

Pneumatics is changing air that is wherever and infinitely available in the world to power energy. You might seldom see its actual applications, but currently pneumatic equipment are used in production and conveyer lines in almost all industries.

VPC company, which was founded in 1985, as a leading manufacturer, is dedicated to serve the automation and labor saving requirements with our pneumatic product range.

Above, coupled with close connection with customers' requirements, enables us to manufacture and make good valve, high quality products and to operate successfully around the world. As natural result of such policy VPC has been recognized to be in compliance with the requirements as provided for the quality system standard ISO9001:2000, as well as the CE Certificate, which is the first pneumatic enterprise who get both certificates in Ningbo, China.

VPC built an excellent sales team is taking advantage of a widespread net of local and foreign distributor constant expansion in the main worldwide strategic areas. We believe the diversity of our product line, and the sincere work of our staff will make VPC to be world class performance leaders of pneumatic products.

Sincere Service Good Quality



Pneumatic Cylinder

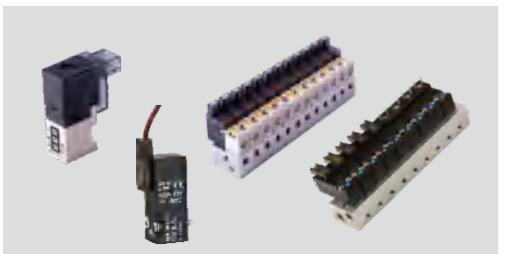


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Air Treatment Units (FRL)



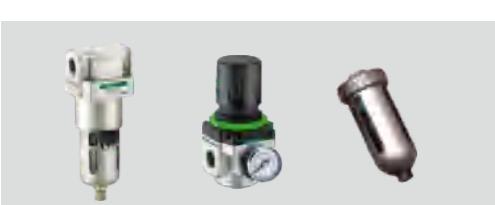
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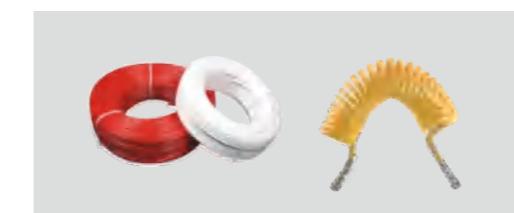
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Measure Conversion Table

Linear Measure

1in	=25. 4	mm
1ft	=0. 3048	m
1mile	=1609. 3	m

Weight Measure

1lb	=453. 6	g
1cwt	=50. 8	Kg
1UK ton	=1016	Kg
1US ton	=907. 2	Kg
1ton	=1000	Kg

Torsion Measure

1 in lb	=0. 113	Nm
1 ft lb	=1. 356	Nm
1 kgm	=9. 807	Nm

Temperature Measure

(°F-32) X5/9	=	°C
K-273. 15	=	°C

Capacity Measure

1 Litre	=0. 001	m ³
1 cu ft	=0. 0283	m ³
1 cu in	=16. 39	cm ³
1 US gal	=4. 546	L
1 UK gal	=3. 79	L

Equivalent Exchange

1psi	=6. 895Kpa	=0. 07Kg/cm	=0. 06895bar	=0. 0703atm
1sta atm	=14. 7psi	=101. 3Kpa	=1. 01325bar	
1Kg/cm ²	=98. 07Kpa	=14. 22psi	=28. 96ins mercury	
1ft lb	=0. 13826kgm		=1. 356Nm	
1L	=1000cm ³	=1. 7598pint	=10 ⁶ mm ³	
1tonne	=1000kg	=0. 984ton	=2205lb	
1m ³	=10 ⁶ cm ³			
1Pa	=1N/m ²			
1cu ft/min.	=0. 0283m ³ /min		=28. 3l/min	

Area Measure

1 in ²	=6. 45	cm ²
1 ft ²	=0. 0929	m ²

Pressure Measure

1 psi	=6. 89	Kpa
1 Kgf/cm ²	=98.07	Kpa
1 bar	=100	Kpa
1 bar	=14.5	psi
1 atm	=101.3	Kpa
1 cm water	=97.89	pa
1 in water	=248.64	pa
1 mm mercury	=133.3	pa
1 in mercury	=3.39	Kpa
1 torr	=133.3	pa
1 ft water	=0.0298	bar
1 bar	=33.3	ft water

Energy&Heat Measure

1 lb ft	=1. 356	J
1 N m	=1	J
1 Kgf m	=9. 807	J
1 Kw h	=3. 6	MJ

Force Measure

1 lbf	=4. 45	N
1 Kgf	=9. 81	N
1 Kilopond(K P)	=9. 81	N
1 ton force	=9. 81	KN

Power Measure

1 lb ft/sec	=4. 358	W
1 Kgf m/sec	=9. 807	W
1 N m/sec	=1	W
1 Joule/sec	=1	W
1 H. P. (IMP)	=745. 7	W

Cylinder

User Manual

1. Before screwing the correct fitting in, make sure the thread ports and fittings are clean. Be aware of dust or fitting tap falling into the cylinder;
2. It is suggested to use the medium lubricated by 40um filter element;
3. Under the high-temperature environment, use the high-temperature type cylinder. Under the low-temperature environment, take measure to avoid frozen;
4. In order to prevent damaging the cylinder, test the cylinder with loading first and adjust the cushion tightly.
5. In order for the cylinder to achieve long service life, do not side-load cylinder,
6. If the fittings were removed from the cylinder for a period of time, be sure to block the thread port with protecting cap to keep the dust away.

Caution

1. To remove the rust, external impurity and water, please install a filter near to the directional valve.
2. Please use galvanized pipe, nylon tube, rubber pipe etc corrosion resistant pipe materials.
3. For the piping between the cylinder and the directional control valve, please confirm section have effective cross-sectional area of the provisions of the velocity of the piston must be.
4. Piping before the removal of external impurity in the tube, chip etc. Please use compressed air to clean.
5. When connected with the component products, please do not mix with the sealing belt and other foreign bodies.
6. And in poor rod load please keep in axial state.

Maintenance

1. The most suitable temperature for the use of the cylinder is 5-60°C, when the temperature exceeds 60°C, please consider to change the material of the seal ; if the temperature is below 5°C, due to the freezing of water in the loop, there may become an accident, please consider to prevent freezing.
2. Please don't use cylinder corrosion environment , otherwise they will be damaged or dysfunctional if must be used in such an environment, please consult with VPC for solution.
3. Compressed air used must be clean and less water.
4. The purpose of the buffer is to use the energy of the air to absorb the kinetic energy of the moving parts, so that the piston and the end cover are not impacted at the end of the stroke.
5. Pneumatic buffer at the factory has been adjusted. Due to the variation of load to adjust the buffer can slowly rotate to the right needle, counterclockwise is weakened.
6. Please do not use the cylinder directly to the cutting fluid, cooling environment, please add the dust cover on the cylinder.

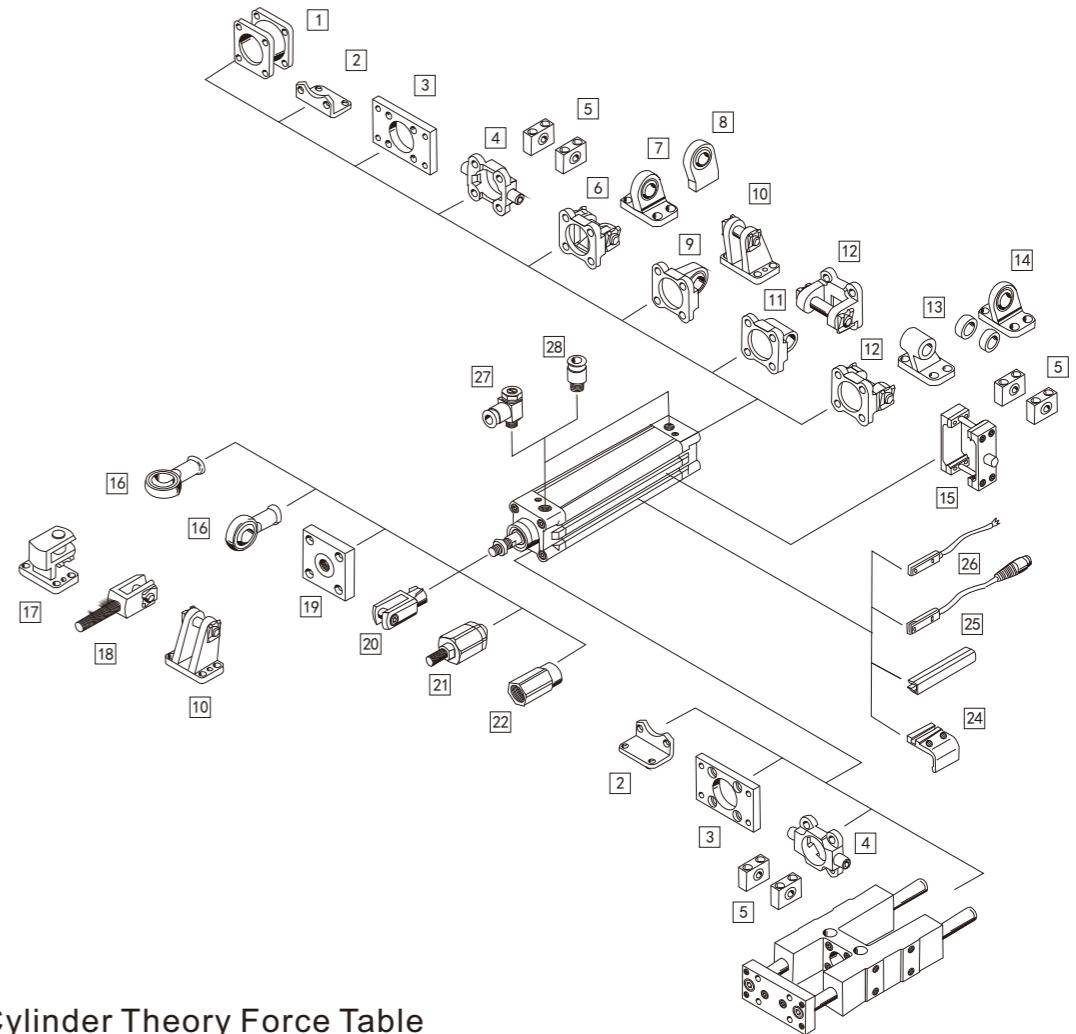
Tips

1. Cylinder can be caused by using the cylinder in the large inertia of the super-permitted range.
2. Please do not beat the cylinder, resulting in injuries, which well cause the cause of bad action.
3. Please install in the horizontal plane, if the installation surface is uneven, may cause the cylinder is damaged.
4. Attention to the inertia force due to external forces, and sometimes lead to negative pressure in the cylinder, so that the cylinder seal off, causing the external leakage.



Technical Data 1

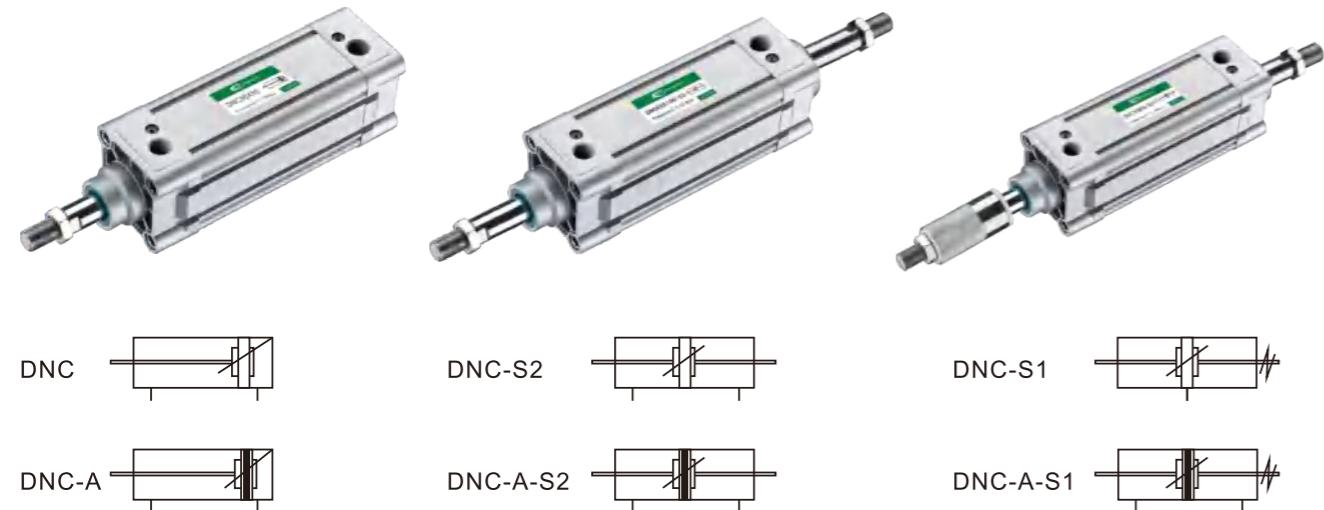
Cylinder Peripheral Component



Air Cylinder Theory Force Table

Bore (mm)	OD of rod (mm)	Acting type	Actual working area(mm ²)	Working pressure(MPa)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
32	12	Double acting	Push force	804	80.4	160.8	241.2	321.6	402.0	482.4	562.8	643.2	723.6
			Pull force	690	69.0	138.0	207.0	276.0	345.0	414.0	483.0	552.0	621.0
40	16	Double acting	Push force	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2	1002.4	1130.4
			Pull force	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5	844.0	949.5
50	20	Double acting	Push force	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1	1570.4	1766.7
			Pull force	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3	1399.2	1484.1
63	20	Double acting	Push force	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2	2181.9	2493.6	2805.3
			Pull force	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1	2242.4	2522.7
80	25	Double acting	Push force	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2	4020.8	4523.4
			Pull force	4536	453.6	907.2	1360.8	1814.4	2268.0	2721.6	3175.2	3628.8	4082.4
100	25	Double acting	Push force	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	4288.2	4282.4	7067.7
			Pull force	7362	736.2	1472.4	2208.6	2948.6	3681.0	4417.2	5153.4	5889.6	6625.8
125	32	Double acting	Push force	12272	1227.2	2454.4	3681.6	4908.8	6136.0	7363.2	8590.4	9817.6	11044.8
			Pull force	11468	1146.8	2293.6	3440.4	4587.2	5734.0	6880.8	8027.6	9174.4	10321.2
160	40	Double acting	Push force	20106	2010.6	4021.2	6031.8	8042.4	10053.0	12063.6	14074.2	16084.8	18095.4
			Pull force	18849	1884.9	3769.8	5654.7	7539.6	9424.5	11309.4	13194.3	15079.2	16964.1
200	40	Double acting	Push force	31416	3141.6	6283.2	9424.8	12566.4	15708.0	18849.6	21991.2	25132.8	28274.4
			Pull force	30157	3015.7	6031.4	9047.1	12062.8	15078.5	18094.2	21109.9	24125.6	27141.3

DNC Series ISO6431 Standard Cylinder



Ordering Code

DNC Series ISO6431 Standard Cylinder

DNC	32	X	50	-	20	-	PPV	-	A	-	S2
Series code	Bore		Stroke		Adjustable stroke		Cushion		Magnet		Type
DNC: Basic type FNC: Front rear plate mounting ZNCF: Centre trunnion mounting SNCB: Single trunnion mounting SNCL: Double trunnion mounting	10: 10mm 20: 20mm 30: 30mm 40: 40mm 50: 50mm 75: 75mm 100: 100mm		10: 10mm 20: 20mm 30: 30mm 40: 40mm 50: 50mm 75: 75mm 100: 100mm		Nil: No cushion PPV: With cushion		Nil: Without magnet A: With magnet		Nil: Standard cylinder S1: Double-shaft, adjustable stroke type S2: Double-shaft type		

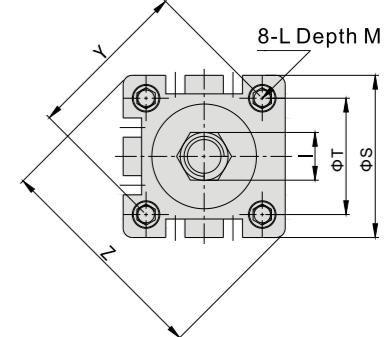
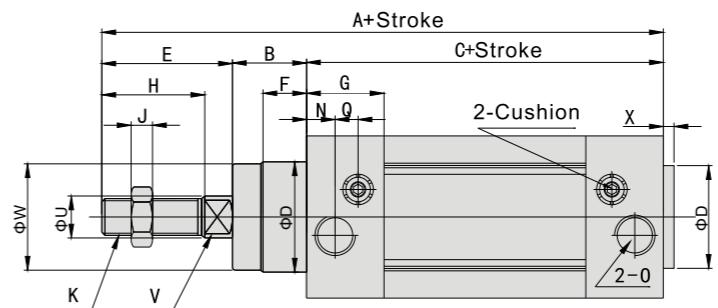
Specifications

Bore (mm)	32	40	50	63	80	100	125
Acting type	Double acting						
Working medium	Clean air (40µm filtration)						
Mounting type	Basic type FA FB CA CB CR LB TC TC-M DNC Series Basic type FA LB TC TC-M DNC-S2 Series						
Working pressure range	0.1 to 1.0MPa						
Max. working pressure	1.35MPa						
Working temperature	-5 to 70°C						
Speed range	50 to 800mm/s						
Cushion type	Adjustable cushion						
Cushion stroke	24mm			32mm			
Working life	≥4000Km						
Port size	G1/8	G1/4		G3/8		G1/2	

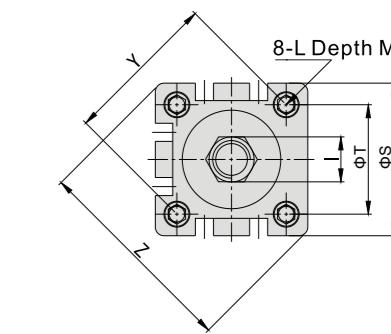
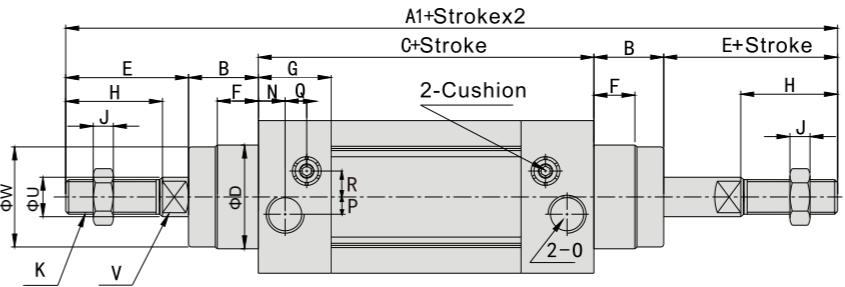
DNC Series ISO6431 Standard Cylinder

Main Dimensions

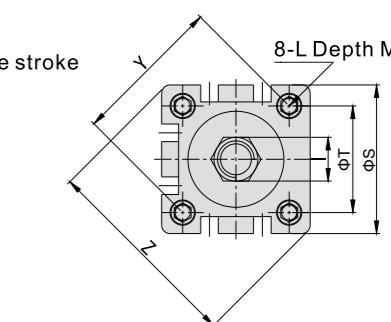
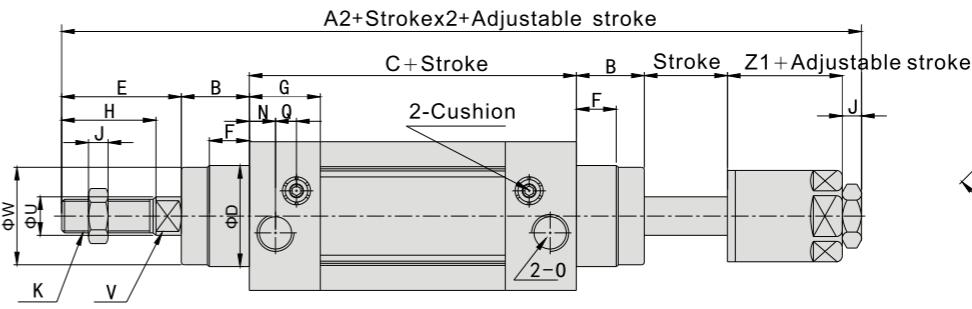
DNC Basic type



DNC-S2 Double shaft type



DNC-S1 Double shaft adjustable stroke type

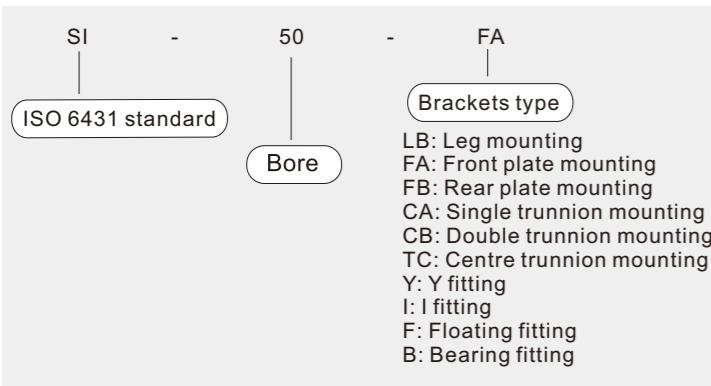


Bore	Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	142	190	185	16	94	30	32	10	25	22	17	6	M10X1.25	
40	159	213	207	20	105	35	34	10	29.5	24	17	7	M12X1.25	
50	175	244	233	27	106	40	42	10	32	32	23	8	M16X1.5	
63	190	258	247	26	122	45	42	10	36	32	23	8	M16X1.5	
80	214	301	288	35	127	45	52	10	37	40	26	10	M20X1.5	
100	229	321	308	40	137	55	52	10	39	40	26	10	M20X1.5	
125	279	352	-	46	160	60	73	20.5	44.7	54	-	-	M27X2	

Bore	Sign	M	N	O	P	Q	R	S	T	U	V	W	X	L	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	M6	21	
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	M6	21	
50	12	21	G1/4	7	3	9	65	46.5	20	17	38	4	M8	23	
63	12	23	G3/8	8	5	9	76	56.5	20	17	40	4	M8	23	
80	12	24	G3/8	10	5	12	94	72	25	22	43	5	M10	29	
100	12	26	G1/2	10	5	14	112	89	25	22	47	6	M10	29	
125	-	22.3	G1/2	13	8	16	134	110	32	27	58	6	M12	-	

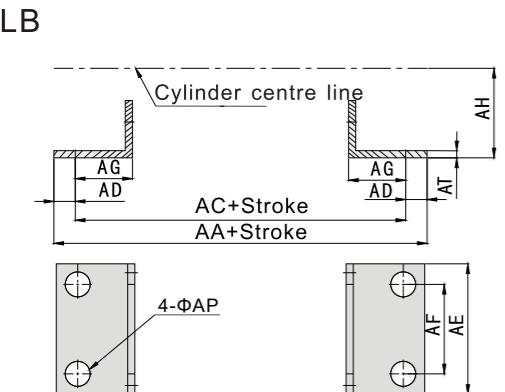
DNC/SI ISO6431 Standard Cylinder Brackets

Ordering Code

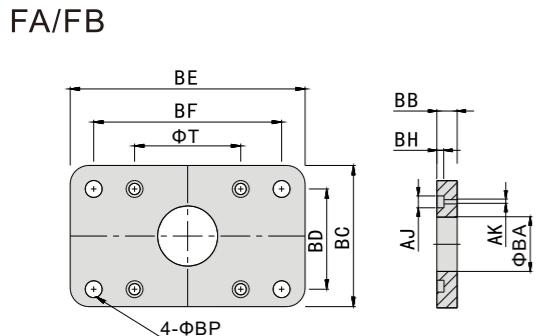


Note: ISO standard accessories, only suitable for DNC, SI ect ISO6431 series standard cylinder.

