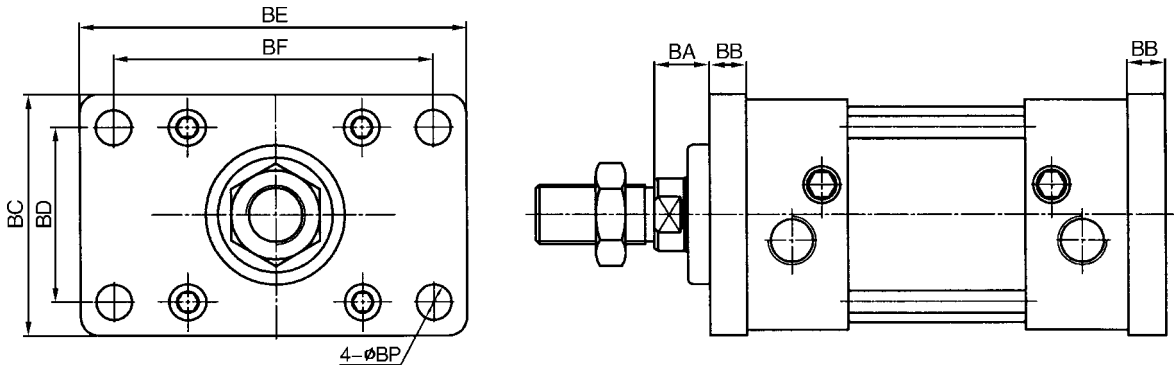
■ ϕ 32~ ϕ 160



bore/stroke	CA	CC	CB	CD	ϕ CE	CP
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

FA Dimension:

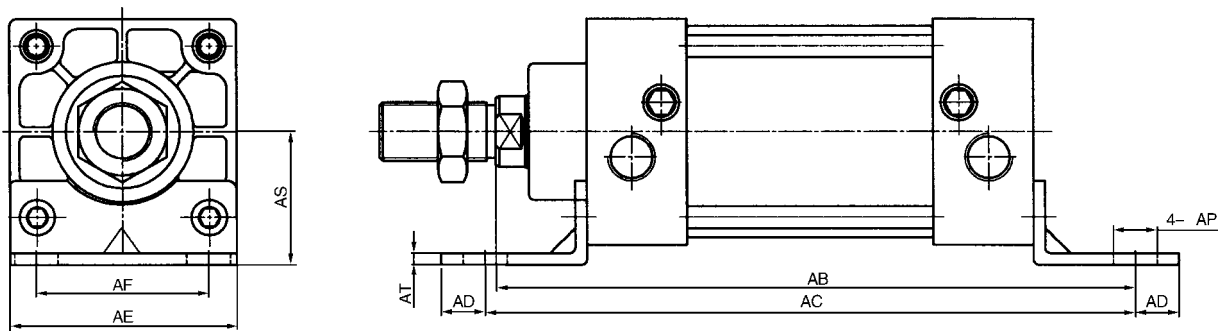
■ ϕ 32~ ϕ 160



bore/stroke	C	BA	BB	BC	BD	BE	BF	BP
32	93	15	10	48	33	80	64	7
40	105	20	10	55	36	90	72	9
50	110	25	10	65	45	110	90	9
63	121	25	12	80	50	25	100	9
80	128	30	16	100	63	155	126	12
100	138	35	16	115	75	180	150	14
125	160	45	20	145	90	215	180	16
160	180	60	20	190	115	270	230	18

LB Dimension:

■ ϕ 32~ ϕ 160



bore/stroke	AB	AC	AD	AE	AF	AP	AS	AT
32	142.5	142	11	48	32	7	32	4
40	163	161	12	55	36	9	36	5
50	175	170	15	65	45	9	45	6
63	190	185	13	80	50	9	50	6
80	215	210	19	100	63	12	63	8
100	230	220	19	115	75	14	75	8
125	270	250	25	145	90	16	90	8
160	320	300	30	190	115	18	115	10

Standard Cylinder

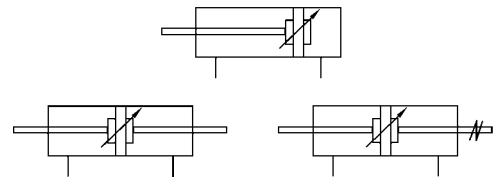
Characteristic:

- CNC mechanically processed with high precision. Quality meet international standard.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.



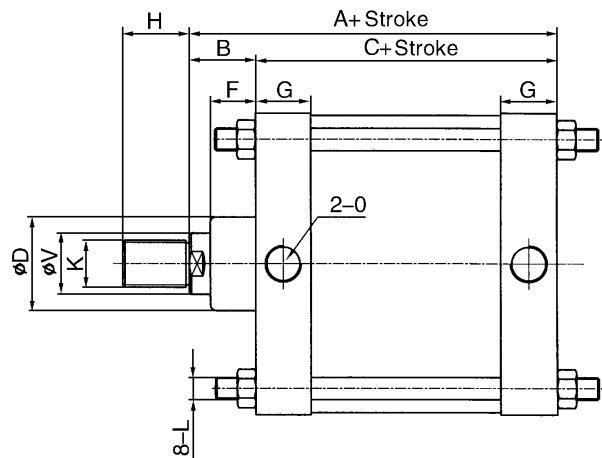
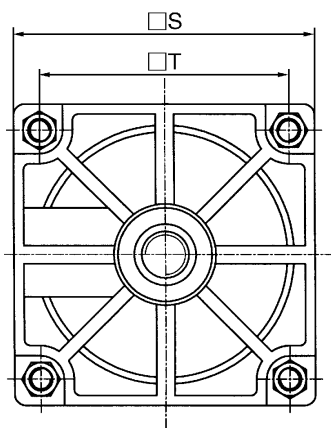
Specification:

Mode	200	250	320	400
Motion	Double acting			
Series	QGB			
Fluid	Air			
Operating pressure range (Mpa)	0.1~1			
Operating speed mm/sec	50~500			
Ambient temperature °C	-10~70°C			
Cushion	adjustable cushion at both ends			
Port size	3/4"	1"		



Dimension(mm):

■ ϕ 250~ ϕ 400



bore/stroke	A	B	C	D	F	G	H	K	L	O	S	T	V
200	275	95	180	80	55	45	70	M36 × 2	M16	G3/4"	220	180	50
250	300	110	190	95	70	50	75	M42 × 2	M20	G1"	280	225	50
320	325	110	215	105	75	60	75	M48 × 2	M24	G1"	350	280	63
400	355	115	240	125	75	65	100	M60 × 2	M30	G1"	430	350	80

Clamp Cylinder

Characteristic:

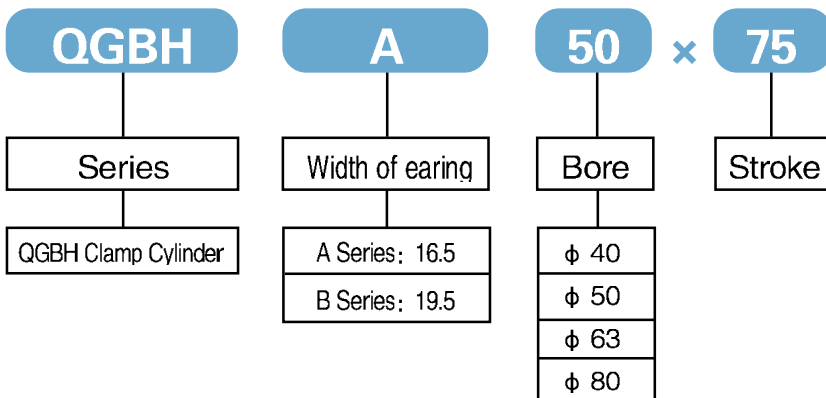
Front and rear caps are finished by aluminum alloy die-casting, processed with high precision. Three side are settled air port, easy for installation, The flow-limiting valve in front and back sides, movement speed is adjustable. Adjustable air cushion in the front and back sides, Interface of double-toggle is special designing for welder when weld the car body.



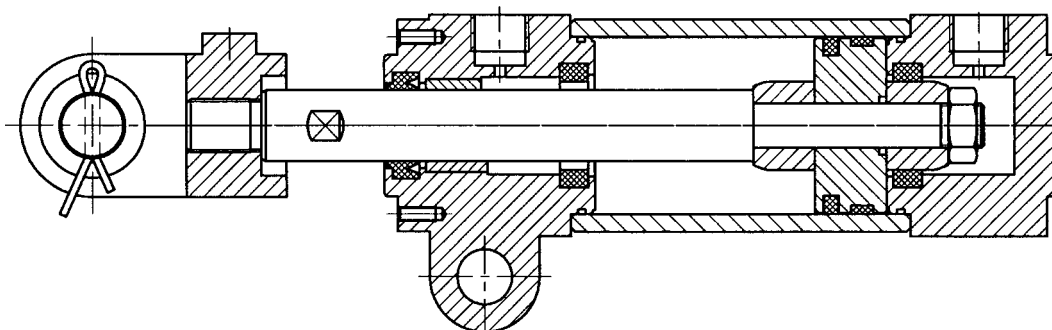
Specification:

Type	40	50	63	80
Port size	1/4"			3/8"
Fluid	Air			
Operating pressure Range Mpa	0.05~1.5			
Operating speed mm/sec	50~500			
Ambient temperature °C	5~60			
Cushion	Attach Two Sides			
Oil	Luicbration Needless(Oil Spray Luicbration)			
Mounting	Two Ears			

How to order:



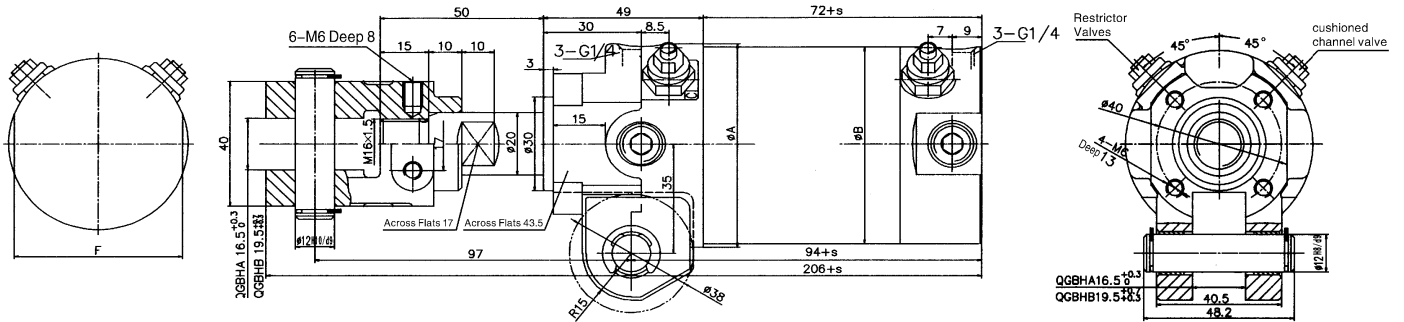
Inner structure drawing:



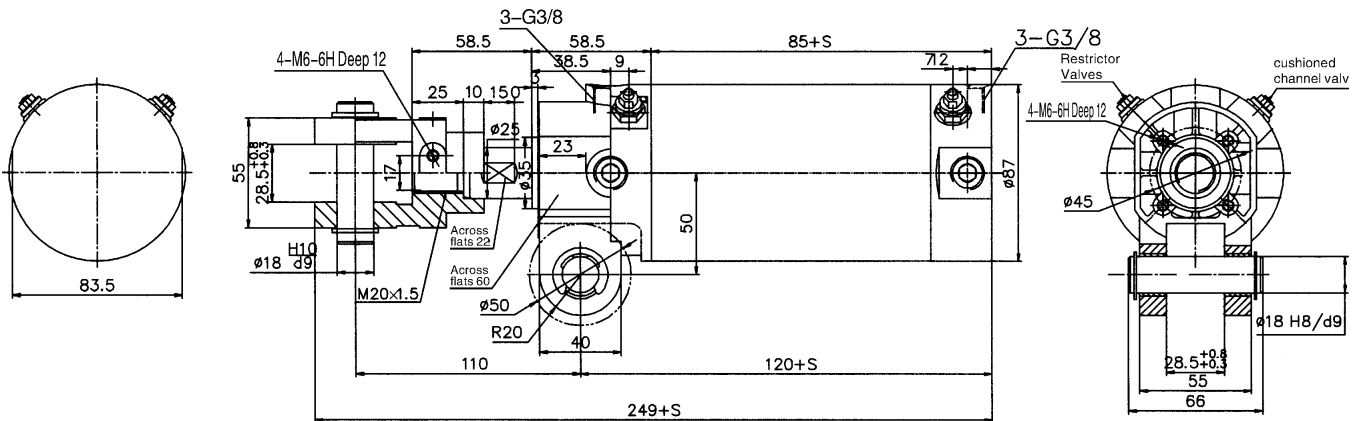
Dimension(mm):

Bore	F	φ A	φ B
φ 40	42	φ 52	φ 45
φ 50	51.5	φ 60	φ 55
φ 63	68.5	φ 74	φ 72

■ QGBH40、50、63

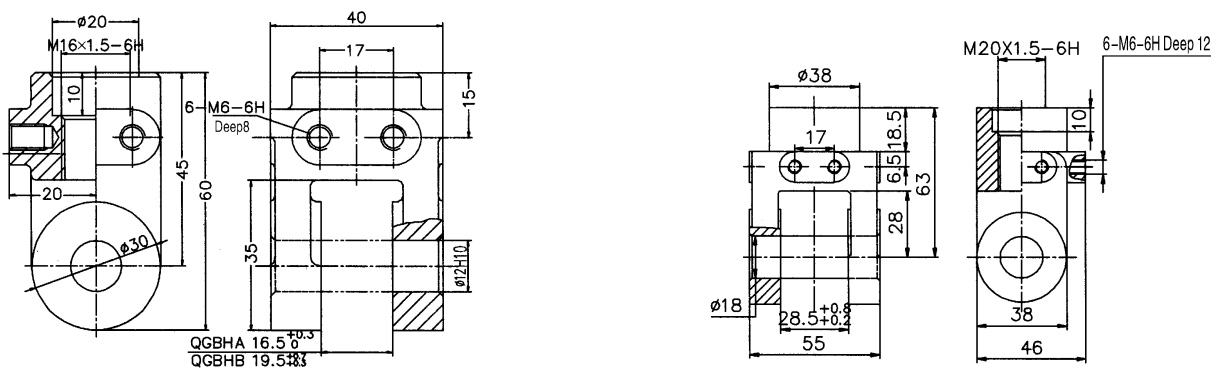


■ QGBH80



■ QGBH40、50、63 Dimension of joint shape

■ QGBH80 Dimension of joint shape



Clamp Modules Cylinder

Characteristic:

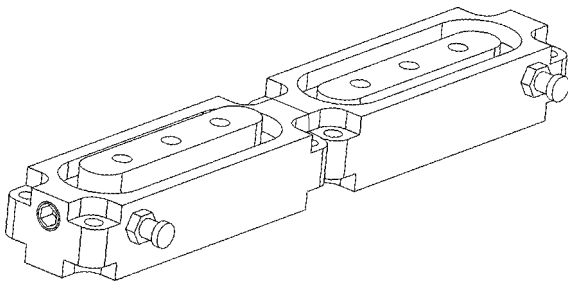
EV series without piston rod, with diaphragm and a significantly shorter stroke, clamps workpiece quickly for surface roughness, suitable for all types of attaching & detaching tools. Flat structure and strong clamp force, especially for slender workpiece. Only work with close fitting the workpiece and with reset function for high speed movement, due to no cushioning.



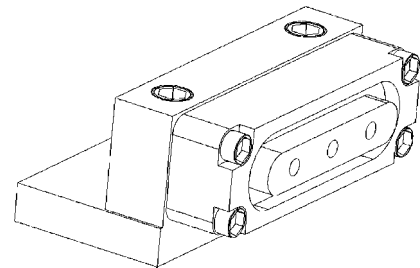
Specification:

Type	EV-20/75-5
Fluid	Air
Structure Feature	Diaphragm Cylinder
Operating pressure range Mpa	0.5
Ambient temperature °C	-20~40

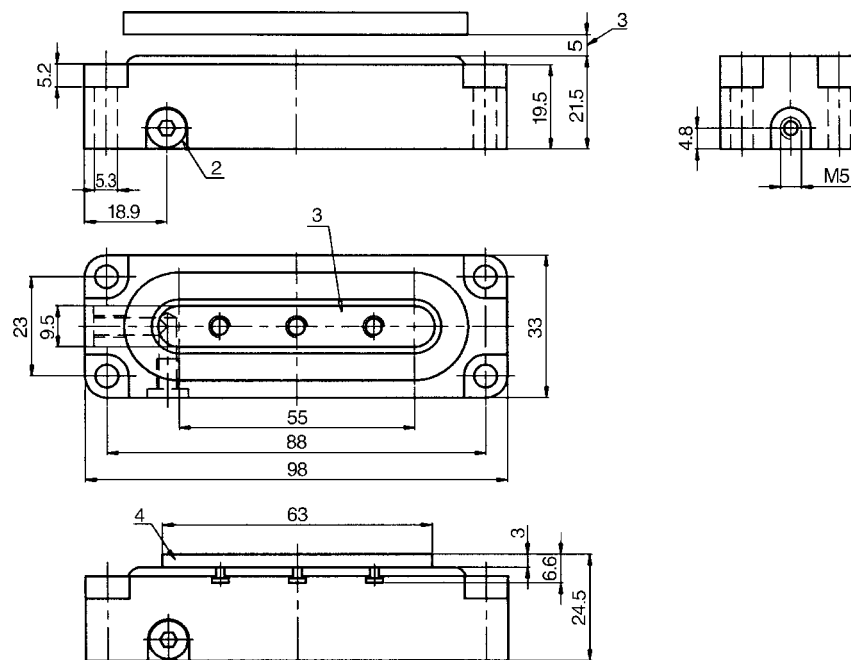
Mounting type:



Accessories Mounting type:



Dimension:



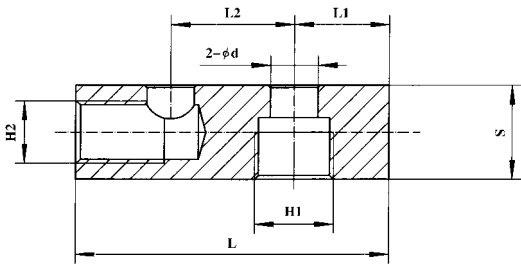
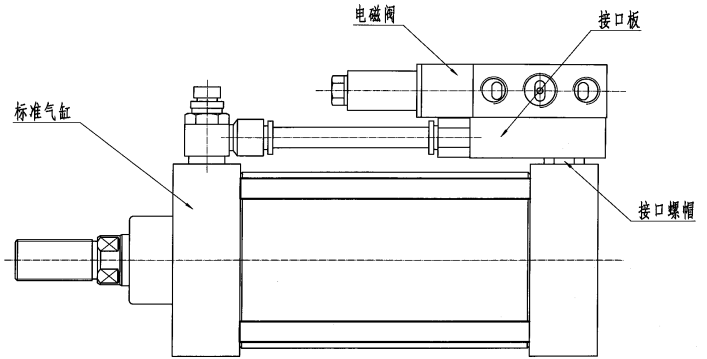
Cylinder with valve



Character:

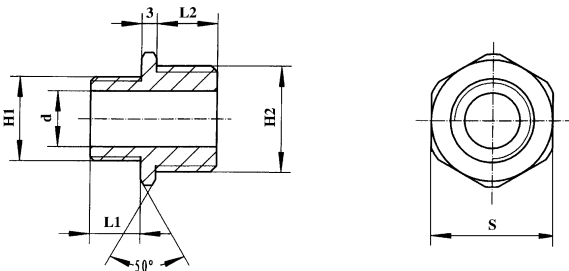
AVS assembly pedestal can directly set the valve on make one pneumatic working unit
 Attention:Min.stroke 100mm

Assembly example



AVS Joint panel

Type	bore optional	d	G1	G2	L	L1	L2	S	Solenoid Valve optional
AVS2	32,40,50	7	1/4"	1/4"	50	13.5	23	20	4M210、4M220、4M230
AVS3	63,80	10	3/8"	3/8"	66	20	26	20	4M310、4M320、4M330
AVS4	100 above	12	1/2"	1/2"	104	29	36	34	4M410、4M420、4M430



AVS Connector

No	H1	H2	d	L1	L2	S
AVSJ1	1/4"	1/8"	5	7	7	14
AVSJ2	1/4"	1/4"	9	7	7	14
AVSJ3	3/8"	3/8"	11	7	10	17
AVSJ4	1/2"	1/2"	12	14	14	22

Stainless Steel Cylinder

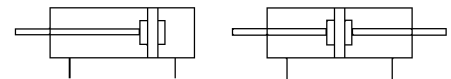
Character:

- Use imported non-lubrication oil seal, fits for high speed movement.
- No draw rod type, tube and covers made by roll extrusion.
- Has non-lubrication bearing, no maintenance for long time work with longer life than usual one.
- Magnet in piston, whole series can be attached with sensor switch.



Specification:

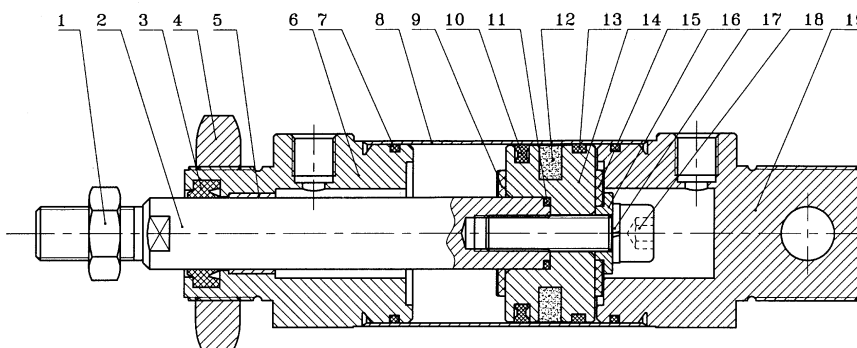
Mode	12	16	20	25	32	40
Motion	Double acting					
Series	MS, MSD					
Fluid	air					
Operating pressure range (Mpa)	0.1~0.9					
Operating speed (mm/sec)	50~500					
Ambient temperature (°C)	-10~70°C					
Port size	M5			1/8"		



How to order:

MS	20	×	100	LB	S	2												
series	bore		stroke	mounting type	with magnet	sensor												
MS: stainless steel cylinder MSD: Double rod stainless steel cylinder	<table border="1"> <tr><td>φ 12</td><td>φ 16</td></tr> <tr><td>φ 20</td><td>φ 25</td></tr> <tr><td>φ 32</td><td>φ 40</td></tr> </table>	φ 12	φ 16	φ 20	φ 25	φ 32	φ 40			<table border="1"> <tr> <td>LB</td> <td></td> </tr> <tr> <td>FA/FB</td> <td></td> </tr> </table>	LB		FA/FB		S: with magnet blank: without magnet	<table border="1"> <tr><td>1:1</td></tr> <tr><td>2:2</td></tr> </table>	1:1	2:2
φ 12	φ 16																	
φ 20	φ 25																	
φ 32	φ 40																	
LB																		
FA/FB																		
1:1																		
2:2																		

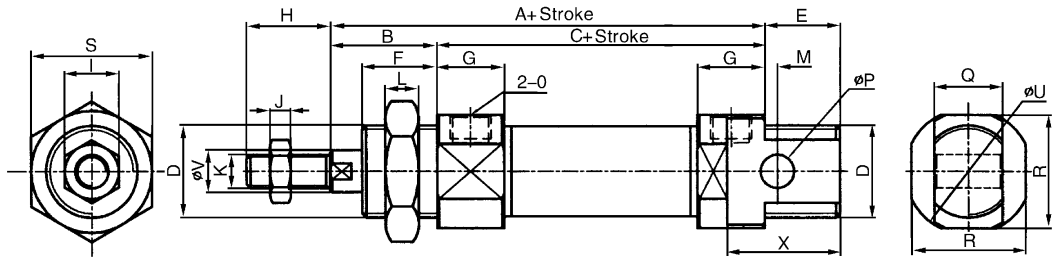
Inner structure drawing:



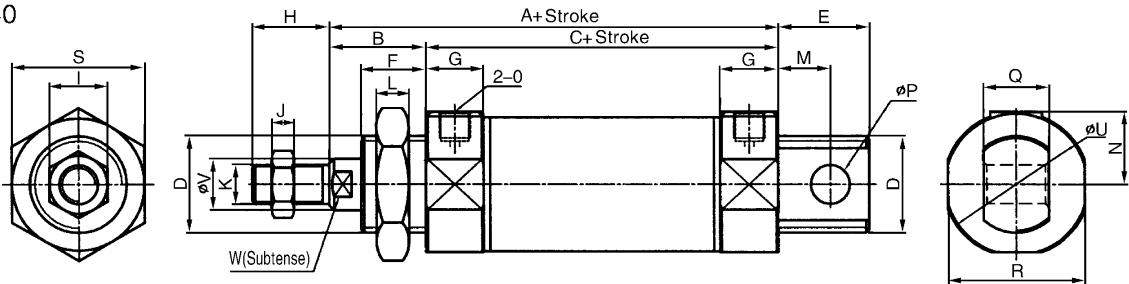
1	hexagon nut	11	O-ring
2	piston ring	12	magnet
3	compages seal	13	guard seals
4	hexagon nut	14	piston
5	oiled bearing	15	crashworthy washer
6	front cover	16	washer
7	O-ring	17	spring washer
8	tube	18	inner hexagon bolt
9	crashworthy washer	19	rear cover
10	C-ring		

Standard Dimension:

