



Distributor :



Energy Power Save CO. , LTD

Address: No. 442/2 Chan Road,
Thung-Watdon, Sathon, Bangkok Thailand 10120
Tel : +66-02-114 7145-9 Auto. 5Line
Fax: +66-02-673 1263
E-mail: info@7-mars.com.
<http://www.7-mars.com>
<http://www.siamenergysaving.com>

2017-1





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.

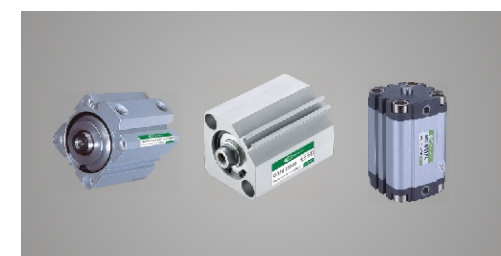
VPC company, which was founded in 1985, as a leading manufacturer, is dedicated to serve the automation and labor saving requirements with our pneumatic product range.

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 distributors in 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.

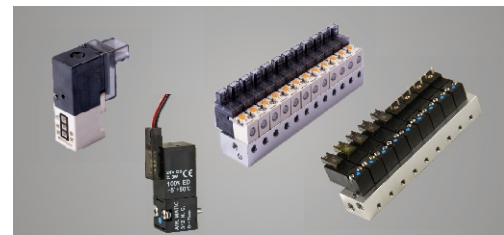
Sincere Service
Good Quality

Pneumatic Cylinder



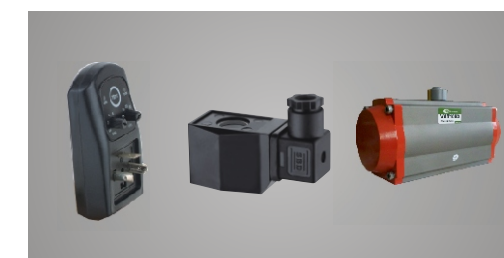
Technical Data 1.....	002
DNC Series ISO6431 Standard Cylinder.....	003
SI Series ISO6431 Standard Cylinder.....	005
DNC/SI 6431 Standard Cylinder Brackets.....	007
SC/SU Series Standard Cylinder.....	010
SC/SU Series Standard Cylinder Brackets.....	012
MB Series Standard Cylinder.....	014
Technical Data 2.....	015
MAL Series MINI Cylinder.....	016
MA Series MINI Cylinder.....	020
MAL/MA Series MINI Cylinder Brackets.....	022
MI Series MINI Cylinder.....	024
CJ2B Series MINI Cylinder.....	026
CM2B Series MINI Cylinder.....	026
Technical Data 3.....	027
SDA Series compact cylinder.....	028
CQ2 Series compact cylinder.....	035
ADVU Series compact cylinder.....	038
CU Series Free Installation Cylinder.....	040
TN Series Double-shaft Cylinder.....	042
CXS Series Double-shaft Cylinder.....	044
STM Series Slide Cylinder.....	046
MXS Series Slide Cylinder.....	049
CY1 Series Rodless Cylinder.....	049
CXSW Series Dou-shaft Cylinder.....	050
CJP Series Needle Cylinder.....	050
MSQ Series Rotary Table, Rack&Pinion Cylinder.....	051
RSQ Series Stopper Cylinder.....	051
MGP Series Three-shaft Cylinder.....	052
MHZ Series Style Air Cylinder.....	052
MHL Series Style Air Cylinder.....	053
MHT Series Style Air Cylinder.....	053
Special Cylinder.....	054
Cylinder Assembly Kits.....	055
Magnetic Switches.....	056

Solenoid Valve



Technical Data 3.....	058
2V1 Series Solenoid Valve.....	059
3V1 Series Solenoid Valve.....	060
3V Series Solenoid Valve.....	061
4S Series Solenoid Valve.....	064
4V Series Solenoid Valve.....	068
4R Series Solenoid Valve.....	073
V Series Manifold.....	075
VSV Series Micro Solenoid Valve (10mm)	077
VSV Series Micro Solenoid Valve Combination.....	078
VSV Series Micro Solenoid Valve (15mm)	079
VSV Series Micro Solenoid Valve Combination.....	080
SY3 Series Solenoid Valve.....	081
SY5 Series Solenoid Valve.....	083
SY Series Manifold.....	084
VF Series Solenoid Valve.....	085
3M Series Solenoid Valve.....	087
4M Series Solenoid Valve.....	089
3A Series Air Control Valve.....	091
4A Series Air Control Valve.....	094
L Series Hand Pull Valve.....	100
H Series Hand Push Valve.....	102
M Series Mechanical Valve.....	104
4HV Series Rotary Valve.....	106
HV Series Rotary Valve.....	107
F Series Foot Valve.....	109
ASC Series One-Way Throttle Valve.....	111
AS Series Big Flow Control Valve.....	112
KLA Series Flow Control Valve.....	113
RE Series Flow Control Valve.....	113
VS Series Shuttle Valve.....	114
HSV Series Slide Valve.....	114
VA Series One-Way Valve.....	115
VAM Series One-Way Valve.....	115
VKP Series Quick Exhausting Valve.....	116
VQE Series Quick Exhausting Valve.....	116