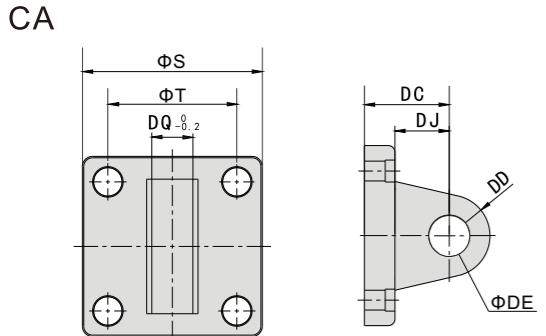
Main Dimensions



Sign	Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	258	290	340	380	
AC	142	161	170	185	210	220	250	300	320	
AD	8	9	10	12	19	19	20	20	30	
AE	48	53	63	73	98	115	140	180	220	
AF	32	36	45	50	63	75	90	115	135	
AG	24	28	32	32	41	41	45	60	70	
AH	32	36	45	50	63	71	90	115	135	
AP	7	9	9	9	12	14	16	18	22	
AT	4	4	4	4	5	5	8	8	9	



Sign	Bore	32	40	50	63	80	100	125	160	200
AJ	10.5	10.5	14	14	17	17	19	25	25	
AK	7	7	9	9	11	11	13	17	17	
BA	30.3	35.3	40.3	45.3	45.3	55.3	60.3	65.3	75.3	
BB	10	10	12	12	16	16	20	20	25	
BC	50	55	65	75	100	120	140	180	220	
BD	32	36	45	50	63	75	90	115	135	
BE	80	90	110	125	154	186	224	280	320	
BF	64	72	90	100	126	150	180	230	270	
BH	6.5	6.5	6.5	8.5	10.5	10.5	8	8	12	
BP	7	9	9	9	12	14	16	18	22	
T	32.5	38	46.5	56.5	72	89	110	140	175	

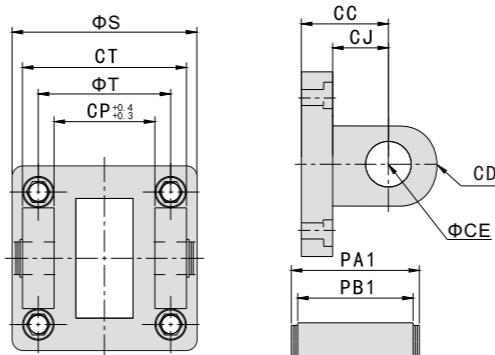


Sign	Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220	
T	32.5	38	46.5	56.5	72	89	110	140	175	
DC	22	25	27	32	36	41	50	55	60	
DD	9	12	12	15	15	20	25	30	30	
DE	10	12	12	16	16	20	25	30	30	
DJ	13	16	17	22	22	27	33	35.5	37	
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7	

DNC/SI ISO6431 Standard Cylinder Brackets

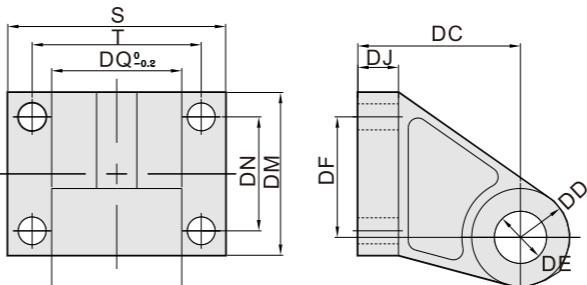
Main Dimensions

CB



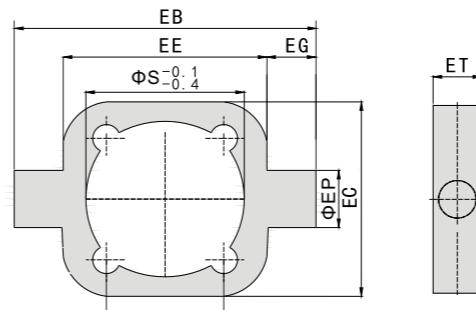
Sign	Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60	
CD	9	12	12	15	15	20	25	30	30	
CE	10	12	12	16	16	20	25	30	30	
CJ	13	16	17	22	22	27	31	35.5	36	
CP	26	28	32	40	50	60	70	90	90	
CT	45	52	60	70	90	110	130	170	170	
PA1	51	59	67	77	97	119	139	181	181	
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	170.5	
S	47	53	65	75	95	115	140	180	220	
T	32.5	38	46.5	56.5	72	89	110	140	175	

CR



Bore	Sign	S	T	DC	DD	DE	DF	DJ	DM	DN
32	51	38	32	10	10	21	8	26	31	18
40	54	41	36	11	12	24	9	28	35	22
50	65	50	57	13	12	33	12	31.5	45	30
63	67	52	50	15	16	37	12.5	40	50	35
80	86	66	63	15	16	41.5	14	50	60	40
100	96	76.5	71.5	18.5	20	55	15	60	70	51

TC

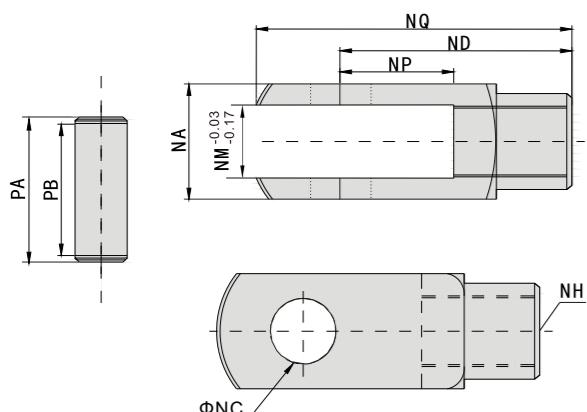


Sign	Bore	32	40	50	63	80	100	125	160	200
EB	100	113	125	140	160	182	210	264	314	
EC	50	58	70	80	100	126	154	196	240	
ED	32.5	38	46.5	56.5	72	89	110	140	175	
EE	50	63	75	90	110	132	160	200	250	
EG	25	25	25	25	25	25	25	25	32	
EP	12	16	16	20	20	25	30	32	32	
ET	20	24	28	28	28	28	36	40	40	
S	36	45	55	68	86</					

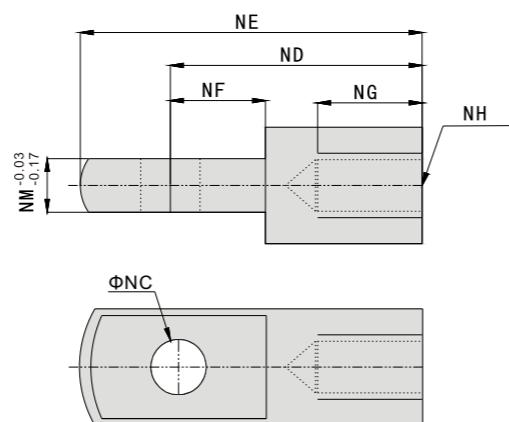
DNC/SI ISO6431 Standard Cylinder Brackets

Main Dimensions

Y Fitting



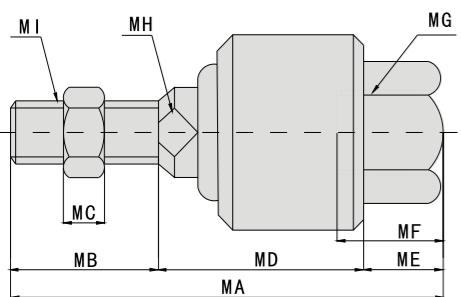
I Fitting



I

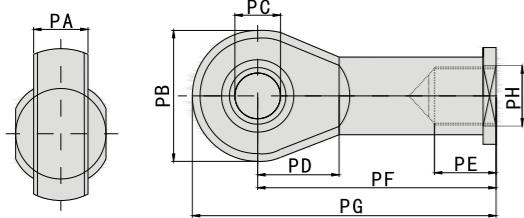
Bore \ Sign	NA	NC	ND	NE	NG	NF	NH	NM	NP	NQ	PA	PB
32	19	10	40	52	20	15	M10X1.25	10	20	52	26.2	20
40	25.4	12	48	67	20	24	M12X1.25	12	24	62	32.8	26.5
50	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
63	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
80	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
100	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
125	55	30	110	155	56	50	M27X2.0	30	54	148	64	55.6
160	70	35	144	201	72	50	M36X2.0	35	72	191	80	70.6
200	70	35	144	201	72	55	M36X2.0	35	72	191	80	70.6

Floating Fitting



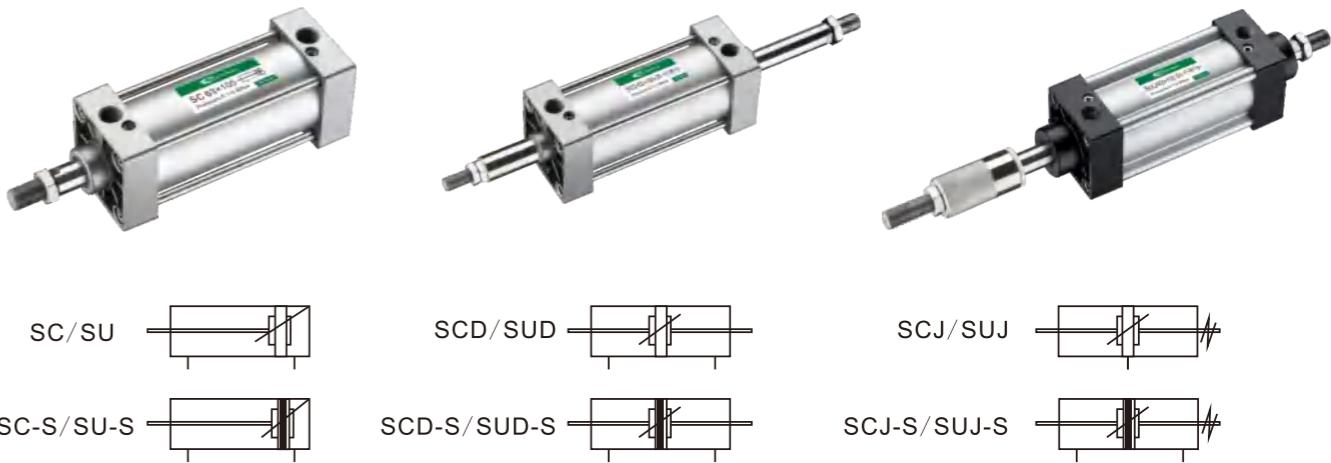
Bore \ Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	26	M10X1.25	12	M10X1.25
40	77	24	7	46	7	26	M12X1.25	12	M12X1.25
50	106	32	8	62	12	34	M16X1.5	19	M16X1.5
63	106	32	8	62	12	34	M16X1.5	19	M16X1.5
80	122	40	10	68	14	42	M20X1.5	19	M20X1.5
100	122	40	10	68	14	42	M20X1.5	19	M20X1.5
125	147	54	13.5	77	16	40	M27X2.0	24	M27X2.0
160	251	72	18	161	18	78	M36X2.0	36	M36X2.0
200	251	72	18	161	18	78	M36X2.0	36	M36X2.0

B Fitting



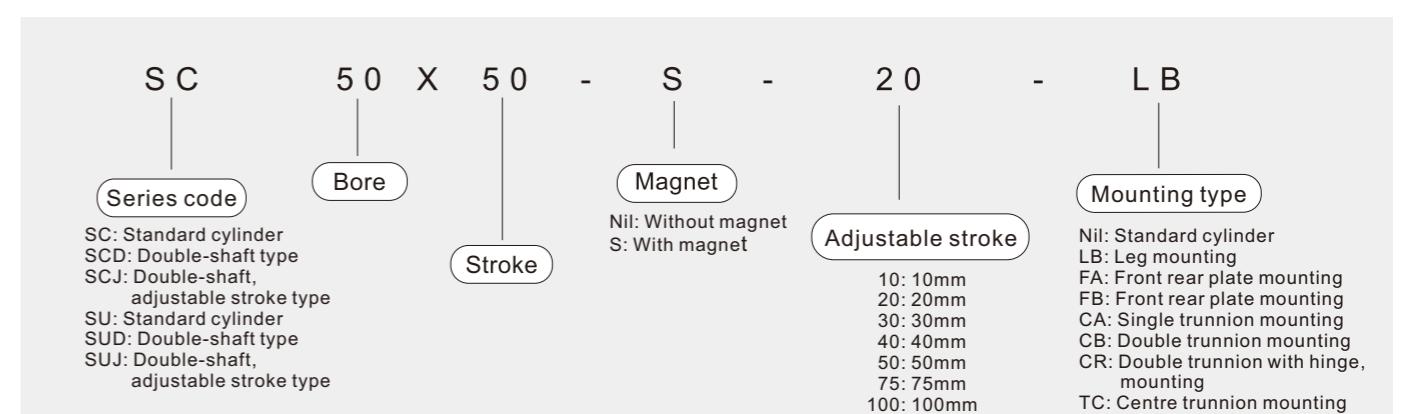
Bore \ Sign	PA	PB	PC	PD	PE	PF	PG	PH
32	14	28	10	15	20	43	57	M10X1.25
40	16	32	12	17	22	50	66	M12X1.25
50	21	42	16	22	28	64	85	M16X1.5
63	21	42	16	22	28	64	85	M10X1.5
80	25	50	20	26	33	77	102	M20X1.5
100	25	50	20	26	33	77	102	M20X1.5
125	37	70	30	36	51	110	145	M27X2.0
160	43	80	35	41	56	125	165	M36X2.0
200	43	80	35	41	56	125	165	M36X2.0

SC/SU Series Standard Cylinder



I

Ordering Code SC/SU Series Standard Cylinder



Nil: Standard cylinder
LB: Leg mounting
FA: Front rear plate mounting
FB: Front rear plate mounting
CA: Single trunnion mounting
CB: Double trunnion mounting
CR: Double trunnion with hinge, mounting
TC: Centre trunnion mounting

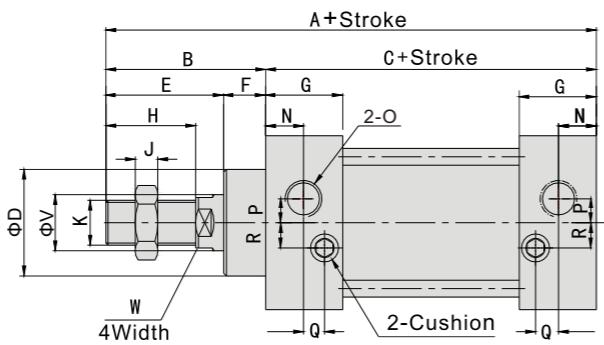
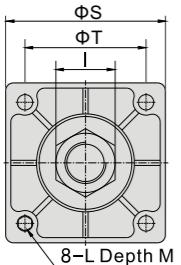
Specifications

Bore (mm)	32	40	50	63	80	100	125	160	200
Acting type									
Clean air(40µm filtration)									
Basic type FA FB CA CB CR LB TC TC-M									
Basic type FA LB TC TC-M									
Basic type FA LB TC TC-M									
Working pressure range									
0.1 to 0.9MPa									
Max. working pressure									
1.5MPa									
Working temperature									
-5 to 70°C									
Speed range									
50 to 800mm/s									
Cushion type									
Adjustable cushion									
Cushion stroke									
20mm					32mm				
45mm					G1/8				
G1/4					G3/8				
G1/2					G3/4				
Port size									

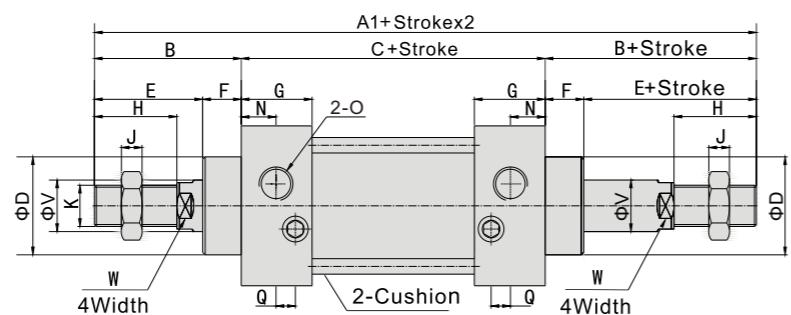
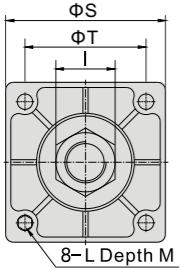
SC/SU Series Standard Cylinder

Main Dimensions

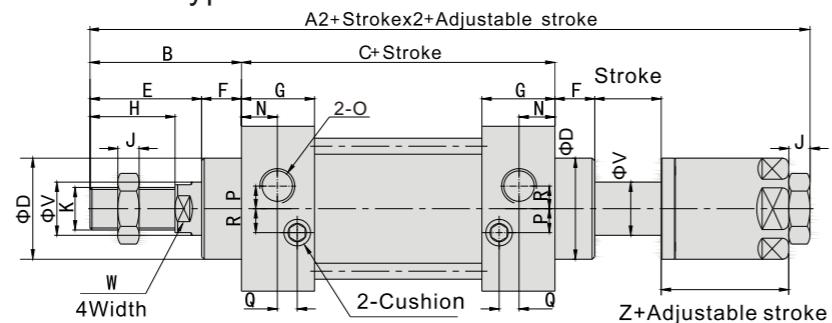
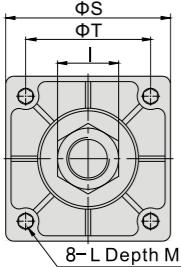
SC Basic type



SCD Double shaft type



SCJ Double shaft adjustable stroke type



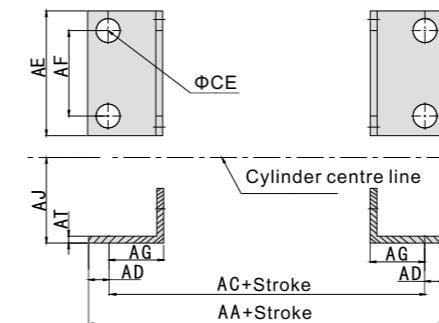
Bore \ Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12×1.25
50	150	207	195	57	93	38	42	15	27.5	32	23	8	M16×1.5
63	153	210	198	57	96	38	42	15	27.5	32	23	8	M16×1.5
80	183	258	243	75	108	47	54	21	33	40	26	10	M20×1.5
100	188	263	244.5	75	113	47	54	21	33	40	26	10	M20×1.5
125	246	347	315	101	145	60	70	31	40	54	36	12	M27×2
160	309	/	/	129	180	63	91	38	50	72	50	15	M36×2
200	347	/	/	167	180	75	100	67	50	72	55	18	M36×2

Bore \ Sign	L	M	N	O	P	Q	R	S	T	V	W
32	M6×1	13	13.5	G1/8	3.5	7.5	7	45	33	12	10
40	M6×1	13	15	G1/4	5	5	7.5	50	37	16	14
50	M6×1	13	13.75	G1/4	8.5	4.5	10	62	47	20	17
63	M8×1.25	14	14	G3/8	9	5	8.5	75	56	20	17
80	M10×1.5	15	16.5	G3/8	10	7	13	94	70	25	22
100	M10×1.5	18	16.5	G1/2	10	7	13	112	84	25	22
125	M12×1.75	20	21	G1/2	14.5	7	15	140	110	32	29
160	M16×2	22	25	G1/2	/	/	/	180	140	40	36
200	M16×2	22	23.5	G3/4	/	/	/	220	175	40	36

SC/SU Series Standard Cylinder Brackets

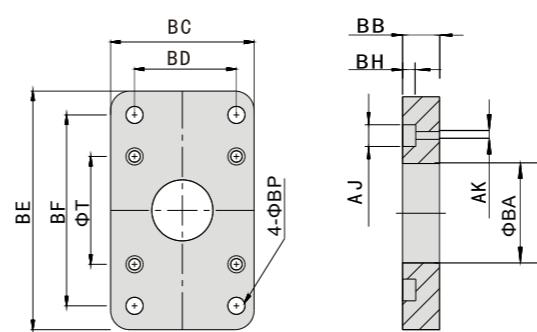
Main Dimensions

LB



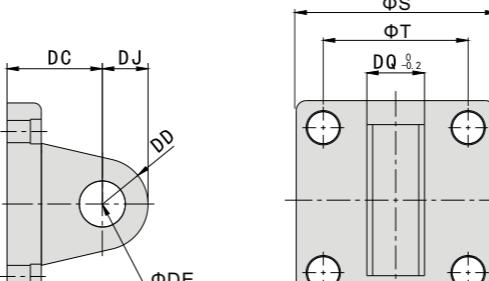
Sign	Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380	
AC	134	140	149	158	168	174	213	288	320	
AD	9.5	14.5	12	12	16	18	18	20	20	
AE	50	57	68	80	97	112	140	180	220	
AF	33	36	47	56	70	84	90	115	135	
AG	20.5	23.5	28	31	30	30	45	60	70	
AJ	28	30	36.5	41	49	57	90	115	135	
AP	9	12	12	14	14	16	18	22	22	
AT	3.2	3.2	3.2	3.2	4	4	8	8	10	

FA/FB



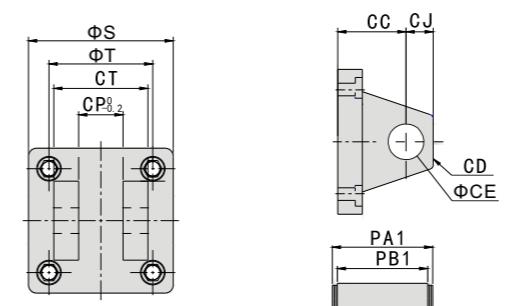
Sign	Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	56	63	81	
BB	10	10	10	12	16	16	20	25	25	
BC	47	52	65	76	95	115	140	180	220	
BD	33	36	47	56	70	84	90	115	135	
BE	72	84	104	116	143	162	224	280	320	
BF	58	70	86	98	119	138	180	230	270	
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20	
AJ	10.5	10.5	13.5	13.5	16.6	16.6	19	25	25	
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5	16.5	16.5	
BP	7	7	9	9	12	12	16	18	22	
T	33	37	47	56	70	84	110	140	175	

CA



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

CB

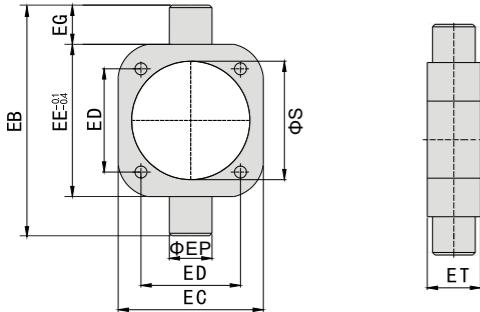


Sign	Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60	
CD	5	5	3	3	8	8				

SC/SU Series Standard Cylinder Brackets

Main Dimensions

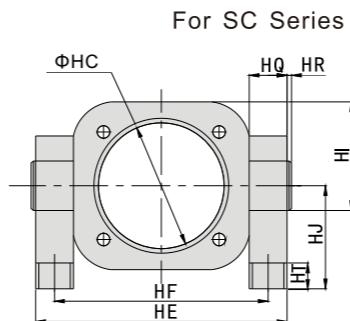
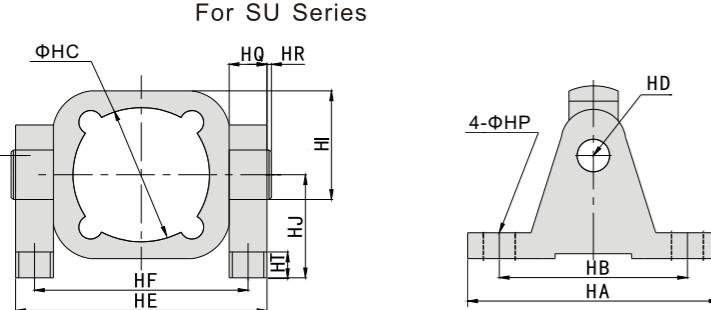
TC



Sign \ Bore	40	50	63	80	100	125	160	200
EB	113	126	138	164	182	210	264	336
EC	63	76	88	114	132	160	200	240
ED	37	47	56	70	84	110	140	175
EE	63	76	88	114	132	160	200	240
EG	30	30	30	30	30	30	32	48
EP	25	30	30	30	30	30	32	38
ET	30	30	30	30	30	30	38	44
S	45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

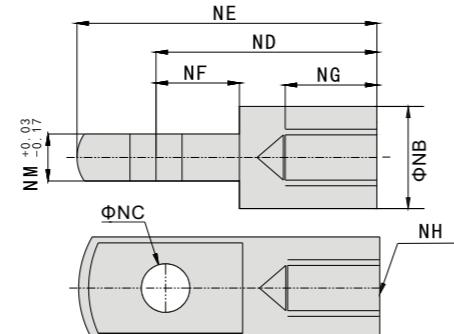
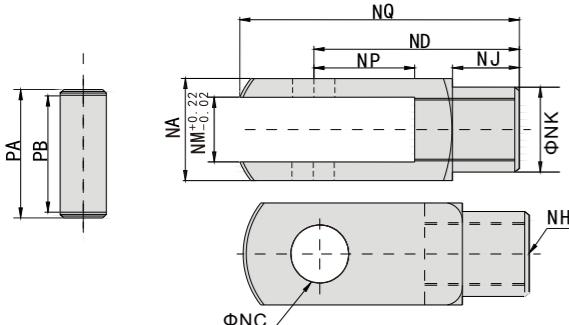
TC-M

For SU Series



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

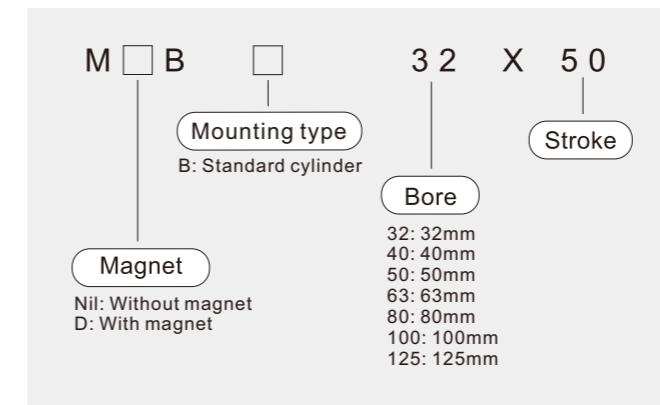
Y Fitting



Sign	Bores	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10X1.25	12	18	10	20	52	25	19.5	
40	25.4	24	12	48	67	24	20	M12X1.25	20	23	12	24	62	32.8	26.5	
50	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33	
63	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33	
80	44.4	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53.3	45	
100	44.4	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53.3	45	
125	55	45	25	110	155	40	56	M27X2	30	54	48	64	148	64	55	
160	80	54	30	120	201	35	50	M36X2	40	54	40	35	150	91	81	
200	80	54	30	120	201	35	50	M36X2	40	54	40	35	150	91	81	

MB Series Standard Cylinder

Ordering Code MB Series Standard Cylinder

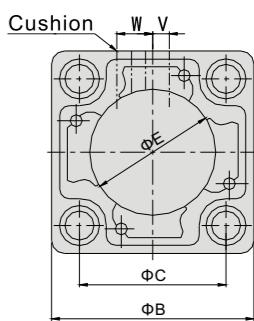
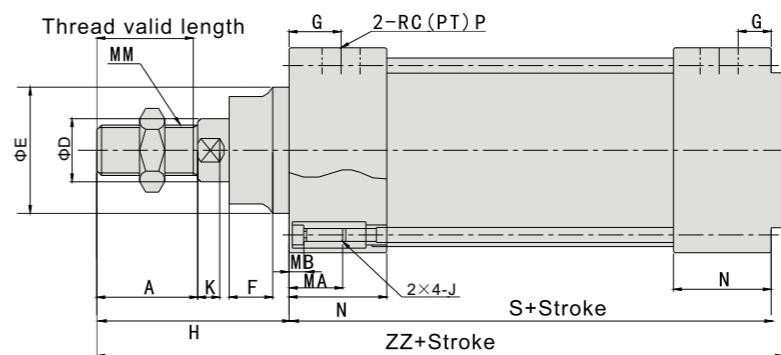


Specifications



Bore (mm)	32	40	50	63	80	100	125
Working medium	Clean air (40µm filtration)						
Acting type	Double acting						
Max. working pressure	1.0MPa						
Min. working pressure	0.05MPa						
Speed range(mm/s)	50 to 1000						50 to 700
Cushion	Cushion both side						
Oil	No Need						
Port size	G1/8	G1/4		G3/8		G1/2	

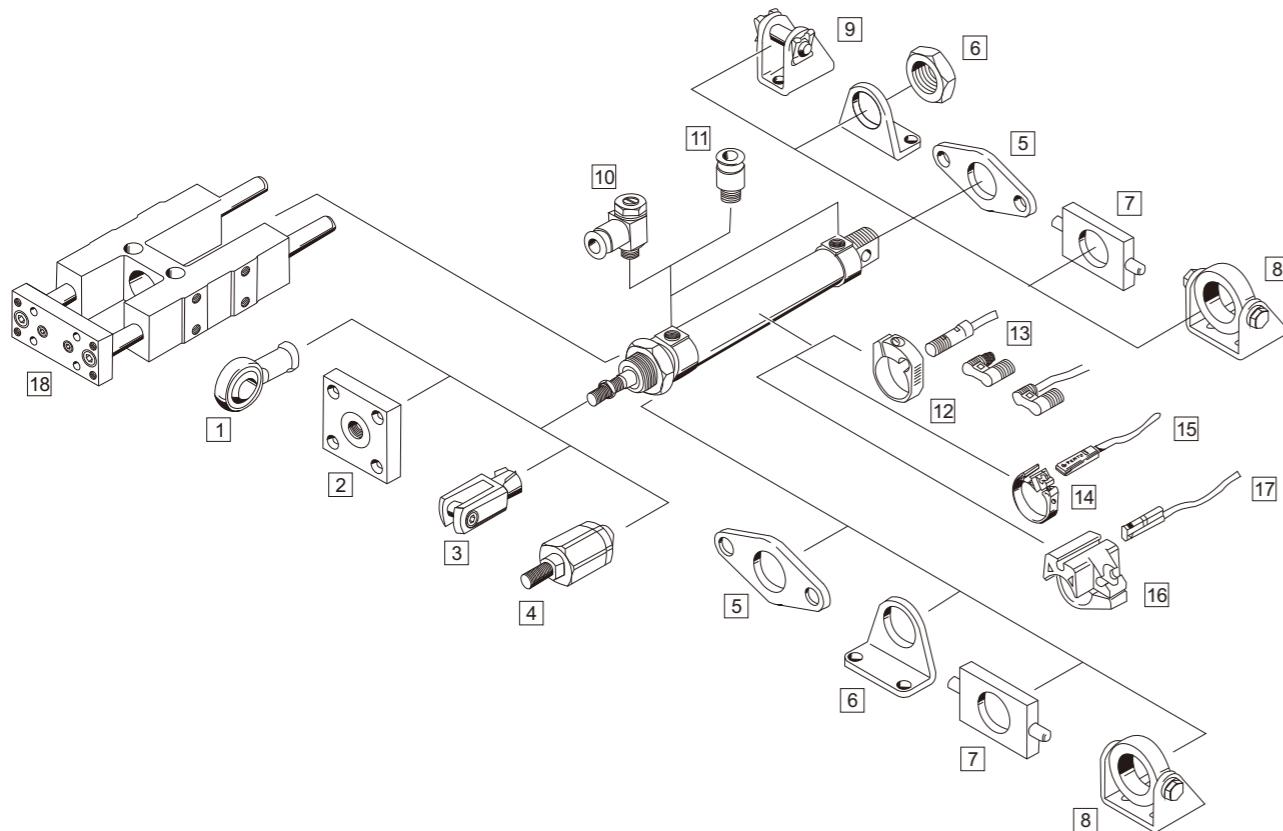
■ Main Dimensions



Bore	Stroke range	Thread length	A	ΦВ	ΦС	ΦД	ΦЕ	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6X1.0	6	M10X1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6X1.0	6	M14X1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8X1.25	7	M18X1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	16.5	16	5	M8X1.25	7	M18X1.5	31.5	3/8	94	9	12	58	156
80	~800	37	40	95	72	25	45	20	19	16	5	M10X1.5	10	M22X1.5	38	3/8	114	11.5	14	72	190
100	~800	37	40	114	89	30	55	20	19	16	5	M10X1.5	10	M26X1.5	38	1/2	114	17	15	72	190
125	~1000	50	54	136	110	32	60	27	19	20	6	M12X1.75	13	M27X2.0	38	1/2	120	17	15	97	223