■ ϕ 12~ ϕ 20

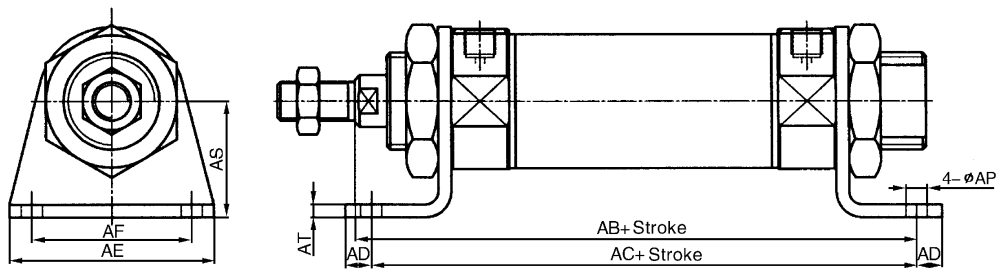


■ ϕ 25~ ϕ 40



bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	U	V	W	X
12	72	22	50	M16 × 1.5	16	17	11.5	16	10	4	M6	6	5	-	M5	6	12	19	22	21	6	-	23
16	79	22	57	M16 × 1.5	16	17	12	16	10	4	M6	6	5	-	M5	6	12	19	22	21	6	-	23
20	92	24	68	M22 × 1.5	18	18	16	20	13	5	M8	8	3	15	G1/8"	8	16	27	27	30	8	7	27
25	96	27	68	M22 × 1.5	20	20	16	22	17	6	M10 × 1.25	8	8	15	G1/8"	8	16	27	27	30	10	9	-
32	106	30	76	M24 × 1.5	24	20	18	22	17	6	M10 × 1.25	10	14	19	G1/8"	10	16	35	32	38	12	10	-
40	114	30	84	M30 × 1.5	28	20	18	24	19	7	M12 × 1.25	10	16	22.4	G1/8"	12	20	42	41	45	16	14	-

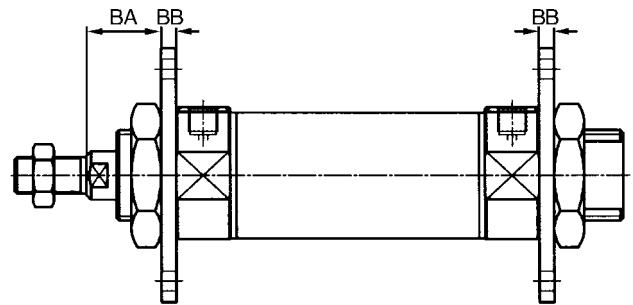
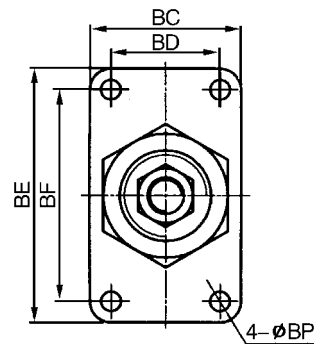
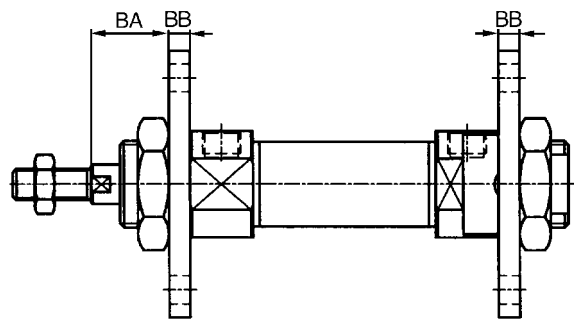
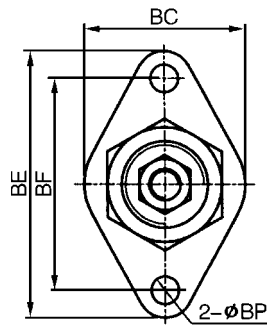
Foot bracket(LB)



bore/stroke	AB	AC	AD	AE	AF	AP	AS	AT
12	85	76	6	43	32	5.5	20	3
16	91.5	82	6	43	32	5.5	20	3
20	108	100	7.5	53	40	6.6	25	3
25	112	100	7.5	53	40	6.6	25	3
32	130	124	8	59	45	6.6	32	4
40	139	124	8	64	50	6.6	36	4

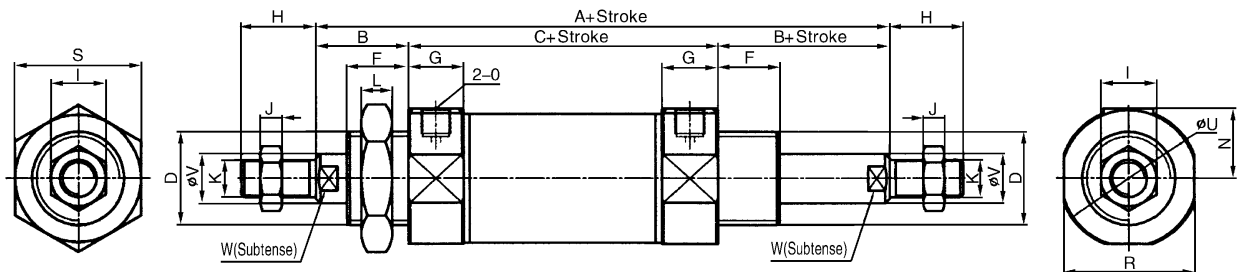
Front flange(FA)

Rear flange (FB)



bore/stroke	BA	BB	BC	BD	BE	BF	BP
12	19	3	28	-	51	40	5.5
16	19	3	28	-	51	40	5.5
20	19	5	38	-	63	50	6.6
25	23	5	38	-	63	50	6.6
32	25	5	47	33	72	58	6.6
40	25	5	50	36	84	70	6.6

Double shaft (MSD)



bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	U	V	W
12	94	22	50	M16 × 1.5	16	17	11.5	16	10	4	M6	6	5	-	M5	6	19	22	21	6	-
16	101	22	57	M16 × 1.5	16	17	12	16	10	4	M6	6	5	-	M5	6	19	22	21	6	-
20	116	24	68	M22 × 1.5	18	18	16	20	13	5	M8	8	3	15	G1/8"	8	27	27	30	8	7
25	124	27	68	M22 × 1.5	20	20	16	22	17	6	M10 × 1.25	8	8	15	G1/8"	8	27	27	30	10	9
32	136	30	76	M24 × 1.5	24	20	18	22	17	6	M10 × 1.25	10	14	19	G1/8"	10	35	32	38	12	10
40	144	30	84	M30 × 1.5	28	20	18	24	19	7	M12 × 1.25	10	16	22.4	G1/8"	12	42	41	45	16	14

Aluminum Mini Cylinder

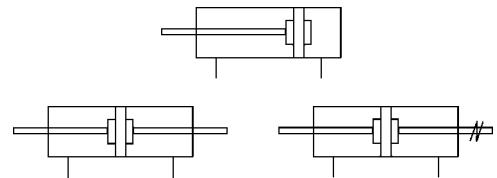
Character:

- Adopt imported aluminum alloy tube, light, precise, friction & corrosion durable.
- Use imported non-lubrication oil seal, fits for high speed movement.
- Has aluminum alloy covers, CNC machined, surface anodized, better anti-corrosion.
- Has non-lubrication bearing, no maintenance for long time working with long life than usual one.
- Magnet in piston, whole series can be attached with sensor switch



Specification:

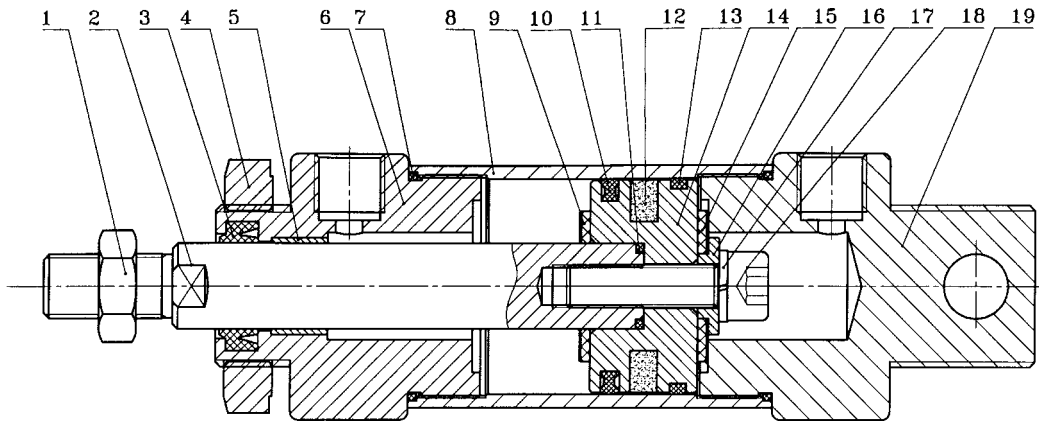
Mode	20	25	32	40
Motion	Double acting			
Series	MAL, MALD, MALJ			
Fluid	air			
Operating pressure range (Mpa)	0.1~1			
Operating speed (mm/sec)	50~500			
Ambient temperature (°C)	-10~70°C			
Port size	1/8"		1/4"	



How to order:

MAL	20 × 100	CA	LB	S	2
series	bore	stroke	rear cover	mounting type	with magnet
MAL standard cylinder	φ 20	blank; fishtail	blank (standard)	S: with magnet	sensor
MALD double axial cylinder	φ 25	U: horizontal tail	LB	blank; without magnet	1:1
MALJ double axial adjustable cylinder	φ 32	CM: rounded tail	FA/FB		2:2
	φ 40				

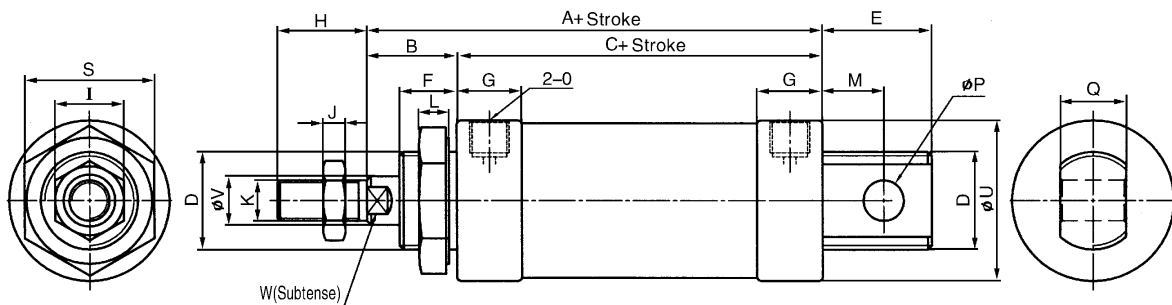
Inner structure drawing:



1	hexagon nut	6	front cover	11	O -ring	16	washer
2	piston ring	7	O -ring	12	magnet	17	spring washer
3	compagesseal	8	tube	13	guard seals	18	inner hexagon bolt
4	hexagon nut	9	crashworthy washer	14	piston	19	rear cover
5	oiled bearing	10	C -ring	15	crashworthy washer		

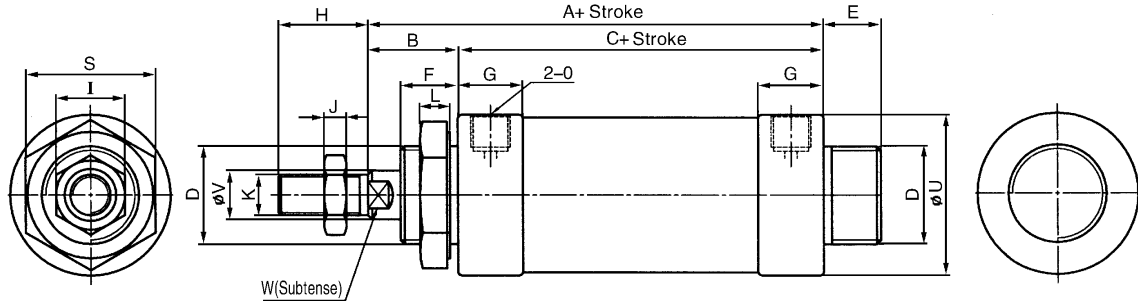
Standard Dimension:

■ Fishtail



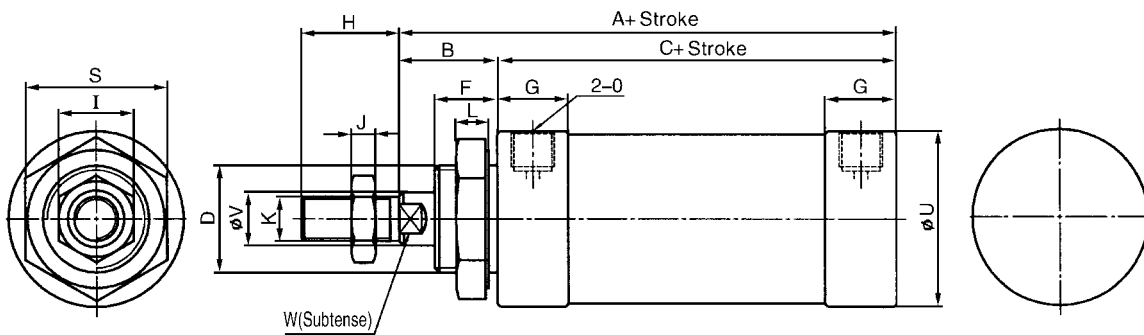
bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q	S	U	V	W
16	75.6	20	55.6	M16 × 1.5	14	12	11	17	10	5	M6	7	5	M5	6	12	24	22	6	-
20	90	20	70	M22 × 1.5	21	12	16	20	12	6	M8 × 1.25	12	3	G1/8"	8	16	29	29	8	6
25	92	22	70	M22 × 1.5	21	14	16	22	17	6	M10 × 1.25	12	8	G1/8"	8	16	34	34	10	8
32	92	22	70	M24 × 2	27	14	16	22	17	6	M10 × 1.25	15	14	G1/8"	10	16	39.5	39.5	12	10
40	114	22	92	M30 × 2	27	14	22	24	17	7	M12 × 1.25	15	16	G1/4"	12	20	49.5	49.5	16	14

■ Rounded



bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	O	S	U	V	W
16	75.6	20	55.6	M16 × 1.5	14	12	11	17	10	5	M6	7	M5	24	22	6	–
20	90	20	70	M22 × 1.5	21	12	16	20	12	6	M8 × 1.25	12	G1/8"	29	29	8	6
25	92	22	70	M22 × 1.5	21	14	16	22	17	6	M10 × 1.25	12	G1/8"	29	34	10	8
32	92	22	70	M24 × 2	27	14	16	22	17	6	M10 × 1.25	15	G1/8"	32	39.5	12	10
40	114	22	92	M30 × 2	27	14	22	24	17	7	M12 × 1.25	15	G1/4"	41	49.5	16	14

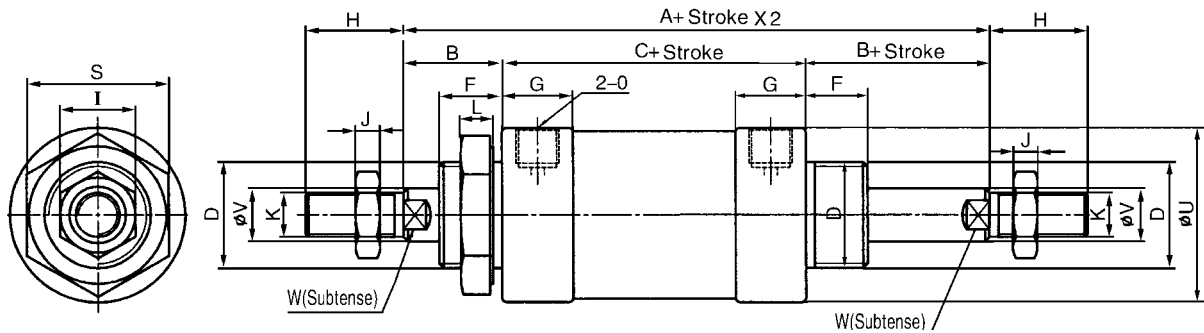
■ Horizontal



bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W
16	75.6	20	55.6	M16 × 1.5	12	11	17	10	5	M6	7	M5	24	22	6	–
20	90	20	70	M22 × 1.5	12	16	20	12	6	M8 × 1.25	12	G1/8"	29	29	8	6
25	92	22	70	M22 × 1.5	14	16	22	17	6	M10 × 1.25	12	G1/8"	29	34	10	8
32	92	22	70	M24 × 2	14	16	22	17	6	M10 × 1.25	15	G1/8"	32	39.5	12	10
40	114	22	92	M30 × 2	14	22	24	17	7	M12 × 1.25	15	G1/4"	41	49.5	16	14

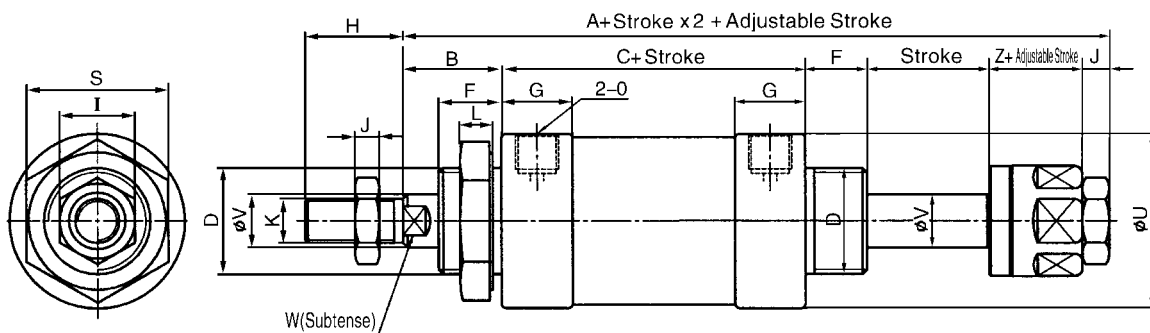
MALD Type

■ ϕ 20~40



bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W
16	95.6	20	55.6	M16 x 1.5	12	11	17	10	5	M6	7	M5	24	22	6	-
20	110	20	70	M22 x 1.5	12	16	20	12	6	M8 x 1.25	12	G1/8"	29	29	8	6
25	116	22	70	M22 x 1.5	14	16	22	17	6	M10 x 1.25	12	G1/8"	29	34	10	8
32	114	22	70	M24 x 2	14	16	22	17	6	M10 x 1.25	15	G1/8"	32	39.5	12	10
40	136	22	92	M30 x 2	14	22	24	17	7	M12 x 1.25	15	G1/4"	41	49.5	16	14

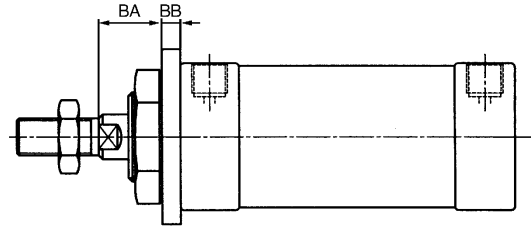
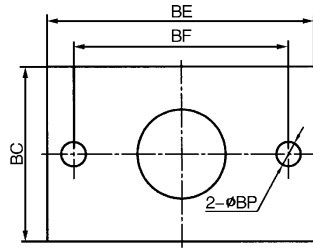
MALJ Type



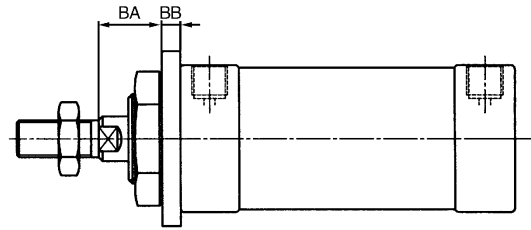
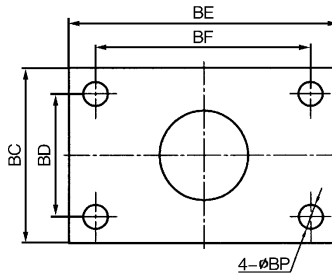
bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W	Z
16	111.6	20	55.6	M16 x 1.5	12	11	17	10	5	M6	7	M5	24	22	6	-	19
20	127	20	70	M22 x 1.5	12	16	20	12	6	M8 x 1.25	12	G1/8"	29	29	8	6	19
25	133	22	70	M22 x 1.5	14	16	22	17	6	M10 x 1.25	12	G1/8"	29	34	10	8	21
32	133	22	70	M24 x 2	14	16	22	17	6	M10 x 1.25	15	G1/8"	32	39.5	12	10	21
40	156	22	92	M30 x 2	14	22	24	17	7	M12 x 1.25	15	G1/4"	41	49.5	16	14	21

FA Dimension:

■ ϕ 20~25

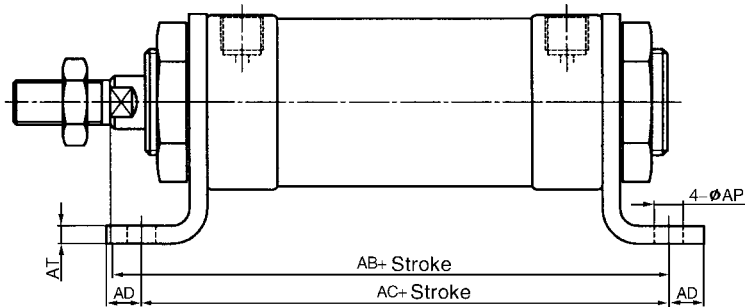
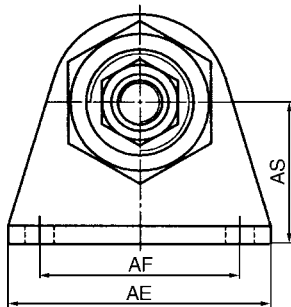


■ ϕ 32~40



bore/stroke	BA	BB	BC	BD	BE	BF	BP
20	16	4	38	-	64	50	6.5
25	18	4	38	-	64	50	6.5
32	18	4	47	33	72	58	6.5
40	18	4	50	36	84	119	6.5

LB Dimension:



bore/stroke	AB	AC	AC	AE	AF	AP	AS	AT
20	105	100	8	54	40	6.5	25	3
25	107	100	8	54	40	6.5	25	3
32	117	120	8	59	45	6.5	32	4
40	139	142	8	64	50	6.5	36	4.5

Aluminum Cylinder(Big bore)

Character:

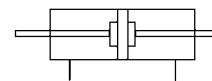
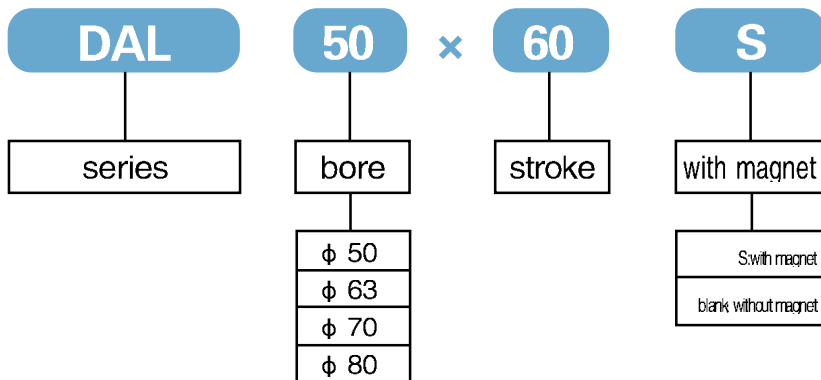
- Shorter 1/5 than ISO cylinder.
- Seal with long life ,low friction.
- Magnet in piston,whole series can be attached with sensor.