Directional Valve



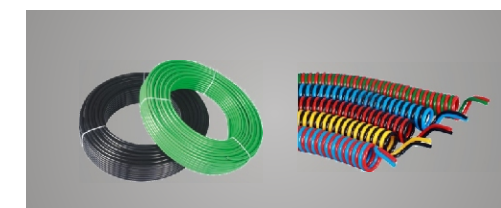
Technical Data 5 (Valve body seal material selection list)	118
Technical Data 6.....	119
Technical Data 7.....	120
SLP Series Valve (Normal Close)	121
SLP Series Valve (Normal Open)	124
ZS Series Valve (Normal Close)	126
ZS Series Valve (Normal Open)	128
VPC Series Direct Acting Solenoid Valve.....	130
VPC Series Compact Solenoid Valve.....	131
VPC Series Pilot-Diaphragm Solenoid Valve (Normal Close)	132
VPCE Series High Pressure Solenoid Valve.....	133
VPCT Series High Temperature Solenoid Valve.....	134
VPC Series Step Direct Acting Diaphragm Solenoid Valve.....	135
VPCS Series Stainless Steel Pilot-Diaphragm Solenoid Valve.....	136
PU220 Series Solenoid Valve.....	137
PU225 Series Solenoid Valve.....	138
2W Series Solenoid Valve (Small Orifice)	139
2W Series Solenoid Valve (Big Orifice)	140
2L Series Solenoid Valve.....	141
2S Series Solenoid Valve.....	142
2P Series Solenoid Valve.....	143
2V Series Solenoid Valve.....	144
2Q Series Solenoid Valve.....	145
VX Series Solenoid Valve.....	146
SLH Series High Temperature Stainless Steel Solenoid Valve.....	147
SLDF Series Special For Under-Water Solenoid Valve.....	148
VPC Series Angle Valve (Full Stainless Steel)	149
VPCP Series Angle Valve (Plastic Actuator)	151
SLC Series Water Dispenser Valve.....	153
VPCF Series Electro-Magnetic Valve.....	154
VPCYF Series Electro-Magnetic Valve.....	155
GM22 Series Micro Solenoid Valve.....	156
Q22/Q23 Series Micro Solenoid Valve.....	156
PUV4 Plastic Joint Solenoid Valve.....	156
Timer.....	156
Armature.....	157
Connector.....	157
Coil.....	157
Special Solenoid Valve.....	158
VAT Series Pneumatic Actuators.....	159

Air Treatment Units (FRL)



OU Series FR. L Combination.....	163
OFR Series FR Combination.....	165
OF Series Filter.....	167
OL Series Lubricator.....	169
OR Series Regulator.....	171
ORB Series Pressure Regulator Combinations.....	173
O Series Accessories.....	174
O Series Brackets.....	174
AC Series F. R. L Combination.....	175
AC Series FR. L Combination.....	177
AW Series F. R Combination.....	179
AF Series Air Filter.....	181
AL Series Lubricator.....	183
AR Series Air Regulator.....	185
A Series F. R. L Accessories.....	187
A Series F. R. L Brackets.....	188
V Series F. R. L With Embedded Air Gauge.....	189
A/B Series Air Treatment Unit.....	190

Pneumatic Accessories



One Touch-In Fitting.....	192
One Touch-In Fitting With O-Ring.....	198
Speed Control Valve.....	199
Hand Valve.....	200
MINI Type One Touch-In Fitting.....	201
Stop Fitting.....	202
Check Valve.....	202
KQ Series One Touch-In Fitting.....	203
Metal One Touch-In Fitting.....	206
Stainless Steel Fitting.....	207
VPC Series Pipe Fitting.....	208
Quick Coupler.....	209
Hydraulic Fitting.....	209
PU Tube (Polyester Polyurethane)	210
PUC Coiling Tube (Polyester Polyurethane)	211
PUCL Twin (Multi-row) Spiral Hose.....	212
PUS Twin (Multi-row) Hose, Bundle Hose.....	213
EU Tube (Ether-Based Polyurethane, Food Grade)	214
EUC Coiling Tube (Ether)	215
PBH Braided Tube (Ester)	216
PUH Anti-Spark Hose.....	217
PA Nylon Tube.....	218
PAC Coiling Tube.....	219
PE Tube.....	220
FEP Tube.....	221
Sectional Tube.....	222
Muffler.....	223
Pressure Gauge.....	224
Pressure Switch.....	225