Technical Data 2

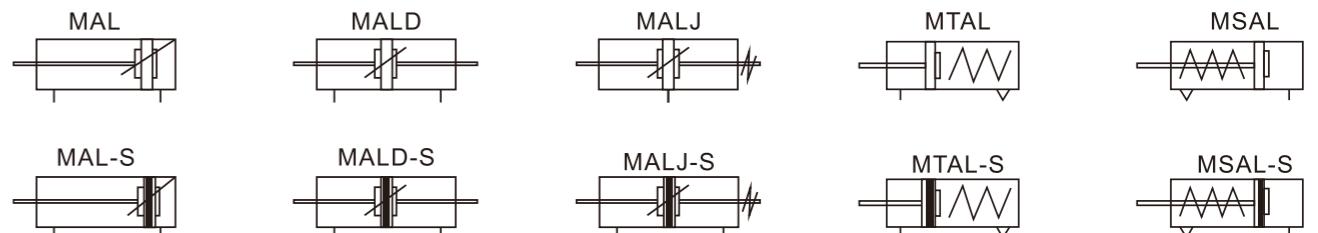
Cylinder Peripheral Component



Air cylinder theory force table

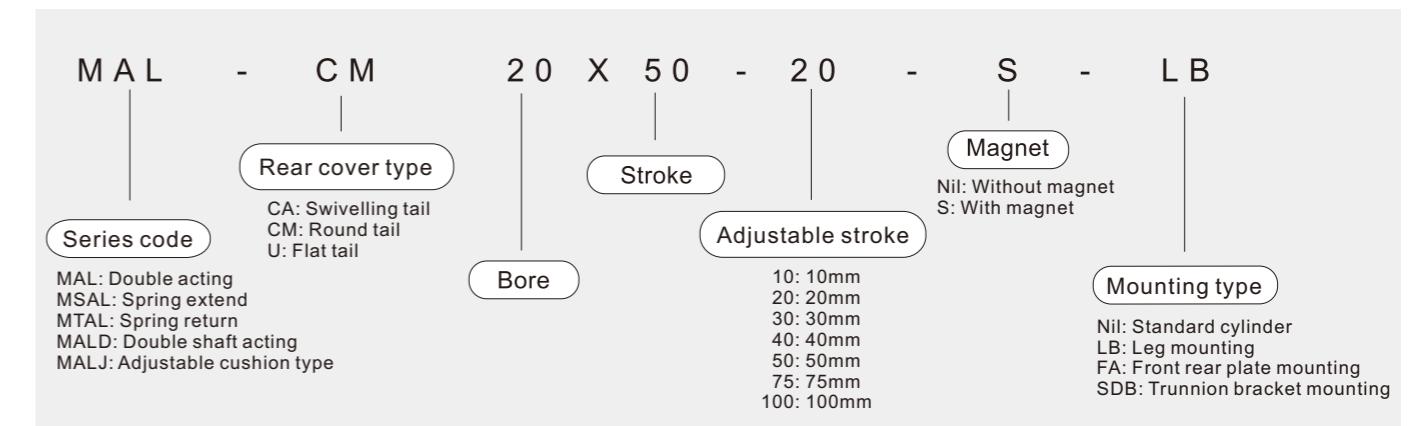
Bore(mm)	16		20		25		32		40		50		63							
OD of rod(mm)	6		8		10		12		16		16		16							
Acting type	Single acting spring extend	Double acting	Single acting	Double acting	Single acting spring extend	Double acting	Single acting	Double acting	Single acting spring extend	Double acting										
Actual working area(mm ²)	201	201	181	314	314	264	490	490	412	804	804	690	1256	1256	1055	1963	1762	3116	2915	
Working pressure (MPa)	0.1	-	20.1	18.1	-	31.4	26.4	-	49.0	41.2	-	80.4	69.0	-	125.6	105.5	196.3	176.2	311.6	291.5
	0.2	-	40.2	36.2	15.7	62.8	52.8	24.5	98.0	82.4	40.2	160.8	138.0	62.8	251.2	211.0	392.6	352.4	487.8	603.1
	0.3	20.1	60.3	54.3	47.1	94.2	79.2	73.5	147.0	123.6	120.6	241.2	207.0	188.4	376.8	316.5	588.9	528.6	799.4	894.6
	0.4	40.2	80.4	72.4	78.5	125.6	105.6	122.5	196.0	164.8	201.0	321.6	276.0	314.0	502.4	422.0	785.2	704.8	1111	1186
	0.5	60.3	100.5	90.5	109.9	157.0	132.0	171.5	245.0	206.0	281.4	402.0	345.0	439.6	628.0	527.5	981.5	881.0	1422	1477
	0.6	80.4	120.6	108.6	141.3	188.4	158.4	220.5	294.0	247.2	361.8	482.4	414.0	565.2	753.6	633.0	1177	1057	1734	1769
	0.7	100.4	140.7	126.7	172.7	219.8	184.8	269.5	343.0	288.4	442.2	562.8	483.0	690.8	879.2	738.5	1374	1233	2045	2060
	0.8	-	-	-	204.1	251.2	211.2	318.5	392.0	329.6	522.6	643.2	552.0	816.4	1004	844.0	1570	1409	2357	2352
	0.9	-	-	-	235.5	282.6	237.6	367.5	441.0	370.8	603.0	723.6	621.0	942.0	1130	949.5	1766	1585	2669	2643

MAL Series Mini Cylinder



Ordering Code

MAL Series Mini Cylinder



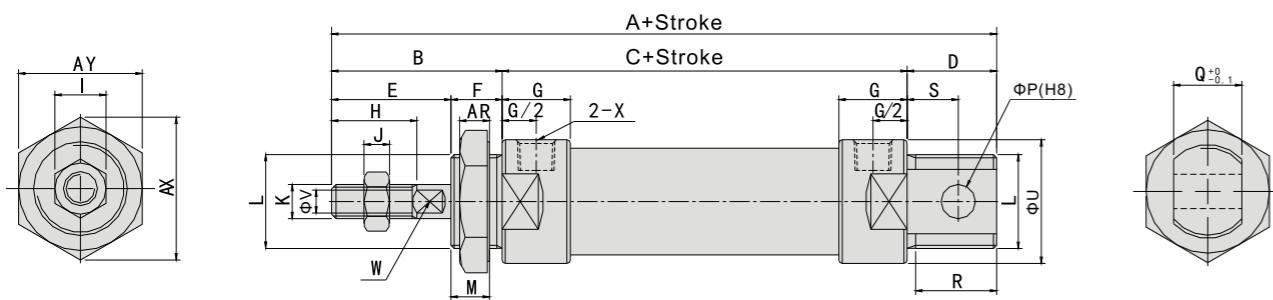
Specifications

Bore (mm)	16	20	25	32	40
Acting type	MAL, MALD, MALJ Series: Double acting, MSAL, MATL Series: Single acting				
Working medium	Clean air (40µm filtration)				
Mounting type	MAL, MSAL, MATL Series: Basic type LB FA SDB, MALD, MALJ Series: Basic type LB FA				
Working pressure range	MAL, MALD, MALJ Series: 0.1 to 0.9MPa, MSAL, MATL Series: 0.2 to 0.9MPa				
Max. working pressure	1.5MPa				
Working temperature	-5 to 70°C				
Speed range	MAL Series: 30 to 800mm/s, Other Series: 50 to 800mm/s				
Port size	M5X0.8	G1/8			G1/4

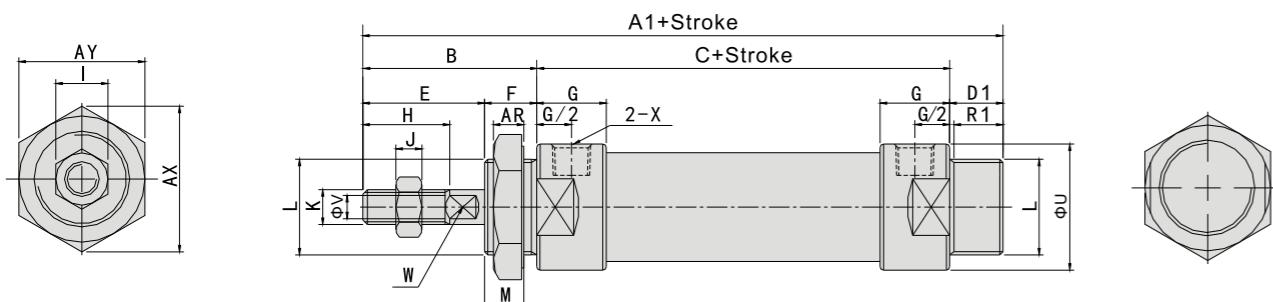
MAL Series Mini Cylinder

Main Dimensions

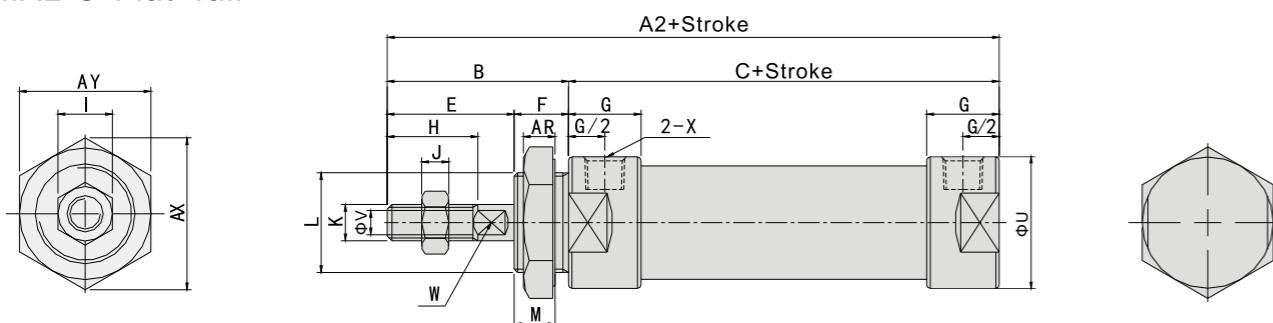
MAL-CA Swivelling Tail



MAL-CM Round Tail



MAL-U Flat Tail



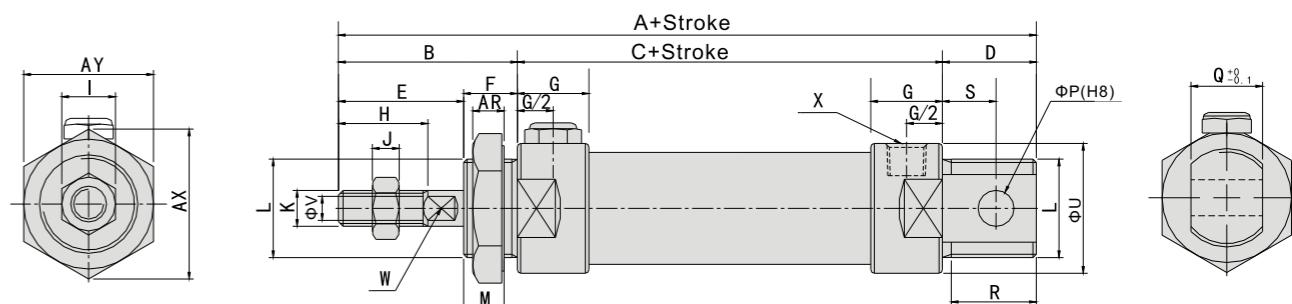
Bore	Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16		104	104	90	38	52	15	15	24	14	11	16	10	5	M6x1
20		131	122	110	40	70	21	12	28	12	16	20	12	6	M8x1.25
25		135	128	114	44	70	21	14	30	14	16	22	17	6	M10x1.25
32		141	128	114	44	70	27	14	30	14	16	22	17	6	M10x1.25
40		165	152	138	46	92	27	14	32	14	22	24	17	7	M12x1.25

Bore	Sign	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16		M16x1.5	8	6	12	13	/	6	20	6	/	M5	7	24	27.5
20		M22x1.5	10	8	16	19	10	12	29	8	6	G1/8	7	33	29
25		M22x1.5	12	8	16	19	12	12	34	10	8	G1/8	7	33	29
32		M24x2.0	12	10	16	25	12	15	39.5	12	10	G1/8	8	37	32
40		M30x2.0	12	12	20	25	12	15	49.5	16	14	G1/4	9	47	41

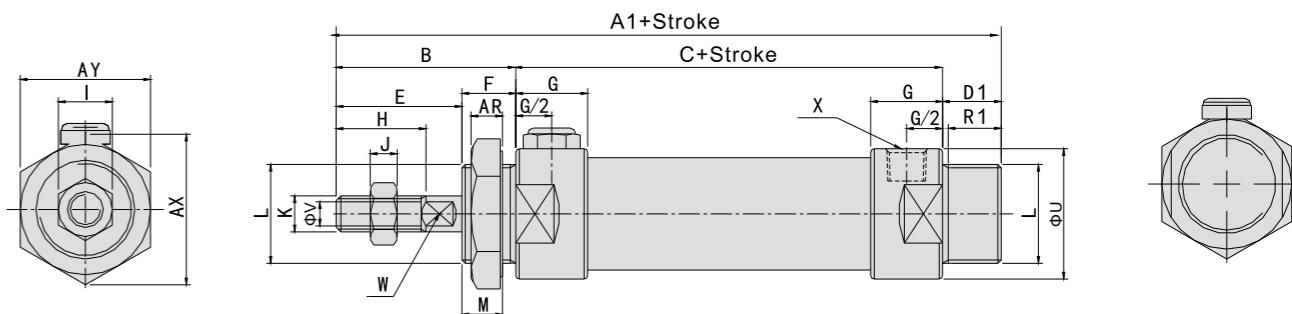
MAL Series Mini Cylinder

Main Dimensions

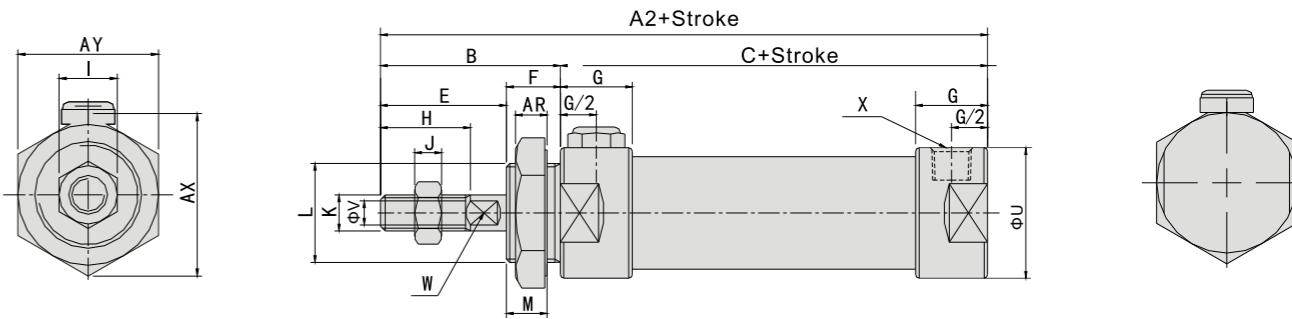
MSAL-CA Single Acting Swivelling Tail



MSAL-CM Single Acting Round Tail



MSAL-U Single Acting Flat Tail



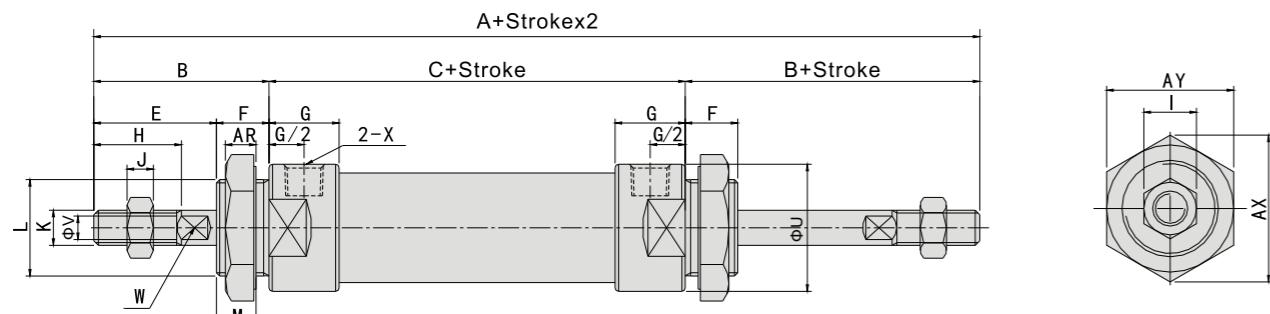
Bore/Stroke	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	
Bore/Stroke	0~50	51~100	0~50	51~100	0~50	51~100	40	70	95	21	12	28	12	16
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22

Bore	Sign	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20		M8X1.25	M22X1.5	10	8	16	19	10	12	29	8	6	G1/8	7	33	29
25		M10X1.25	M22X1.5	12	8	16	19	12	12	34	10	8	G1/8	7	33	29
32		M10X1.25	M24X2.0	12	10	16	25	12	15	39.5	12	10	G1/8	8	37	32
40		M12X1.25	M30X2.0	12	12	20	25	12	15	49.5	16	14	G1/4	9	47	41

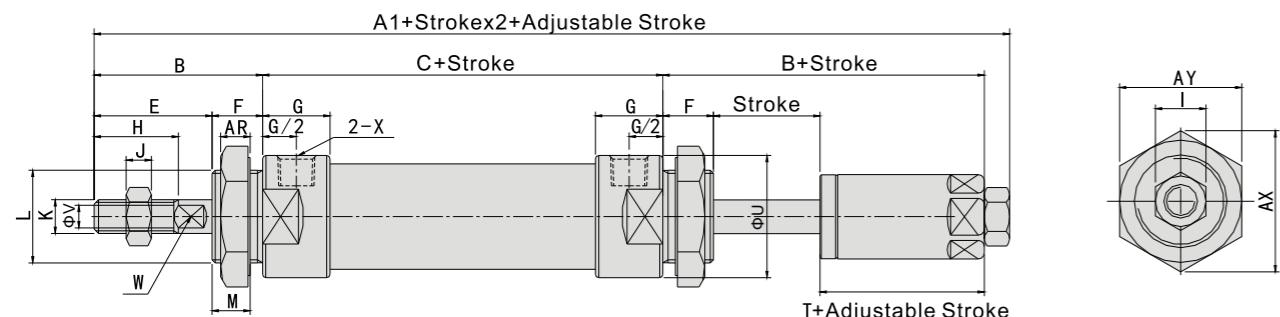
MAL Series Mini Cylinder

Main Dimensions

MALD Double shaft type



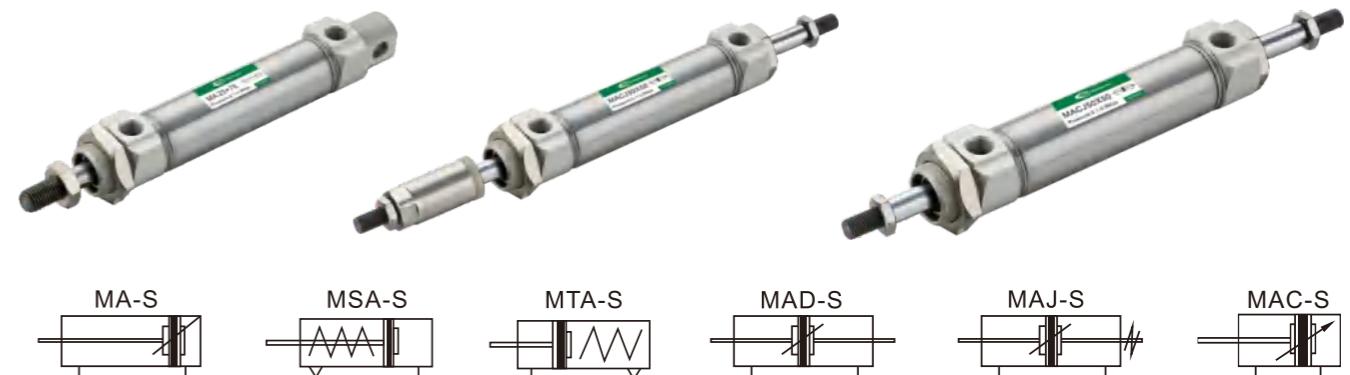
MALJ Double shaft adjustable stroke type



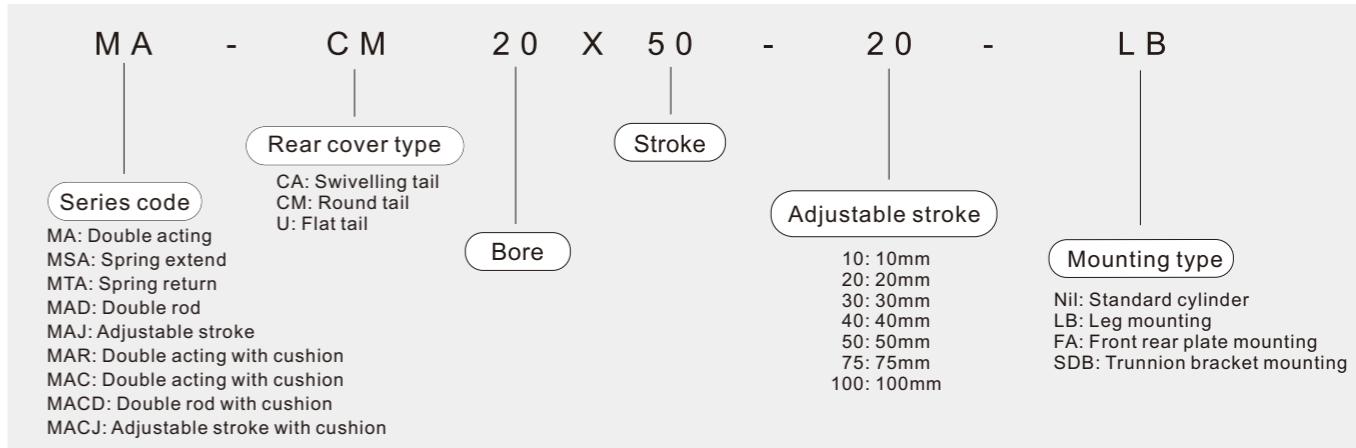
Bore	Sign	A	A1	B	C	E	F	G	H	I	J	K
20		131	122	40	70	28	12	16	20	12	6	M8X1.25
25		135	128	44	70	30	14	16	22	17	6	M10X1.25
32		141	128	44	70	30	14	16	22	17	6	M10X1.25
40		165	152	46	92	32	14	22	24	17	7	M12X1.25

Bore	Sign	L	M	U	V	W	X	AR	AX	AY	T
20		M22X1.5	10	29	8	6	G1/8	7	33	29	19
25		M22X1.5	12	34	10	8	G1/8	7	33	29	21
32		M24X2.0	12	39.5	12	10	G1/8	8	37	32	21
40		M30X2.0	12	49.5	16	14	G1/4	9	47	41	21

MA Series Mini Cylinder



Ordering Code MA Series Mini Cylinder



Specifications

Bore(mm)		16	20	25	32	40	50	63		
Acting type	MSA MTA	Single acting					-			
	MA MAD MAJ	Double acting					-			
	MAR	Double acting								
	MAC MACD MACJ	Double acting with cushion								
Working medium		Air(to be filtered by 40μm filter element)								
Working pressure	Double acting	0.1 to 1.0MPa								
	Single acting	0.2 to 1.0MPa								
Max. working pressure		1.5MPa								
Working temperature		-20 to 70°C								
Speed range		Double acting: 30 to 500mm/s Single acting: 50 to 500mm/s								
Stroke tolerance		Stroke≤150 +1.0 0 Stroke>150 +1.4 0								
Cushion type		MAC , MACD,MACJ series: Adjustable cushion Other series: Bumper								
Port size		M5×0.8	G1/8				G1/4			

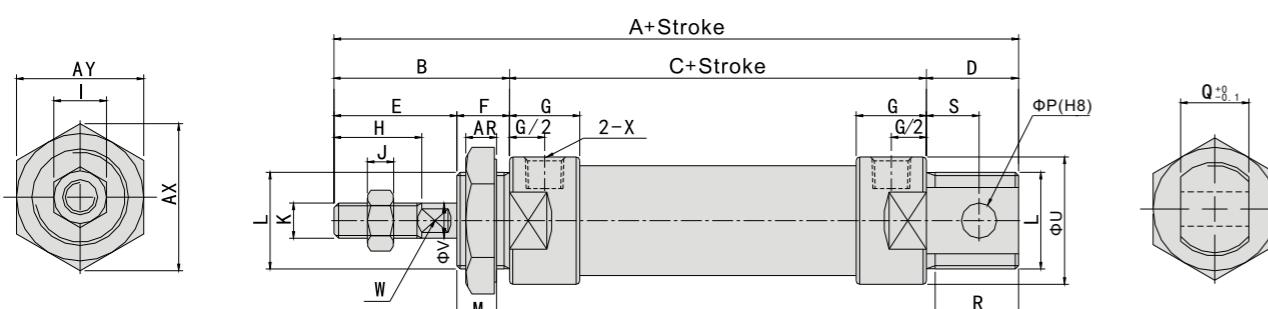
PT thread,NPT thread and G thread are available.