Specification:

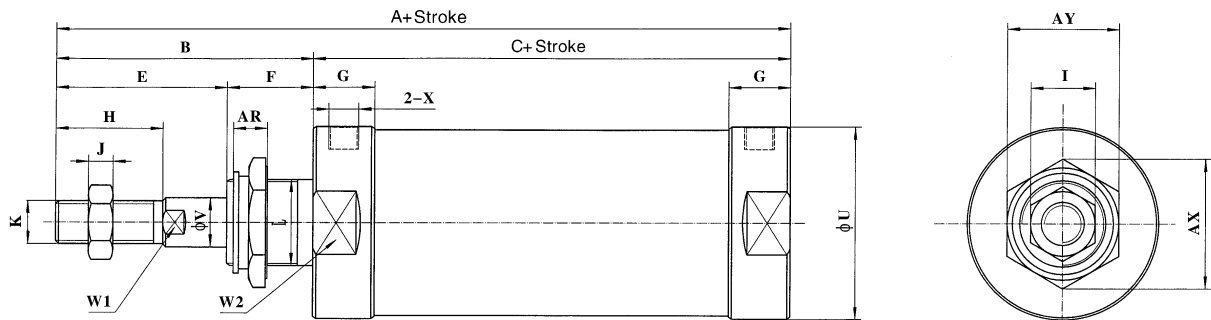
Mode	50	63	70	80
Motion	double acting			
Fluid	air			
Operating pressure range (Mpa)	0.1~1			
Ambient temperature(°C)	-10~70°C			
port size	1/4"			



How to order:



Dimension:



symbol/bore	A	B	C	E	F	G	H	I	J	K	V	X	W1	W2	AR	AX	AY
50	141	56	85	34	22	15	25	16	6	M10 × 1.25	12	G1/8"	10	52	7	53	46
63	145	63	82	38	25	16	30	22	8	M14 × 1.5	16	G1/8"	14	68	7	60	52
70	152	70	82	42	28	16	30	22	8	M14 × 1.5	16	G1/8"	14	74	8	60	52
80	185	80	105	52	28	20	35	22	8	M14 × 1.5	16	G1/8"	14	84	9	60	52

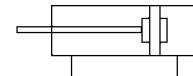
Round line Cylinder

Character:

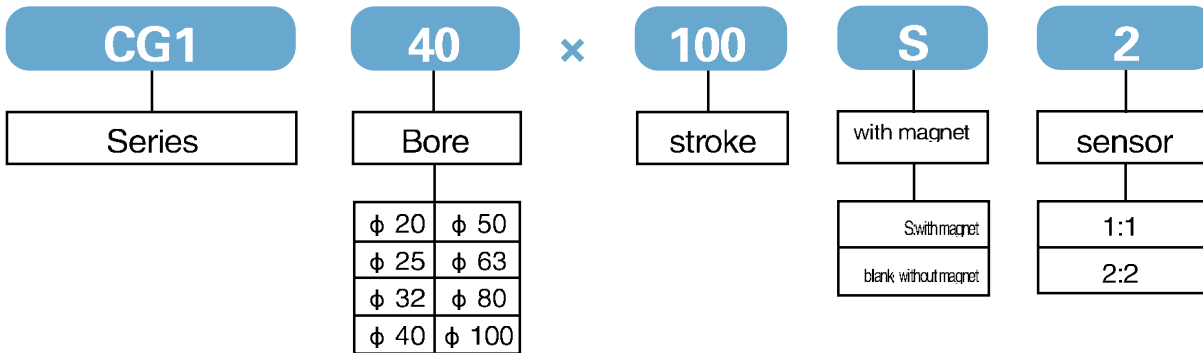
- CNC mechanically processed with high precision. Quality meet international standard.
- Adopt imported none lubrication, long time service and no need lubrication maintenance
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

Specification:

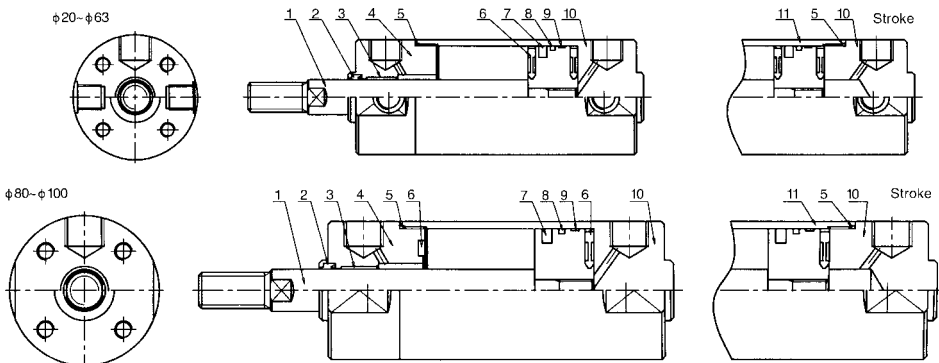
Mode	20	25	32	40	50	63	80	100
Motion	Double acting							
Series	CG1							
Fluid	Air							
Operating pressure range (Mpa)	0.05~1							
Operating speed (mm/sec)	50~1000				50~700			
Ambient temperature (°C)								
Port size	1/8"		1/4"		3/8"		1/2"	



How to order:

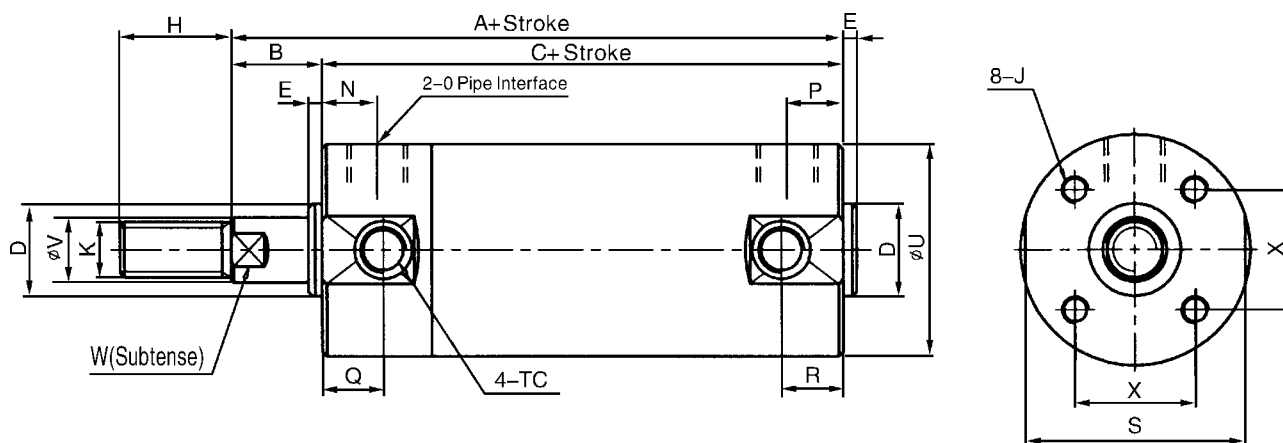


Inner structure drawing:



1	Piston rod	7	magnet
2	compageseal	8	C-ring
3	Oiled bearing	9	guard seals
4	front cover	10	rear cover
5	O-ring	11	tube
6	crashworthy washer		

Dimension:



symbol/bore	Bore(mm)	A	B	C	D	E	H	J	K	N	O	P	Q	R	S	U	V	W	X
20	~200	86	17	69	12	2	18	M4 × 0.7 深7	M8 × 1.25	12	G1/8	12	11	11	24	26	8	6	14
25	~300	87	18	69	14	2	22	M5 × 0.8 深7.5	M10 × 1.25	12	G/18	12	11	11	29	31	10	8	16.5
32	~300	89	18	71	18	2	22	M8 × 0.8 深8	M10 × 1.25	12	G1/8	11	11	10	36	38	12	10	20
40	~300	98	20	78	25	2	30	M6 × 1 深12	M14 × 1.5	13	G1/8	12	12	10	44	47	16	14	26
50	~300	113	23	90	30	2	35	M8 × 1.25 深16	M18 × 1.5	14	G1/4	13	13	12	55	58	20	18	32
63	~300	113	23	90	32	2	35	M10 × 1.5 深16	M18 × 1.5	14	G1/4	13	13	12	69	72	20	18	38
80	~300	139	31	108	40	3	40	M10 × 1.5 深22	M22 × 1.5	20	G3/8	20	-	-	80	89	25	22	50
100	~300	139	31	108	50	3	40	M10 × 1.75 深22	M22 × 1.5	20	G1/2	20	-	-	108	110	30	26	60

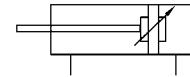
Adjustable aluminum alloy cylinder

Character:

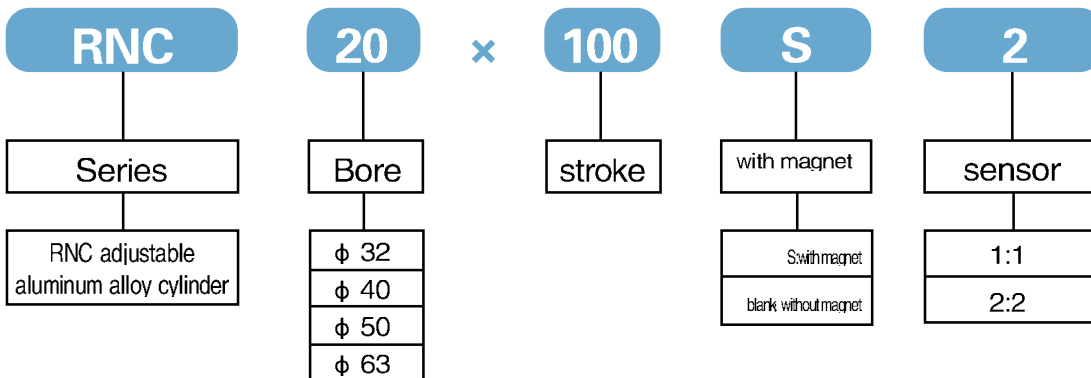
- Adjustable cushion, suitable for high speed movement.
- Front and rear caps are finished by aluminum alloy die-casting, CNC mechanically processed with high precision. Surface by anodizing, good corrosion resistance.
- Has non-lubrication bearing, no maintenance for long time work with longer life than usual one.
- Magnet in piston, whole series can be attached with sensor switch.

Specification:

Mode	32	40	50	63
Motion	Double acting			
Series	RNC			
Fluid	Air			
Operating pressure range (Mpa)	0.1~1			
Operating speed (mm/sec)	50~500			
Ambient temperature (°C)	-10~70			
Port size	1/8"	1/4"	3/8"	

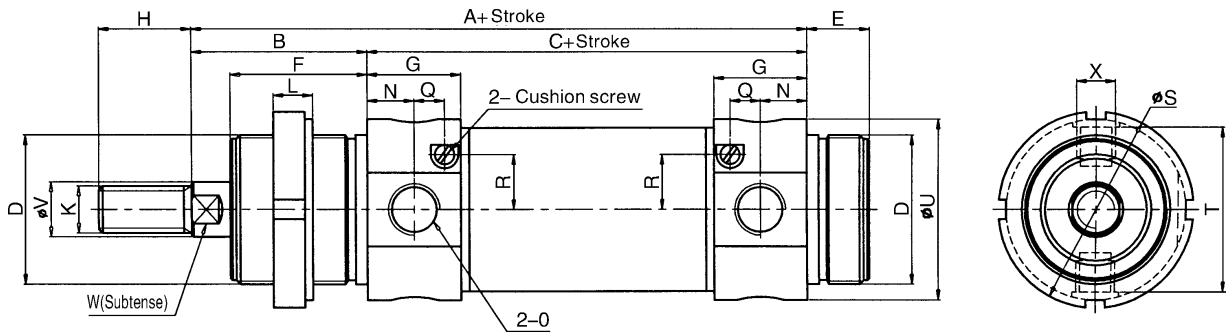


How to order:



Dimension:

■ ϕ 32~63



symbol/bore	A	B	C	D	E	F	G	H	K	L	N	O	Q	R	S	T	U	V	W	X
32	134	38	96	M30 × 1.5	14	30	22	20	M10	8	9	G1/8"	8	13	42	35	38	12	10	M8 × 1
40	158	45	113	M38 × 1.5	16	35	23.9	24	M12	10	12	G1/4"	7.75	14	50	42	46	14	12	M10 × 1
50	170	50	120	M45 × 1.5	18	38	23.9	32	M16	10	12	G1/4"	6.9	14	60	53	57	18	16	M12 × 1.5
63	175	51	124	M45 × 1.5	18	38	23.9	31	M16	10	13	G3/8"	4.9	18.5	60	66	70	18	16	M14 × 1.5

Thin Cylinder

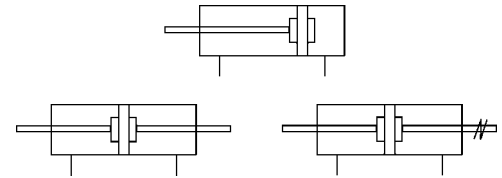
Character:

- Has ultra thin designs, light weight, occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapt to all circumstances.
- Non-lubrication design, may be attached with sensor.

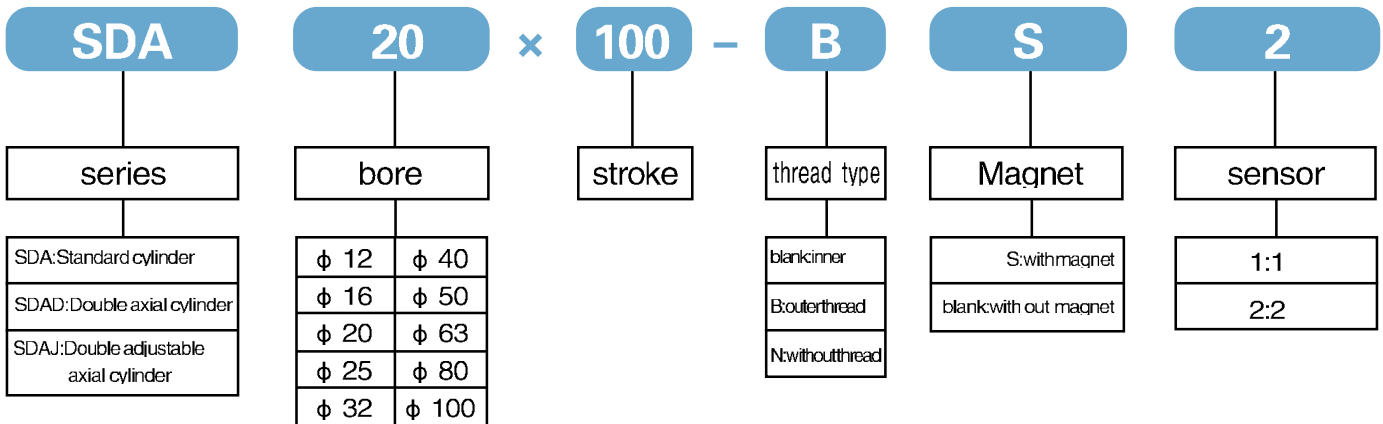


Specification:

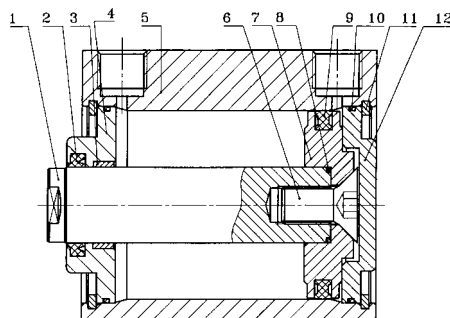
Mode	12	16	20	25	32	40	50	63	80	100
Motion	double acting									
Series	SDA, SDAD, SDAJ									
Fluid	air									
Operating pressure range (Mpa)	0.1~0.9									
Operating speed (mm/sec)	50~500									
Ambient temperature (°C)	-10~70°C									
Port size	M5		1/8"		1/4"		3/8"			



How to order:



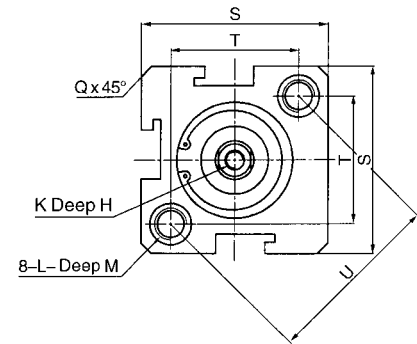
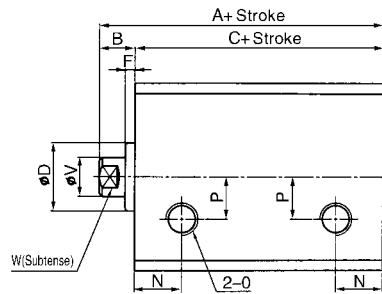
Inner structure drawing:



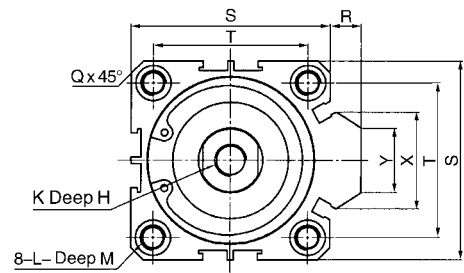
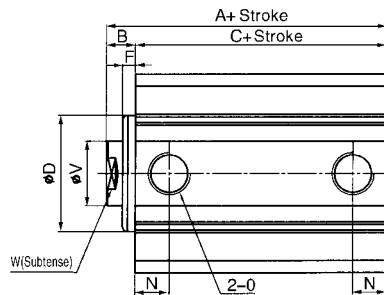
1	piston rod	7	piston
2	compagesseal	8	O-ring
3	oiled bearing	9	C-ring
4	front cover	10	O-ring
5	tube	11	springiness washer
6	inner hexagon bolt	12	rear cover

Dimension :

■ ϕ 12~16



■ ϕ 20~100

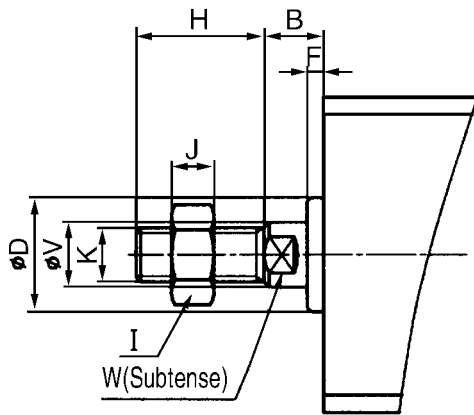


Type symbol/bore	standard			with magnet			D	F	H		K
	A	B	C	A	B	C			Stroke ≤ 10	Stroke > 10	
12	22	5	17	32	5	27	10.2	1	6		M3
16	24	5.5	18.5	34	5.5	28.5	10.5	1.5	6		M3
20	25	5.5	19.5	35	5.5	29.5	15	1.5	8		M4
25	27	6	21	37	6	31	17	2	10		M5
32	31.5	7	24.5	41.5	7	34.5	22	3.5	12		M6
40	33	7	26	43	7	36	28	3	12		M8
50	37	9	28	47	9	38	36	5	15		M10
63	41	9	32	51	9	42	38	3.5	15		M10
80	52	11	41	62	11	51	45	4	15	20	M14 × 1.5
100	63	12	51	73	12	61	50	5	18	20	M18 × 1.5

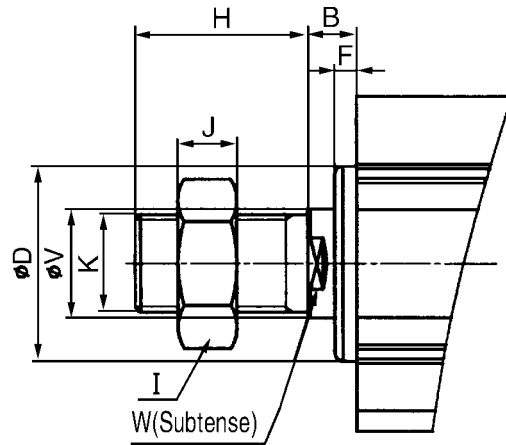
symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
12	M3	12	6.3	M5	6	1.6	-	25	16.2	23	6	5	-	-
16	M3	12	7.3	M5	6.5	1.6	-	29	19.8	28	6	5	-	-
20	M4	14	7.4	M5	-	2.1	2.2	34	24	-	8	6	11.3	10
25	M5	20.5	8.5	M6	-	3.1	2	40	28	-	10	8	12	10
32	M6	20.5	9	M6	-	2.1	6	43.7	34	-	12	10	18.3	15
40	M8	22.5	9.5	M8	-	2.2	6.7	52.1	40	-	16	14	21.3	16
50	M10	28.5	10.5	M8	-	4.2	9.7	61.8	48	-	20	17	30	20
63	M10	24	12	M8	-	3.2	9.7	74.6	60	-	20	17	28.7	20
80	M12	25	13	M12	-	3.6	10	94.4	74	-	25	22	36	26
100	M14	33	17	M14	-	3.6	10.1	114.4	90	-	32	27	35	26

Outer thread dimension:

■ ϕ 12~16



■ ϕ 20~100

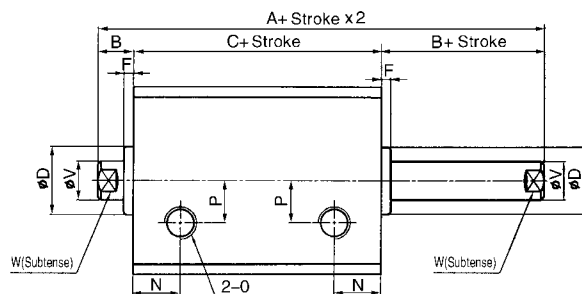
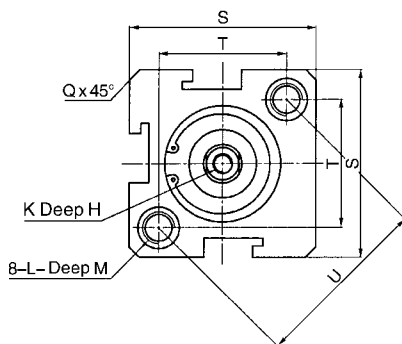


symbol/bore	B	D	F	H	I	J	K2	V	W
12	5	10.2	1	12	8	4	M5	6	5
16	5.5	10.2	1.5	12	8	4	M5	6	5
20	5/5	15	1.5	15	10	5	M6	8	6
25	6	17	2	17	12	6	M8	10	8
32	7	22	3.5	18	17	6	M10 × 1.25	12	10
40	7	28	3	28	19	8	M14 × 1.5	16	14
50	9	36	5	28	27	11	M18 × 1.5	20	17
63	9	38	3.5	28	27	11	M18 × 1.5	20	17
80	11	45	4	33	32	13	M22 × 1.5	25	22
100	12	50	5	38	36	13	M26 × 1.5	32	27

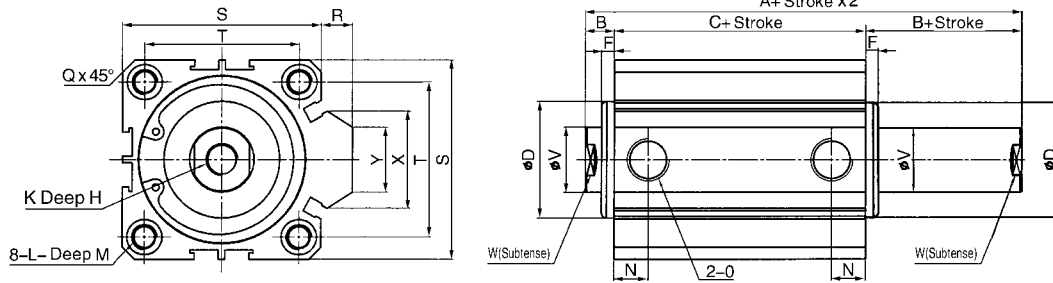
SDAD Series

Dimension:

■ ϕ 12~16



Dimension:

■ ϕ 20~100

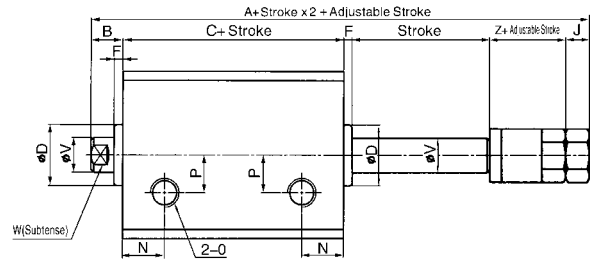
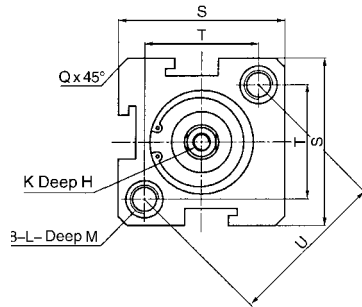
type	standard			with magnet			D	F	H		K
	symbol/bore	A	B	C	A	B			C	stroke \leq 10	
12	27	5	17	37.5	5	27	10.2	1	6		M3 \times 0.5
16	29.5	5.5	18.5	39.5	5.5	28.5	10.5	1.5	6		M3 \times 0.5
20	30.5	5.5	19.5	40.5	5.5	29.5	15	1.5	8(stroke=5, be 6.5)		M4 \times 0.7
25	33	6	21	43	6	31	17	2	10(stroke=5, be 7)		M5 \times 0.8
32	38.5	7	24.5	48.5	7	34.5	22	3.5	8	12	M6 \times 1
40	40	7	26	50	7	36	28	3	9	12	M8 \times 1.25
50	46	9	28	56	9	38	36	5	11	15	M10 \times 1.25
63	50	9	32	60	9	42	38	3.5	11	15	M10 \times 1.25
80	63	11	41	73	11	51	45	4	14	20	M14 \times 1.5
100	75	12	51	85	12	61	50	5	18	20	M18 \times 1.5

symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
12	M3 \times 0.5	12	6.3	M5	6	1.6	-	25	16.2	23	6	5	-	-
16	M3 \times 0.5	12	7.3	M5	6.5	1.6	-	29	19.8	28	6	5	-	-
20	M4 \times 0.7	14	7.4	M5	-	2.1	2.2	34	24	-	8	6	11.3	10
25	M5 \times 1	20.5	8.5	M5	-	3.1	2	40	28	-	10	8	12	10
32	M6 \times 1	20.5	9	G1/8"	-	2.1	6	43.7	34	-	12	10	18.3	15
40	M8 \times 1.25	22.5	9.5	G1/8"	-	2.2	6.7	52.1	40	-	16	14	21.3	16
50	M8 \times 1.25	28.5	10.5	G1/4"	-	4.2	9.7	61.8	48	-	20	17	30	20
63	M8 \times 1.25	24	12	G1/4"	-	3.2	9.7	74.6	60	-	20	17	28.7	20
80	M12 \times 1.75	25	13	G3/8"	-	3.6	10	94.4	74	-	25	22	36	26
100	M14 \times 2	33	17	G3/8"	-	3.6	10.1	114.4	90	-	32	27	35	26

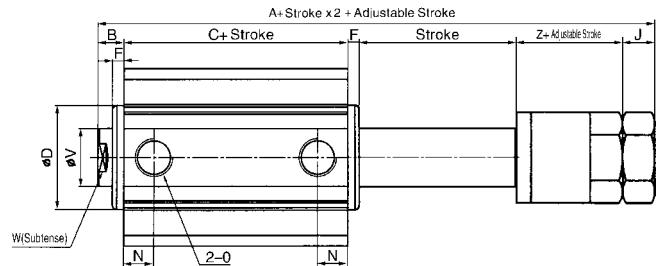
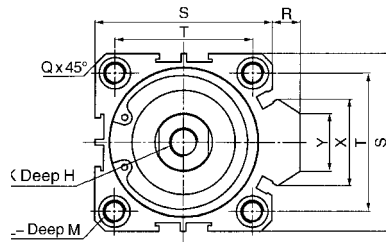
SDAJ Series

Dimension

■ ϕ 12~16



■ ϕ 20~100



type	standard			with magnet			D	F	H		K
	A	B	C	A	B	C			stroke \leq 10	stroke $>$ 10	
12	40	5	17	50	5	27	10.2	1	6		M3 \times 0.5
16	42.5	5.5	18.5	52.5	5.5	28.5	10.5	1.5	6		M3 \times 0.5
20	47.5	5.5	19.5	57.5	5.5	29.5	15	1.5	8(stroke=5, be 6.5)		M4 \times 0.7
25	54	6	21	64	6	31	17	2	10(stroke=5, be7)		M5 \times 0.8
32	62	7	24.5	72	7	34.5	22	3.5	8	12	M6 \times 1
40	65	7	26	75	7	36	28	3	9	12	M8 \times 1.25
50	74	9	28	84	9	38	36	5	11	15	M10 \times 1.25
63	76.5	9	32	86.5	9	42	38	3.5	11	15	M10 \times 1.25
80	93	11	41	103	11	51	45	4	14	20	M14 \times 1.5
100	105	12	51	115	12	61	50	5	18	20	M18 \times 1.5

symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
12	M3 \times 0.5	12	6.3	M5	6	1.6	-	25	16.2	23	6	5	-	-	13
16	M3 \times 0.5	12	7.3	M5	6.5	1.6	-	29	19.8	28	6	5	-	-	13
20	M4 \times 0.7	14	7.4	M5	-	2.1	2.2	34	24	-	8	6	11.3	10	16
25	M5 \times 1	20.5	8.5	M5	-	3.1	2	40	28	-	10	8	12	10	19
32	M6 \times 1	20.5	9	G1/8"	-	2.1	6	43.7	34	-	12	10	18.3	15	21
40	M8 \times 1.25	22.5	9.5	G1/8"	-	2.2	6.7	52.1	40	-	16	14	21.3	16	21
50	M8 \times 1.25	28.5	10.5	G1/4"	-	4.2	9.7	61.8	48	-	20	17	30	20	21
63	M8 \times 1.25	24	12	G1/4"	-	3.2	9.7	74.6	60	-	20	17	28.7	20	21
80	M12 \times 1.75	25	13	G3/8"	-	3.6	10	94.4	74	-	25	22	36	26	24
100	M14 \times 2	33	17	G3/8"	-	3.6	10.1	114.4	90	-	32	27	35	26	24

Multi-position thin cylinder

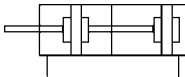
Character:

● Making the combined cylinder have multi-position. Connecting two cylinders which has the same bore, but different stroke. Pay attention to the stroke that the later acting longer than former acting, i.e. stroke2 > stroke1, if special requirements, we can supply combination which have two or more cylinders, total stroke not more than 2000mm.
attention: its pull force is similar to single cylinder.