Measure Conversion Table

Linear Measure

1 in	=25. 4	mm
1 ft	=0. 3048	m
1 mile	=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 Kg/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
1Kilopond (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

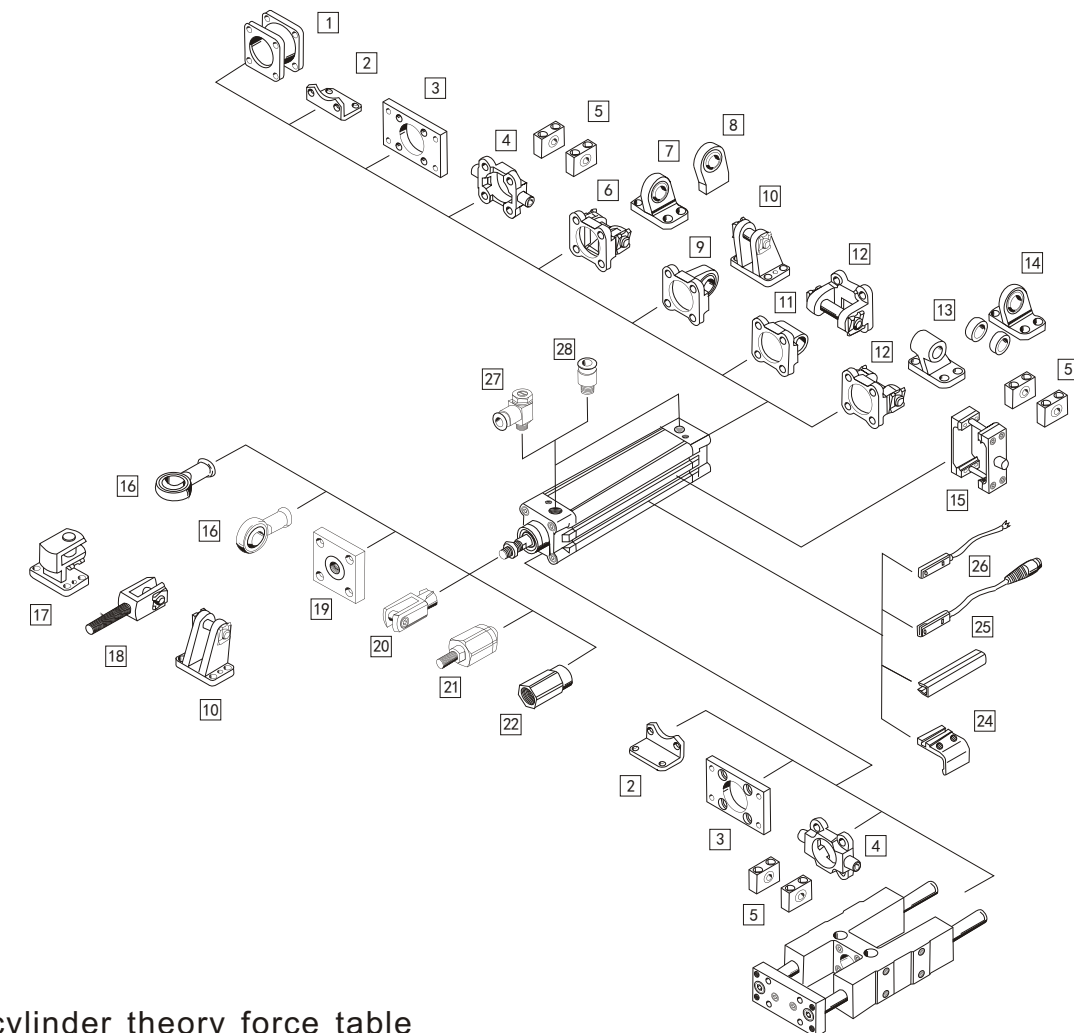
1. The most suitable temperature for the use of the cylinder is 5-60°C, when the temperature exceeds 60°C, please consider to change the material of the seal ;if the temperature is below 5°C, due to the freezing of water in the loop, there may become an accident, please consider to prevent freezing.
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 nueven, may cause the cylinder is bamaged.
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