MA Series Mini Cylinder

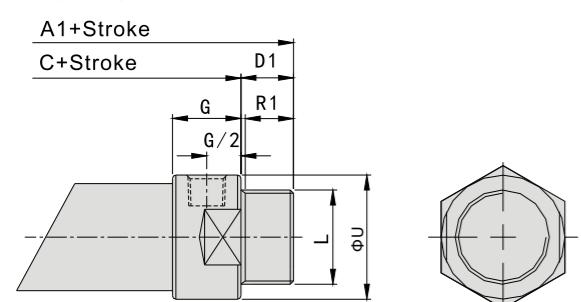
Main Dimensions

$\phi 16 \sim \phi 40$

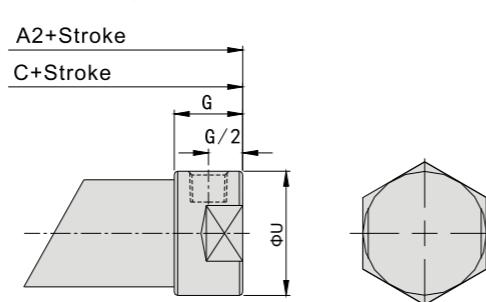
MA (MAC) - CA Swivelling tail



MA (MAC) - CM Round tail



MA (MAC) - U Flat tail

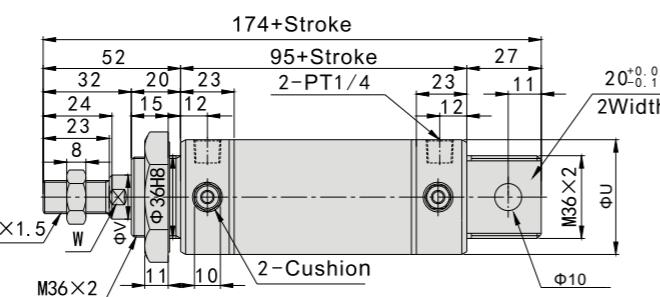
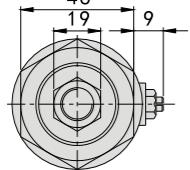


Bore	Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16		114	114	98	38	60	16	15	22	16	10	16	10	5	M6X1
20		137	128	116	40	76	21	12	28	12	16	20	12	6	M8X1.25
25		141	134	120	44	76	21	14	30	14	16	22	17	6	M10X1.25
32		147	134	120	44	76	27	14	30	14	16	22	17	6	M10X1.25
40		149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12X1.25

Bore	Sign	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16		M16X1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20		M22X1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25		M24X1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32		M24X2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40		M30X2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

MA (MAC) $\phi 50 \sim \phi 63$

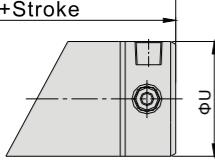
Swivelling tail



Flat tail

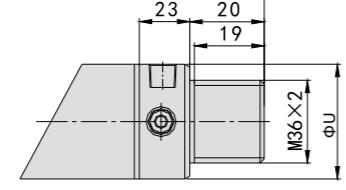
147+Stroke

95+Stroke



Round tail

167+Stroke



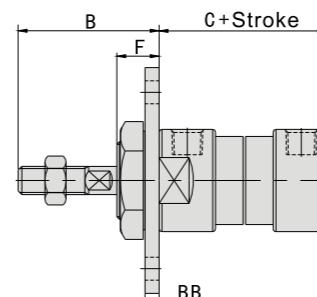
Bore	Sign	U	V
50		53	16
63		67	16

MAL/MA Series Mini Cylinder Brackets

Main Dimensions

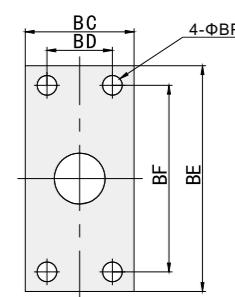
$\phi 20 \sim \phi 25$

FA

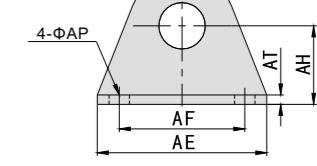
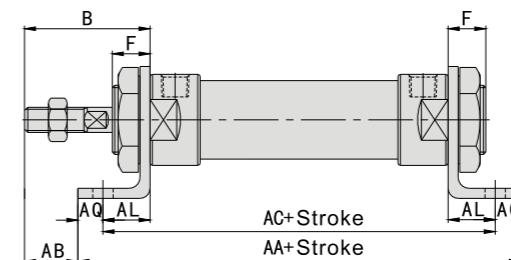


$\phi 32 \sim \phi 40$

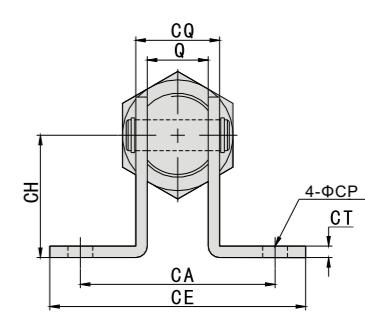
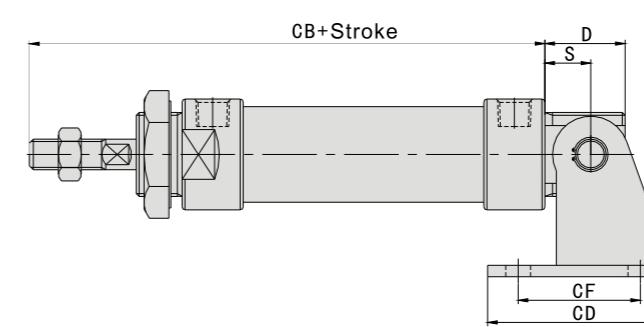
$\phi 32 \sim \phi 40$



LB



SDB



Sign

Bore/Stroke

D

S

Q

CA

CB

(MA

Series)

0~50

51~100

CB

(MAL

Series)

0~50

51~100

CD

CE

CF

CH

CT

CP

CQ

Sign

Bore/Stroke

B

F

AA

(MA

Series)

0~50

51~100

AB

AC

(MA

Series)

0~50

51~100

AA

(MAL

Series)

0~50

51~100

AC

(MSA

Series)

0~50

51~100

AC

(MSAL

Series)

0~50

51~100

AE

AF

AL

AQ

AP

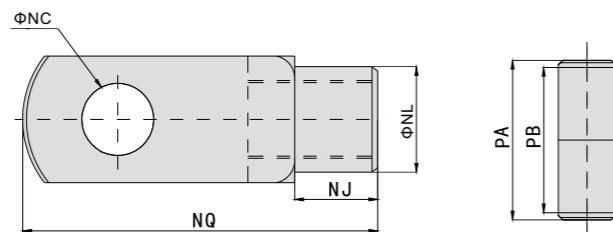
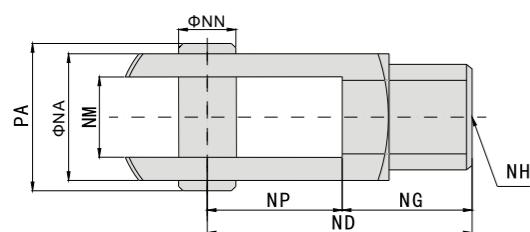
AT

AH

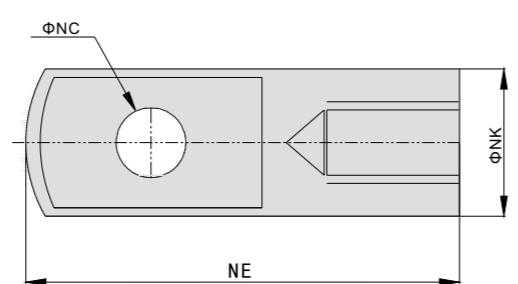
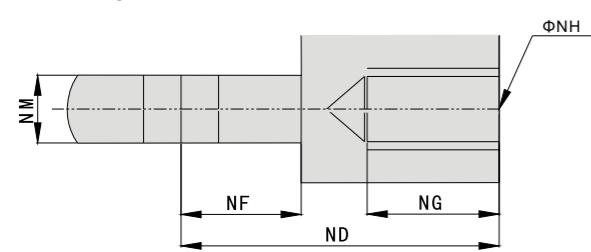
MAL/MA Series Mini Cylinder Brackets

Main Dimensions

Y Fitting

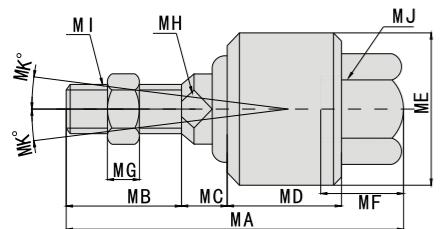


I Fitting



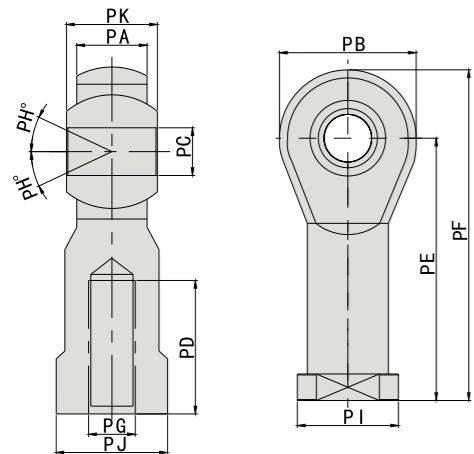
Bore	Sign	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
16		12	3.5	12	28	8.5	12.5	M6X1	7	12	12	6	5	8.5	28	17	12.5
20		16	8	30	40	11	15	M8X1.25	10	16	14	8	8	15	40	21	16.5
25		19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
32		19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
40		25.4	10	48	67	15	25	M12X1.25	20	24	23	14	10	20	57	31	26

Floating Fitting



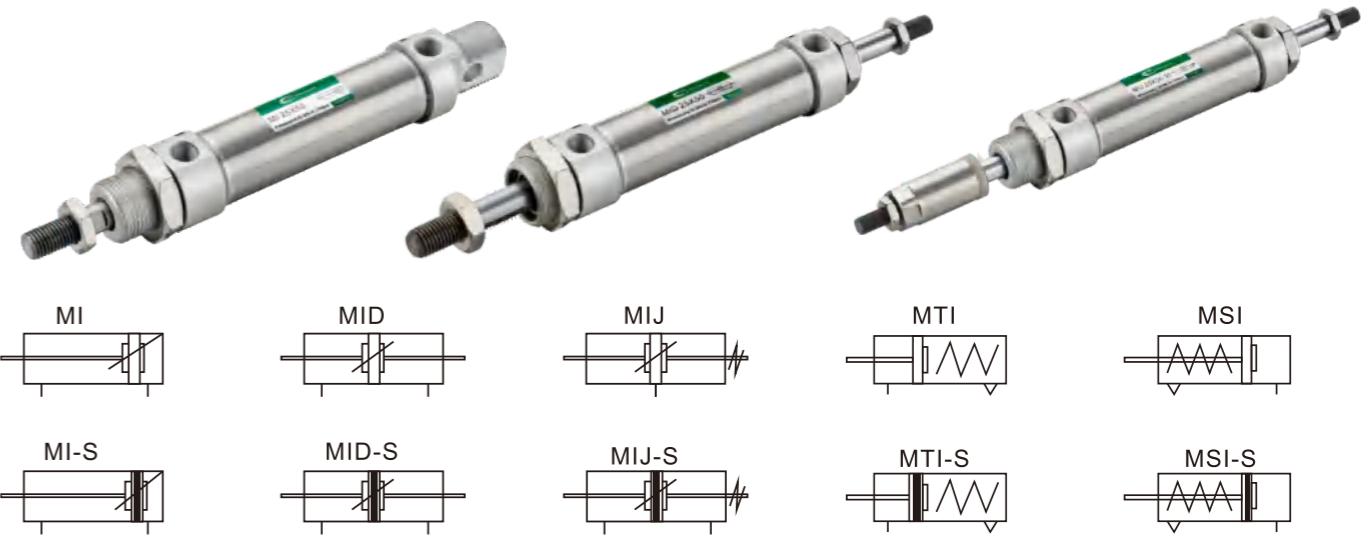
Bore	Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20		51	20	6	17	24	11.5	6	8	M8X1.25	M8X1.25	13
25		58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
32		58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
40		58	22	8	21	28	11.5	8	12	M12X1.25	M12X1.25	12
50		70	22.5	8.5	28	34.5	13	8	15	M14X1.5	M14X1.5	13
63		70	22.5	8.5	28	34.5	13	8	15	M14X1.5	M14X1.5	13

Bearing Fitting



Bore	Sign	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK
20		9	24	8	16	36	48	M8X1.25	13	16	14	12
25		11	26	10	20	43	56	M10X1.25	13	19	17	14
32		11	26	10	20	43	56	M10X1.25	13	19	17	14
40		12	32	12	24	50	66	M12X1.25	13	22	19	16
50		15	40	16	28	64	84	M16X1.5	15	27	22	21
63		15	40	16	28	64	84	M16X1.5	15	27	22	21

MI Series Mini Cylinder



Ordering Code MI Series Mini Cylinder

M I **1 6** **x 4 0** **- S** **- C A**
 Series code Bore Stroke Magnet Rear cover type
 MI: Basic type Nil: Without magnet CA: Swiveling tail
 MID: Double shaft type S: With magnet CM: Round tail
 MIJ: Double shaft adjustable type U: Flat tail
 MSI: Spring extend
 MTI: Spring return
 MIC: Double acting cushion
 MICJ: Adjustable stroke with cushion
 Mark: According to ISO6432 CETOPRP52P Standard

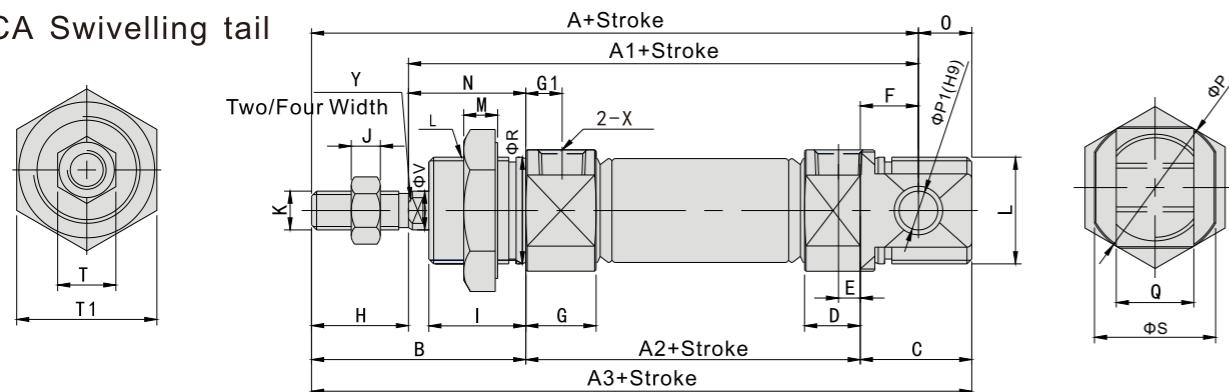
Specifications

Bore(mm)	8	10	12	16	20	25	32	40
Acting type	Double acting, Single acting spring extend, Single acting spring return							
Working medium	Clean air (40µm filtration)							
Pressure range	0.05 to 0.7MPa							
Max. working pressure	0.2 to 0.7MPa							
Working temperature	1.5MPa							
Speed range	-5 to 70°C							
Cushion type	50 to 750mm/s							
Material	MIC Series: Adjustable cushion Other Series: Anti-bump cushion							
Port size	Stainless steel barrel			M5X0.8		G1/8		G1/4

MI Series Mini Cylinder

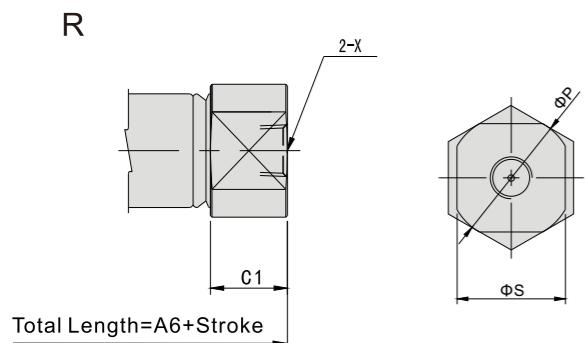
Main Dimensions

CA Swivelling tail

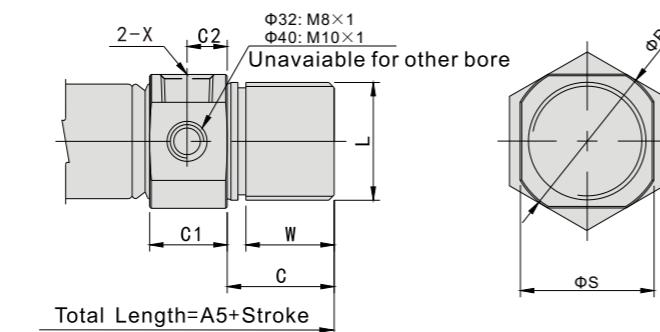


I

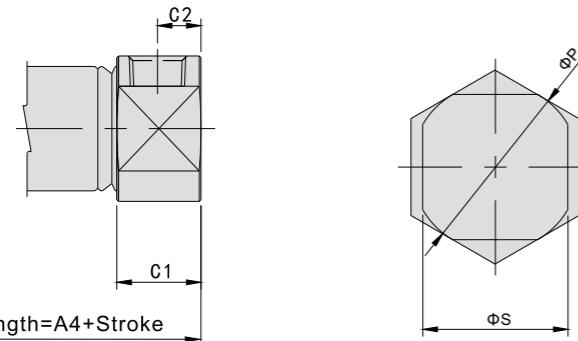
R



CM Round tail



U Flat tail

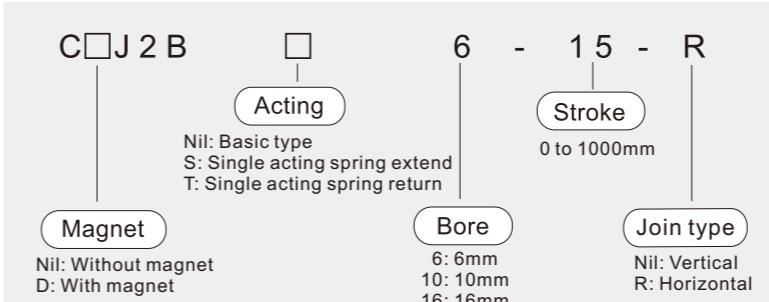


Bore	Sign	A	A1	A2	A3	A4	A5	A6	B	C	C1	C2	D	E	F	G	G1	H	I
8		76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
10		76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
12		91	75	50	105	88	-	-	38	17	10.5	6	10.5	6	9	12.5	8	16	17
16		98	82	56	111	94	111	94	38	17	10.5	6	10.5	6	9	12.5	8	16	17
20		115	95	62	126	106	126	106	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20
25		126	104	65	137	115	137	114.5	50	22	15.5	8	16	8	12	16	8	22	22
32		-	-	-	-	125	140	126	58	14	15.5	8	-	-	-	16.5	9	20	30
40		-	-	-	-	158	174	158	69	16	22	11.5	-	-	-	22	12	24	35

Bore	Sign	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V	W	Y
8		2.5	M4X0.7	M12X1.25	6	16	10	17	4	8	12	15	7	17	M5X0.8	4	-	-
10		2.5	M4X0.7	M12X1.25	6	16	10	17	4	8	12	15	7	17	M5X0.8	4	-	-
12		5	M6X1.0	M16X1.5	6	22	14	20	6	12	16	18	10	22	M5X0.8	6	-	5
16		5	M6X1.0	M16X1.5	6	22	13	22	6	12	16	20	10	22	M5X0.8	6	13.5	5
20		6	M8X1.25	M22X1.5	7	24	11	29	8	16	22	25	12	29	G1/8	8	16.5	6
25		6	M10X1.25	M22X1.5	7	28	11	33.5	8	16	22	30	17	29	G1/8	10	18.5	8
32		6	M10X1.5	M30X1.5	7	38	-	37.5	-	-	30	34.5	17	36	G1/8	12	10.5	10
40		7	M12X1.75	M38X1.5	8	45	-	46.5	-	-	38	42.5	17	46	G1/4	16	12.5	14

CJ2B Series Mini Cylinder

Ordering Code CJ2B Series Mini Cylinder

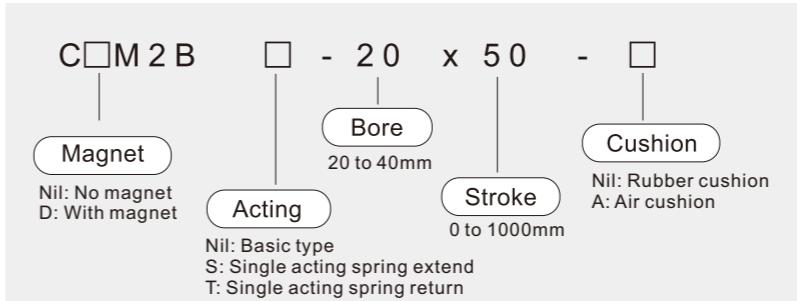


Specifications

Bore (mm)	6	10	16
Working medium	Clean air (40μm filtration)		
Guaranteed pressure	1.05MPa		
Max. working pressure	0.7MPa		
Min. working pressure	0.12MPa	0.06MPa	
Working temperature	-10 to 70°C		
Speed range	50 to 750mm/s		
Cushion type	Rubber cushion		
Tolerance of stroke	±1.0mm		

CDM2B Series Mini Cylinder

Ordering Code CDM2B Series Mini Cylinder

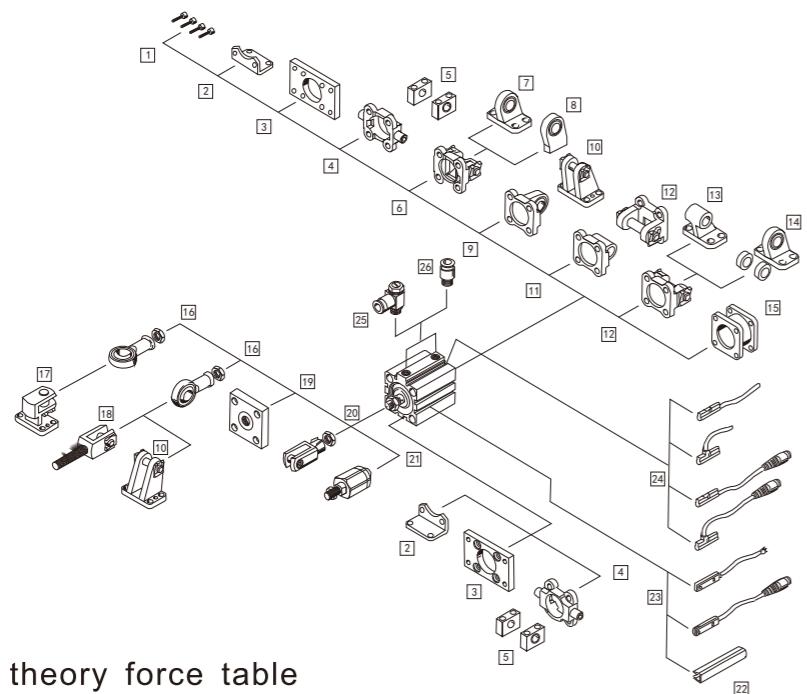


Specifications

Bore (mm)	20	25	32	40
Working medium	Clean air (40μm filtration)			
Acting type	Double acting			
Working pressure	0.05 to 1.0MPa			
Working temperature	-10 to 70°C			
Cushion type	Rubber cushion (Standard), Air cushion (Optional)			
Speed range	Min: 10mm/s	Max: 1000mm/s		

Technical Data 3

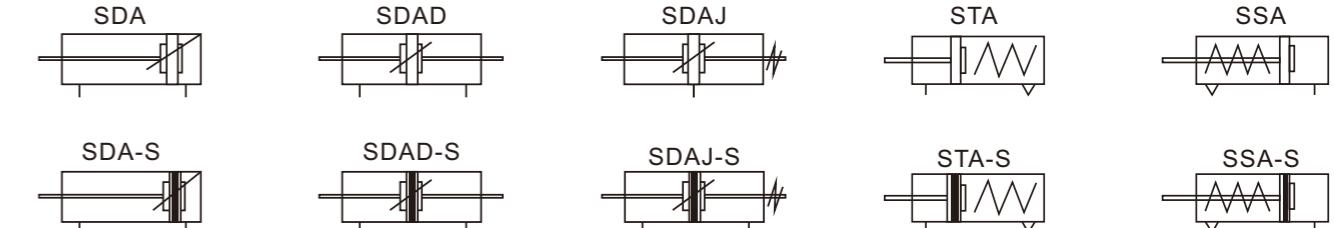
Cylinder Peripheral Component



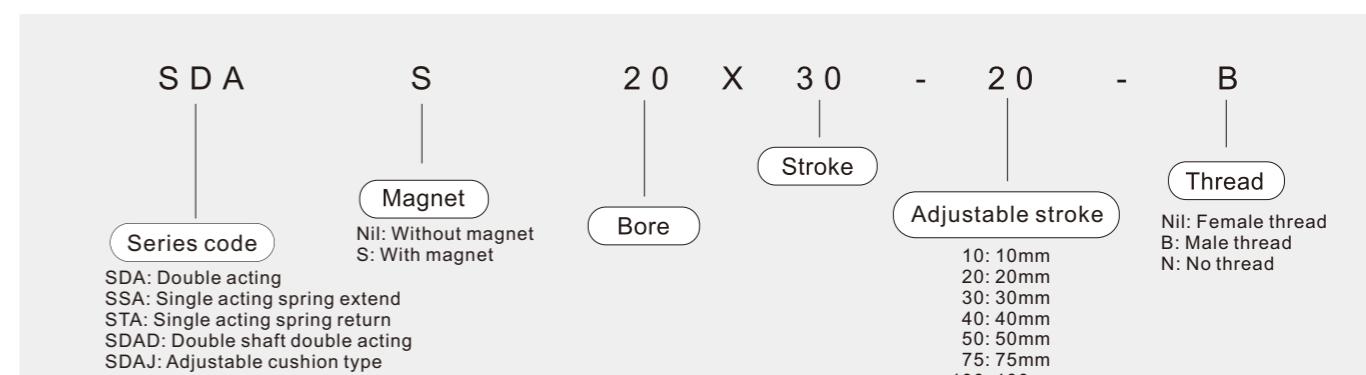
Air cylinder theory force table

Bore (mm)	Piston Size (mm)	Acting Type	Pressure Square (mm²)	Air Pressure(MPa)						
				0.1	0.2	0.3	0.4	0.5	0.6	0.7
12	6	Single acting extend	113	-	7.0	18.3	29.6	40.9	52.2	63.5
		Single acting return	85	-	1.4	9.9	18.4	26.9	35.4	43.9
		Double acting	113	-	22.6	33.9	45.2	56.5	67.8	79.1
		Press side	85	-	1.7	25.5	3.4	42.5	5.1	59.5
16	6	Single acting extend	201	-	13.6	33.7	53.8	73.9	94.0	114.1
		Single acting return	173	-	8.0	25.3	42.6	59.9	77.2	94.5
		Double acting	201	-	40.2	60.3	80.4	100.5	120.6	140.7
		Pull side	173	-	34.6	51.9	69.2	86.5	103.8	121.1
20	8	Single acting extend	314	-	28.7	60.1	91.5	122.9	154.3	185.7
		Single acting return	264	-	18.7	45.1	71.5	97.9	124.3	150.7
		Double acting	314	-	62.8	94.2	125.6	157.0	188.4	219.8
		Pull side	264	-	52.8	79.2	105.6	132.0	158.4	184.8
25	10	Single acting extend	490	-	58.0	107.0	156.0	205.0	254.0	303.0
		Single acting return	412	-	42.4	83.6	124.8	166.0	207.2	248.4
		Double acting	490	-	98.0	147.0	196.0	245.0	294.0	343.0
		Pull side	412	-	82.4	123.6	164.8	206.0	247.2	288.4
32	12	Single acting extend	804	-	112.1	192.5	272.9	353.3	433.7	514.1
		Single acting return	690	-	89.3	158.3	227.3	296.3	365.3	434.3
		Double acting	804	-	160.8	241.2	321.6	402.0	482.4	562.8
		Pull side	690	-	138.0	207.0	276.0	345.0	414.0	483.0
40	16	Single acting extend	1256	-	200.8	326.4	452.0	577.6	703.2	828.8
		Single acting return	1055	-	160.6	266.1	371.6	477.1	582.6	688.1
		Double acting	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2
		Pull side	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5
50	20	Single acting extend	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1
		Single acting return	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3
63	20	Double acting	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2	2181.9
		Pull side	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1
80	25	Single acting extend	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2
		Single acting return	4536	453.6	907.2	1360.8	1814.4	2268.0	2721.6	3175.2
100	32	Double acting	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	5497.1
		Pull side	7049	704.9	1409.8	2114.7	2819.6	3524.5	4229.4	4934.3