Specification:

Mode	25	40	63	80	100
Fluid	air				
structure character	type piston cylinder				
Operating pressure range (Mpa)	0.1~0.9				
Ambient temperature (°C)	-10~70°C				

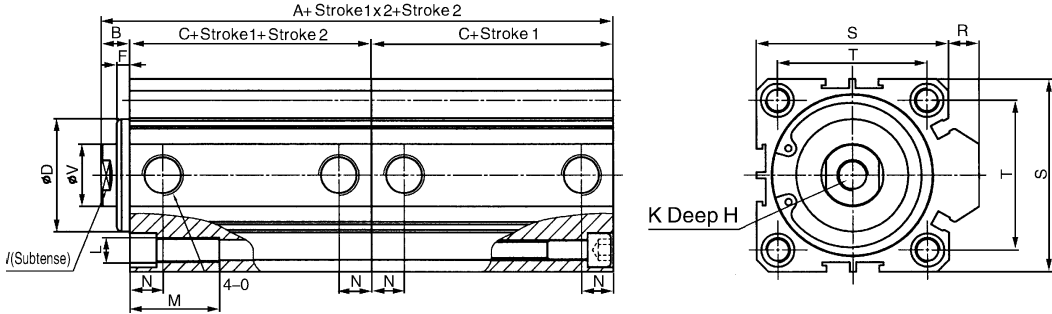


How to order:

SDAP
 40 ×
 50 +
 60 -
 B -
 S

series	bore	stroke	stroke	thread	Magnet						
	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">φ 25</td><td style="padding: 2px;">φ 40</td></tr> <tr><td style="padding: 2px;">φ 63</td><td style="padding: 2px;">φ 80</td></tr> <tr><td style="padding: 2px;">φ 100</td><td></td></tr> </table>	φ 25	φ 40	φ 63	φ 80	φ 100				blank: inner thread B: outer thread H: without thread	S: with magnet blank: without magnet
φ 25	φ 40										
φ 63	φ 80										
φ 100											

Dimension:



type	without magnet		with magnet		C1	D	E		F	G	K1	O	P	P1	P3	P4	S	T1	V	W
	A	C2	A	C2			≤ 10	> 10												
25	49	22	59	32	21	42	10		4	2	M5 × 0.8	M5 × 0.8	8.2	M6 × 1	15	5.5	40	28	10	8
40	60	27	70	37	26	59	12		4	3	M8 × 1.25	G1/8"	10	M8 × 1.25	20	7.5	52	40	16	14
63	74	33	84	43	32	84.5	15		5	4	M10 × 1.5	G1/4"	11	M8 × 1.25	25	8.5	75	60	20	17
80	94	42	104	52	41	104	15	20	6	5	M14 × 1.5	G3/8"	14	M12 × 1.75	25	10.5	94	74	25	22
100	115	52	125	62	51	124	18	20	7	5	M18 × 1.5	G3/8"	17.5	M14 × 2	30	13	114	90	32	27

Multi-pressure thin clinder

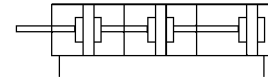
Character:

- By connecting 2,3 or 4 cylinders which have the same bore and stroke,make the push force as 2,3 or 4 times than one cylinder.
- Only need two air ports.
- Attention: Draw-in force is the same as one cylinder.

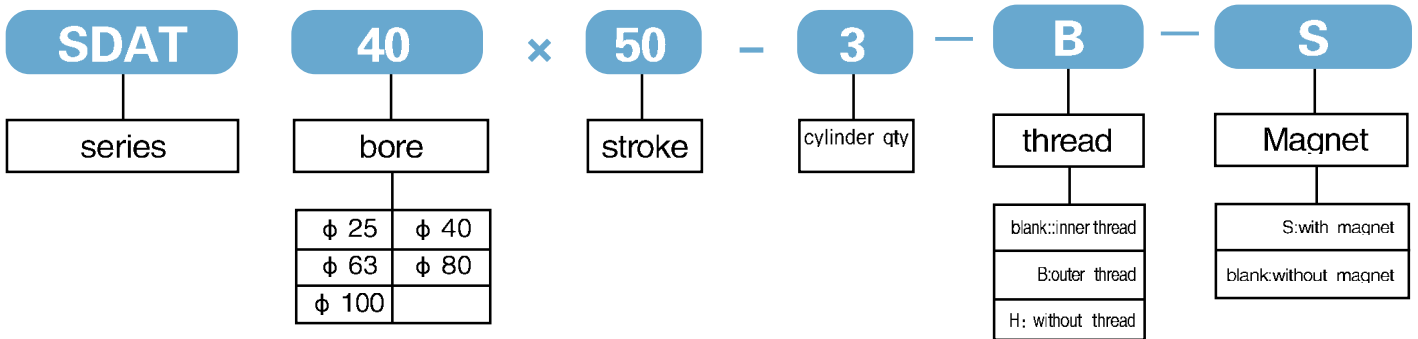


Specification:

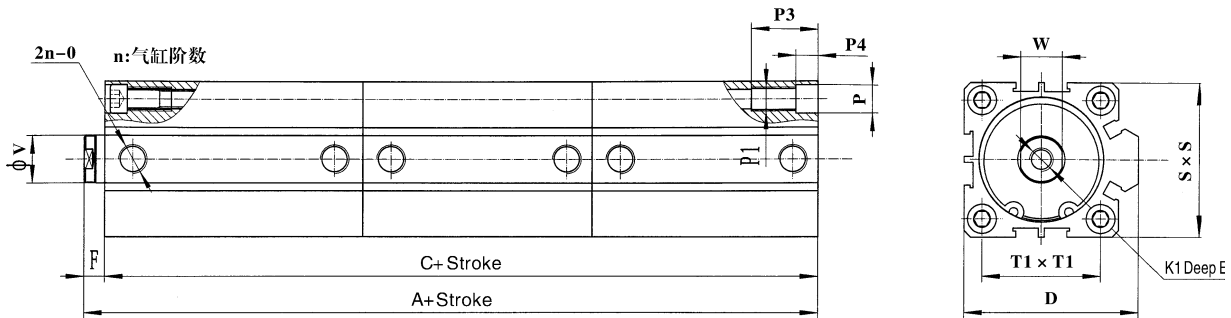
Mode	25	40	63	80	100
Fluid	air				
structure character	type piston cylinder				
Operating pressure range(Mpa)	0.1~1				
Ambient temperature(°C)	-10~70°C				



How to order:



Dimension:



mode	without magnet		with magnet		D	E		F	K1	O	P	P1	P3	P4	S	T1	V	W
	A	C	A	C		≤ 10	> 10											
25	22n+5	22n-1	22n+15	22n+9	42		10	6	M5 × 0.8	M5 × 0.8	8.2	M6 × 1	15	5.5	40	28	10	8
40	27n+6	27n-1	27n+16	27n+9	59		12	7	M8 × 1.25	G1/8"	10	M8 × 1.25	20	7.5	52	40	16	14
63	33n+8	33n-1	33n+18	33n+9	84.5		15	9	M10 × 1.5	G1/4"	11	M8 × 1.25	25	8.5	75	60	20	17
80	42n+10	42n-1	42n+20	42n+9	104	15	20	11	M14 × 1.5	G3/8"	14	M12 × 1.75	25	10.5	94	74	25	22
100	52n+11	52n-1	52n+21	52n+9	124	18	20	12	M18 × 1.5	G3/8"	17.5	M14 × 2	30	13	114	90	32	27

Thin Cylinder

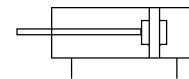
Character:

- Has ultra thin designs, light weight, occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapt to all circumstances.
- Non-lubrication design, may attached with sensor.



Specification:

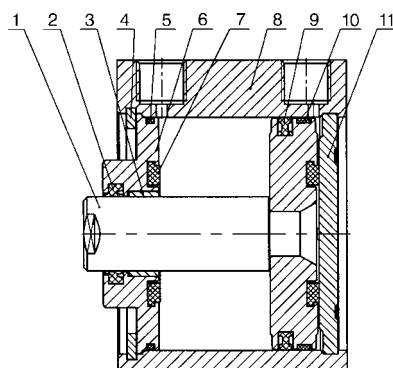
Mode	12	16	20	25	32	40	50	63	80	100	125
Acting type	double acting										
Series	CQ										
Fluid	air										
Operating pressure range (Mpa)	0.1~0.9										
Operating speed (mm/sec)	50~500										
Ambient temperature (°C)	-10~70°C										
Port size	M5		1/8"		1/4"		3/8"				



How to order:

CQ	20	×	100	-	B	S	2
series	bore		stroke		thread type	Magnet	sensor
CQ Standard Cylinder CQD Double axial Cylinder	φ 12 φ 50 φ 16 φ 63 φ 20 φ 80 φ 25 φ 100 φ 32 φ 125 φ 40				blank inner B: outer thread N: without thread	S: with magnet blank: with out magnet	1:1 2:2

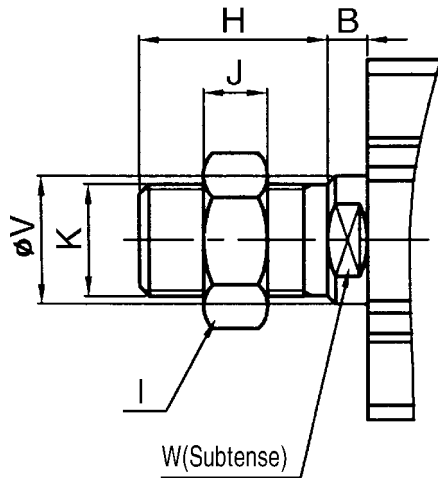
Inner structure drawing:



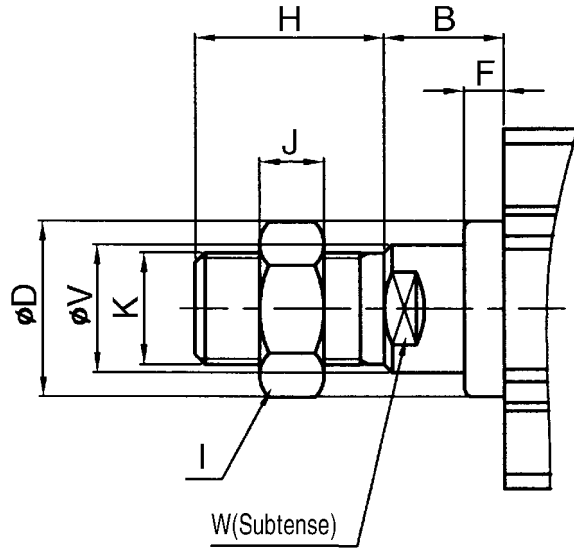
1	Piston rod	7	crashworthy washer
2	compagesseal	8	tube
3	Oiled bearing	9	C-ring
4	Springiness washer	10	guard seals
5	O-ring	11	rear cover
6	front cover	12	

Outer thread dimension:

■ ϕ 12~125



■ ϕ 32~125

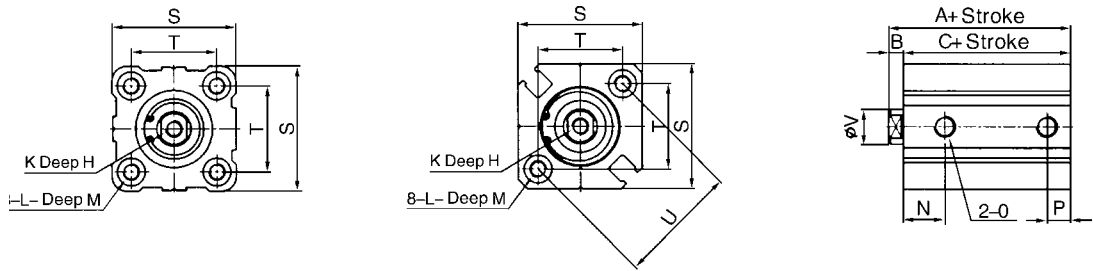


symbol/bore	B	H	I	J	K	V	W
12	3.5	10.5	8	4	M5	6	5
16	3.5	12	10	5	M6	8	6
20	4.5	14	12	6	M8	10	8
25	5	17.5	17	6	M10 × 1.25	12	10
32	5	23.5	19	8	M14 × 1.5	16	14
40	5	23.5	19	8	M14 × 1.5	16	14
50	5	28.5	27	11	M18 × 1.5	20	17
63	5	28.5	27	11	M18 × 1.5	20	17
80	8	35.5	32	13	M22 × 1.5	25	22
100	13	35.5	36	13	M26 × 1.5	32	27
125		45	46	14	M30 × 1.5	36	32

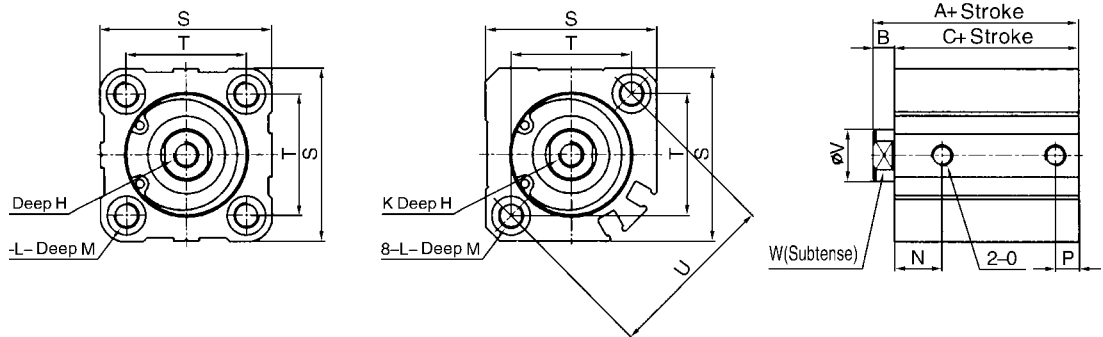
symbol/bore	B	D	F	H	I	J	K	V	W
32	15	22	5	23.5	19	8	M14 × 1.5	16	14
40	15	28	5	23.5	19	8	M14 × 1.5	16	14
50	15	35	5	28.5	27	11	M18 × 1.5	20	17
63	15	35	5	28.5	27	11	M18 × 1.5	20	17
80	18	43	5	35.5	32	13	M22 × 1.5	25	22
100	18	59	5	35.5	36	13	M26 × 1.5	32	27
125	18	63	5	45	46	14	M30 × 1.5	36	32

Standard Dimensions:

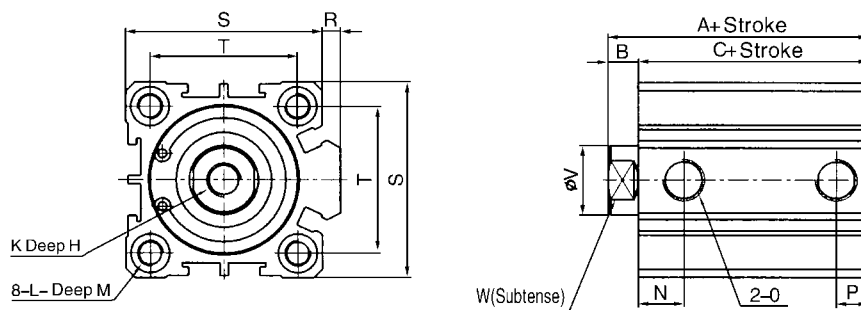
■ ϕ 12~16



■ ϕ 20~25



■ ϕ 32~125
(行程 \leq 100)

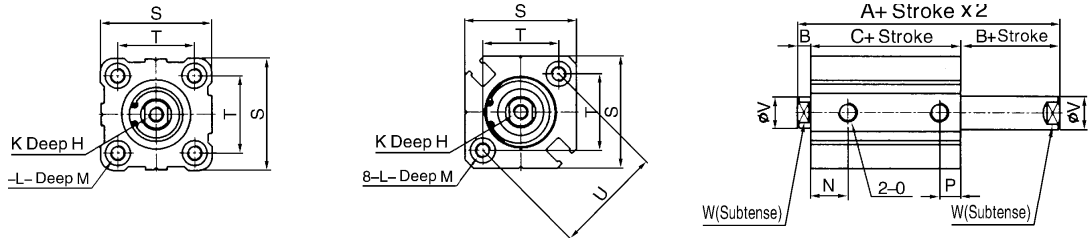


type	standard				with magnet		B	H	K	L
	A		C		A	C				
symbol/bore	stroke \leq 50	stroke \geq 60	stroke \leq 50	stroke \geq 60						
12	12	-	17	-	31.5	28	3.5	6	M3	11
16	16	-	18.5	-	34	30.5	3.5	8	M4	11
20	20	34	19.5	29.5	36	31.5	4.5	7	M5	17
25	25	37.5	22.5	32.5	37.5	32.5	5	12	M6	17
32	stroke=5	40	23	33	40	33	7	13	M8	17
	stroke>5									
40	40	46.5	29.5	39.5	46.5	39.5	7	13	M8	17
50	stroke=5	48.5	30.5	40.5	48.5	40.5	8	15	M10 \times 1.5	22
	stroke>5									
63	stroke=5	54	36	46	54	46	8	15	M10 \times 1.5	28
	stroke>5									
80	80	63.5	43.5	53.5	63.5	53.5	10	20	M16 \times 2	35
100	100	75	53	63	75	63	12	26	M20 \times 2.5	35
125	99		83		99	83	16	30	M22 \times 2.5	35

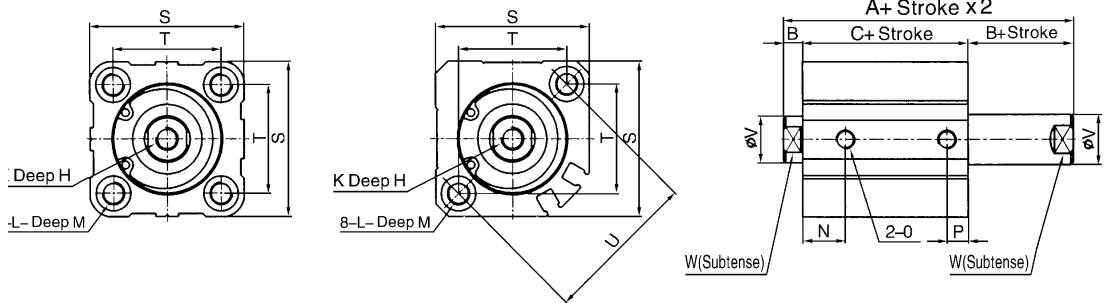
type	M	N		O	P		R	S	T	U	V	W
		standard	with magnet		standard	with magnet						
12	11	7.5	9	12	5	7	-	25	15.5	22	6	5
16	11	8	9.5	16	5.5		-	29	20	28	8	6
20	17	9	9.5	20	5.5		-	36	25.5	36	10	8
25	17	11		25	5.5		-	40	28	40	12	10
32	17	7.5	10.5	32	6.5	7.5	4.5	45	34	-	16	14
		10.5			7.5							
40	17	11		40	8		4	53	40	-	16	14
50	22	9	10.5	50	9	10.5	7	64	50	-	20	17
		10.5			10.5							
63	28	14	15	63	9.5	10.5	7	77	60	-	20	17
		15			10.5							
80	35	16		80	14		6	98	77	-	25	22
100	35	20		100	17.5		6.5	117	94	-	32	27
125	35	24.5		125	24.5		11	142	114	-	36	32

CQD Dimensions:

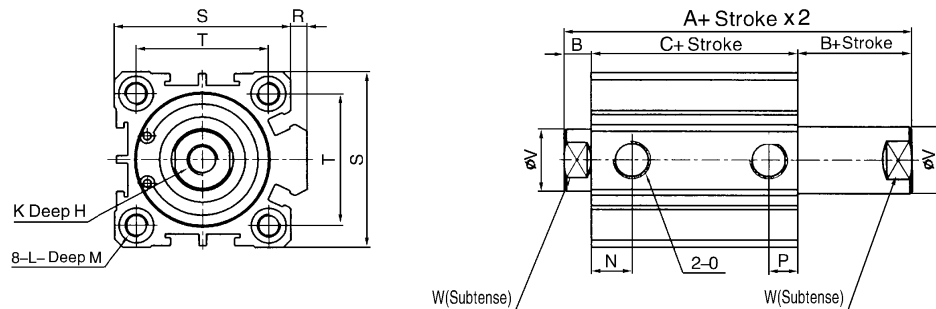
■ ϕ 12~16



■ ϕ 20~25



■ ϕ 32~125
(Stroke \leq 100)



type		standard		with magnet		B	H	K	L
symbol/bore	A	C	A	C					
12	32.2	25.2	39.4	32.4	3.5	6	M3	M4	
16	33	26	43	36	3.5	8	M4	M4	
20	35	26	47	38	4.5	7	M5	M6	
25	39	29	49	39	5	12	M6	M6	
32	44.5	30.5	54.5	40.5	7	13	M8	M6	
40	54	40	64	50	7	13	M8	M6	
50	56.5	40.5	66.5	50.5	8	15	M10	M8	
63	Stroke=5	58	42	68	52	8	12	M10	M10
	Stroke ≤ 10						15		
	Other								
80	Stroke ≤ 15	71	51	81	61	10	14	M16	M12
	Other						20		
	Stroke ≤ 15						84.5		
Other	26								
125	Stroke ≤ 15	115		115		16	22.5	M22	M14
	Other						30		

type		N	O	R	S	T	U	V	W
symbol/bore									
12	3.5	M5	-	25	15.5	6	6	5	
16	3.5	M5	-	29	20	8	8	6	
20	4.5	M5	-	36	25.5	7	10	7	
25	5	M5	-	40	28	12	12	10	
32	7	G1/8"	4.5	45	34	13	16	14	
40	7	G1/8"	4	53	40	13	16	14	
50	8	G1/4"	7	64	50	15	20	17	
63	Stroke=5	12	G1/4"	7	77	60	-	20	17
	Stroke ≤ 10	16							
	Other								
80	Stroke ≤ 15	16	G3/8"	6	98	77	-	25	22
	Other								
	Stroke ≤ 15								
Other									
125	Stroke ≤ 15	24.5	G3/8"	11	142	114	-	36	32
	Other								

Compact Cylinder

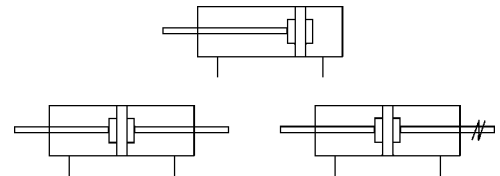
Character:

- Has ultra thin designs, light weight, occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapt to all circumstances.
- Non-lubrication design, may attached with sensor.