SDA Series Compact Cylinder



Ordering Code SDA Series Compact Cylinder

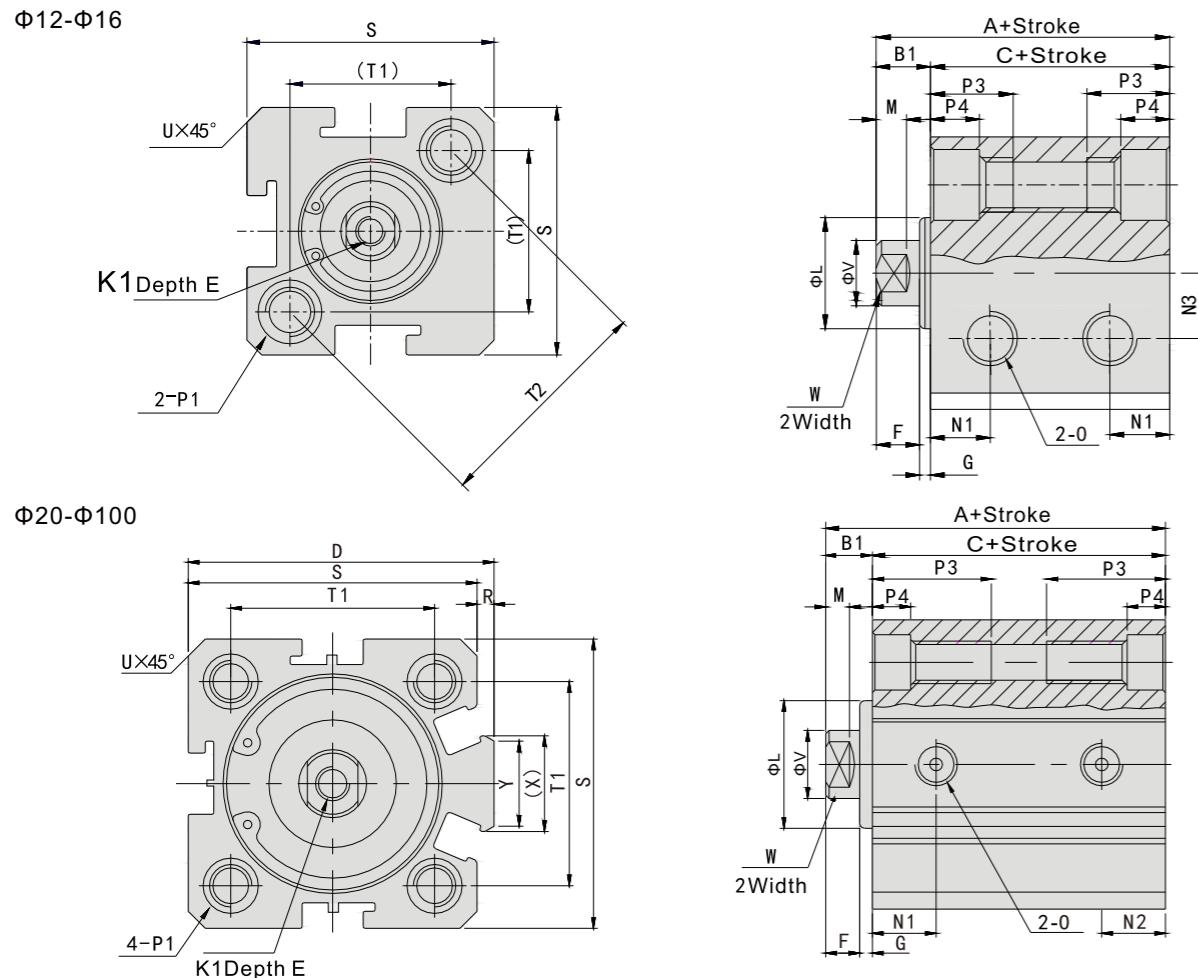


Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting									
	Single acting spring extend, Single acting spring return									
Working medium	Clean air (40µm filtration)									
Pressure range	0.1 to 0.9MPa									
	Double acting									
	0.2 to 0.9MPa									
Max. working pressure	1.5MPa (213psi)									
Working temperature	-5 to 70°C									
Speed range	30 to 500mm/s									
	100 to 500mm/s									
Cushion type	Fixed cushion									
Port size	M5×0.8			G1/8			G1/4			G3/8

SDA Series Compact Cylinder

Main Dimensions SDA/SDAS (Double Acting Type)

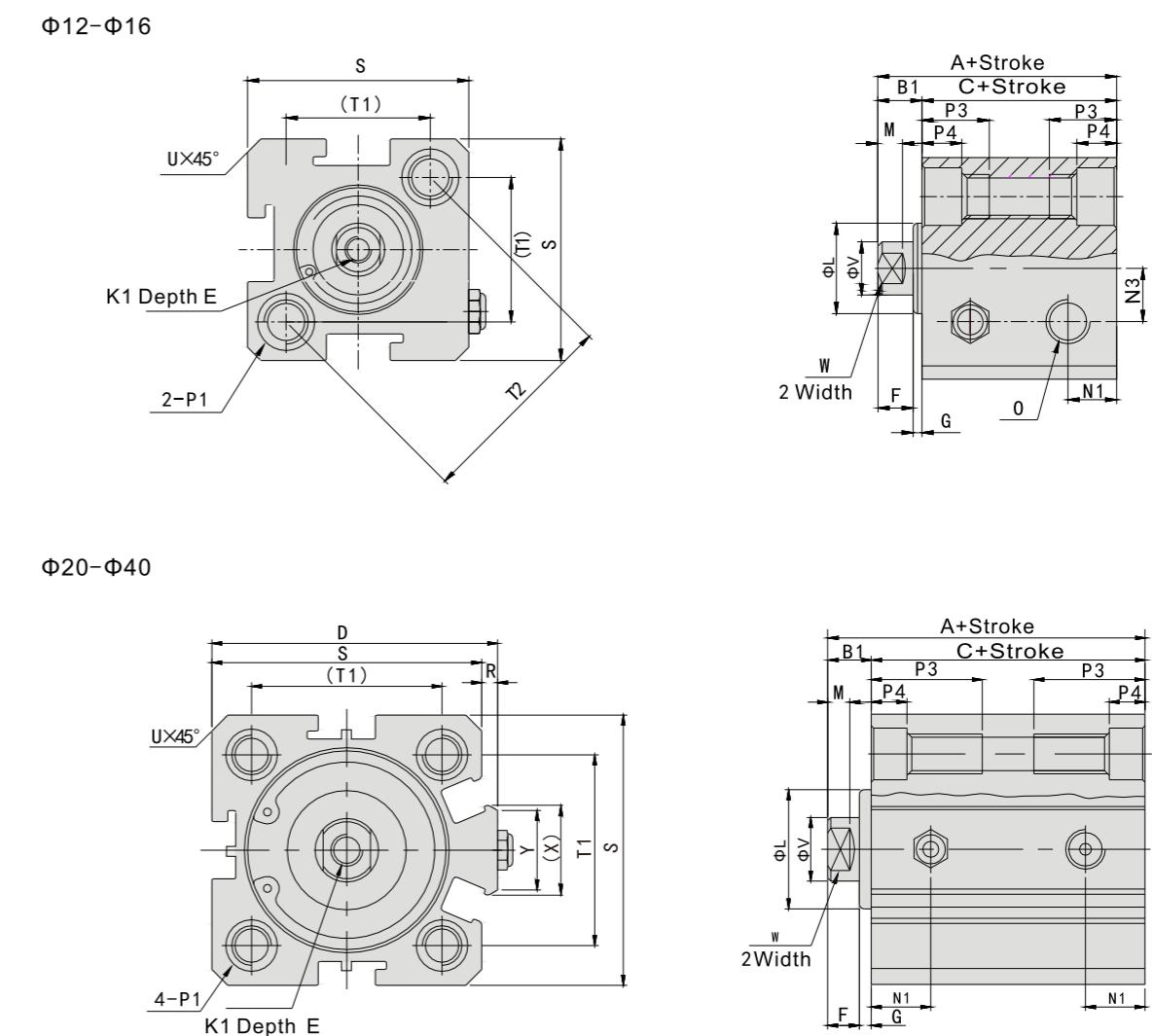


Model	Standard			With Magnet			D	E	F	G	K1	L	M	N1		N2		N3
	Bore/Sign	A	B1	C	A	B1	C							S=5	S>5	S=5	S>5	
12	22	5	17	32	5	27	-	6	4	1	M3X0.5	10.2	2.8	6.3		6.3	6	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3X0.5	11	2.8	7.3		7.3	6.5	
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4X0.7	15	2.8	7.5		7.5	-	
25	27	6	21	37	6	31	42	10	4	2	M5X0.8	17	2.8	8		8	-	
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6X1	22	2.8	9		9	-	
40	33	7	26	43	7	36	58.5	12	4	3	M8X1.25	28	2.8	10		10	-	
50	37	9	28	47	9	38	71.5	15	5	4	M10X1.5	38	2.8	10.5		10.5	-	
63	41	9	32	51	9	42	84.5	15	5	4	M10X1.5	40	2.8	9.5	12	9.5	11	
80	52	11	41	62	11	51	104	20	6	5	M14X1.5	45	4	11.5	14.5	11.5	14.5	
100	63	12	51	73	12	61	124	20	7	5	M18X1.5	55	4	16	20.5	16	20.5	

Bore/Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5X0.8	Double side: Ø8.2 Thread: M6×1.0 Through hole: Ø4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double side: Ø8.2 Thread: M6×1.0 Through hole: Ø4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double side: Ø10 Thread: M8×1.25 Through hole: Ø6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	G1/4	Double side: Ø11 Thread: M8×1.25 Through hole: Ø6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double side: Ø11 Thread: M8×1.25 Through hole: Ø6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	G3/8	Double side: Ø14 Thread: M12×1.75 Through hole: Ø9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double side: Ø17.5 Thread: M14×2 Through hole: Ø11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDA Series Compact Cylinder

Main Dimensions SSA/SSAS (Single Acting Spring Extend)



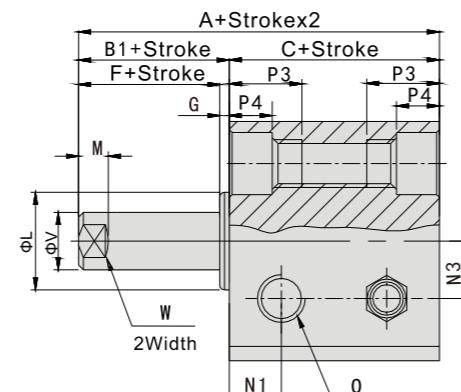
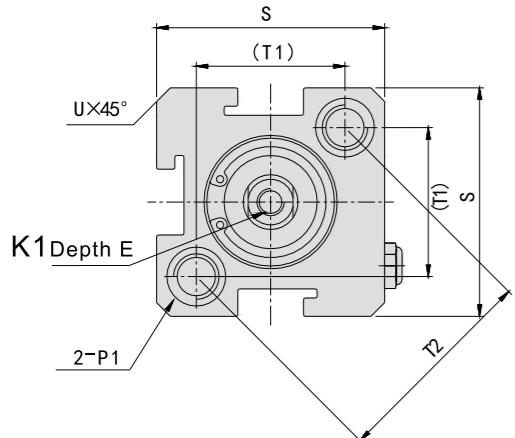
Model	Standard			With Magnet			D	E	F	G	K1	L	M	N1	N3				
	Bore/Sign	A	B1	C	A	B1	C	S≤10	>10	S≤10	>10	S≤10	>10	S≤10	>10				
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3X0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	16	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5X0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6X1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8X1.25	28	2.8	10	-

Bore/Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double side: Ø6.5 Thread: M5×0.8 Through hole: Ø4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5X0.8	Double side: Ø8.2 Thread: M6×1.0 Through hole: Ø4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double side: Ø8.2 Thread: M6×1.0 Through hole: Ø4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double side: Ø10 Thread: M8×1.25 Through hole: Ø6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	G1/4	Double side: Ø11 Thread: M8×1.25 Through hole: Ø6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double side: Ø11 Thread: M8×1.25 Through hole: Ø6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	G3/8	Double side: Ø14 Thread: M12×1.75 Through hole: Ø9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double side: Ø17.5 Thread: M14×2 Through hole: Ø11.3	30	13	10	114	90	-	3.				

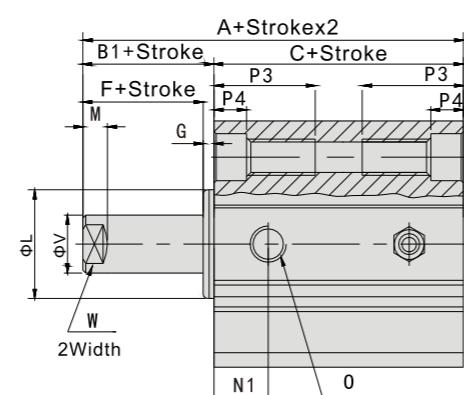
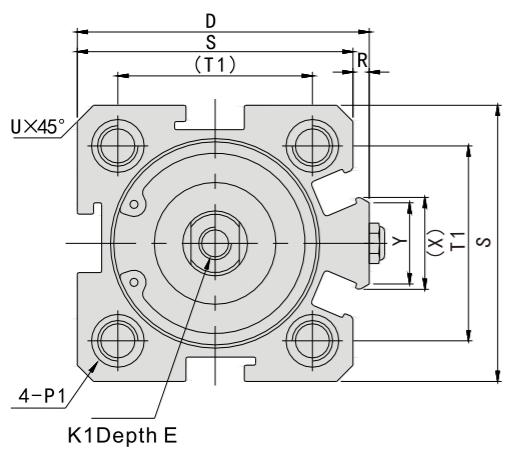
SDA Series Compact Cylinder

Main Dimensions STA/STAS (Single Acting Spring Return)

$\Phi 12-\Phi 16$

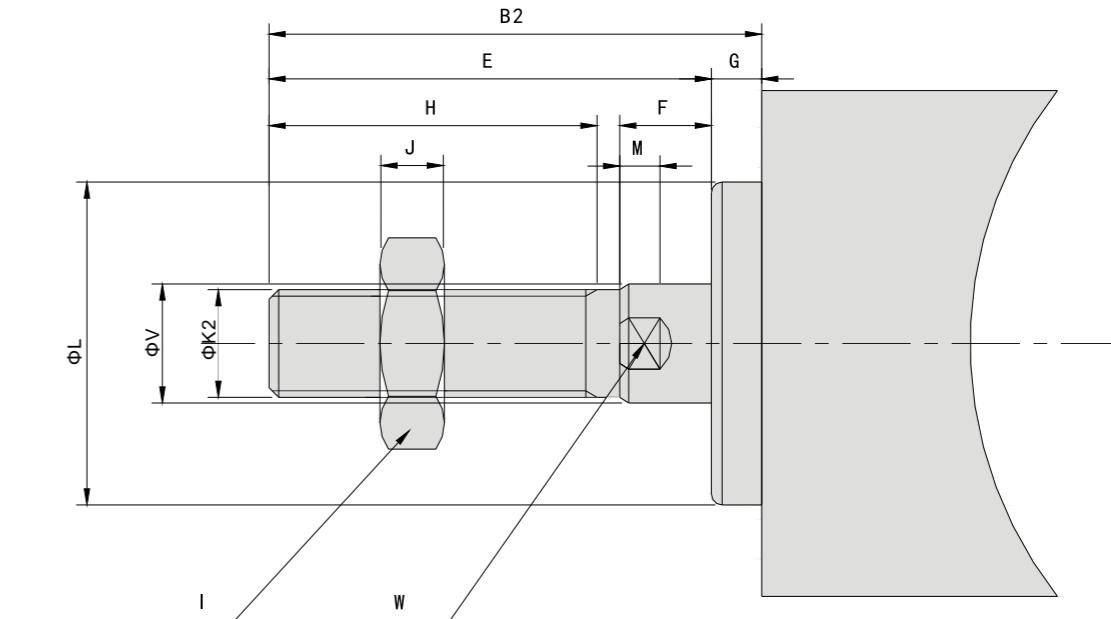


$\Phi 20-\Phi 40$



SDA Series Compact Cylinder

Main Dimensions SDA/SSA/STA



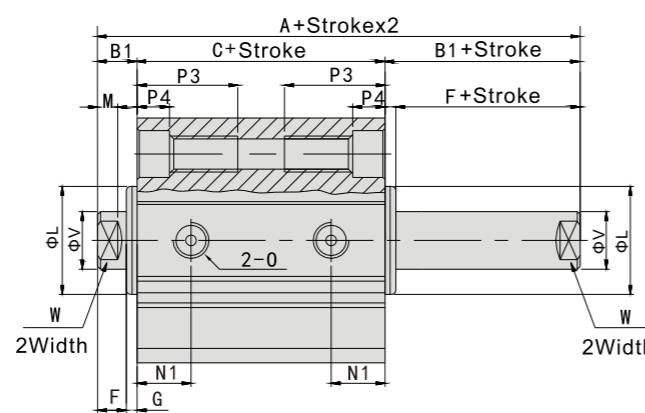
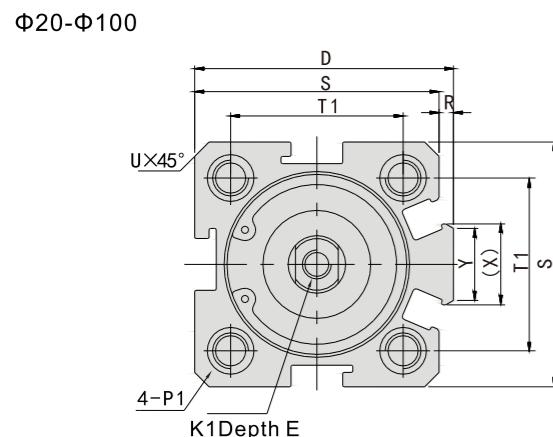
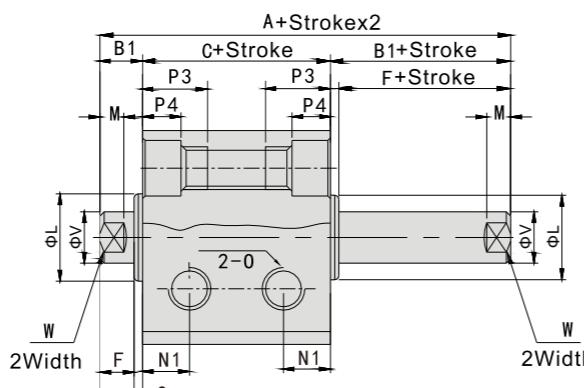
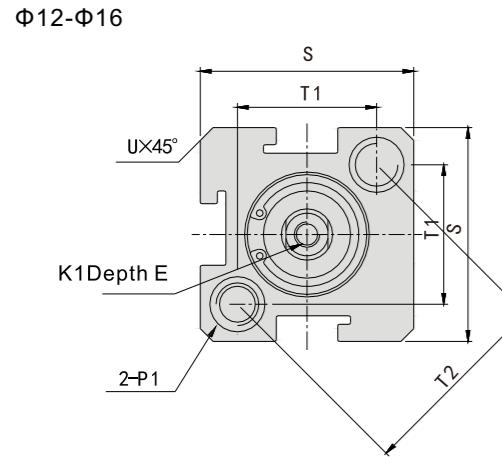
Bore	Sign	B2	E	F	G	H	I	J	K2	L	M	V	W
12		17	16	4	1	10	8	4	M5X0.8	10.2	2.8	6	5
16		17.5	16	4	1.5	10	8	4	M5X0.8	11	2.8	6	5
20		20.5	19	4	1.5	13	10	5	M6X1.0	15	2.8	8	6
25		23	21	4	2	15	12	6	M8X1.25	17	2.8	10	8
32		25	22	4	3	15	17	6	M10X1.25	22	2.8	12	10
40		35	32	4	3	25	19	8	M14X1.5	28	2.8	16	14
50		37	33	5	4	25	27	11	M18X1.5	38	2.8	20	17
63		37	33	5	4	25	27	11	M18X1.5	40	2.8	20	17
80		44	39	6	5	30	32	13	M22X1.5	45	4	25	22
100		50	45	7	5	35	36	13	M26X1.5	55	4	32	27

Model	Standard				With Magnet				D	E	F	G	K1	L	M	N1	N3		
	A	B1	C	A	B1	C	D	E	F	G									
Bore/Sign	≤ 10	> 10		≤ 10	> 10		≤ 10	> 10											
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3X0.5	11	2.8	6.5	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	15	2.8	7.5	-
25	37	47	6	31	41	47	57	6	41	51	42	10	4	2	M5X0.8	17	2.8	8	-
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6X1	22	2.8	9	-
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8X1.25	28	2.8	10	-

Bore	Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8		Double side: $\Phi 6.5$ Thread: M5×0.8 Through hole: $\Phi 4.2$	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8		Double side: $\Phi 6.5$ Thread: M5×0.8 Through hole: $\Phi 4.2$	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8		Double side: $\Phi 6.5$ Thread: M5×0.8 Through hole: $\Phi 4.2$	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5X0.8		Double side: $\Phi 8.2$ Thread: M6×1.0 Through hole: $\Phi 4.6$	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8		Double side: $\Phi 8.2$ Thread: M6×1.0 Through hole: $\Phi 4.6$	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8		Double side: $\Phi 10$ Thread: M8×1.25 Through hole: $\Phi 6.5$	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

SDA Series Compact Cylinder

Main Dimensions SDAD/SDADS (Double Shaft Acting Adjustable Type)

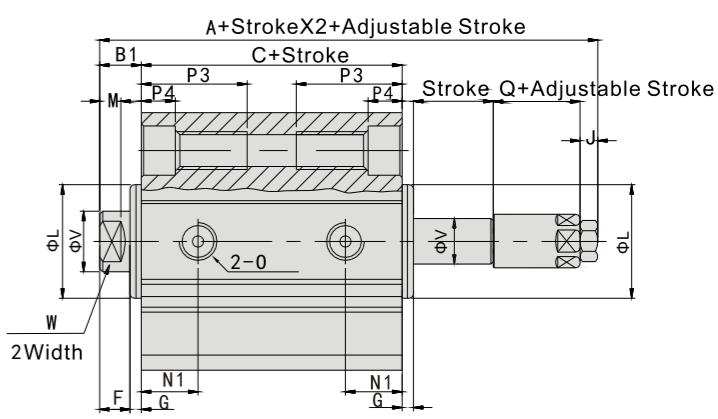
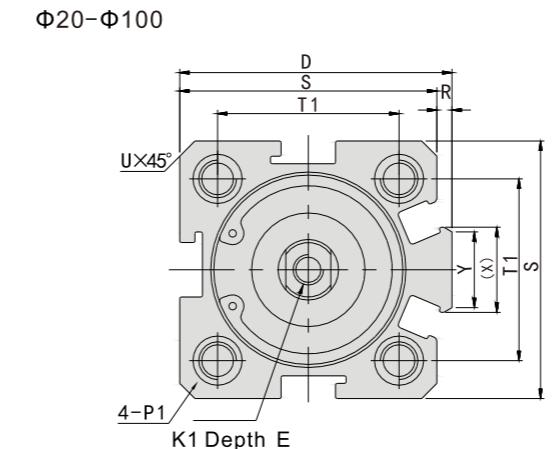
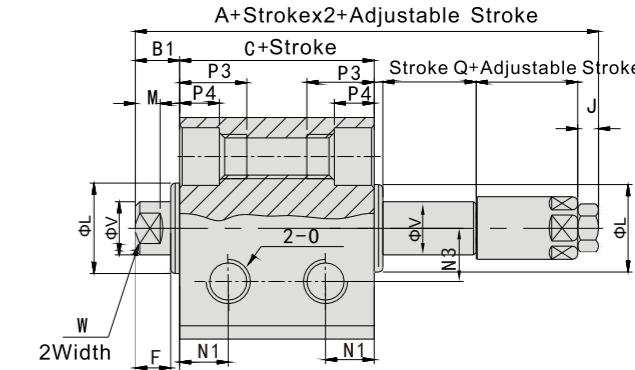
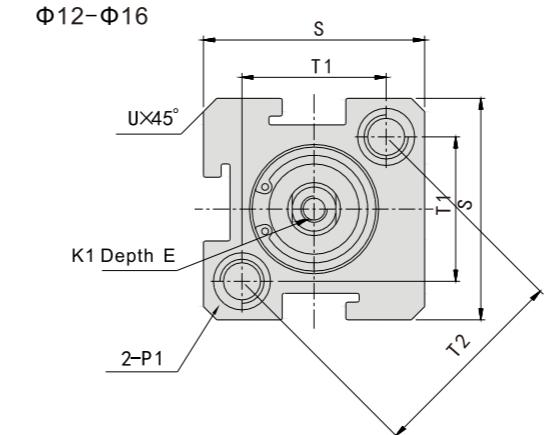


Model Bore/Sign	Standard			With Magnet			D	E		F	G	K1	L	M	N1		N3
	A	B1	C	A	B1	C		S≤10	S>10						S=5	S>5	
12	27	5	17	37	5	27	-	6		4	1	M3X0.5	10.2	2.8	6.3		6
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3X0.5	11	2.8	7.3		6.5
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(S=5 6.5)		4	1.5	M4X0.7	15	2.8	7.5		-
25	33	6	21	43	6	31	42	10(S=5 7)		4	2	M5X0.8	17	2.8	8		-
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6X1	22	2.8	9		-
40	40	7	26	50	7	36	58.5	8	12	4	3	M8X1.25	28	2.8	10		-
50	46	9	28	56	9	38	71.5	8	15	5	4	M10X1.5	38	2.8	10.5		-
63	50	9	32	60	9	42	84.5	10	15	5	4	M10X1.5	40	2.8	9.5	11.8	-
80	63	11	41	73	11	51	104	13	20	6	5	M14X1.5	45	4	11.5	14.5	-
100	75	12	51	85	12	61	124	18	20	7	5	M18X1.5	55	4	16	20.5	-

Bore/Sign	O	P1				P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double side: Φ6.5 Thread: M5×0.8 Through hole: Φ4.2				12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double side: Φ6.5 Thread: M5×0.8 Through hole: Φ4.2				12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double side: Φ6.5 Thread: M5×0.8 Through hole: Φ4.2				14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5X0.8	Double side: Φ8.2 Thread: M6×1.0 Through hole: Φ4.6				15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double side: Φ8.2 Thread: M6×1.0 Through hole: Φ4.6				16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double side: Φ10 Thread: M8×1.25 Through hole: Φ6.5				20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	G1/4	Double side: Φ11 Thread: M8×1.25 Through hole: Φ6.5				25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double side: Φ11 Thread: M8×1.25 Through hole: Φ6.5				25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	G3/8	Double side: Φ14 Thread: M12×1.75 Through hole: Φ9.2				25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double side: Φ17.5 Thread: M14×2 Through hole: Φ11.3				30	13	10	114	90	-	3.65	32	27	35	26