Specification:

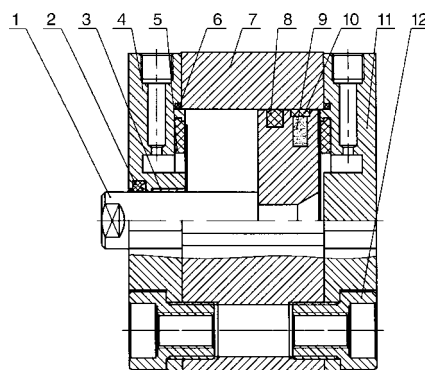
Mode	20	25	32	40	50	63	80	100	125
Motion	double acting								
Series	ADVU, ADVUB, ADVUD, ADVUJ								
Fluid	air								
Operating pressure range (Mpa)	0.1~0.9								
Operating speed (mm/sec)	50~500								
Ambient temperature (°C)	-10~70°C								
Port size	M5	1/8"	1/4"	3/8"					



How to order:

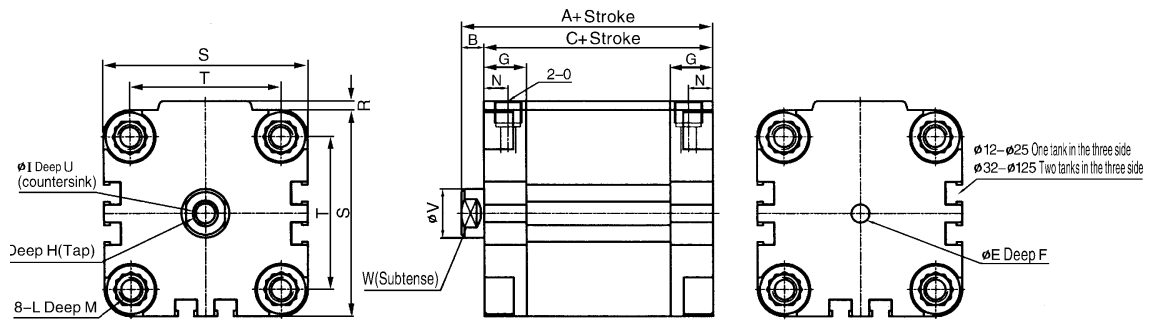
ADVU	50	×	40	-	B	S	2
series	bore		stroke		thread type	Magnet	sensor
ADVU Standard Cylinder	φ 20 φ 63				blank inner	S: with magnet	1:1
ADVUD Double axial Cylinder	φ 25 φ 80				B: outer thread	blank with out magnet	2:2
ADVUJ Double adjustable axial cylinder	φ 32 φ 100				N: without thread		
	φ 40 φ 125						
	φ 50						

Inner structure drawing:



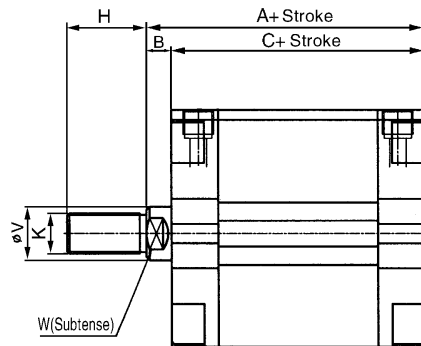
1	Piston rod	7	tube
2	compagesseal	8	C-ring
3	Oiled bearing	9	Magnet ring
4	front cover	10	guard seals
5	crashworthy washer	11	rear cover
6	O-ring	12	End screw

Dimension :



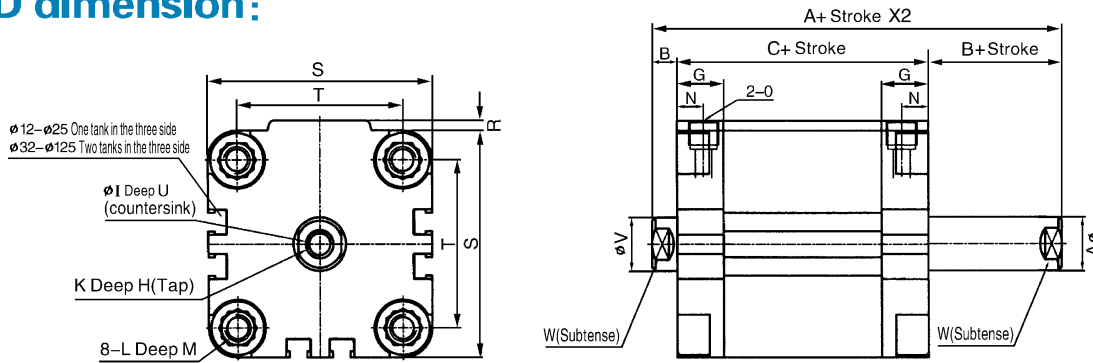
symbol/bore	A	B	C	E	F	G	H	I	K	L	M	N	O	R	S	T	U	V	W
20	42.5	4.5	38	6	4	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8
25	45	5.5	39.5	6	4	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8
32	50.5	6	44.5	6	4	14	14	6.5	M6	M6	21.5	8	G1/8"	2	50	32	2.6	12	10
40	52	6.5	45.5	6	4	14	14	6.5	M6	M6	21.5	8	G1/8"	2.5	60	42	2.6	12	10
50	53	7.5	45.5	6	4	14	16	8.5	M8	M8	22	8	G1/8"	3	68	50	3.3	16	13
63	57.5	7.5	50	8	4	15	16	8.5	M8	M10	24.5	8	G1/8"	4	87	62	3.3	16	13
80	64	8	56	8	4	16	20	10.5	M10	M10	27.5	8.5	G1/8"	4	107	82	4.7	20	17
100	76.5	10	66.5	8	4	19	24	12.5	M12	M10	32.5	10.5	G1/4"	5	128	103	6.1	25	22
125	92	11	81	8	4	20	24	12.5	M12	M10	32.5	10.5	G1/4"	-	134	110	6.1	25	22

ADVUB dimension :



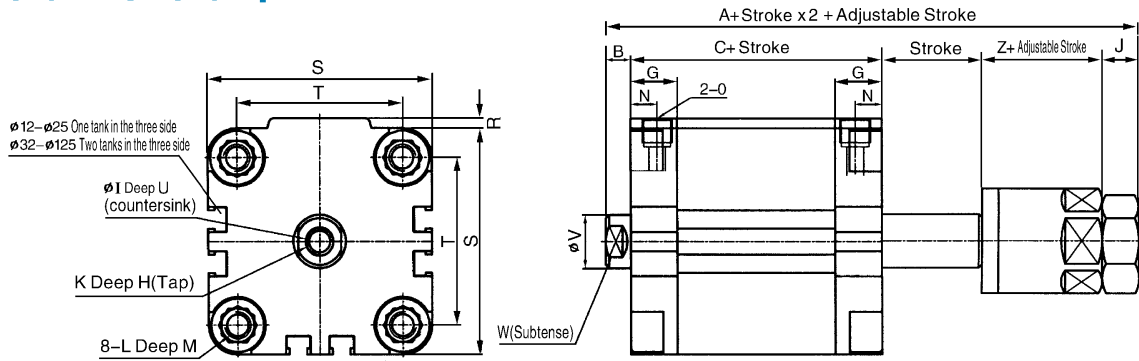
symbol/bore	A	B	C	H	K	V	W
20	42.5	4.5	38	22	M10 x 1.25	10	8
25	45	5.5	39.5	22	M10 x 1.25	10	8
32	50.5	6	44.5	22	M10 x 1.25	12	10
40	52	6.5	45.5	22	M10 x 1.25	12	10
50	53	7.5	45.5	24	M12 x 1.25	16	13
63	57.5	7.5	50	24	M12 x 1.25	16	13
80	64	8	56	32	M16 x 1.5	20	17
100	76.5	10	66.5	40	M20 x 1.5	25	22
125	92	11	81	40	M20 x 1.5	25	22

ADVUD dimension:



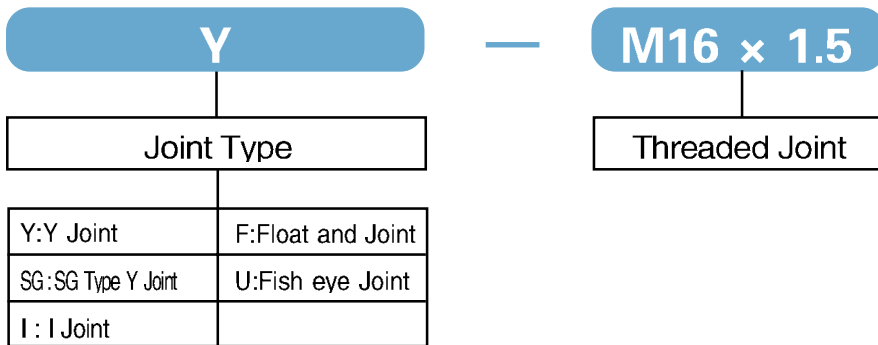
symbol/bore	A	B	C	G	H	I	K	L	M	N	O	R	S	T	U	V	W
12	47	4.5	38	11.5	8	3.3	M3	M4	18.5	7	M5	1	29	18	1.5	6	5
16	47	4.5	38	11.5	10	4.5	M4	M4	18.5	7	M5	1	29	18	1.5	8	6
20	47	4.5	38	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8
25	50.5	5.5	39.5	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8
32	56.5	6	44.5	14	14	6.5	M6	M6	21.5	8	G1/8"	2	50	32	2.6	12	10
40	58.5	6.5	45.5	14	14	6.5	M6	M6	21.5	8	G1/8"	2.5	60	42	2.6	12	10
50	60.5	7.5	45.5	14	16	8.5	M8	M8	22	8	G1/8"	3	68	50	3.3	16	13
63	65	7.5	50	15	16	8.5	M8	M10	24.5	8	G1/8"	4	87	62	3.3	16	13
80	72	8	56	16	20	10.5	M10	M10	27.5	8.5	G1/8"	4	107	82	4.7	20	17
100	86.5	10	66.5	19	24	12.5	M12	M10	32.5	10.5	G1/4"	5	128	103	6.1	25	22
125	103	11	81	20	24	12.5	M12	M10	32.5	10.5	G1/4"	-	134	110	6.1	25	22

ADVUJ dimension:



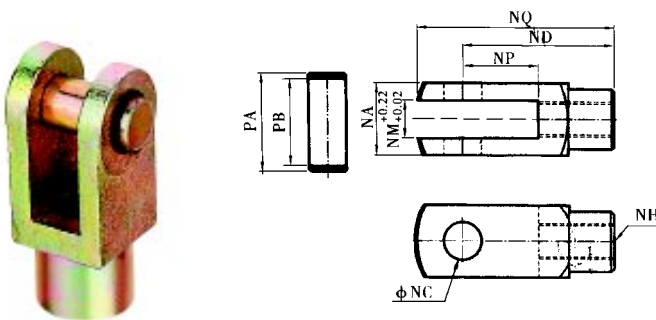
symbol/bore	A	B	C	G	H	I	K	L	M	N	O	R	S	T	U	V	W	Z
12	63.5	4.5	38	11.5	8	3.3	M3	M4	18.5	7	M5	1	29	18	1.5	6	5	16
16	67.5	4.5	38	11.5	10	4.5	M4	M4	18.5	7	M5	1	29	18	1.5	8	6	19
20	69.5	4.5	38	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8	21
25	72	5.5	39.5	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8	21
32	77.5	6	44.5	14	14	6.5	M6	M6	21.5	8	G1/8"	2	50	32	2.6	12	10	21
40	79	6.5	45.5	14	14	6.5	M6	M6	21.5	8	G1/8"	2.5	60	42	2.6	12	10	21
50	81	7.5	45.5	14	16	8.5	M8	M8	22	8	G1/8"	3	68	50	3.3	16	13	21
63	85.5	7.5	50	15	16	8.5	M8	M10	24.5	8	G1/8"	4	87	62	3.3	16	13	21
80	95	8	56	16	20	10.5	M10	M10	27.5	8.5	G1/8"	4	107	82	4.7	20	17	23
100	115.5	10	66.5	19	24	12.5	M12	M10	32.5	10.5	G1/4"	5	128	103	6.1	25	22	29
125	131	11	81	20	24	12.5	M12	M10	32.5	10.5	G1/4"	-	134	110	6.1	25	22	29

How to order:

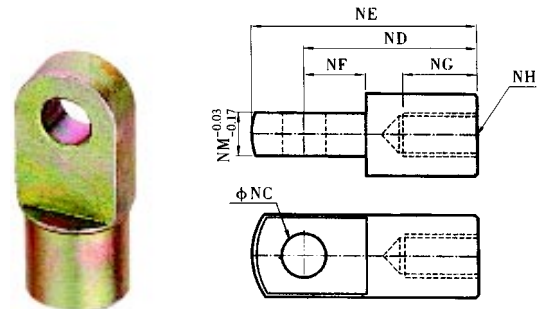


Joint Dimention:

Y Joint

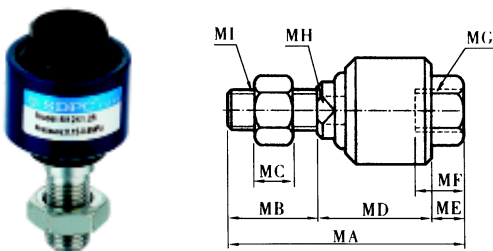


I Joint



Type	Threaded Joint(M)	NA	NC	ND	NE	NG	NM	NP	NQ	PA	PB
Y-M10 x 1.25	M10 x 1.25	19	10	40	52	20	10	20	52	26.2	20
Y-M12 x 1.25	M12 x 1.25	25.4	12	48	67	20	12	24	62	32.8	26.5
Y-M16 x 1.5	M16 x 1.5	33	16	64	89	23	16	32	83	39.3	33
Y-M16 x 1.5	M16 x 1.5	33	16	64	89	23	16	32	83	39.3	33
Y-M20 x 1.5	M20 x 1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y-M20 x 1.5	M20 x 1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y-M27 x 2	M27 x 2	64	20	102	119	56	32	50	119	73	67
Y-M36 x 2	M36 x 2	82	28	125	155	72	41	60	155	90	83
Y-M36 x 2	M36 x 2	82	28	125	155	72	41	60	155	90	83

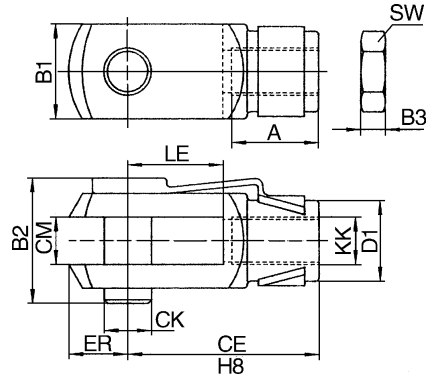
Float and Joint



Type	Threaded Joint (M)	MA	MB	MC	MD	ME	MH	MI
F-M10 x 1.25	M10 x 1.25	73	20	6	45	8	12	M10 x 1.25
F-M12 x 1.25	M12 x 1.25	77	24	7	46	7	12	M12 x 1.25
F-M16 x 1.5	M16 x 1.5	106	32	8	62	12	19	M16 x 1.5
F-M16 x 1.5	M16 x 1.5	106	32	8	62	12	19	M16 x 1.5
F-M20 x 1.5	M20 x 1.5	122	40	10	68	14	19	M20 x 1.5
F-M20 x 1.5	M20 x 1.5	122	40	10	68	14	19	M20 x 1.5
F-M27 x 2	M27 x 2	147	54	13.5	77	16	24	M27 x 2
F-M36 x 2	M36 x 2	251	72	18	161	18	36	M36 x 2
F-M36 x 2	M36 x 2	251	72	18	161	18	36	M36 x 2

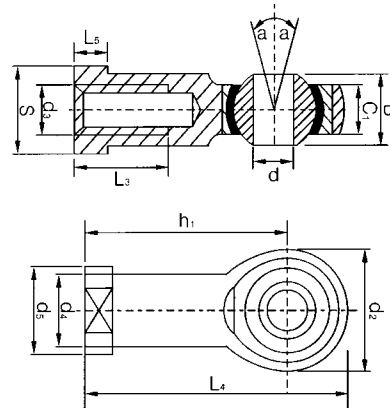
Joint Dimention:

SG Type Y Joint



Type	Threaded Joint(M)	A	B1	B2	B3	CE/H8	CK	CM	D1	ER	LE	SW
SG-M6	M6	12	12	16	3.2	24	6	6	6	7	12	10
SG-M8	M8	16	16	21.5	4	32	8	8	8	10	16	13
SG-M10	M10	20	20	26	5	40	10	10	10	12	20	17
SG-M10 × 1.25	M10 × 1.25	20	20	26	5	40	10	10	10	12	20	17
SG-M12	M12	24	24	31	6	48	12	12	12	14	24	19
SG-M12 × 1.25	M12 × 1.25	24	24	31	6	48	12	12	12	14	24	19
SG-M16	M16	32	32	39	8	64	16	16	16	19	32	24
SG-M16 × 1.5	M16 × 1.5	32	32	39	8	64	16	16	16	19	32	24
SG-M20	M20	24	40	53	10	60	20	20	20	24	36	30
SG-M20 × 1.5	M20 × 1.5	40	40	53	10	80	20	20	20	25	40	30
SG-M27 × 2-B	M27 × 2-B	56	55	74	13.5	110	30	30	30	38	54	41
SG-M36 × 2	M36 × 2	56	70	90.5	18	144	35	35	35	44	72	55

Fish eye Joint

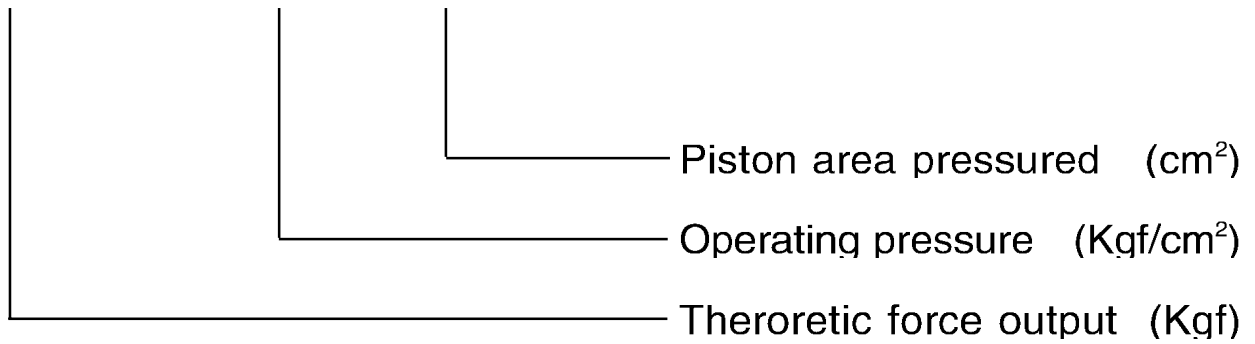


Type	Threaded Joint(M)	d	d2	d5	S	B	L5	C1	h1	L3	d4	L4
U-M6 × 1	M6 × 1	6	20	13	11	9	5	6.75	30	12	10	45
U-M8 × 1.25	M8 × 1.25	8	24	16	14	12	5	9	36	16	12.5	48
U-M10 × 1.25	M10 × 1.25	10	28	19	17	14	6.5	10.5	43	20	15	57
U-M12 × 1.75	M12 × 1.75	12	32	22	19	16	6.5	12	50	22	17.5	66
U-M14 × 2	M14 × 2	14	36	25	22	19	8	13.5	57	25	20	75
U-M16 × 2	M16 × 2	16	40	27	22	21	8	15	64	28	22	84
U-M18 × 1.5	M18 × 1.5	18	46	31	27	23	10	16.5	71	32	25	94
U-M20 × 1.5	M20 × 1.5	20	50	34	30	25	10	18	77	33	27.5	102
U-M22 × 1.5	M22 × 1.5	22	54	37	32	28	12	20	84	37	30	111
U-M24 × 2	M24 × 2	25	60	42	30	31	12	22	94	42	33.5	124
U-M27 × 2	M27 × 2	28	66	46	41	35	14	26	103	41	37	136
U-M36 × 2	M36 × 2	30	70	50	41	37	15	25	110	51	40	145

Double shaft cylinder

Theroretic force output formulate:

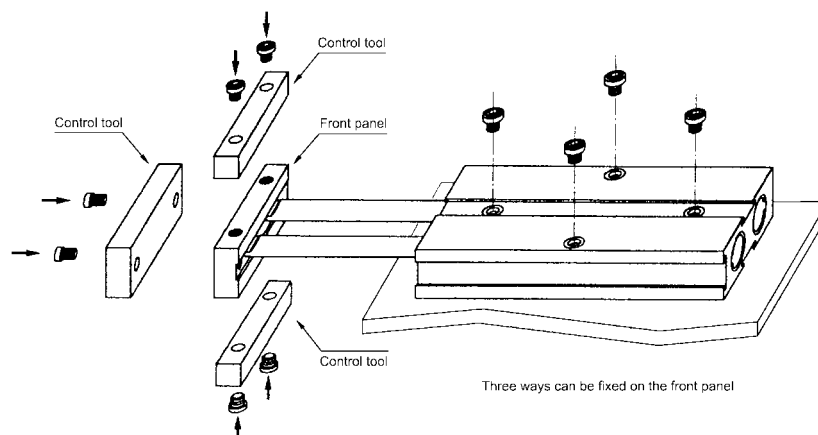
$$F = 2 \times P \times A$$



Theroretic force output fig.:

boremm	piston rod dia.mm	acting type	compressed area (cm ²)	Air pressure (kgf/cm ²)							
				1	2	3	4	5	6	7	
10	6	double acting	pushside	1.57	-	3.14	4.70	6.28	7.84	9.42	10.98
			draw side	1.00	-	2.00	3.00	4.00	5.00	6.00	7.00
16	8	double acting	pushside	4.02	4.02	8.04	12.06	16.08	20.10	24.12	28.14
			draw side	3.01	3.01	6.02	9.03	12.04	15.05	18.06	21.07
20	10	double acting	pushside	6.28	6.28	12.56	18.84	25.12	31.40	37.68	43.96
			draw side	4.71	4.71	9.42	14.13	18.84	23.55	28.26	32.97
25	12	double acting	pushside	9.81	9.81	19.62	29.43	39.24	49.05	58.86	68.67
			draw side	7.55	7.55	15.10	22.65	30.20	37.75	45.30	52.85
32	16	double acting	pushside	16.07	16.07	32.14	48.21	64.28	80.35	96.42	112.49
			draw side	12.05	12.05	24.10	36.15	48.20	60.25	72.30	84.35

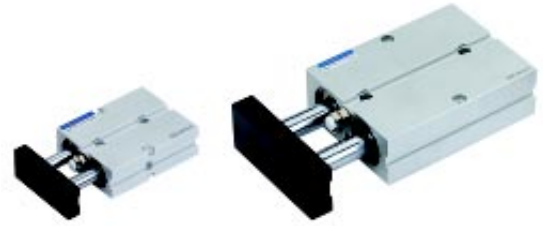
Mounting type:



Double shaft cylinder

Character:

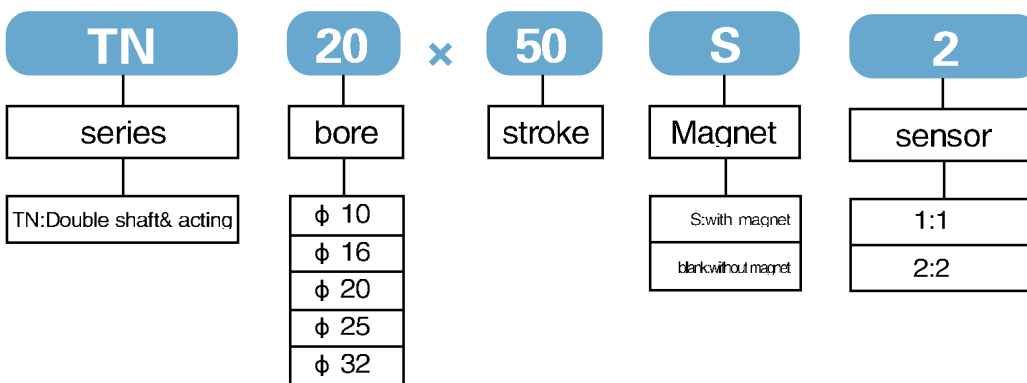
- Double piston rods make good anti-bend and torsion , warrant its life and preeminent guiding performance.
- Assemble the groove in advance,make it easier when assemble,set and adjust sensor switch.
- No need parts and save the space.
- Has simple design and easy naitenance and disassembly.