SDA Series Compact Cylinder

Main Dimensions SDAJ/SDAJS (Double Shaft Adjustable Stroke Type)

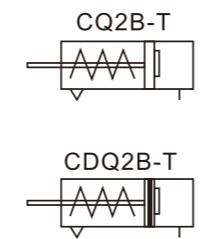
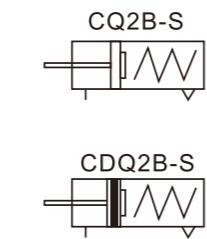
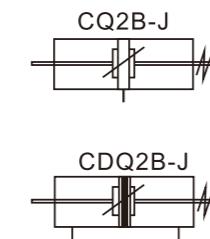
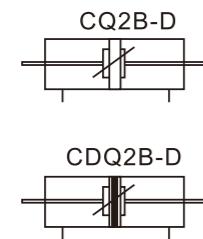
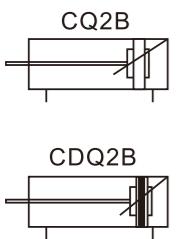


Model Bore/Sign	Standard			With Magnet			D	E		F	G	J	K1	L	M	N1	
	A	B1	C	A	B1	C		S≤10	S>10							S=5	S>5
12	40	5	17	50	5	27	-	6		4	1	4	M3X0.5	10.2	2.8	6.3	
16	42.5	5.5	18.5	52.5	5.5	28.5	-	6		4	1.5	4	M3X0.5	11	2.8	7.3	
20	47.5	5.5	19.5	57.5	5.5	29.5	36	8(S=5 6.5)		4	1.5	5	M4X0.7	15	2.8	7.5	
25	55	6	21	65	6	31	42	10(S=5 7)		4	2	6	M5X0.8	17	2.8	8	
32	61.5	7	24.5	71.5	7	34.5	50	8	12	4	3	6	M6X1	22	2.8	9	
40	65	7	26	75	7	36	58.5	8	12	4	3	8	M8X1.25	28	2.8	10	
50	73	9	28	83	9	38	71.5	8	15	5	4	11	M10X1.5	38	2.8	10.5	
63	77	9	32	87	9	42	84.5	10	15	5	4	11	M10X1.5	40	2.8	9.5	11.8
80	94	11	41	104	11	51	104	13	20	6	5	13	M14X1.5	45	4	11.5	14.5
100	105	12	51	115	12	61	124	18	20	7	5	13	M18X1.5	55	4	16	20.5

Bore/Sign	N3	O	P1				P3	P4	Q	R	S	T1	T2	U	V	W	X	Y

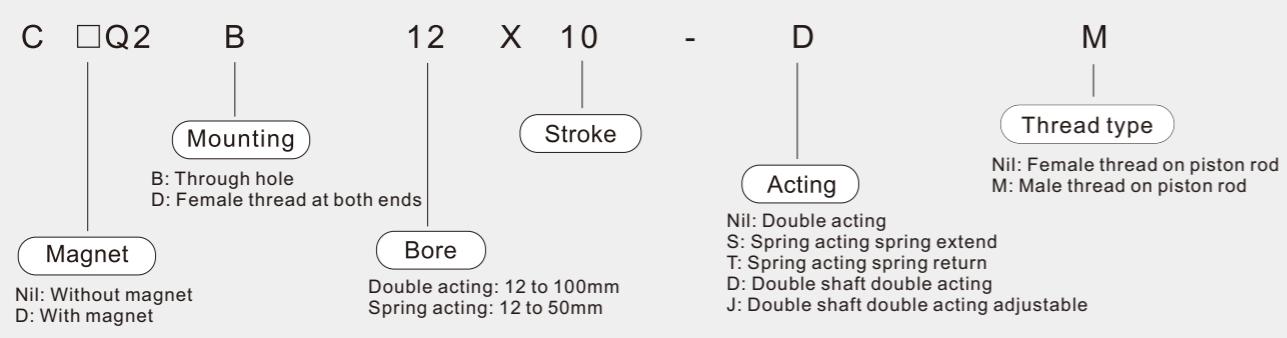
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CQ2 Series Compact Cylinder



Ordering Code

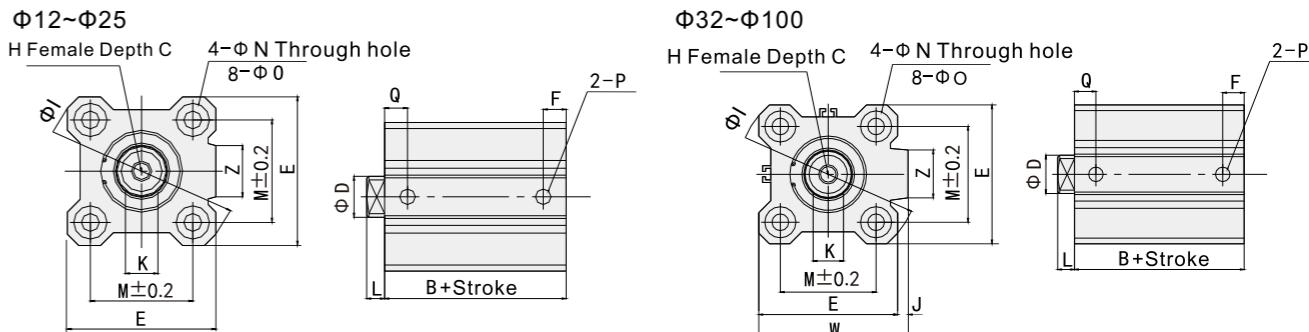
CQ2 Series Compact Cylinder



Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Working medium										
Clean air (40μm filtration)										
Acting type										
Double acting, Single acting spring extend, Single acting spring return										
Guaranteed pressure										
1.5MPa										
Max. working pressure										
1.0MPa										
Working temperature										
5 to 60°C										
Thread on piston rod										
Female thread (Standard), Male thread (Optional)										
Tolerance of stroke										
+1.0 mm										
0										
Lubrication										
Not required										
Installation										
Through hole (Standard), Female thread on both sides (Optional)										
Port size										
M5X0.8		G1/8		G1/4		G3/8				

Main Dimensions Double acting/Single acting CQ2B (Through Hole)



Double Acting

Bore	Stroke	B	ΦD	E	F	H	C	Φ1	J	K	L	M	ΦN	ΦO	P	Q	W	Z
12	5~30	17	6	25	5	M3×0.5	6	32	—	5	3.5	15.5	3.5	6.5Depth3.5	M5×0.8	7.5	—	—
16	5~30	18.5	8	29	5.5	M4×0.7	8	38	—	6	3.5	20	3.5	6.5Depth3.5	M5×0.8	8	—	10
20	5~50	19.5	10	36	5.5	M5×0.8	7	47	—	8	4.5	25.5	5.5	9Depth7	M5×0.8	9	—	10
25	5~50	22.5	12	40	5.5	M6×1.0	12	52	—	10	5	28	5.5	9Depth7	M5×0.8	11	—	10
32	10~50	23	16	45	5.5	M8×1.25	13	60	4.5	14	7	34	5.5	9Depth7	M5×0.8	10.5	49.5	14
40	5~50	29.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9Depth7	1/8	11	57	14
50	10~50	30.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11Depth8	1/4	10.5	71	19
63	10~50	36	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14Depth10.5	1/4	15	84	19
80	10~50	43.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5Depth13.5	3/8	16	104	26
100	10~50	53	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5Depth13.5	3/8	23	123.5	26

Long Stroke Note2)

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

Note1) Standard stroke is at 5mm interval;

Note2) The stroke is medium stroke between 55mm and 100mm(55, 60, 65, 70, 80, 85, 90, 95) plus 5, 10, 15 or 20mm thick backing plate;

Note3) Unless specified, the dimensions of the model with through hole is the same as those of the model with female thread at both ends.

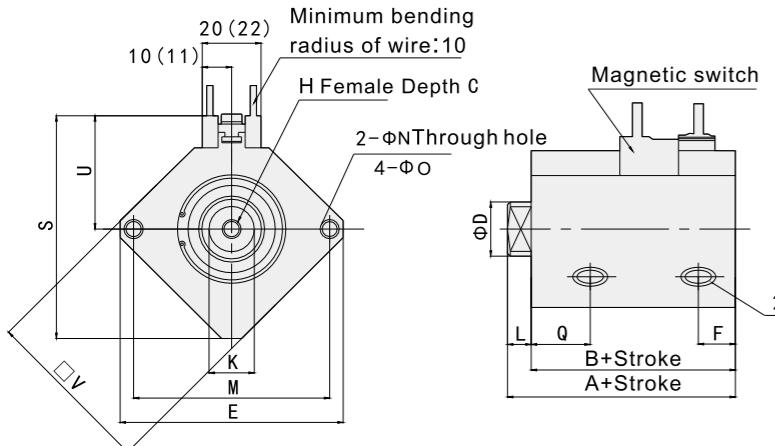
Single Acting

Bore	B			ΦD	E	F		H	C	Φ1	J	K	L	M	ΦN	ΦO	P		Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st			
12	22	27	—	6	25	5	5	M3×0.5	6	32</td												

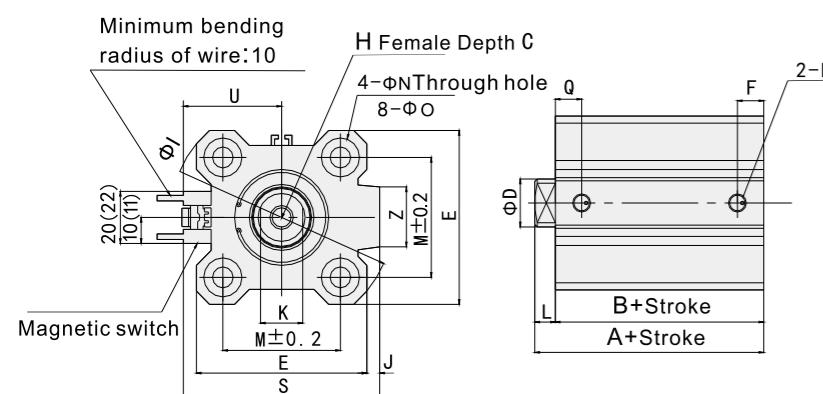
CQ2 Series Compact Cylinder

Main Dimensions CDQ2B

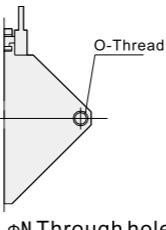
$\Phi 12 \sim \Phi 25$



$\Phi 32 \sim \Phi 100$

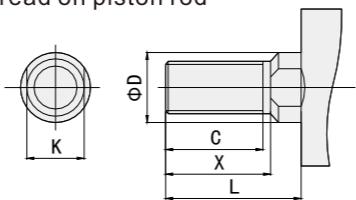


Both ends through hole^{Note3)}



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

Male thread on piston rod



Bore	Stroke	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5Depth3.5	M5×0.8	11	35.5	19.5	25	-
16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5Depth3.5	M5×0.8	10	41.5	22.5	29	-
20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9Depth7	M5×0.8	10.5	48	24.5	36	-
25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	-	10	5	40	5.5	9Depth7	M5×0.8	11	53.5	27.5	40	-
32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9Depth7	1/8	10.5	58.5	31.5	-	18
40	5~50	46.5	39.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9Depth7	1/8	11	66	35	-	18
50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11Depth8	1/4	10.5	80	41	-	22
63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14Depth10.5	1/4	15	93	47.5	-	22
80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5Depth13.5	3/8	16	112.5	57.5	-	26
100	10~50	75	63	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5Depth13.5	3/8	23	132.5	67.5	-	26

Long Stroke^{Note2)} (mm)

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

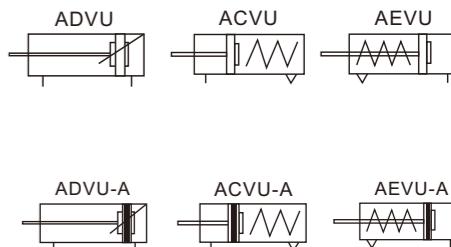
Note1) Standard stroke is at 5mm interval.

Note2) The stroke is medium stroke between 55mm and 100mm (55,60,65,70,80,85,90,95), plus 5,10,15 or 20mm thick backing plate.

Note3) Unless specified, the dimensions of the model with through hole is the same as those of the model with female thread at both ends.

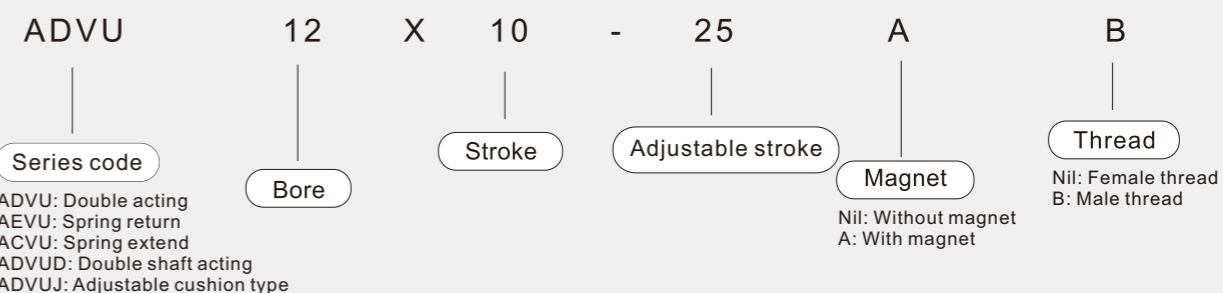
Note4) The 5mm stroke cylinder can only install 1pc magnetic switch.

ADVU Series Compact Cylinder



Ordering Code

ADVU Series Compact Cylinder

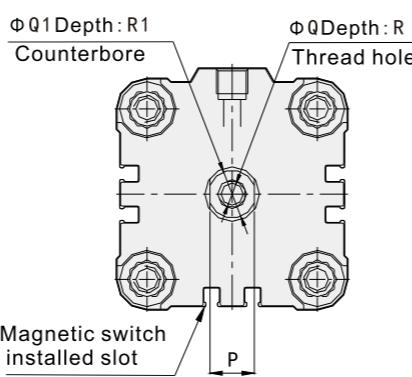
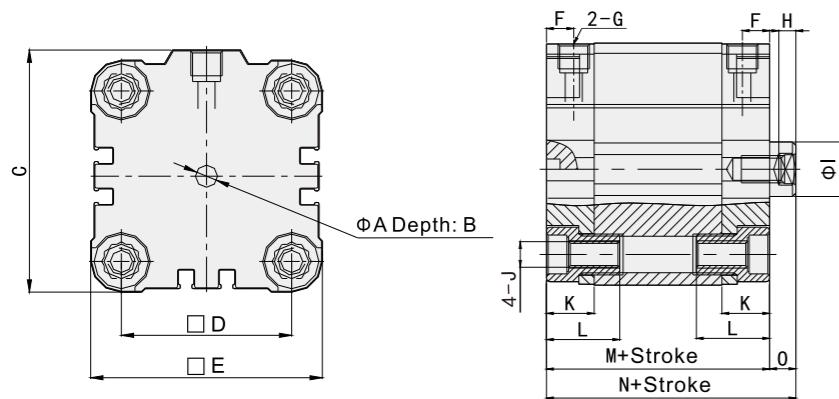
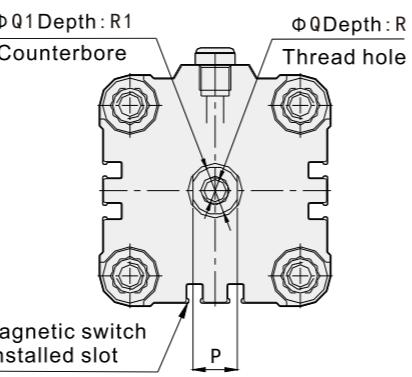
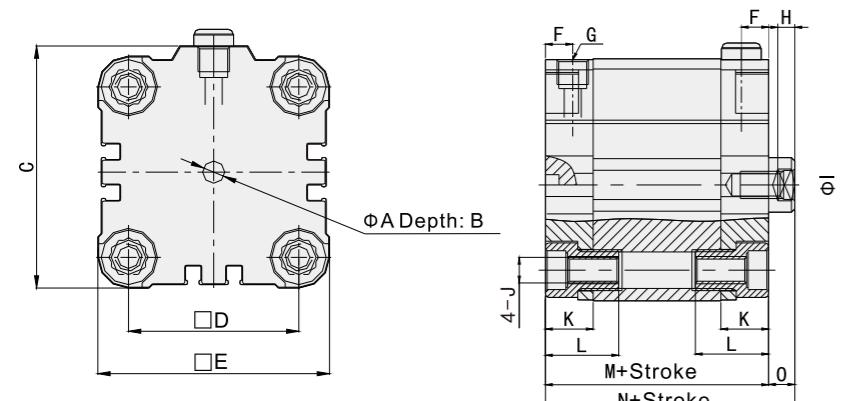
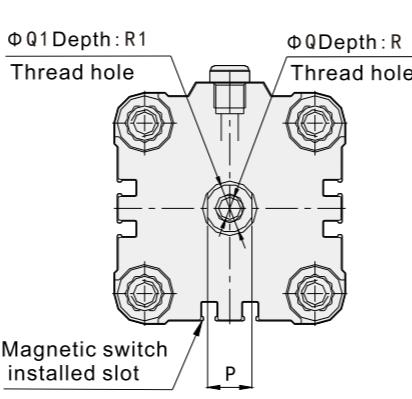
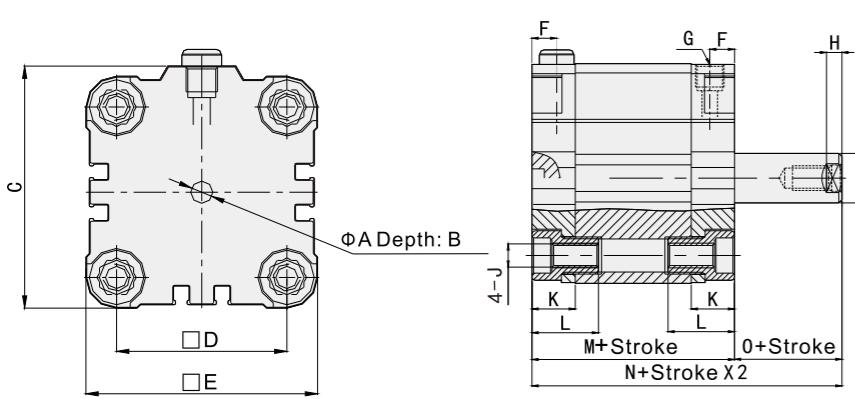


Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100	
Working medium											
Clean air (40µm filtration)											
Acting type											
Double acting spring extend, Spring return											
Pressure range	Double acting										
	0.1 to 1.0MPa										
Spring acting	0.2 to 1.0MPa										
Max. working pressure	1.5MPa										
Working temperature	-5 to 70°C										
Speed range	Double acting: 30 to 500mm/s Spring acting: 50 to 500mm/s										
Tolerance of stroke	0 to 150 ^{+1.0} ₀ mm >150 ^{+1.4} ₀ mm										
Cushion type	Rubber cushion										
Port size	M5X0.8		G1/8		G1/4						

ADVU Series Compact Cylinder

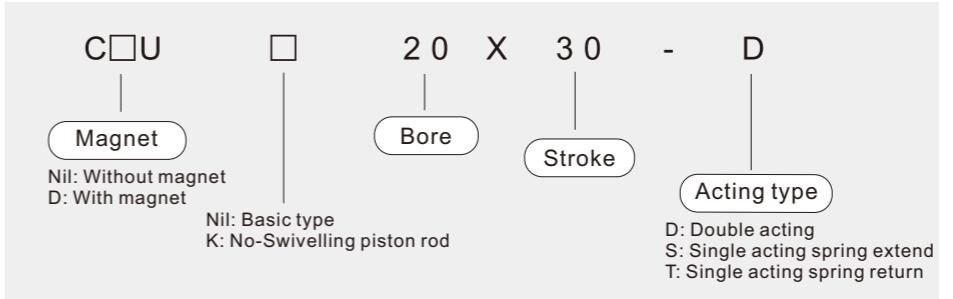
Main Dimensions

ADVU

AEVU

ACVU


Bore	Sign	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Q1	R	R1
12	6	4	30	18	29	8	M5X0.8	3	6	M4X0.7	11.5	18	38	42.5	4.5	5	M3X0.5	3.3	8	1.5	
16	6	4	30	18	29	8	M5X0.8	3	8	M4X0.7	11.5	18	38	42.5	4.5	7	M4X0.7	4.5	10	1.5	
20	6	4	37.5	22	36	8	M5X0.8	3	10	M5X0.8	11.5	18	38	42.5	4.5	9	M5X0.8	5.5	12	2	
25	6	4	41.5	26	40	8	M5X0.8	4	10	M5X0.8	11.5	18	39.5	45	5.5	9	M5X0.8	5.5	12	2	
32	6	4	52	32	50	8	G1/8	4.5	12	M6X1.0	14	21	44.5	50.5	6	32	M6X1.0	6.5	14	2.6	
40	6	4	62.5	42	60	8	G1/8	4.5	12	M6X1.0	14	21	45.5	52	6.5	10	M6X1.0	6.5	14	2.6	
50	6	4	71	50	68	8	G1/8	5	16	M8X1.25	14	22	45.5	53	7.5	10	M8X1.25	8.5	16	3.3	
63	8	4	91	62	87	8	G1/8	5	16	M10X1.5	15	24	50	57.5	7.5	13	M8X1.25	8.5	16	3.3	
80	8	4	111	82	107	8.5	G1/8	5.5	20	M10X1.5	16	27	56	64	8	17	M10X1.5	10.5	20	4.7	
100	8.1	4	133	103	128	10.5	G1/8	7	25	M10X1.5	19	32	66.5	76.5	10	22	M12X17.5	12.5	24	6.1	

CU Series Free Installation Cylinder

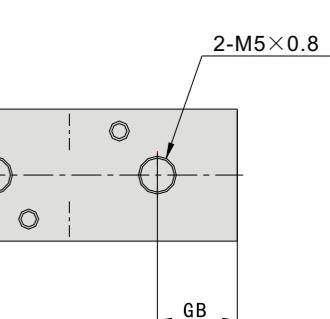
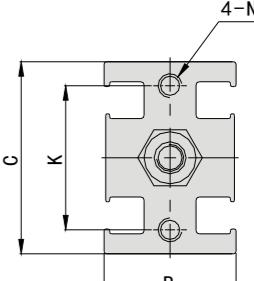
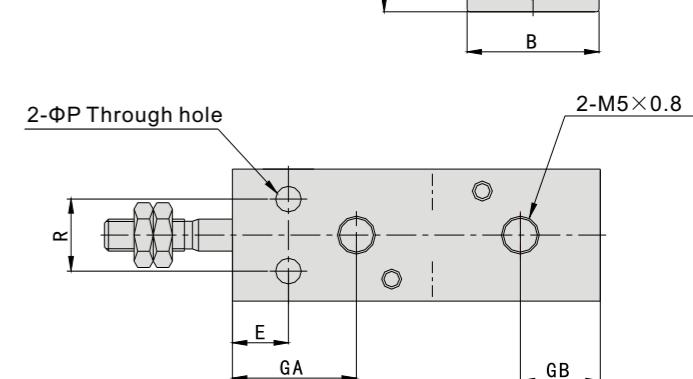
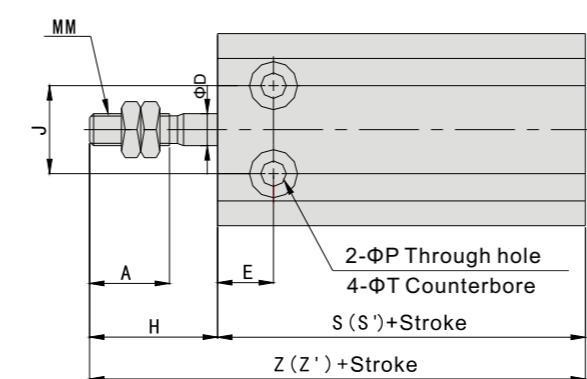
Ordering Code CU Series Free Installation Cylinder



Specifications

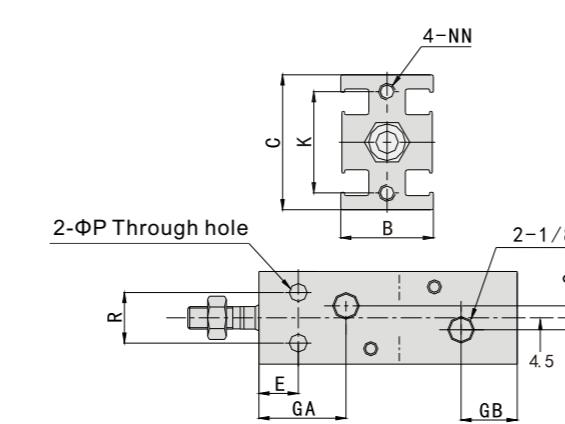
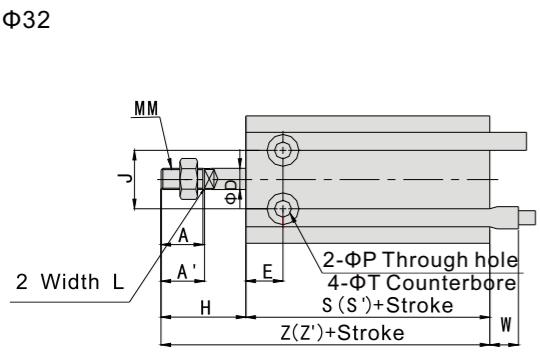
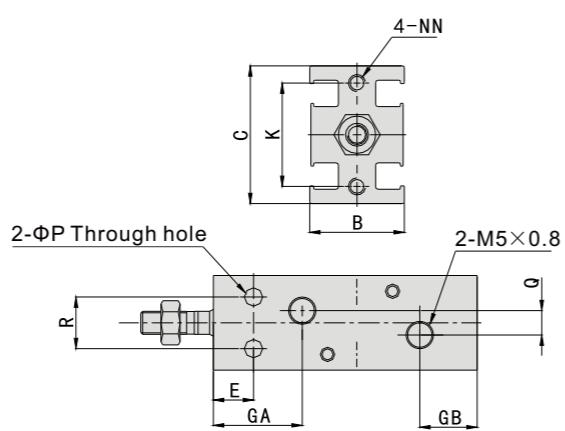
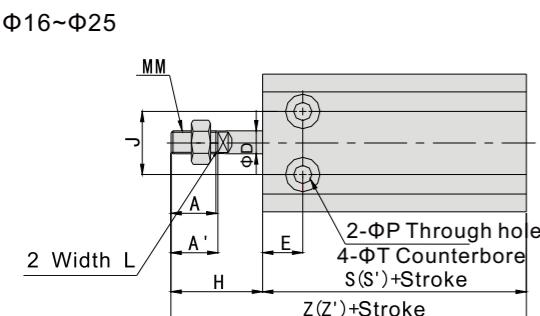
Bore (mm)	6	10	16	20	25	32
Working medium	Clean air (40μm filtration)					
Acting type	Double acting/Single acting					
Min. pressure (MPa)	Single piston rod	0.12	0.06	0.05		
	Double piston rod	0.15	0.10	0.08		
	Double piston rod	0.18	0.13	0.11		
	Single acting	Standard	0.20	0.15	0.13	
	Non-rotating	0.23	0.18	0.16		
Max. working pressure	0.7MPa					
Working temperature	5 to 60°C					
Cushion type	Rubber cushion					
Tolerance of stroke(mm)	+0.1 0					
Lubrication	Not required					
Installation	Free					
Non-rotating accuracy	± 0.8°		± 0.5°			
Port size	M5×0.8 G1/8					