Specification:

Mode	10	16	20	25	32
Motion	double acting				
Fluid	air				
Pressure range Kgf/cm ²	1-9				
Warrant endure-pressure Kgf/cm ²	10.5				
Ambient temperature range °C	0-70				
Speed range mm/s	100-500				
Stroke adjustable mm	-10-0				
Cushion type	no	cushion sheet			
Port size		M5 × 0.8			G1/8"

How to order:

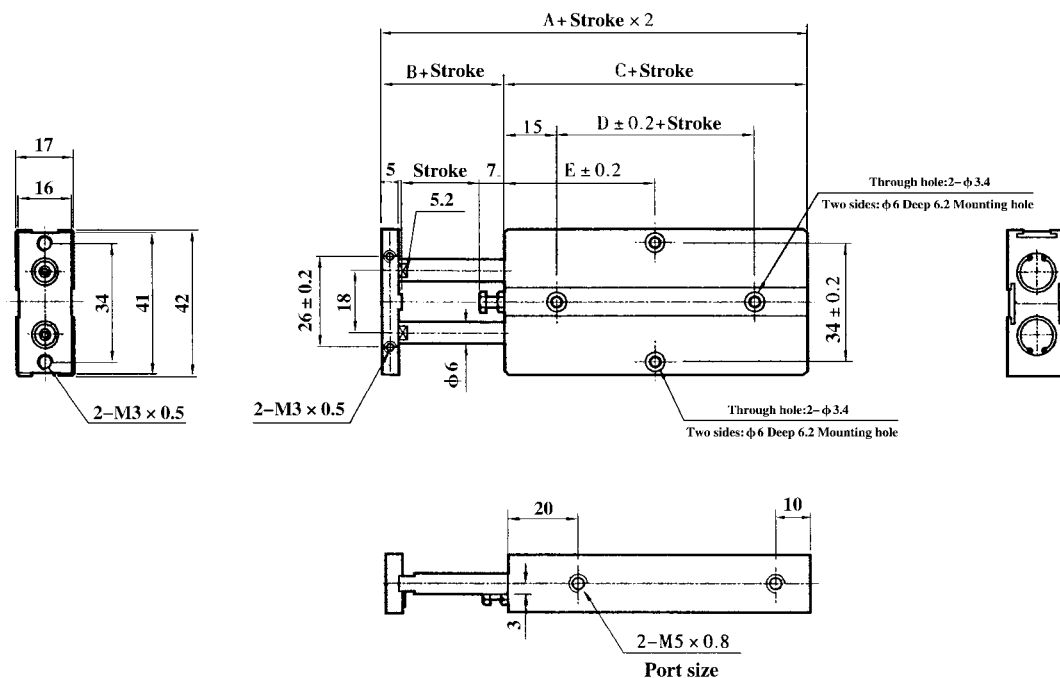


Stroke:

Bore(mm)	standard stroke														max. stroke	stroke permitted
10	10	20	30	40	50	60	70								70	100
16	10	20	30	40	50	60	70	80	90	100	125	150	150	200		
20	10	20	30	40	50	60	70	80	90	100	125	150	150	200		
25	10	20	30	40	50	60	70	80	90	100	125	150	150	200		
32	10	20	30	40	50	60	70	80	90	100	125	150	150	200		

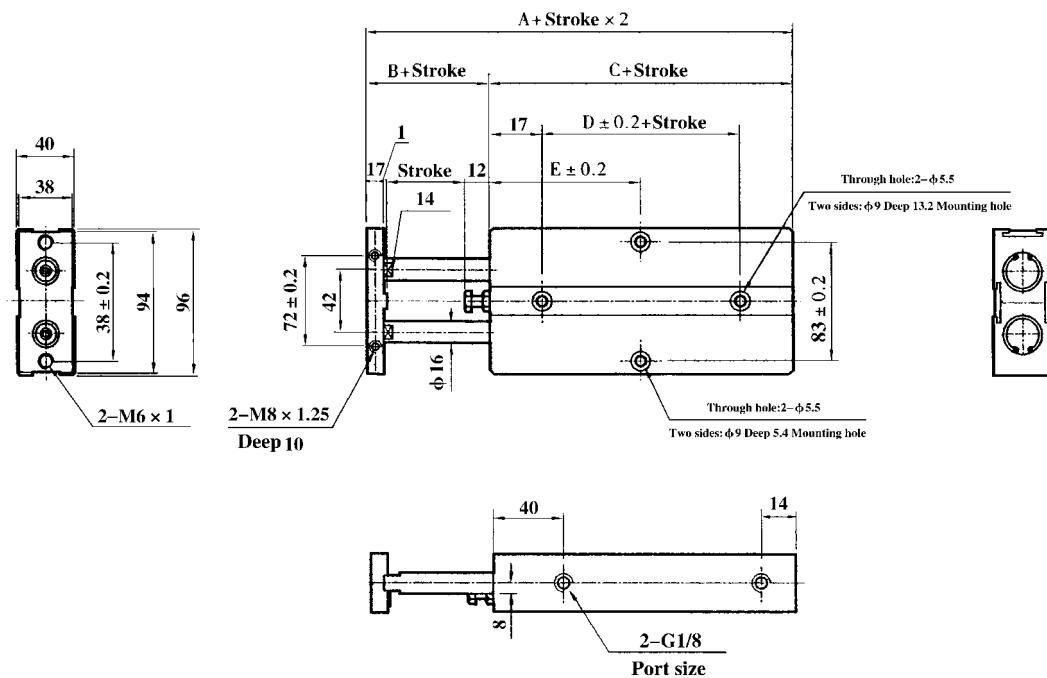
Dimension:

■ $\phi 10$



symbol	A	B	C	D	E						
					10	20	30	40	50	60	70
10	58	12	46	10	30	30	35	40	45	50	55

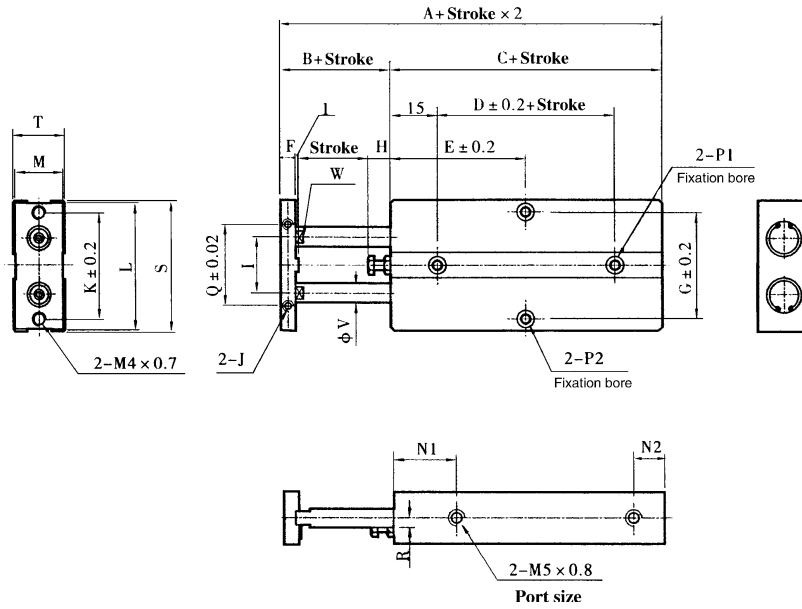
■ $\phi 10$



symbol	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	

Dimension:

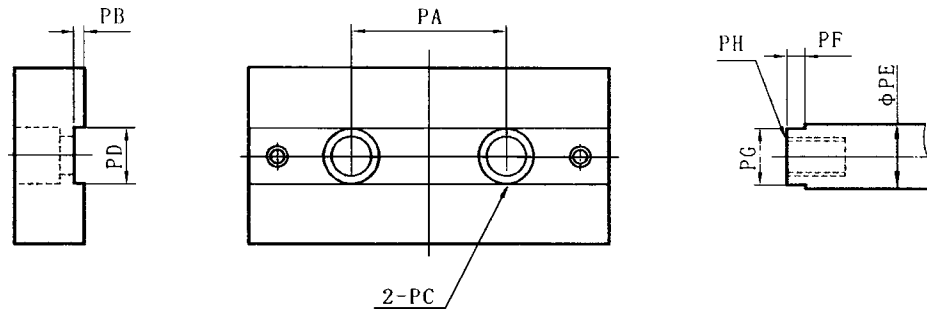
■ $\phi 10 \sim \phi 25$



symbol	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

symbol	J	K	L	M	N1	N2	P1	P1	Q	R	S	T	V	W
16	M4 x 0.7 depth 5	47	53	20	22	10	Double: $\phi 7.5$ depth 7.2mm, Clearance: $\phi 4.5$	Double: $\phi 8$ depth 4.4mm, Clearance: $\phi 4.5$	34	4	54	21	8	6.2
20	M4 x 0.7 depth 5	55	61	24	25	12	Double: $\phi 7.5$ depth 7.2mm, Clearance: $\phi 4.5$	Double: $\phi 8$ depth 4.4mm, Clearance: $\phi 4.5$	44	6	62	25	10	8.2
25	M4 x 0.8 depth 6	66	72	29	30	12	Double: $\phi 7.5$ depth 7.2mm, Clearance: $\phi 4.5$	Double: $\phi 8$ depth 4.4mm, Clearance: $\phi 4.5$	56	7	73	30	12	10.2

Front board dimension:



symbol/bore	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.5	$\phi 6.2$ depth 3.5mm, Clearance: $\phi 4.5$	5.2	6	3	5.2	M3 x 0.5 depth 5mm
16	24	1	$\phi 7.8$ depth 4.6mm, Clearance: $\phi 4.5$	6.2	8	3	6.2	M4 x 0.7 depth 6mm
20	28	1	$\phi 11$ depth 6.8mm, Clearance: $\phi 4.5$	8.2	10	3	8.2	M6 x 1 depth 8mm
25	34	1	$\phi 11$ depth 6.8mm, Clearance: $\phi 4.5$	10.2	12	3	10.2	M6 x 1 depth 8mm
32	42	2	$\phi 17$ depth 12mm, Clearance: $\phi 4.5$	14	16	3	14	M10 x 1.5 depth 14mm

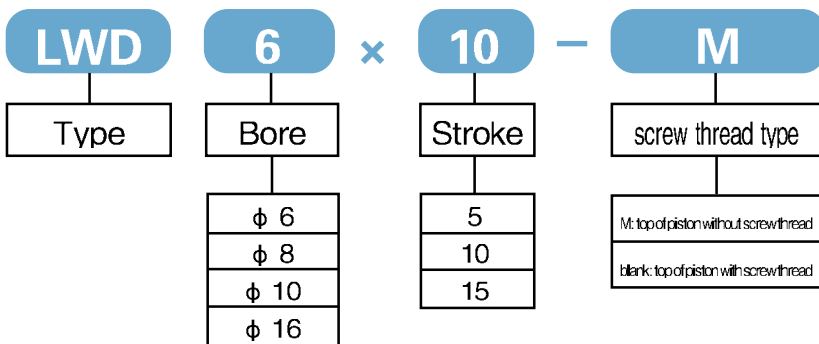
Screw thread cylinder

Specification:

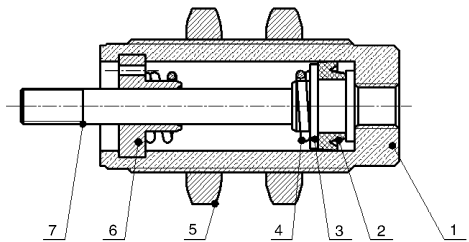
Mode	6	8	10	16
Motion	Single acting type			
Fluit	Air			
Operating pressure range (Mpa)	5,10,15			
Stroke	0.2~0.8			
Ambient temperature(°C)	-10~60			
Portsize	M5 × 0.8			



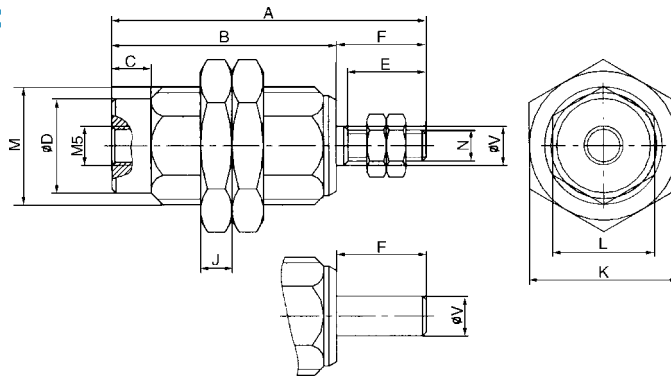
How to order:



Inner structure drawing:



Dimension:



①	Cu tube with nickel
②	NBR Y -ring
③	AL piston
④	Stainless steel spring
⑤	steel screw cap with nickel
⑥	Cu axial with nickel
⑦	Stainless steel piston rod

Bore	A	B	C	D	E	F	J	K	L	M	N	V
LWD6 × 5	29.5	21	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD6 × 10	34.5	26	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD6 × 15	41.5	33	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD8 × 5	31	21	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD8 × 10	39	29	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD8 × 15	44	34	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD10 × 5	35	23.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD10 × 10	40	28.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD10 × 15	47	35.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD16 × 5	38	23	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6
LWD16 × 10	48.5	33.5	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6
LWD16 × 15	53.5	38.5	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6

Mini Cylinder

Character:

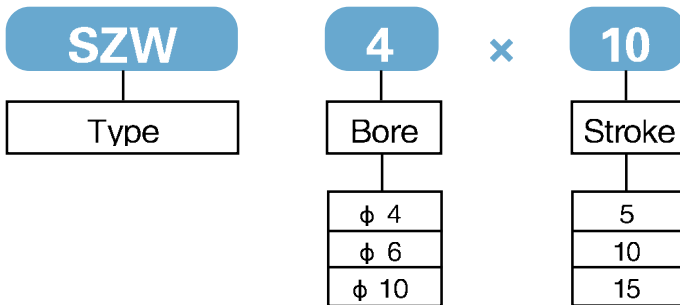
- Adopt Stainless steel tube, light, precise, friction & corrosion durable.
- Use imported non-lubrication oil seal, fits for high speed movement.
- Tube and covers made by roll extrusion.
- Unique design and assembly warrant its in line.



Specification:

Mode	4	6	10
Motion	Single acting type		
Fluit	Air		
Series	SZW		
Operating pressure range (Mpa)	0.15~0.7		
Operating speed (mm/sec)	50~500		
Ambient temperature (°C)	-10~70		
Port size	M5		

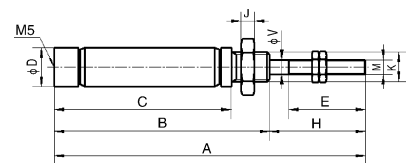
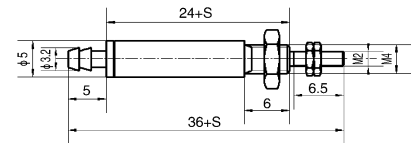
How to order:



Dimension:

SZW4 × Stroke(5、10MM)

SZW6~10 × Stroke(5、10、15MM)



Specification	A	B	C	D	E	H	J	K	M	V
SZW6X10	65	45	37	8	16	20	4.5	M6	M3	3
SZW6X15	70	50	42	8	16	20	4.5	M6	M3	3
SZW10X10	74	54	46	11	15	20	3	M8X1	M4	4
SZW10X15	79	59	51	11	15	20	3	M8X1	M4	4

Air Oil Pressure transition Cylinder

Character:

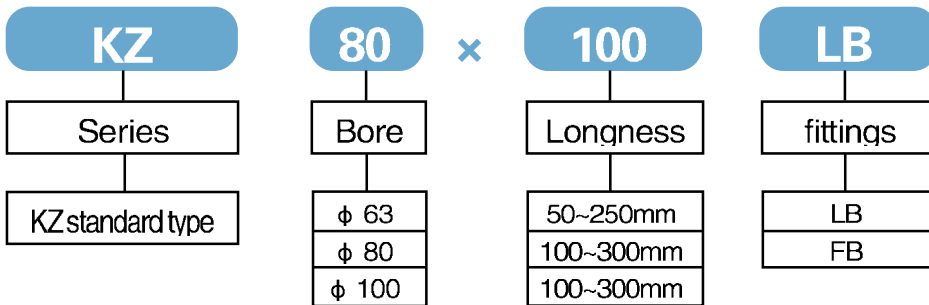
- Provide a simple source of power for low pressure hydraulic cylinders.
- Suitable for slow, stable movement.
- The tanks must be mounted vertically at the highest point of the circuit.
- Fill oil into the tanks not over 80% of the full volume.
- Flow controls are recommended to avoid excessive foaming in tanks.



Specification:

Acting type	Air Oil Pressure transition Cylinder
Series	KZ
Bore	φ 63, φ 80, φ 100
Fluid	ISOVG32
Operating pressure range (Mpa)	0.07~0.99
Resistance (MPa)	1.5
Ambient temperature(°C)	-10~70

How to order:

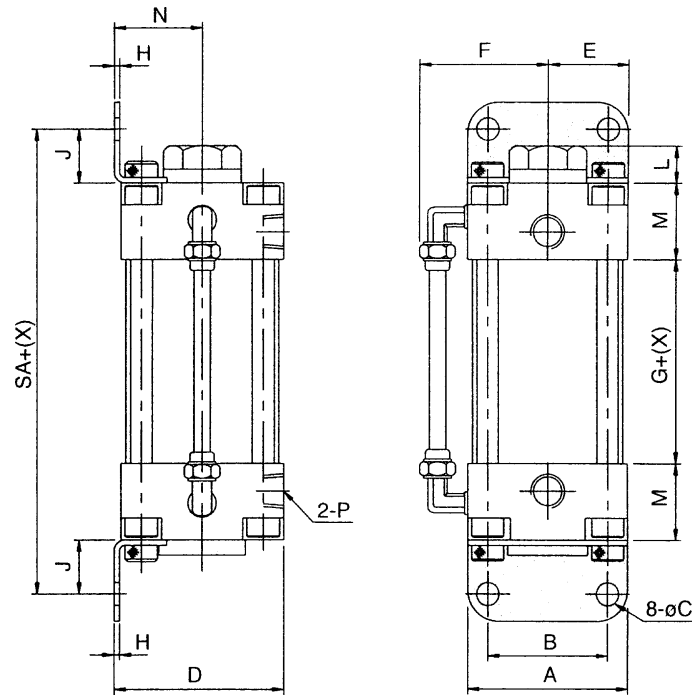


Optional:

Bore	Φ 63						Φ 80						Φ 100						
	50	75	125	150	200	250	100	125	150	200	250	300	100	125	150	200	250	300	
Cylinder stroke range																			
Bore	φ 40	100 under	101-125	101-150	151-200		251-300	201-250		301-350									
	φ 50	50 under	75 under	51-100			151-200	101-150			251-300			201-250					
	φ 63		50 under		75 under			51-100		101-150			201-250	151-200	251-300				
	φ 80				50 under				75 under				101-150	51-100				101-150	151-200
	φ 100									50 under				51-100					

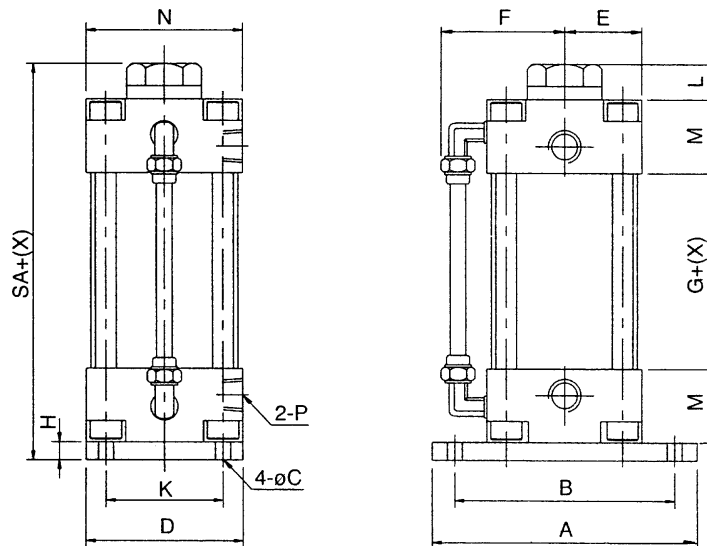
Dimension :

■ Foot bracket(LB)



Bore	A	B	C	D	E	F	G	H	J	L	M	N	P	S
φ 63	80	56	12	79	37.5	56.5	32	3.2	31	14	32	41	PT3/8"	12
φ 80	97	70	14	96	47	69	39	4	30	15	36	49	PT3/8"	12
φ 100	112	85	14	114	56.6	76.5	39	4	30	15.5	36	57	PT1/2"	12

■ Rear flanges(FB)



Bore	A	B	C	D	E	F	G	H	J	L	M	N	P	S
φ 63	120	100	9	80	37.5	56.5	32	14	50	14	32	75	PT3/8"	12
φ 80	154	126	12	96	47	69	39	16	63	15	36	94	PT3/8"	12
φ 100	180	150	14	120	56.5	76.5	39	16	75	15.5	36	113	PT1/2"	12

Air–Oil power cylinder

Operational principle:

BS series air–oil power cylinder,drives by pure air pressure.Use scale of sectional area which from big and small piston,converts the low air pressure to high pressure oil,the output rate of supercharging reach around 25:1. Mainly for stamping work,such as stamping,riveting, bending and so on.

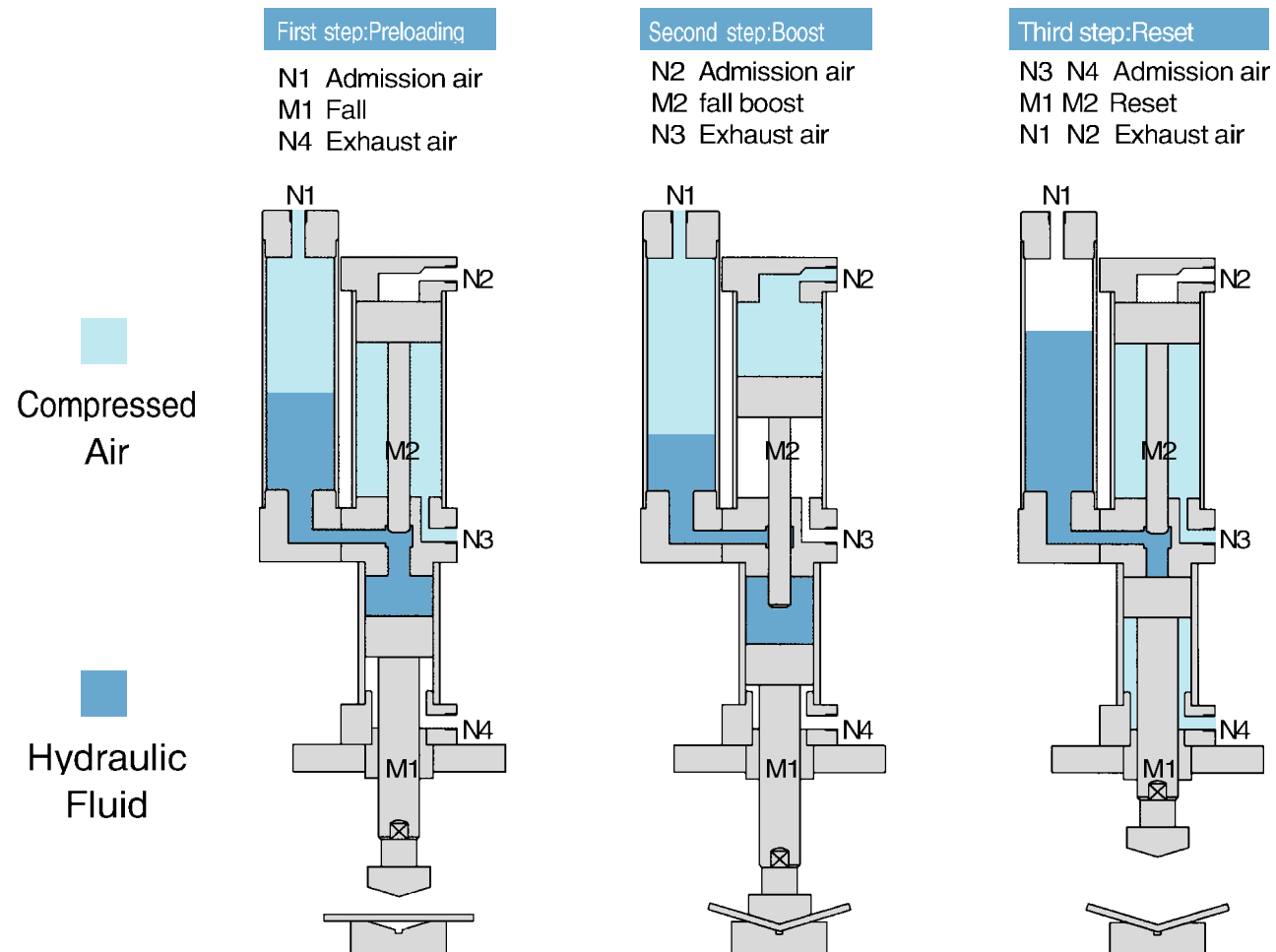
Characteristic:

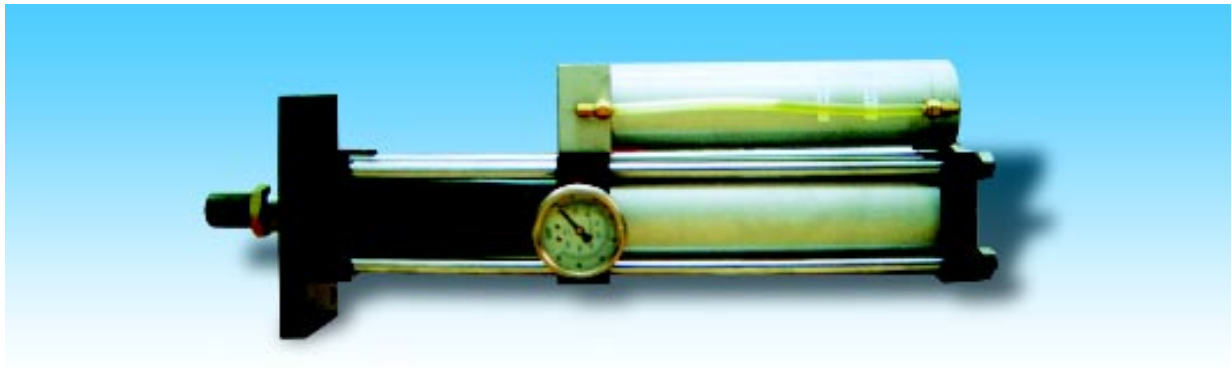
- The speed of pneumatic system and stability of hydraulic system integrates air–oil power cylinder
- Driven by pressured air ,produce power 1–40T
- Without shake and noise when working,improves quality of workpiece and life of mold.
- Design to save energy when continue pressure or stop action,not like pure hydraulic system
- Simple device,easy to control and maintain.
- Driven by pneumatic source, clean working environment, servicing easily.
- Simple and light,easy to handle.
- Stroke of capacity is limited
- Mainly for stamping work,such as bending, shear, pulling, riveting, marking and pressure assembly etc.

Installation and maintenance:

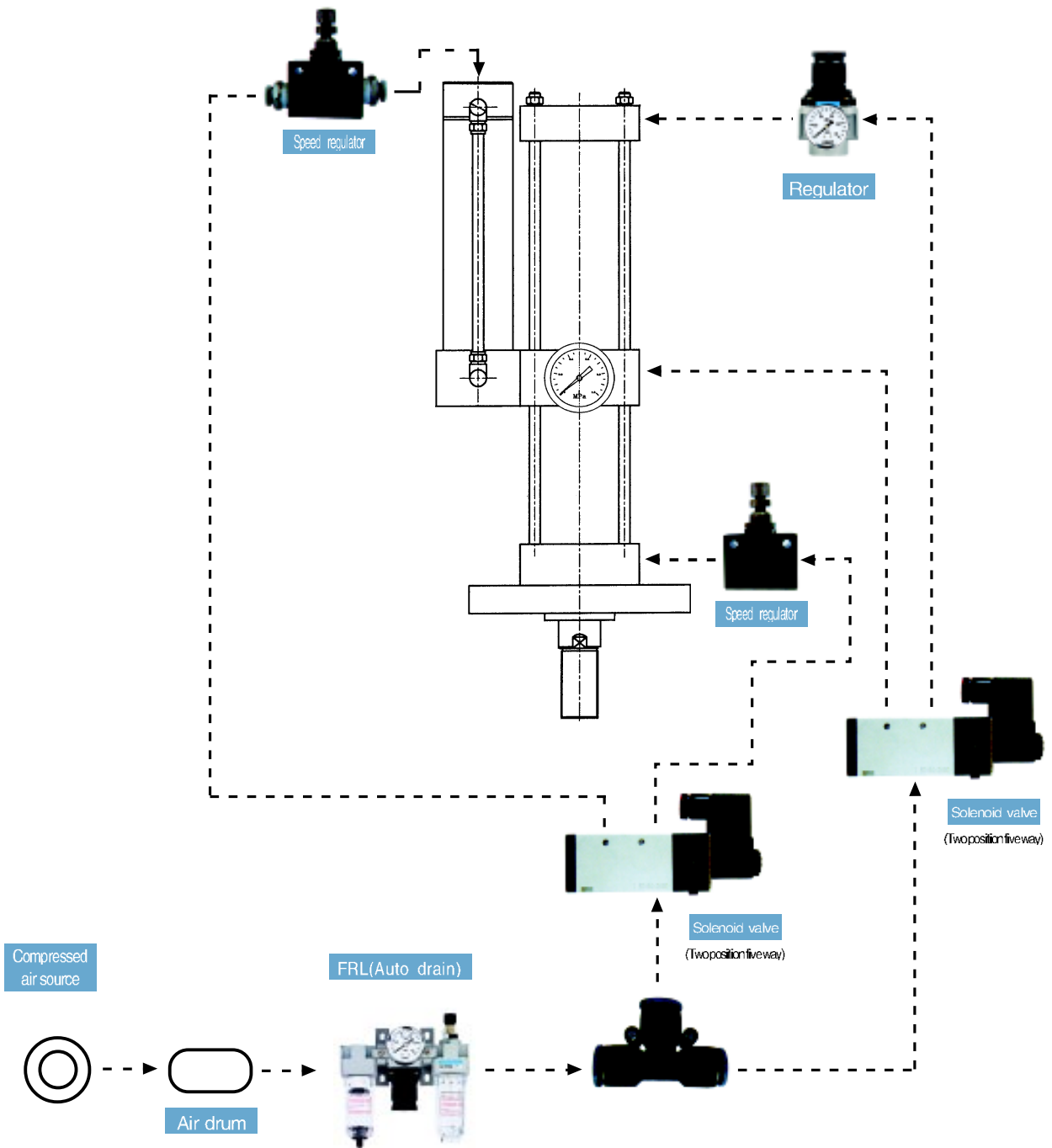
- Adopt multi–directional mounting,general use flange mounting,power axis is downward
- In using,the piston should avoids big radial load
- After install,run 2–3times in the work pressure range and without load
- The power source from filter of compressed dry air,pressure about 2–7kg/cm²
- The temperature range is –5~+60C for air–oil power cylinder,special requirements with OEM.
- It will be loss power oil after use of long–term,it need add in time.

Instructions:



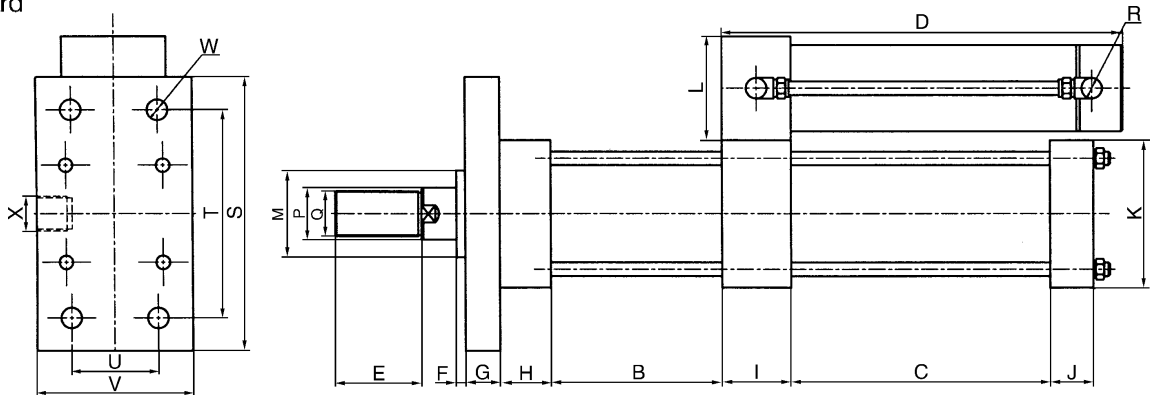


Recommend circuit diagram for standard air-oil power pressure



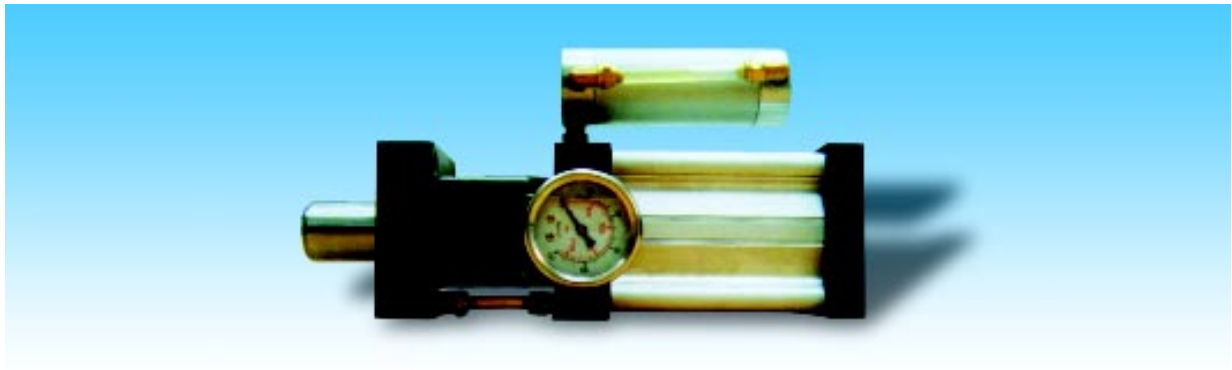
Dimension:

■ Standard

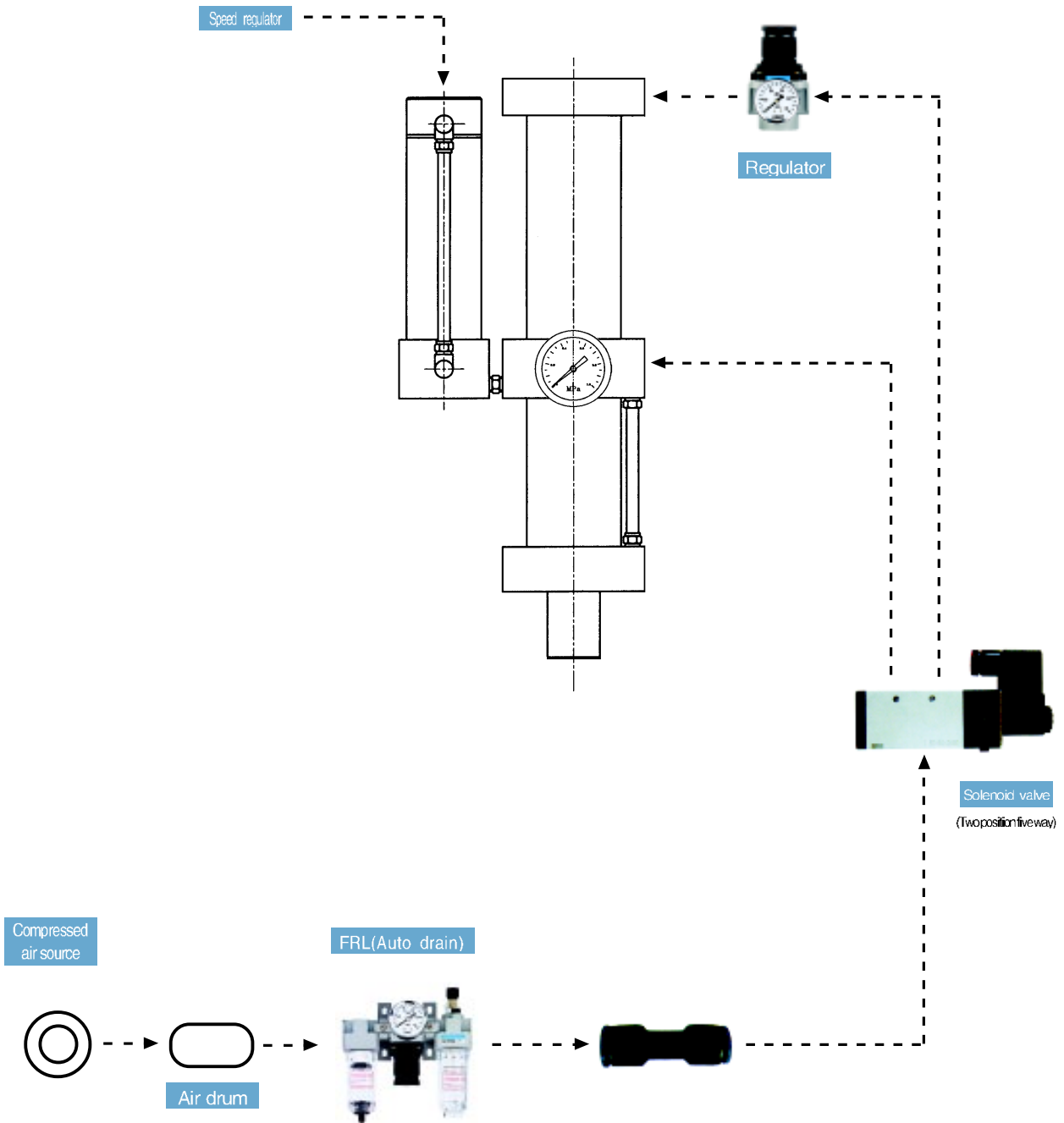


Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	85 × 85	60 × 60	φ 50	75	φ 30	M26 × 1.5	G1/4"	156	120	90	50	φ 12	G1/4"
63(3T)	50	5	20	35	40	25	100 × 100	69 × 69	φ 55	75	φ 35	M30 × 1.5	G3/8"	190	150	105	65	φ 14	G3/8"
80(5T)	50	5	20	35	40	25	114 × 114	90 × 90	φ 55	90	φ 35	M30 × 1.5	G3/8"	220	170	120	70	φ 16	G3/8"
100(10T)	55	5	25	40	40	30	140 × 140	112 × 112	φ 65	90	φ 45	M40 × 2	G1/2"	250	200	145	80	φ 20	G1/2"
100(13T)	55	5	25	40	40	30	140 × 140	112 × 112	φ 65	90	φ 45	M40 × 2	G1/2"	250	200	145	80	φ 20	G1/2"
125(15T)	55	5	25	40	50	30	180 × 180	112 × 112	φ 80	90	φ 60	M50 × 2	G1/2"	320	250	190	120	φ 22	G1/2"
125(20T)	55	5	25	40	50	30	180 × 180	112 × 112	φ 80	90	φ 60	M50 × 2	G1/2"	320	250	190	120	φ 22	G1/2"
160(30T)	55	5	30	40	60	40	210 × 210	140 × 140	φ 100	90	φ 60	M63 × 2	G3/4"	355	290	218	140	φ 30	G3/4"
160(40T)	55	5	40	40	60	40	250 × 250	140 × 140	φ 100	90	φ 80	M63 × 2	G3/4"	390	320	240	160	φ 35	G3/4"

Tonnage	TTL stroke	Boost stroke	A				D	TTL stroke	Boost stroke	A				D	TTL stroke	Boost stroke	A				D			
			A	B	C	D				A	B	C	D				A	B	C	D				
1T	50	5	350	105	110	260	100	5	400	105	110	310	155	5	450	205	110	360	200	5	500	255	110	410
		10	400		160			10	450		160			10	500		160			10	550		160	
		15	450		210			15	500		210			15	550		210			15	600		210	
		20	500		260			20	550		260			20	600		260			20	650		260	
3T	50	5	360	110	110	260	100	5	410	110	110	310	160	5	460	210	110	360	200	5	510	260	110	410
		10	410		160			10	460		160			10	510		160			10	560		160	
		15	460		210			15	510		210			15	560		210			15	610		210	
		20	510		260			20	560		260			20	610		260			20	660		260	
5T	50	5	380	110	130	290	100	5	430	110	130	340	160	5	480	210	130	390	200	5	500	260	130	440
		10	445		195			10	495		195			10	545		195			10	595		195	
		15	510		260			15	560		260			15	610		260			15	660		260	
		20	575		325			20	625		325			20	675		325			20	730		325	
10T	50	5	360	125	130	295	100	5	465	125	130	345	175	5	515	225	130	395	200	5	565	275	130	445
		10	410		195			10	530		195			10	580		195			10	630		195	
		15	460		260			15	595		260			15	645		260			15	695		260	
		20	510		325			20	660		325			20	710		325			20	760		325	
13T	50	5	430	125	145	295	100	5	480	125	145	310	175	5	530	225	145	395	200	5	580	275	145	445
		10	510		225			10	560		225			10	610		225			10	660		225	
		15	590		305			15	640		305			15	690		305			15	740		305	
		20	670		385			20	720		385			20	770		385			20	820		385	
15T	50	5	443	130	138	295	100	5	493	130	138	345	180	5	543	230	138	395	200	5	593	280	138	445
		10	508		203			10	558		203			10	608		203			10	658		203	
		15	573		268			15	623		268			15	673		268			15	723		268	
		20	638		333			20	688		333			20	738		333			20	788		333	
20T	50	5	468	130	163	295	100	5	518	130	163	345	180	5	568	230	163	395	200	5	618	280	163	445
		10	558		253			10	608		253			10	658		253			10	708		253	
		15	648		343			15	698		343			15	748		343			15	798		343	
		20	738		433			20	788		433			20	838		433			20	888		433	
30T	50	5	526	130	191	300	100	5	576	130	191	350	180	5	626	230	191	400	200	5	676	280	191	450
		10	631		296			10	681		296			10	731		296			10	781		296	
		15	738		401			15	786		401			15	836		401			15	886		401	
		20	841		506			20	891		506			20	941		506			20	991		506	
40T	50	5	536	130	191	300	100	5	586	130	191	350	180	5	636	230	191	400	200	5	686	280	191	450
		10	641		296			10	691		296			10	741		296			10	791		296	
		15	746		401			15	796		401			15	846		401			15	896		401	
		20	851		506			20	901		506			20	951		506			20	1001		506	

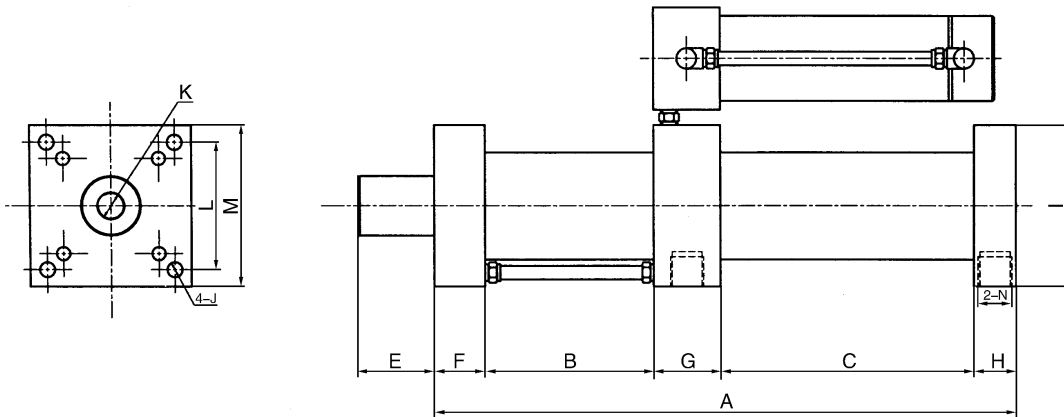


Recommend circuit diagram for vertical compression air-oil power pressure



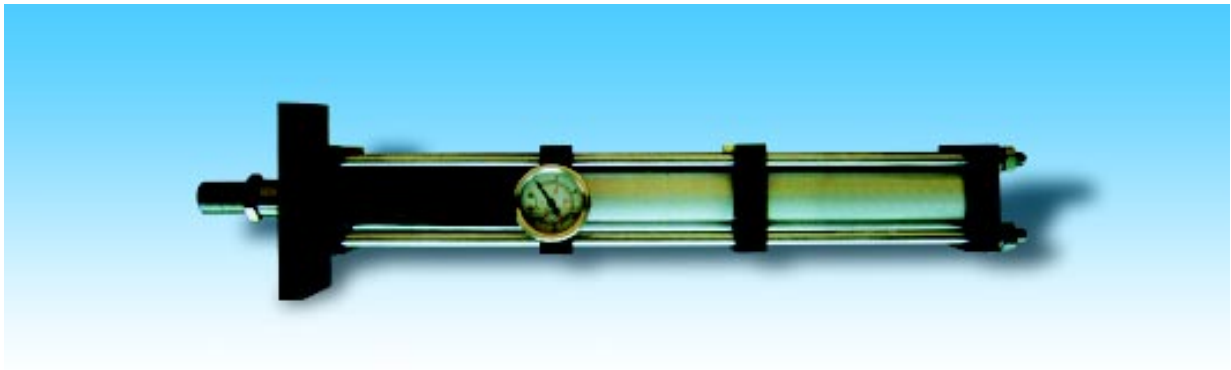
Dimension:

■ vertical compression

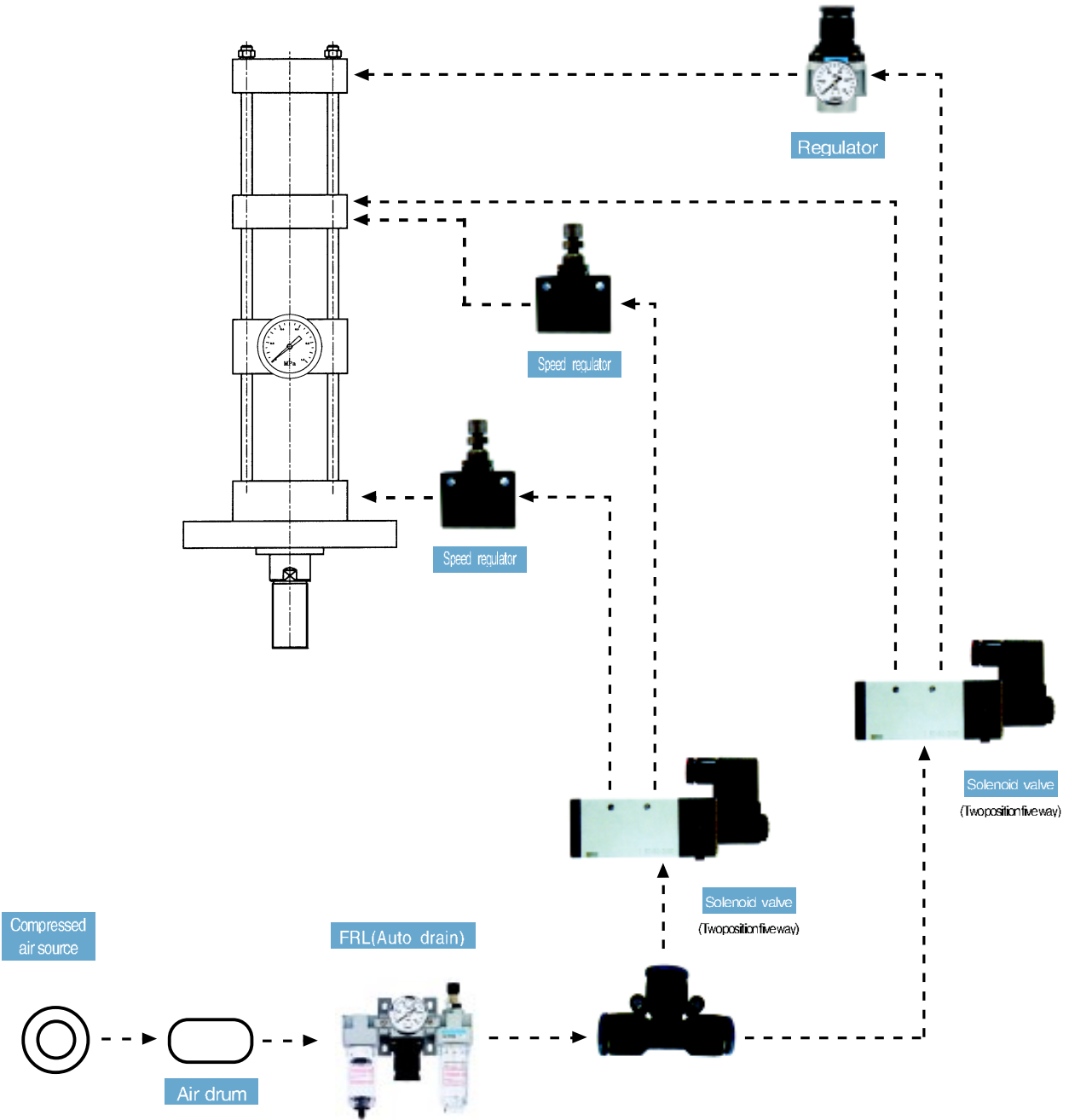


Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N
50(1T)	50	30	30	20	95 × 95	φ 9	M16 深 25	75 × 75	95 × 95	G1/4"
50(2T)	50	30	30	20	95 × 95	φ 9	M16 深 25	75 × 75	95 × 95	G1/4"
63(3T)	50	30	30	20	114 × 114	φ 11	M16 深 25	92 × 92	114 × 114	G1/4"
63(5T)	50	30	30	20	114 × 114	φ 11	M16 深 25	92 × 92	114 × 114	G1/4"
80(5T)	50	40	40	30	140 × 140	φ 13	M16 深 25	110 × 110	140 × 140	G3/8"

Tonnage	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	
1T	5	231	60	91	2T	5	241	60	101	3T	5	251	65	106	5T	5	275	65	130	8T	5	306	65	131
	10	261	65	116		10	286	65	141		10	296	70	146		10	375	105	190		10	401	95	196
	15	291	70	141		15	356	90	181		15	366	100	186		15	495	165	250		15	531	160	261
	20	326	80	166		20	436	135	221		20	446	140	226		20	615	225	310		20	661	225	326

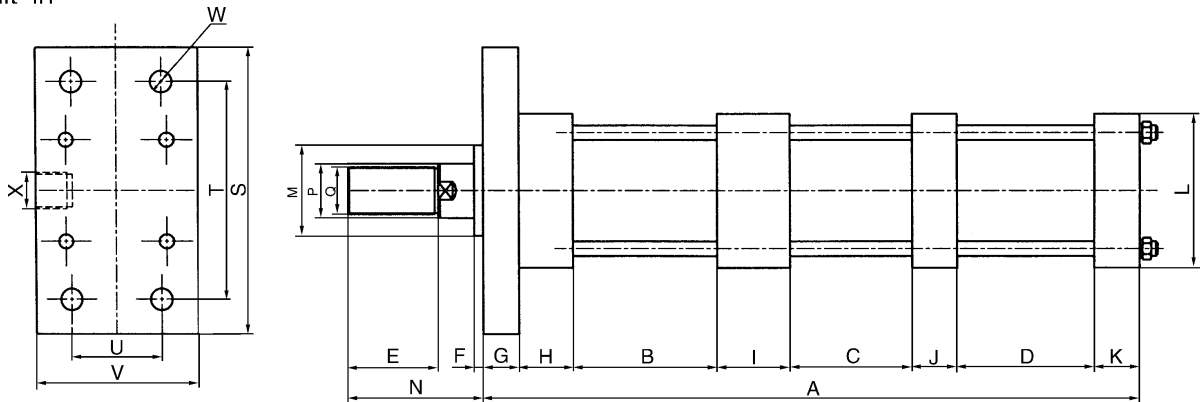


Recommend circuit diagram for built-in air-oil power pressure



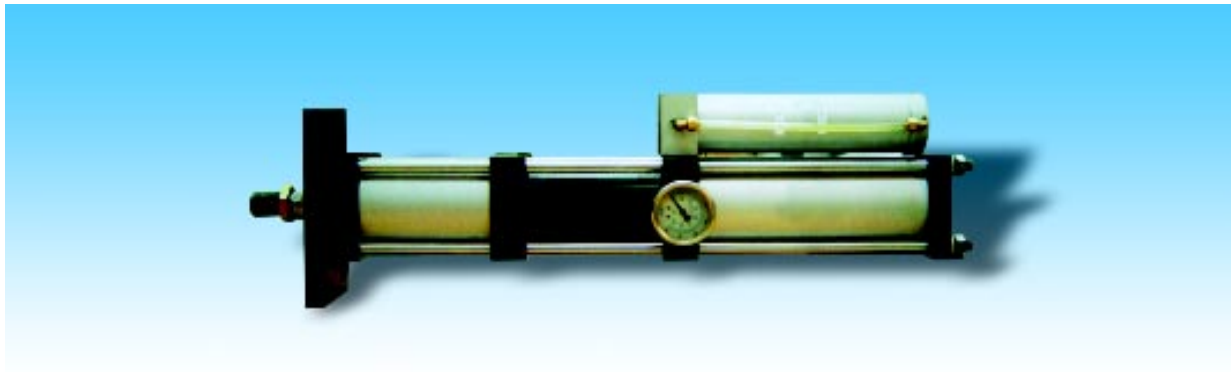
Dimension:

■ Built-in

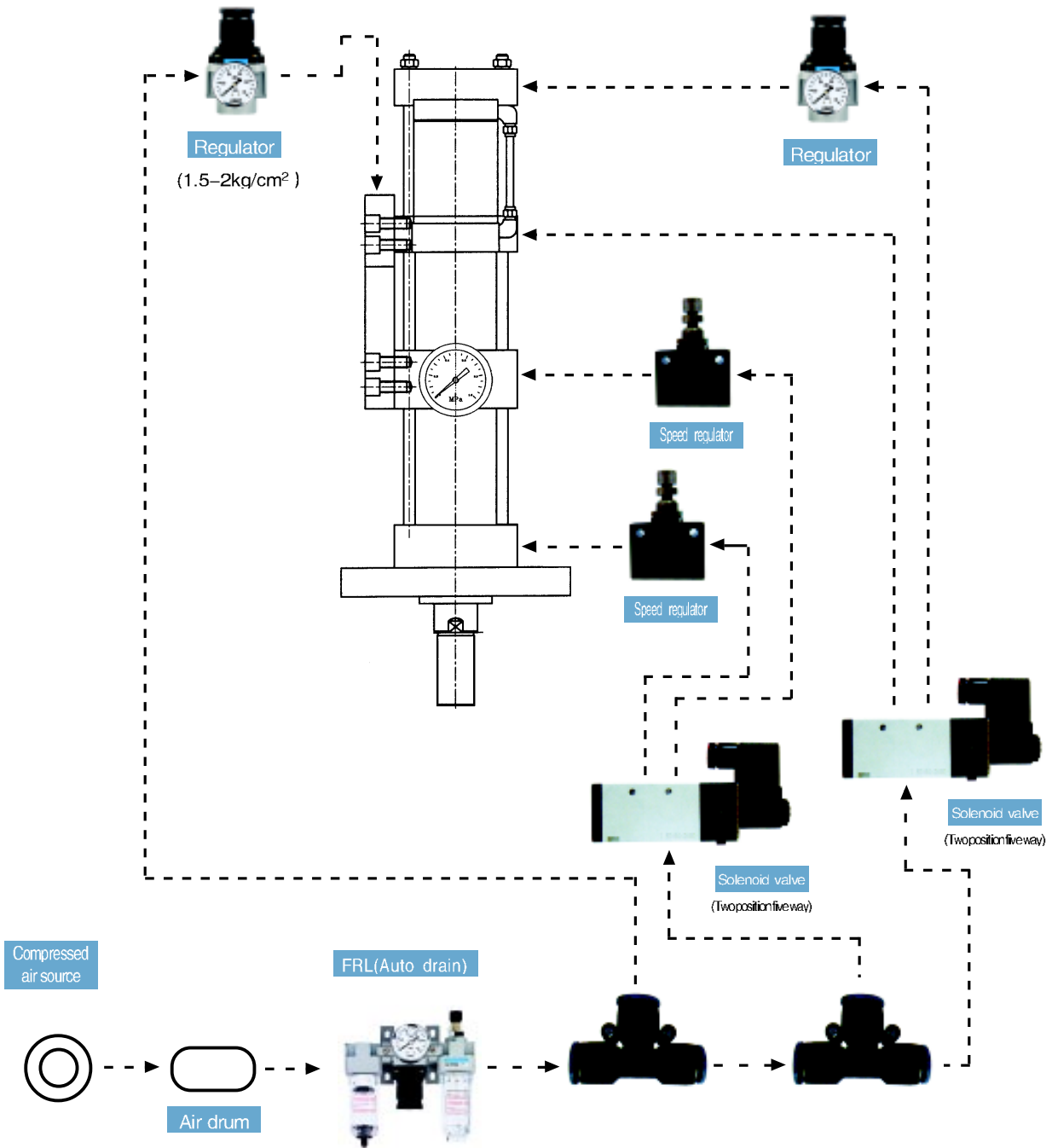


Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	25	85 × 85	ϕ 50	75	ϕ 30	M26 × 1.5	156	120	90	50	ϕ 12	G1/4"
63(3T)	50	5	20	35	40	25	25	100 × 100	ϕ 55	75	ϕ 35	M30 × 1.5	190	150	105	65	ϕ 14	G3/8"
80(5T)	50	5	20	35	40	25	25	114 × 114	ϕ 55	90	ϕ 35	M30 × 1.5	220	170	120	70	ϕ 16	G3/8"
100(10T)	55	5	25	40	40	30	30	140 × 140	ϕ 65	90	ϕ 45	M40 × 2	250	200	145	80	ϕ 20	G1/2"
100(13T)	55	5	25	40	40	30	30	140 × 140	ϕ 65	90	ϕ 45	M40 × 2	250	200	145	80	ϕ 20	G1/2"
125(15T)	55	5	25	40	50	30	30	180 × 180	ϕ 80	90	ϕ 60	M50 × 2	320	250	190	120	ϕ 22	G1/2"
125(20T)	55	5	25	40	50	30	30	180 × 180	ϕ 80	90	ϕ 60	M50 × 2	320	250	190	120	ϕ 22	G1/2"
160(30T)	55	5	30	40	60	40	40	210 × 210	ϕ 100	90	ϕ 60	M63 × 2	355	290	218	140	ϕ 30	G3/4"
160(40T)	55	5	40	40	60	40	40	250 × 250	ϕ 100	90	ϕ 80	M63 × 2	390	320	240	160	ϕ 35	G3/4"

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D					
1T	50	5	475	110	110	110	100	5	555	160	135	110	150	5	640	210	170	110	200	5	720	260	110
		10	525			160		10	605			160		10	690			160		10	770		
		15	575			210		15	655			210		15	740			210		15	820		
		20	625			260		20	705			260		20	790			260		20	870		
3T	50	5	495	115	105	110	100	5	575	165	135	110	150	5	660	215	170	110	200	5	740	265	105
		10	545			160		10	625			160		10	710			160		10	790		
		15	595			210		15	675			210		15	760			210		15	840		
		20	645			260		20	725			260		20	810			260		20	890		
5T	50	5	520	115	110	130	100	5	605	165	145	130	150	5	695	215	175	130	2002	5	770	265	110
		10	585			195		10	670			195		10	750			195		10	835		
		15	650			260		15	735			260		15	815			260		15	900		
		20	715			325		20	800			325		20	880			325		20	965		
10T	50	5	565	130	110	130	100	5	660	180	145	130	150	5	730	230	175	130	200	5	815	280	110
		10	630			195		10	715			195		10	795			195		10	880		
		15	695			260		15	780			260		15	860			260		15	945		
		20	760			325		20	845			325		20	925			325		20	1010		
13T	50	5	580	130	110	145	100	5	665	180	145	145	150	5	745	230	175	145	200	5	830	280	110
		10	660			225		10	745			225		10	825			225		10	910		
		15	740			305		15	825			305		15	905			305		15	990		
		20	820			385		20	905			385		20	985			385		20	1070		
15T	50	5	583	135	110	138	100	5	668	185	145	138	150	5	748	235	175	138	200	5	833	285	110
		10	648			203		10	733			203		10	813			203		10	898		
		15	713			268		15	798			268		15	878			268		15	963		
		20	778			333		20	863			333		20	943			333		20	1028		
20T	50	5	608	135	110	163	100	5	693	185	145	163	150	5	773	235	175	163	200	5	858	285	110
		10	698			253		10	783			253		10	863			253		10	948		
		15	788			343		15	873			343		15	953			343		15	1038		
		20	878			433		20	963			433		20	1043			433		20	1128		
30T	50	5	636	135	125	191	100	5	776	185	165	191	150	5	866	235	205	191	200	5	956	285	125
		10	791			296		10	881			296		10	971			296		10	1061		
		15	896			401		15	986			401		15	1076			401		15	1166		
		20	1001			506		20	1091			506		20	1181			506		20	1271		
40T	50	5	691	135	120	191	100	5	776	185	155	191	150	5	866	235	185	191	200	5	941	285	120
		10	796			296		10	881			296		10	961			296		10	1046		
		15	901			401		15	988			401		15	1066			401		15	1151		
		20	1006			506		20	1091			506		20	1171			506		20	1266		

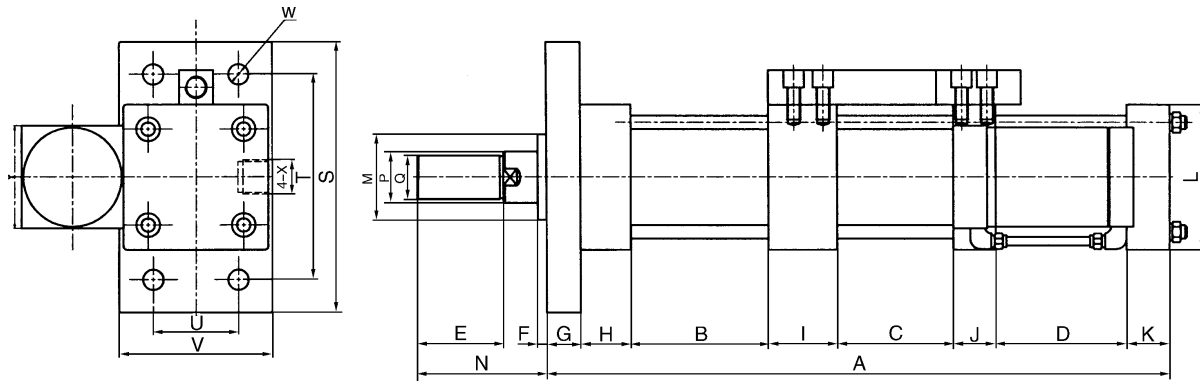


Recommend circuit diagram for speed air-oil power pressure



Dimension:

Speed



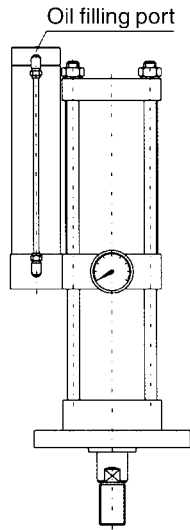
Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X	L
50(1T)	50	5	20	30	30	25	25	85 x 85	φ 50	75	φ 30	M26 x 1.5	156	120	90	50	φ 12	G1/4"	60 x 60
63(3T)	50	5	20	35	40	25	25	100 x 100	φ 55	75	φ 35	M30 x 1.5	190	150	105	65	φ 14	G3/8"	69 x 69
80(5T)	50	5	20	35	40	25	25	114 x 114	φ 55	90	φ 35	M30 x 1.5	220	170	120	70	φ 16	G3/8"	69 x 69
100(10T)	55	5	25	40	40	30	30	140 x 140	φ 65	90	φ 45	M40 x 2	250	200	145	80	φ 20	G1/2"	69 x 69
100(13T)	55	5	25	40	40	30	30	140 x 140	φ 65	90	φ 45	M40 x 2	250	200	145	80	φ 20	G1/2"	69 x 69
125(15T)	55	5	25	40	50	30	30	180 x 180	φ 80	90	φ 60	M50 x 2	320	250	190	120	φ 22	G1/2"	69 x 69
125(20T)	55	5	25	40	50	30	30	180 x 180	φ 80	90	φ 60	M50 x 2	320	250	190	120	φ 22	G1/2"	69 x 69
160(30T)	55	5	30	40	60	40	40	210 x 210	φ 100	90	φ 60	M63 x 2	355	290	218	140	φ 30	G3/4"	69 x 69
160(40T)	55	5	40	40	60	40	40	250 x 250	φ 100	90	φ 80	M63 x 2	390	320	240	160	φ 35	G3/4"	69 x 69

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	485	95	95	110	100	5	585	145	145	110	150	5	685	195	195	110	200	5	785	245	245	110
		10	535			160		10	635			160		10	735			160		10	835			160
		15	585			210		15	685			210		15	785			210		15	885			210
		20	635			260		20	735			260		20	835			260		20	935			260
3T	50	5	490	95	100	110	100	5	590	145	150	110	150	5	690	195	200	110	200	5	790	245	250	110
		10	540			160		10	640			160		10	740			160		10	840			160
		15	590			210		15	690			210		15	790			210		15	890			210
		20	640			260		20	740			260		20	840			260		20	940			260
5T	50	5	510	95	100	130	100	5	610	145	150	130	150	5	710	195	200	130	200	5	810	245	250	130
		10	575			195		10	675			195		10	775			195		10	875			195
		15	640			260		15	740			260		15	840			260		15	940			260
		20	705			325		20	805			325		20	905			325		20	1005			325
10T	50	5	545	95	110	130	100	5	645	145	160	130	150	5	745	195	210	130	200	5	845	245	260	130
		10	610			195		10	710			195		10	810			195		10	910			195
		15	675			260		15	775			260		15	875			260		15	975			260
		20	740			325		20	840			325		20	940			325		20	1040			325
13T	50	5	560	95	110	145	100	5	660	145	160	145	150	5	760	195	210	145	200	5	860	245	260	145
		10	640			225		10	740			225		10	840			225		10	940			225
		15	720			305		15	820			305		15	920			305		15	1020			305
		20	800			385		20	900			385		20	1000			385		20	1100			385
15T	50	5	578	105	110	138	100	5	678	155	160	138	150	5	778	205	210	138	200	5	878	255	260	138
		10	643			203		10	743			203		10	843			203		10	943			203
		15	708			268		15	808			268		15	908			268		15	1008			268
		20	773			333		20	873			333		20	973			333		20	1073			333
20T	50	5	603	105	110	163	100	5	703	155	160	163	150	5	803	205	210	163	200	5	903	255	260	163
		10	668			253		10	768			253		10	868			253		10	968			253
		15	733			343		15	833			343		15	933			343		15	1033			343
		20	803			433		20	903			433		20	1003			433		20	1103			433
30T	50	5	696	115	115	191	100	5	796	165	165	191	150	5	896	215	215	191	200	5	996	265	265	191
		10	801			296		10	901			296		10	1001			296		10	1101			296
		15	906			401		15	1006			401		15	1106			401		15	1206			401
		20	1011			506		20	1111			506		20	1211			506		20	1311			506
40T	50	5	716	120	115	199	100	5	816	170	165	199	150	5	916	220	215	199	200	5	1016	270	265	199
		10	821			301		10	921			301		10	1021			301		10	1121			301
		15	926			406		15	1026			406		15	1126			406		15	1226			406
		20	1031			511		20	1131			511		20	1231			511		20	1331			511

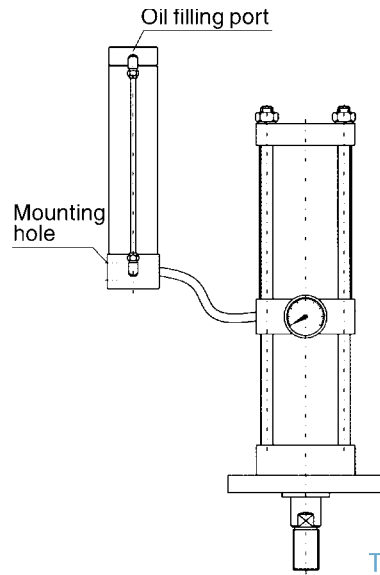
Mounting:

■ Mounting as multi-angle, the oil port must ensure upwards when installing.

Vertical overhead mounting(Recommend mounting)

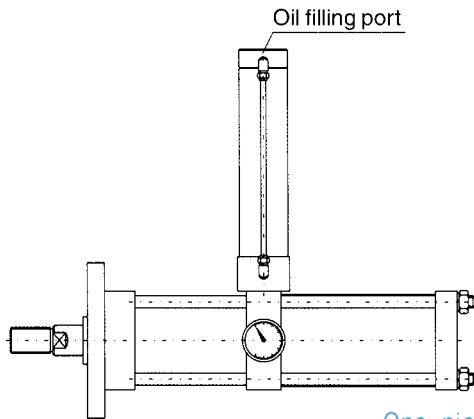


One-piece mounting

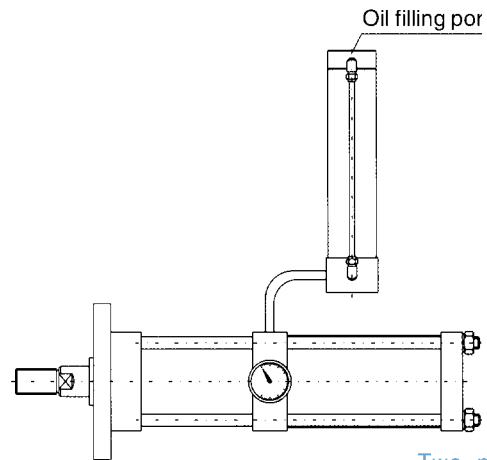


Two-piece mounting

Horizontal mounting

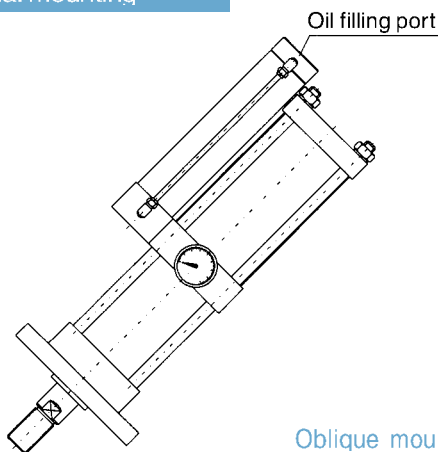


One-piece mounting

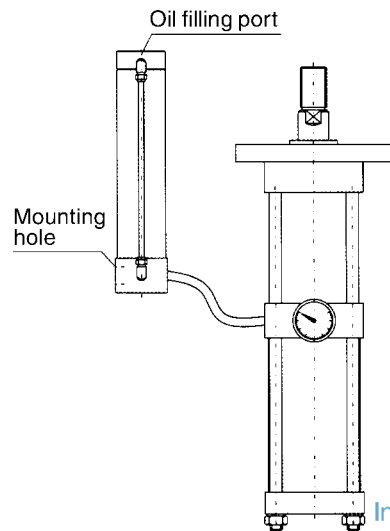


Two-piece mounting

Special mounting



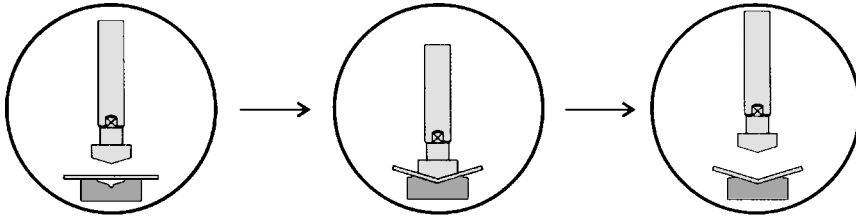
Oblique mounting



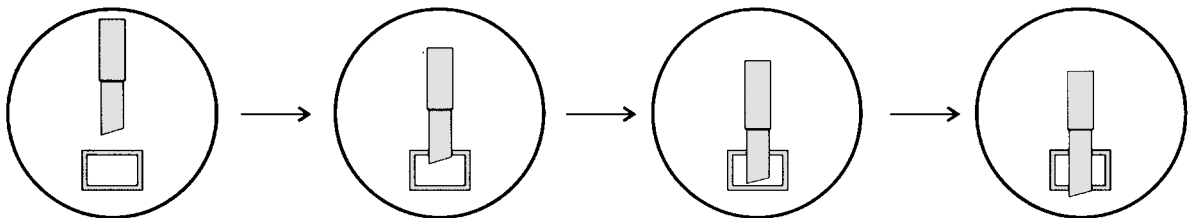
Inverted mounting

Examples of power cylinder application:

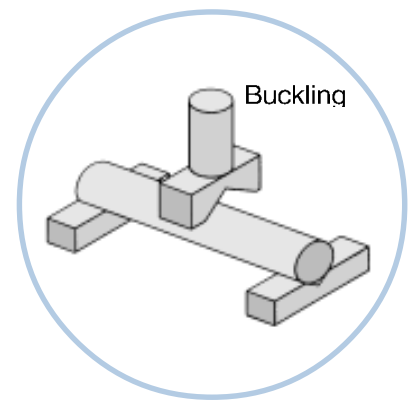
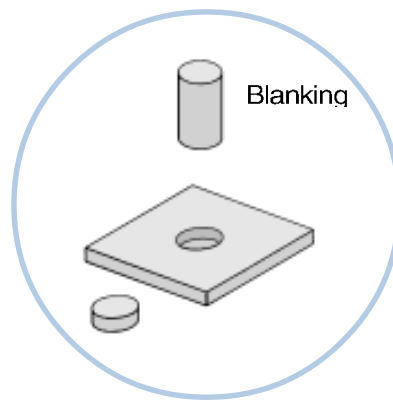
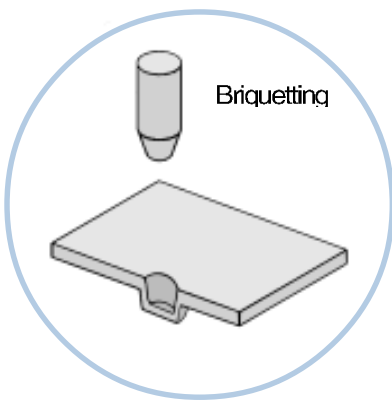
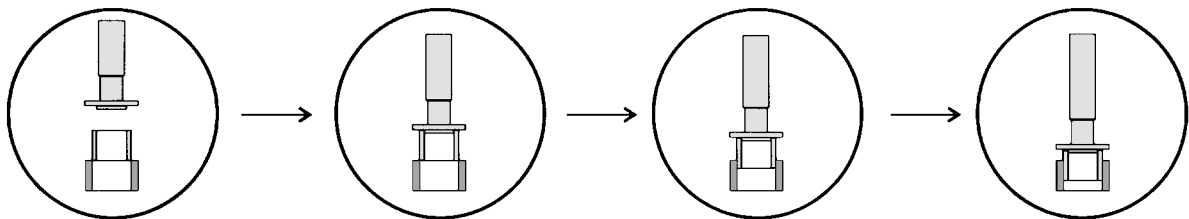
bend forming



Transfer die

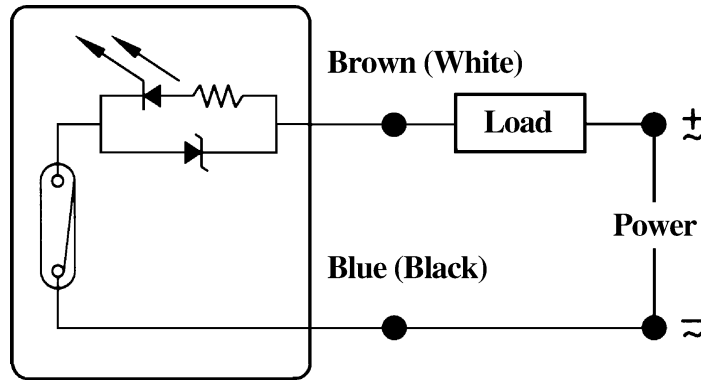


Pressfit



Magnet switch





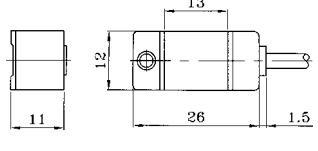
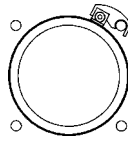



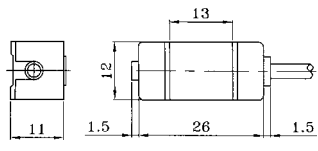
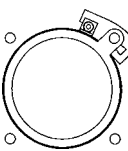

wiring diagram:





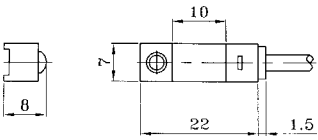
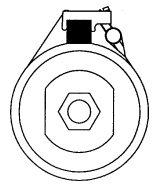


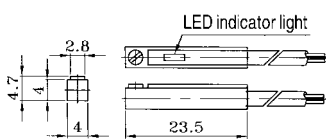
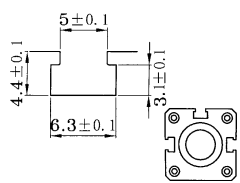

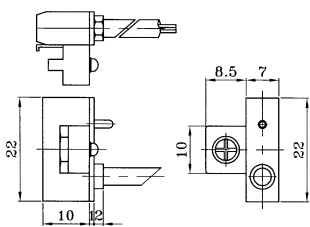
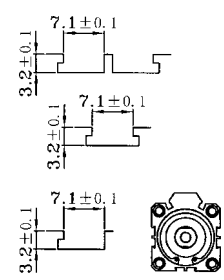
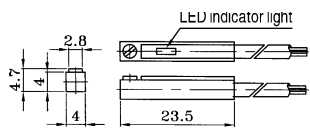
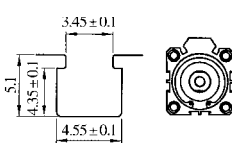

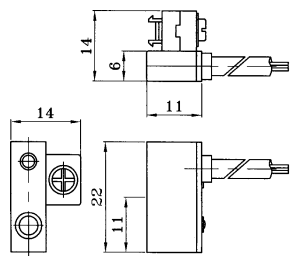
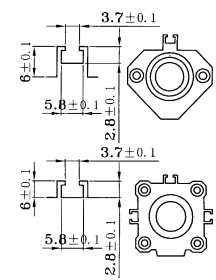
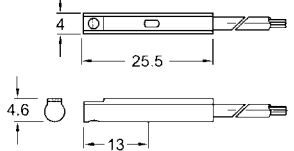
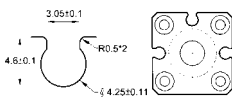
Echnical parameter:

sensor switch type	operating voltage range	Max.Flow switch	Max.contact rating	impact resistance	vibration resistance	Ambient temperature	Protection grade	Indicator light	Wire length
CS1-U	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-F	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-S	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-J	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-J1	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-G	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M
CS1-H	5~24V DC/AC	100A Max	10W Max	30G	9G	-10~70°C	IP-67	LED	2M

Product application and Dimension :

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
SC  DNG  QGB 	CS1-U 			 PAM - 63 Accessories Type Inner diameter of cylinder
SU 	CS1-F 			 PI - 63 Accessories Type Inner diameter of cylinder

Product application and Dimension:

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
<p>MS</p>  <p>MAL</p> 	CS1-S			 <p>BK buckle fastener General type: Suitable for cylinder with 63 bore, bigger than 63 bore, can make to order</p>
	CS1-M			Clamp Needless
<p>SDA</p> 	CS1-J			Clamp Needless
	CS1-G			
<p>CQ</p> 	CS1-J1			Clamp Needless
	CS1-H			



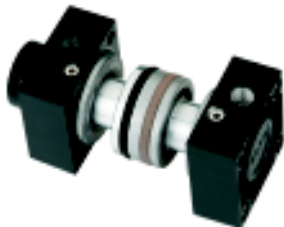
DNC、DNI Series Spare parts of Cylinder: ϕ 32~100

- Conforms to ISO15552 and VDMA24562 Standards
- Bore sizes: ϕ 32,40,50,63,80,100
- Adjustable cushioning at both the ends



DNG、DI Series Spare parts of Cylinder: ϕ 32~160

- Conforms to ISO15552 and VDMA24562 Standards
- Bore sizes: ϕ 32,40,50,63,80,100,125,160
- Adjustable cushioning at both the ends



SC Series Spare parts of Cylinder: ϕ 32~200

- Bore sizes: ϕ 32,40,50,63,80,100,125,160,200
- Adjustable cushioning at both the ends



MS Series Spare parts of Cylinder: ϕ 12~40

- Conforms to ISO6432 Standards
- Bore sizes: ϕ 12,16,20,25,32,40



MAL Series Spare parts of Cylinder: ϕ 20~40

- Conforms to ISO6432 Standards
- Bore sizes: ϕ 20,25,32,40



SDA Series Kits of Cylinder: ϕ 12~100

- Bore sizes: ϕ 12,16,20,25,32,40,50,63,80,100
- Standard strokes upto 100mm