Main Dimensions

Φ6~Φ10


CU Series Free Installation Cylinder

■ Main Dimensions



Common Dimensions Table

Model	A	A1	B	C	ΦD	E	GA	GB	J	K	L	MM	NN	ΦP	Q	R	ΦT
C□U6	7	-	13	22	3	7	14.5	10	10	17	-	M3X0.5	M3X0.5Depth5	3.2	-	7	6Depth4.8
C□U10	10	-	15	24	4	7	15.5	10	11	18	-	M4X0.7	M3X0.5Depth5	3.2	-	9	6Depth5
C□U16	11	12.5	20	32	6	7	16.5	11.5	14	25	5	M5X0.8	M4X0.7Depth6	4.5	4	12	7.6Depth6.5
C□U20	12	14	26	40	8	9	19	12.5	16	30	6	M6X1.0	M5X0.8Depth8	5.5	9	16	9.3Depth8
C□U25	15.5	18	32	50	10	10	21.5	13	20	38	8	M8X1.25	M5X0.8Depth8	5.5	9	20	9.3Depth9
C□U32	19.5	22	40	62	12	11	23	13	24	48	10	M10X1.25	M6X1.0Depth9	6.6	13.5	24	11Depth11.5

■ Double Acting

Model	H	Standard		With Magnet		
		S	Z	W	S'	Z'
C□U6-□D	13	33	46	2.5	33	46
C□U10-□D	16	36	52	1	36	52
C□U16-□D	16	30	46	0	40	56
C□U20-□D	19	36	55	1	46	65
C□U25-□D	23	40	63	-1	50	73
C□U32-□D	27	42	69	-4	52	79

■ Single Acting(With spring Return)

Model	H	Standard						W	With Magnet					
		S			Z				S'			Z'		
		5st	10st	15st	5st	10st	15st		5st	10st	15st	5st	10st	15st
C□U6-□S	13	38	43	48	51	56	61	2.5	38	43	48	51	56	61
C□U10-□S	16	41	46	56	57	62	72	1	41	46	56	57	62	72
C□U16-□S	16	35	40	50	51	56	66	0	45	50	60	61	66	76
C□U20-□S	19	41	46	56	60	65	75	1	51	56	66	70	75	85
C□U25-□S	23	45	50	60	68	73	83	-1	55	60	70	78	83	93
C□U32-□S	27	47	52	62	74	79	89	-4	57	62	72	84	89	99

■ Single Acting (With spring Extend)

Model	H			Standard						W	With Magnet					
				S			Z				S'			Z'		
	5st	10st	15st	5st	10st	15st	5st	10st	15st		5st	10st	15st	5st	10st	15st
C□U6-□T	18	23	28	38	43	48	56	66	76	2.5	38	43	48	56	66	76
C□U10-□T	21	26	31	41	46	56	62	72	87	1	41	46	56	62	72	87
C□U16-□T	21	26	31	45	50	60	66	76	91	0	45	50	60	66	76	91
C□U20-□T	24	29	34	41	46	56	65	75	90	1	51	56	66	75	85	100
C□U25-□T	28	33	38	45	50	60	73	83	98	-1	55	60	70	83	93	108
C□U32-□T	32	37	42	47	52	62	79	89	104	-4	57	62	72	89	99	114

TN Series Double-shaft Cylinder

Ordering Code TN Series Double-shaft Cylinder

The diagram illustrates a cylinder assembly with the following components and options:

- T N**: Top Nut.
- 2 0**: Bore diameter of 2 inches.
- X**: A blank space indicating no rod.
- 5 0**: Stroke length of 5 inches.
- : A dash indicating no rod.
- S**: Bottom Nut.

Below the cylinder body, two options are shown in ovals:

- Bore**: Corresponds to the **2 0** dimension.
- Stroke**: Corresponds to the **5 0** dimension.

Below the cylinder body, two notes are provided:

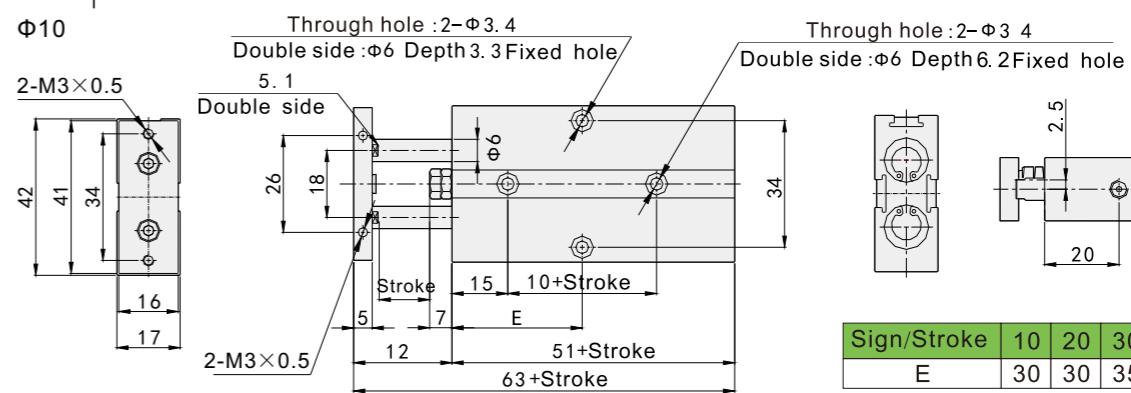
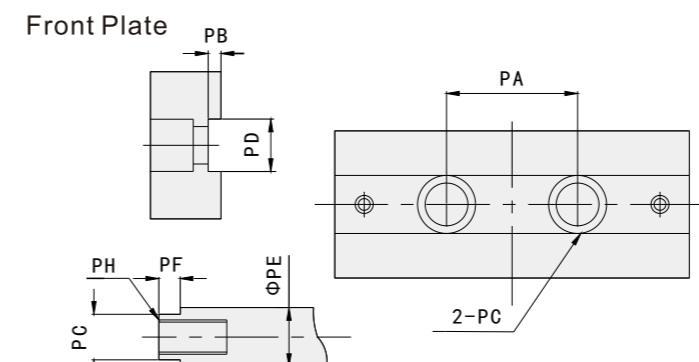
- Blank : Without Magnet**
- S:With Magnet**



Specifications

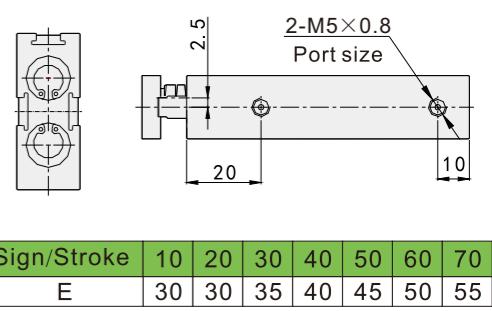
Bore (mm)	10	16	20	25	32
Working medium	Clean air (40µm filtration)				
Acting type	Double acting				
Working pressure range	0.1 to 0.9MPa				
Max. working pressure	1.5MPa				
Working temperature	-5 to 70°C				
Speed range	30 to 500mm/s				
Adjustable stroke	-10 to 0mm				
Cushion type	Rubber cushion				
No rotating accuracy	0.4°		0.3°		
Port size	M5X0.8				G1/8

■ Main Dimensions

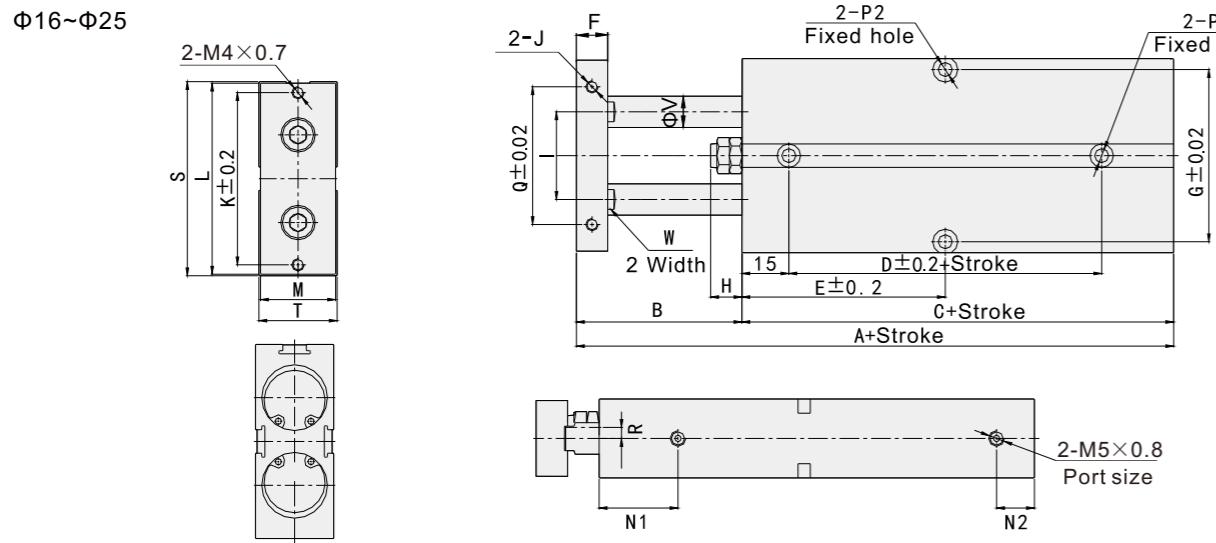


Bore/Sign	PA	PB	PC			
10	18	0.7	$\Phi 6.2 \times 3.5$ Depth Through hole: $\Phi 3.3$			
16	24	1	$\Phi 7.8 \times 4.6$ Depth Through hole: $\Phi 4.3$			
20	28	1	$\Phi 11 \times 6.8$ Depth Through hole: $\Phi 6.5$			
25	34	1	$\Phi 11 \times 6.8$ Depth Through hole: $\Phi 6.5$			
32	42	2	$\Phi 17 \times 12$ Depth Through hole: $\Phi 10.5$			
Bore/Sign	PD	PE	PF	PG	PG	
10	5.2	6	2.2	5.1	M3X0.5	Depth 5.5
16	6.2	8	3	6.1	M4X0.7	Depth 9
20	8.2	10	3	8.1	M6X1	Depth 10
25	10.2	12	3	10.1	M6X1	Depth 10
32	14.2	16	3	14.1	M10X1.5	Depth 13

Through hole :2-Φ3 4
Double side :Φ6 Depth6.2 Fixed hole



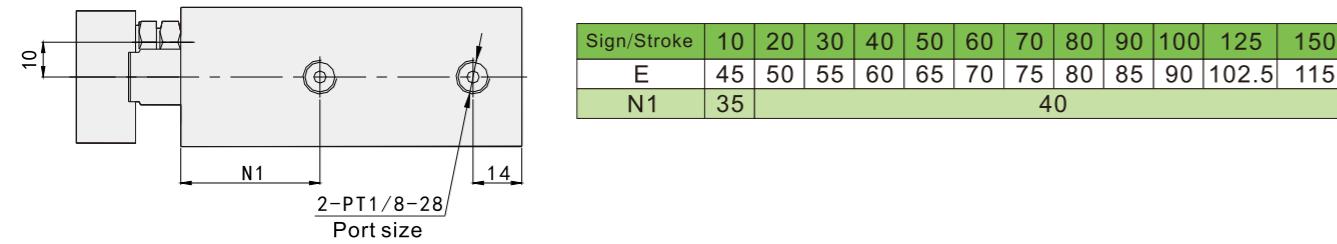
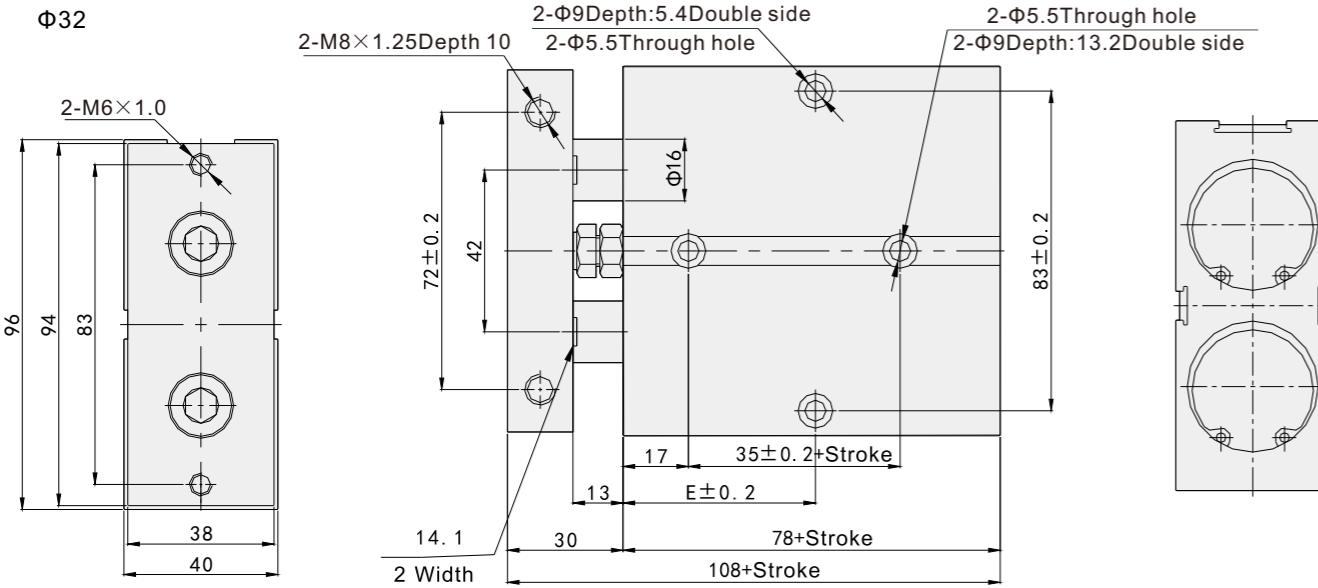
TN Series Double-shaft Cylinder



I

Bore/Sign	A	B	C	D	E (Stroke≤)												F	G	H	I	J	K	L	M	N1	N2
					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	7	24	M4X0.7Depth5	47	53	20	22	11
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	10	28	M4X0.7Depth5	55	61	24	25	12
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	9	34	M4X0.7Depth6	66	72	29	27	12

Bore/Sign	P1 (mm)	P2 (mm)	Q	R	S	T	V	W
16	Double side: Φ7.5 Depth7.2, Through hole: Φ4.5	Double side: Φ8 Depth4.5mm, Through hole: Φ4.5	34	3	54	21	8	6.1
20	Double side: Φ7.5 Depth7.2, Through hole: Φ4.5	Double side: Φ8 Depth4.5mm, Through hole: Φ4.5	44	3.5	62	25	10	8.1
25	Double side: Φ7.5 Depth7.2, Through hole: Φ4.5	Double side: Φ8 Depth4.5mm, Through hole: Φ4.5	56	6	73	30	12	10.1



CXS Series Double-shaft Cylinder

Ordering Code CXS Series Double-shaft Cylinder

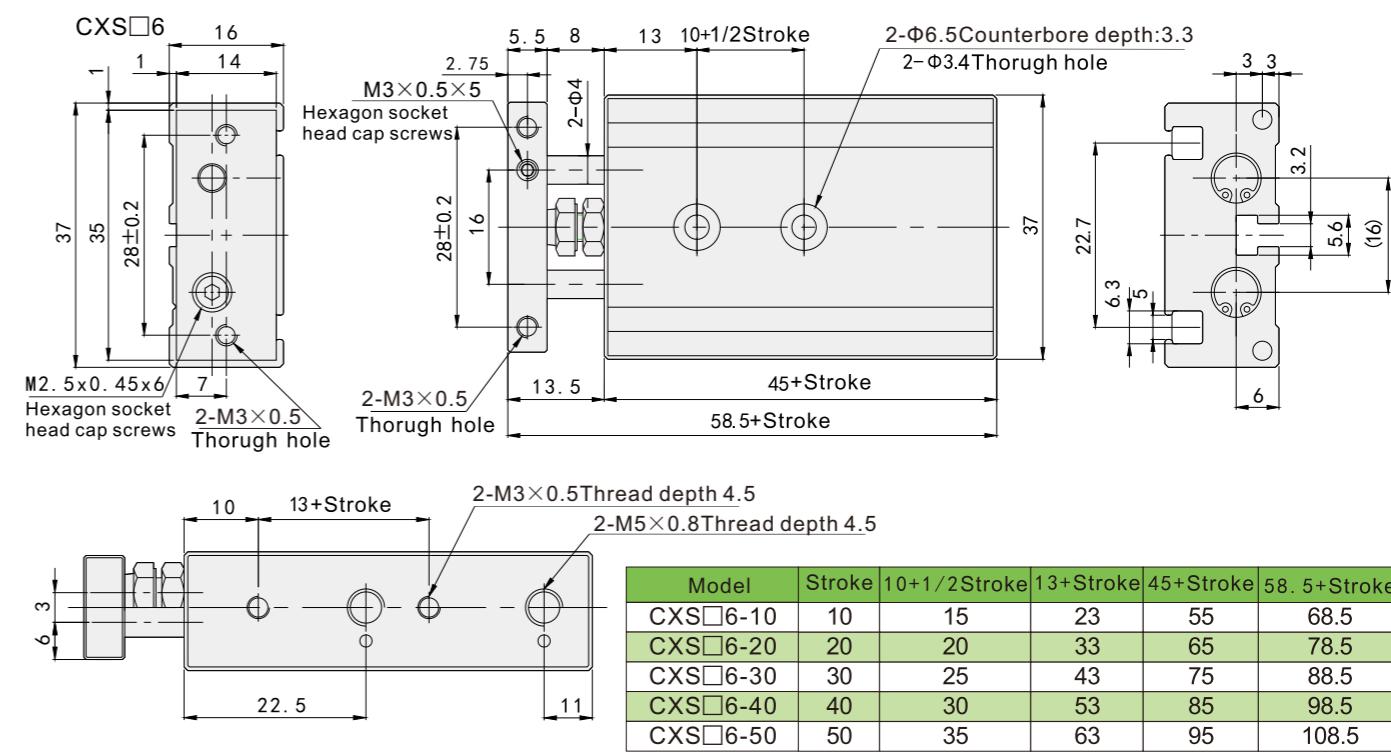
C X S M
 | |
 Bearing type Bore Stroke
 M: Slide bearing type
 L: Ball bearing type



Specifications

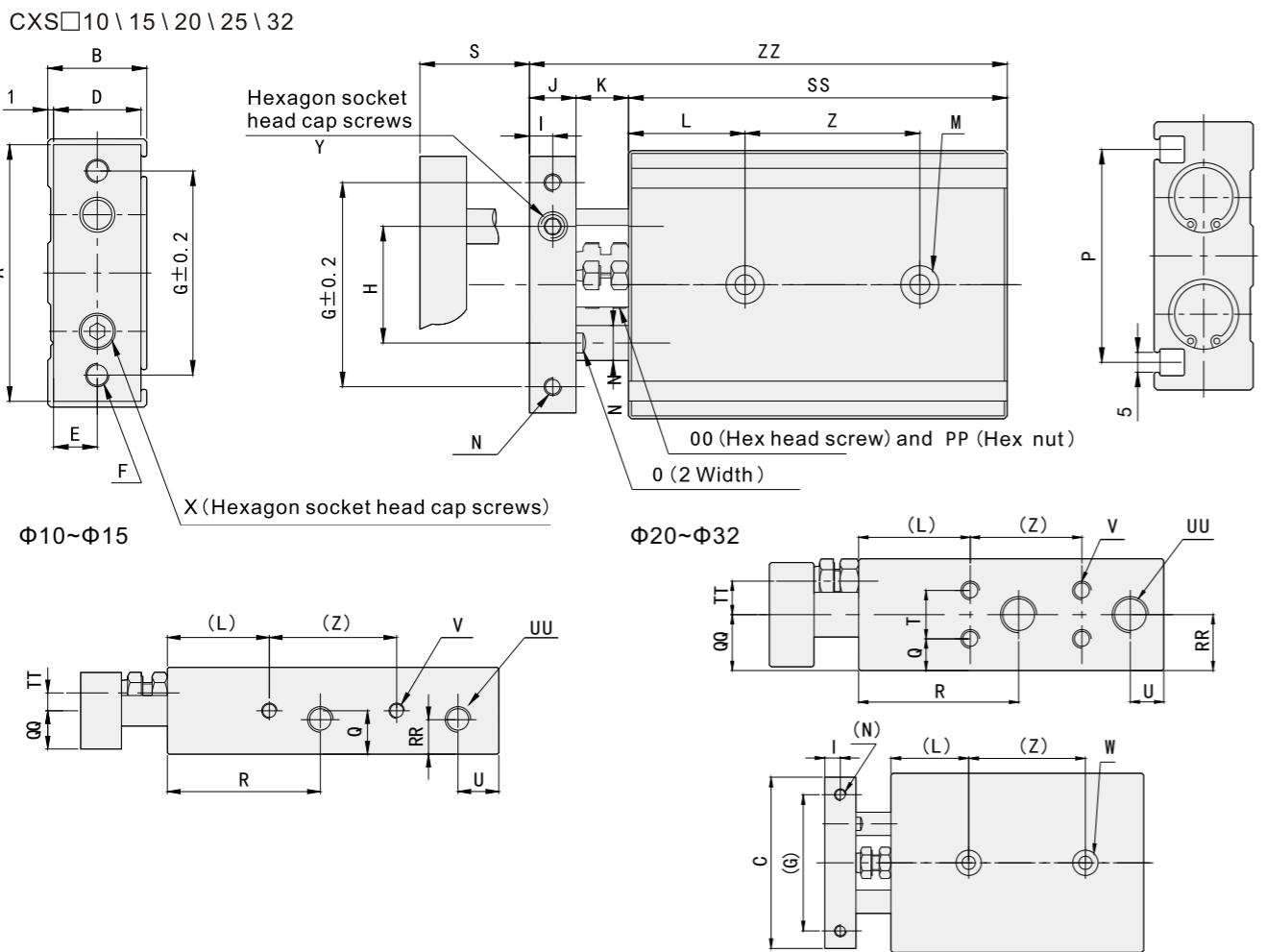
Bore (mm)	6	10	15	20	25	32
Working medium	Clean air (40μm filtration)					
Acting type	Double acting					
Working pressure range	0.1 to 1.0MPa					
Max. working pressure	1.5MPa					
Working temperature	-10 to 70°C					
Speed range	30 to 800mm/s					
Adjustable stroke	0 to -5mm					
Cushion type	Rubber cushion					
No rotating accuracy	±0.2°	±0.15°	±0.1°			
Port size	M5X0.8					
	G1/8					

Main Dimensions



CXS Series Double-shaft Cylinder

Main Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	OO	P	PP	Q	QQ	R	RR	S	SS	T	TT	U	UU	V	W	X	Y	Z	ZZ		
CXS□10-10						2-M4							2-Φ3.4	2-M3		M4	x 0.7	33.6	M4	x 0.7	8.5	7	30	7	10	65	4-M5×0.8	4-M3x 0.5	2-M4	M3	x 0.5	30	82				
CXS□10-20	46	17	44	15	7.5	x0.7	35	20	4	8	9	20	Through hole	x0.5	Φ6	5	x 14.5								20	75	Thread depth 4.5	Thread depth 4.5	M3	x 0.5	102	92					
CXS□10-30													2-Φ6.5	Counterbore 3.3											30	85											
CXS□10-40																									40	95											
CXS□10-50																									50	105											
CXS□15-10																									10	70											
CXS□15-20																									20	80											
CXS□15-30	58	20	56	18	9	2-M5	x0.8	45	25	5	10	9	30	Through hole	2-M4	Φ8	6	M4 x 0.7	48	M4 x 0.7	10	10	38.5	10	5	8	4-M5×0.8	4-M4x 0.7	2-M5 x0.8	M5	x 0.8	25	89				
CXS□15-40																									30	90											
CXS□15-50																									40	100											
CXS□15-100																									50	110											
CXS□20-10																									10	80											
CXS□20-20																									20	90											
CXS□20-30																									30	100											
CXS□20-40	64	25	62	23	11.5	2-M5	x0.8	50	28	6	12	12	30	Through hole	2-M4	Φ10	8	M6 x 1.0	53	M6 x 1.0	7.7	12.5	45	7.75	40	110	9.5	6.5	8	4-M5×0.8	8-M4x 0.7	2-M6 x1.0	M6	x 0.8	30	104	
CXS□20-50																									50	120											
CXS□20-75																									75	145											
CXS□20-100																									100	170											
CXS□25-10																									10	82											
CXS□25-20																									20	92											
CXS□25-30																									30	102											
CXS□25-40	80	30	78	28	14	2-M6	x1.0	60	35	6	12	12	30	Through hole	2-M5	Φ12	10	M6 x 1.0	64	M6 x 1.0	8.5	15	46	15	10	9	4-1/8 Thread depth 6.5	8-M5 x0.8	2-M8 x1.25 Thread depth 7.5	M6	x 1.0	30	106				
CXS□25-50																									50	122											
CXS□25-75																									75	147											
CXS□25-100																									100	172											
CXS□32-10																									10	92											
CXS□32-20																									20	102											
CXS□32-30																									30	112											
CXS□32-40	98	38	96	36	18	2-M6	x1.0	75	44	8	16	14	30	Through hole	2-M5	Φ16	13	M8 x 1.25	76	M8 x 1.25	9	19	56	19	40	122	20	11.5	10	4-1/8 Thread depth 6.5	8-M5 x0.8	2-M8 x1.25 Thread depth 7.5	M8	x 1.25	40	122	
CXS□32-50																									50	132											
CXS□32-75																									75	157											
CXS□32-100																									100	182											

STM Series Slide Cylinder

Ordering Code STM Series Slide Cylinder

STM 20 X 50

Fixed type B: Body fixed type
S: Slide block fixed type Bore Stroke



Performance

- * Two type of fixed type&slide block fixed type;
- * Double shaft provide good anti-bend performance and guarantee long life cycle and correct direction;
- * Using the high temperature sealing material,guarantee a good condition under 150°C;
- * Magnet is permanently mounted,which can trigger the magnetic switch to judge the movement position.

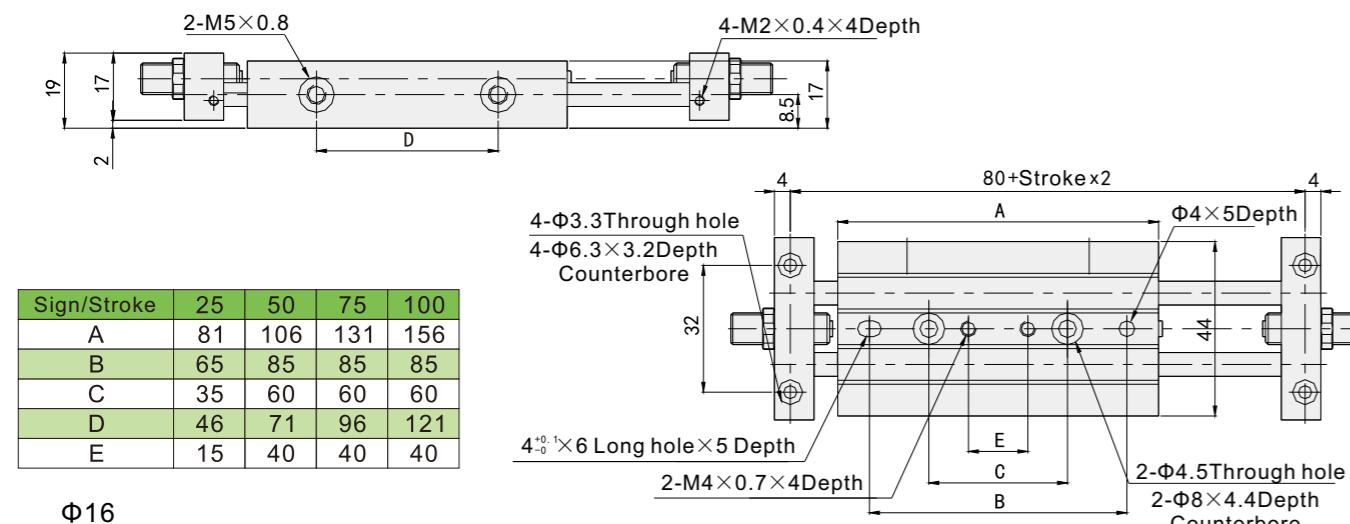
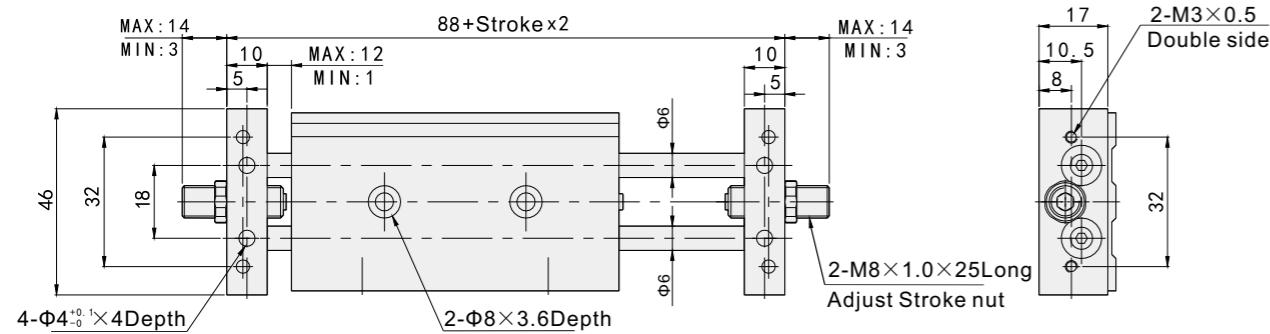
Specifications

Bore (mm)	10	16	20	25
Working medium	Clean air (40μm filtration)			
Acting type	Double acting			

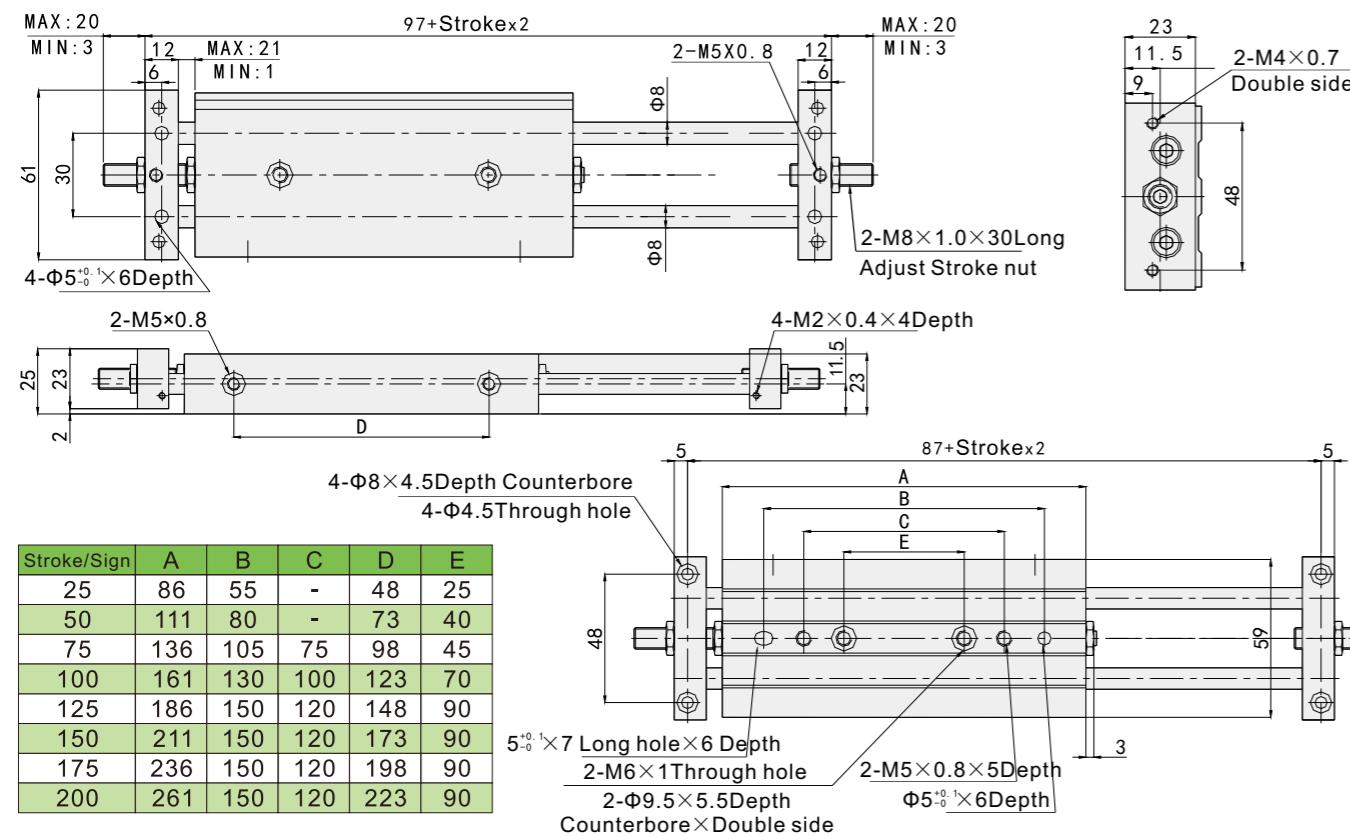
STM Series Slide Cylinder

Main Dimensions

$\Phi 10$



$\Phi 16$

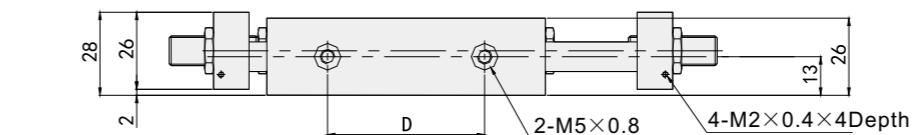
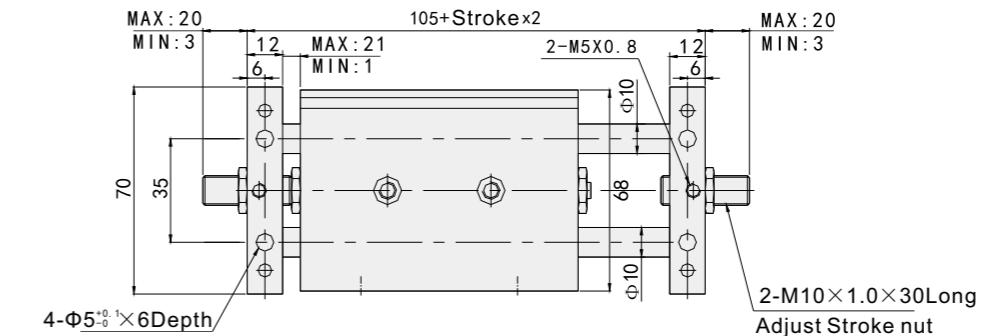


Stroke/Sign	A	B	C	D	E
25	86	55	-	48	25
50	111	80	-	73	40
75	136	105	75	98	45
100	161	130	100	123	70
125	186	150	120	148	90
150	211	150	120	173	90
175	236	150	120	198	90
200	261	150	120	223	90

STM Series Slide Cylinder

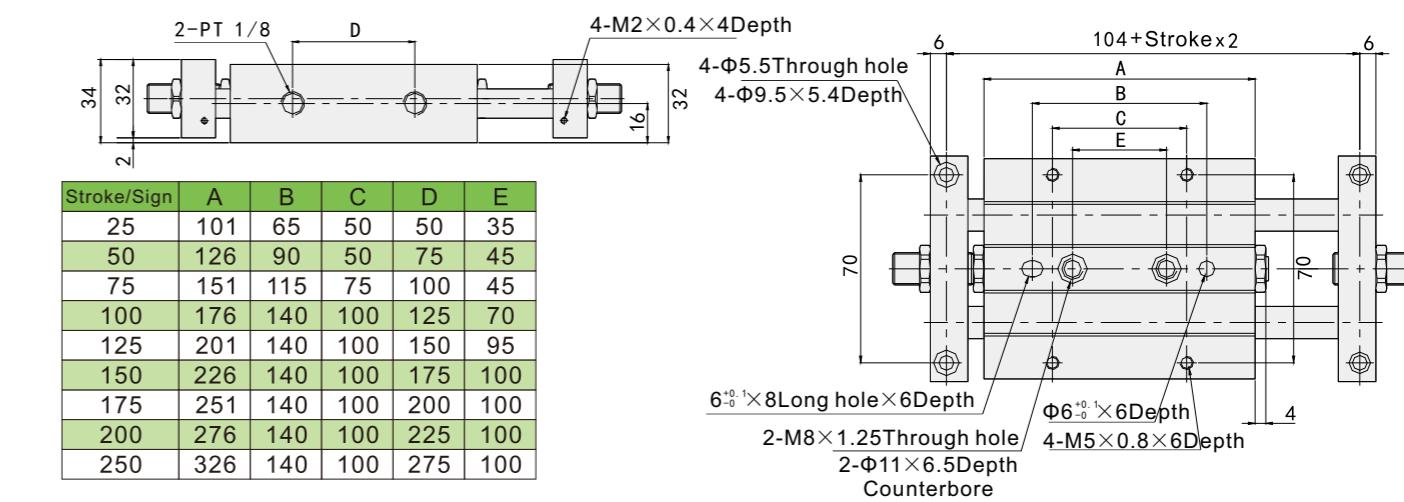
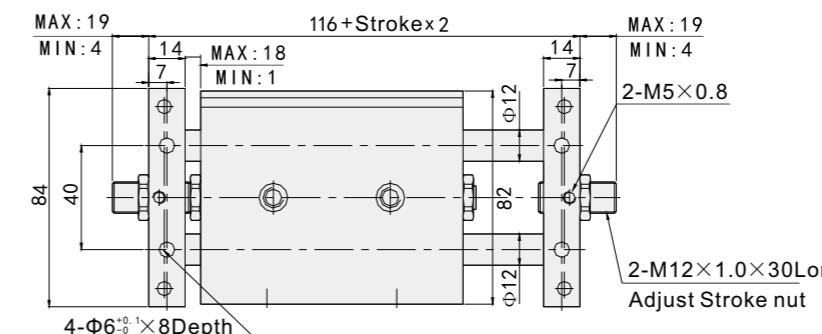
Main Dimensions

$\Phi 20$



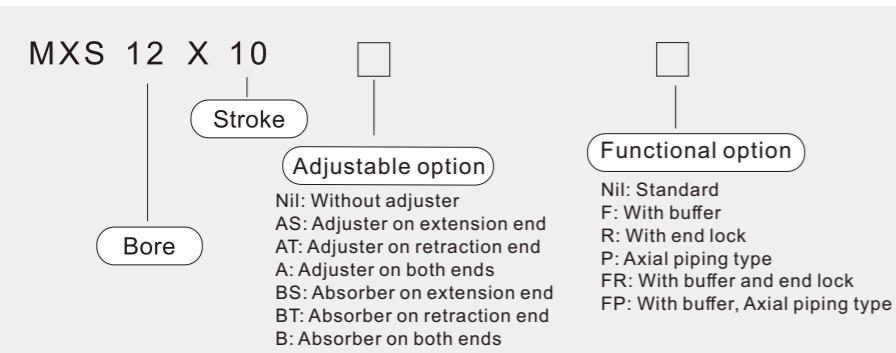
Stroke/Sign	A	B	C	D	E
25	94	60	50	53	35
50	119	85	50	78	45
75	144	110	75	103	45
100	169	135	100	128	70
125	194	150	120	153	90
150	219	150	120	178	90
175	244	150	120	203	90
200	269	150	120	228	90
250	319	150	120	278	90

$\Phi 25$



MXS Series Slide Cylinder

Ordering Code MXS Series Slide Cylinder

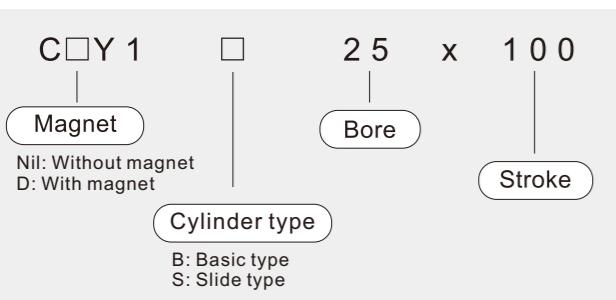


Specifications

Model	MXS 6	MXS 8	MXS 12	MXS 16	MXS 20	MXS 25
Bore (mm)	Φ6×2 (equal to Φ8)	Φ8×2 (equal to Φ11)	Φ12×2 (equal to Φ17)	Φ16×2 (equal to Φ22)	Φ20×2 (equal to Φ28)	Φ25×2 (equal to Φ35)
Working medium	Clean air (40μm filtration)					
Acting type	Double acting					
Max. working pressure	0.7MPa					
Min. working pressure	0.15MPa					
Working temperature	-10 to 60°C					
Speed of piston	50 to 500mm/s					
Lubrication	No					
Cushion type	Rubber cushion					
Port size	M3×0.5	M5×0.8		G1/8		

CY1 Series Rodless Cylinder

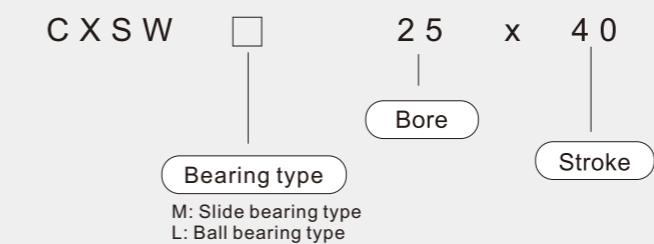
Ordering Code CY1 Series Rodless Cylinder



Bore (mm)	6	10	15	25	32	40	50	63
Pressure range	0.18 to 0.71MPa							
Guaranteed pressure	1.05MPa							
Speed range	50 to 400mm/s							
Cushion type	Rubber cushion							
Lubrication	No							
Port size	M5X0.8	G1/8		G1/4				

CXSW Series Double-shaft Cylinder

Ordering Code CXSW Series Double-shaft Cylinder

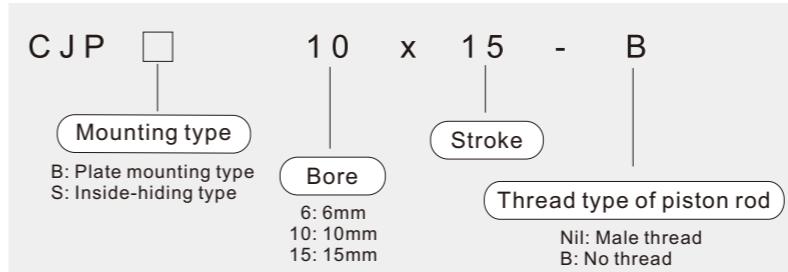


Specifications

Bore (mm)	6	10	15	20	25	32				
Working medium	Clean air (40μm filtration)									
Acting type	Double acting									
Max. working pressure	0.7MPa									
Min. working pressure	0.15MPa		0.1MPa							
Cushion type	Rubber cushion									
Working temperature	-5 to 60°C									
Speed of piston	50 to 500mm/s									
Stroke adjustable range	0 to 10mm/s									
Port size	M5×0.8	G1/8								

CJP Series Needle Cylinder

Ordering Code CJP Series Needle Cylinder

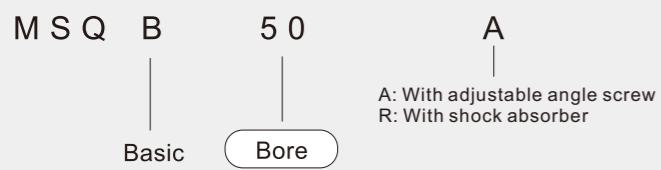


Specifications

Bore (mm)	6	10	15
Working medium	Clean air (40μm filtration)		
Acting type	Single acting spring return		
Pressure range	0.2 to 0.7MPa	0.15 to 0.7MPa	
Max. pressure	1.05MPa		

MSQ Series Rotary Table, Rack&Pinion Cylinder

Ordering Code MSQ Series Rotary Table, Rack&Pinion Cylinder

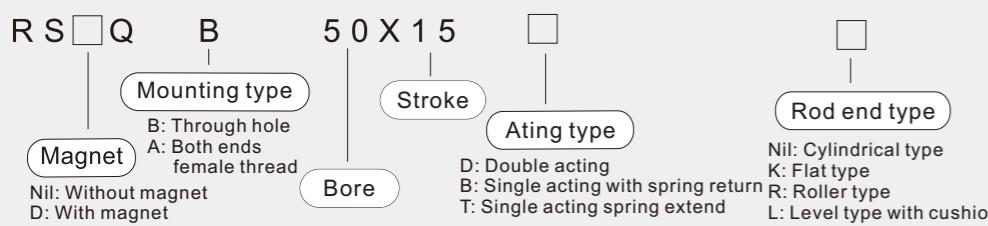


Specifications

Bore (mm)	10	20	30	50	70	100	200
Working medium	Clean air (40μm filtration)						
Working pressure range	With adjustable angle screw: 0.1 to 1.0MPa, With shock absorber: 0.1 to 0.6MPa						
Cushion type	Cushion rubber cushion(Standard)/Shock absorber(Optional)						
Allowed power	With adjustable angle screw	0.007J	0.025J	0.048J	0.081J	0.24J	0.32J
	With shock absorber	0.039J	0.116J	0.294J	1.1J	1.6J	2.9J
Angle adjustable range	0 to 190°						
Steady swing time range	A	0.2 to 1.0s/90°	0.2 to 1.5s/90°	0.2 to 2.0s/90°	0.2 to 2.5s/90°		
	R	0.2 to 0.7s/90°		0.2 to 1.0s/90°			
Piston diameter	Φ15	Φ18	Φ21	Φ25	Φ28	Φ32	Φ40
Port size	M5×0.8		G1/8				

RSQ Series Stopper Cylinder

Ordering Code RSQ Series Stopper Cylinder

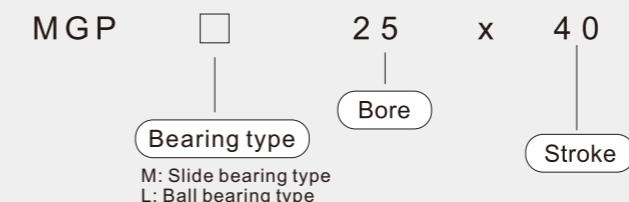


Specifications

Bore (mm)	20	32	40	50
Working medium	Clean air (40μm filtration)			
Acting type	Double acting, Single acting with spring return, Single acting spring extend			
Rod end type	Round bar, Flat bar, Roller			
Max. working pressure	1.0MPa			
Working temperature	No magnet: -10 to 70°C With magnet:-10 to 60°C			
Cushion type	Both ends rubber cushion			
Port size	G1/8			

MGP Series Three-shaft Cylinder

Ordering Code MGP Series Three-shaft Cylinder

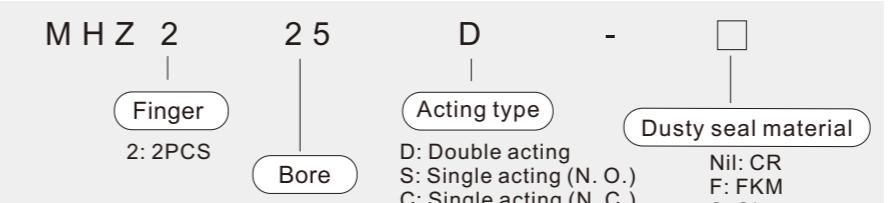


Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Working medium	Clean air (40μm filtration)									
Acting type	Double acting									
Max. working pressure	1.5MPa									
Working pressure range	0.12 to 1.0MPa									
Bearing	Slide bearing/Ball bushing bearing									
Non-rotating accuracy	Slide bearing	±0.08°	±0.07°	±0.06°	±0.05°	±0.04°				
	Ball bushing bearing	±0.10°	±0.09°	±0.08°	±0.06°	±0.05°				
Port size	M5×0.8	G1/8				G1/4	G3/8			

MHZ Series Parallel Type Air Gripper

Ordering Code MHZ Series Style Air Cylinder

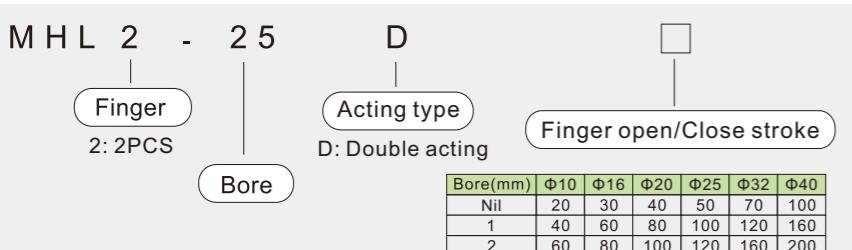


Specifications

Bore (mm)	6	10	16	20	25	32	40
Working medium	Clean air (40μm filtration)						
Working temperature	-10 to 60°C						
Working pressure range (MPa)	Double acting	0.15 to 0.7	0.2 to 0.7	0.1 to 0.7			0.1 to 0.7
	Single acting	0.3 to 0.7	0.35 to 0.7	0.25 to 0.7			0.25 to 0.7
Repeatability	±0.01						
Max. acting frequency	180c.p.m						
Lubrication	Not required						
Port size	M3×0.5	M5×0.8					

MHL Series Parallel Style Wide Opening Air Cylinder

Ordering Code MHL Series Parallel Style Wide Opening Air Cylinder

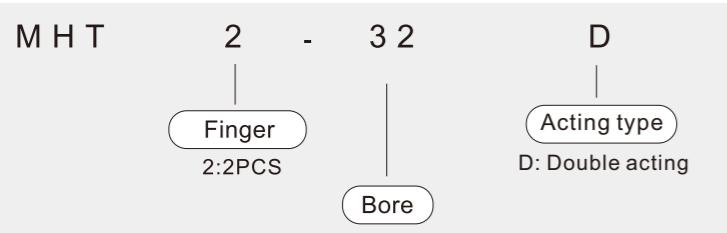


Specifications

Bore (mm)	10	16	20	25	32	40
Working medium	Clean air (40μm filtration)					
Max. working pressure	0.6MPa					
Min. working pressure	0.15MPa					
Working temperature	-10 to 60°C					
Repeatability	±0.1mm					
Effective gripping force (N. M)	14	45	74	131	228	396
Port size	M5×0.8			G1/8		

MHT Series Angle Style Air Gripper Toggle Type

Ordering Code MHT Series Angle Style Air Gripper Toggle Type



Specifications

Model	MHT2-32D	MHT2-40D	MHT2-50D	MHT2-63D
Bore (mm)	Φ32	Φ40	Φ50	Φ63
Working medium	Clean air (40μm filtration)			
Min. working pressure	0.6MPa			
Max. working pressure	0.1MPa			
Working temperature	-10 to 60°C			
Lubrication	Not required			
Finger open/Close angle	-3 to 28°	-3 to 27°	-2 to 23°	-2 to 23°
Effective gripping force (N. M)	12. 4	36. 0	63. 0	106

Special Cylinder

Special Cylinder

VPC have their new product development team, responsible for product design and development. For the R&D department set up a high level of structural engineer team. Each product as per the drawings to after repeated demonstration structural engineers, product managers, and customer's final confirmation. Before the product put into the market, we have a variety of performance testing, life testing, for this VPC has import a lot of test equipment, in order to confirm the product has a variety of reliable performance.

As long as you tell us your detail requirements. VPC promise purchase to customized products for you within 50 days.



VQAL32×50-50



VPC50×100-GB



VPC80×500-63×450



TN/CXS Series
Multy Force
Pneumatic Cylinder
Φ20~Φ32



MA Series
Full Stainless Steel
Pneumatic Cylinder
Φ20~Φ50



SC Series
Full Stainless Steel
Pneumatic Cylinder
Φ32~Φ63

Cylinder Assembly Kits

Full Set Kits



DNC(ISO6431&VDMA24562)
Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125$



MI(ISO6432)
Bore Side: $\Phi 8, \Phi 10, \Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32$



MAL
Bore Side: $\Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40$



SI(ISO6431)
Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125, \Phi 160, \Phi 200$



SC(ISO6431)
Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125, \Phi 160, \Phi 200$



MA
Bore Side: $\Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40$

Tube&Rod



SDA Aluminum Tube
Bore Side: $\Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125$



SC Aluminum Tube
Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125, \Phi 160, \Phi 200, \Phi 250$



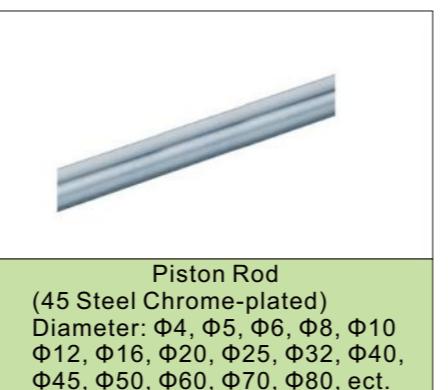
SI Aluminum Tube
Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125, \Phi 160, \Phi 200, \Phi 250$



MA/MI Tube(ISO6432)
Stainless Steel Tube
Bore Side: $\Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40$



MAL Aluminum Tube
(45 Steel Chrome-plated)
Diameter: $\Phi 4, \Phi 5, \Phi 6, \Phi 8, \Phi 10, \Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40, \Phi 45, \Phi 50, \Phi 60, \Phi 70, \Phi 80$, ect.



Piston Rod
(45 Steel Chrome-plated)
Diameter: $\Phi 4, \Phi 5, \Phi 6, \Phi 8, \Phi 10, \Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40, \Phi 45, \Phi 50, \Phi 60, \Phi 70, \Phi 80$, ect.

Magnet Switches

Main Dimensions

Cylinder	Magnet Switches	Mounting	Clamp
			 PAM - 63 Item Code Bore Size
			 PI - 63 Item Code Bore Size
			 BK Band
			No Need Clamp