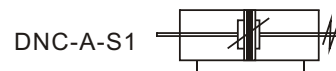
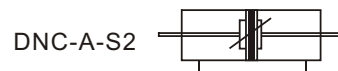
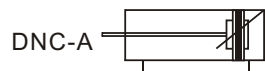
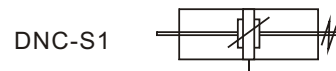
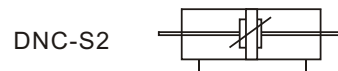
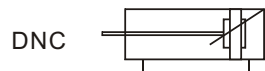
Cylinder Peripheral Component



Air cylinder theory force table

Bore (mm)	OD of rod (mm)	Acting type	Actual working area(mm²)	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
			Pull force	690	69.0	138.0	207.0	276.0	345.0	414.0	483.0	552.0
40	16	Double acting	Push force	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2	1002.4
			Pull force	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5	844.0
50	20	Double acting	Push force	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1	1570.4
			Pull force	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3	1399.2
63	20	Double acting	Push force	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2	2181.9	2493.6
			Pull force	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1	2242.4
80	25	Double acting	Push force	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2	4020.8
			Pull force	4536	453.6	907.2	1360.8	1814.4	2268.0	2721.6	3175.2	3628.8
100	25	Double acting	Push force	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	5497.1	6282.4
			Pull force	7362	736.2	1472.4	2208.6	2944.8	3681.0	4417.2	5153.4	5889.6
125	32	Double acting	Push force	12272	1227.2	2454.4	3681.6	4908.8	6136.0	7363.2	8590.4	9817.6
			Pull force	11468	1146.8	2293.6	3440.4	4587.2	5734.0	6880.8	8027.6	9174.4
160	40	Double acting	Push force	20106	2010.6	4021.2	6031.8	8042.4	10053.0	12063.6	14074.2	16084.8
			Pull force	18849	1884.9	3769.8	5654.7	7539.6	9424.5	11309.4	13194.3	15079.2
200	40	Double acting	Push force	31416	3141.6	6283.2	9424.8	12566.4	15708.0	18849.6	21991.2	25132.8
			Pull force	30157	3015.7	6031.4	9047.1	12062.8	15078.5	18094.2	21109.9	24125.6

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			10: 10mm				Blank: No Cushion		Blank: Without Magnet		Blank: Standard Cylinder
FNC: Front Rear Plate Mounting			20: 20mm				PPV: With Cushion		A: With Magnet		S1: Double-shaft, adjustable stroke type
ZNCF: Centre Trunnion Mounting			30: 30mm								S2: Double-shaft type
SNCB: Single Trunnion Mounting			40: 40mm								
SNCL: Double Trunnion Mounting			50: 50mm								
			75: 75mm								
			100: 100mm								

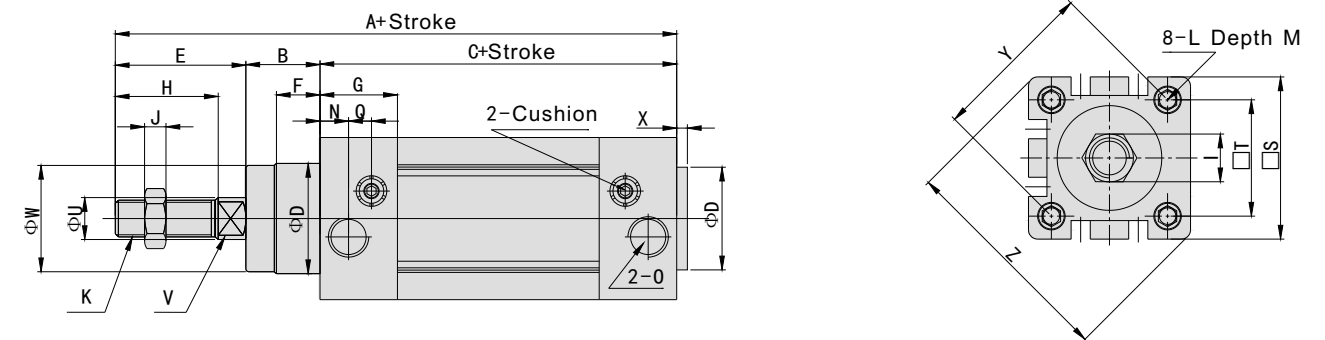
Specifications

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

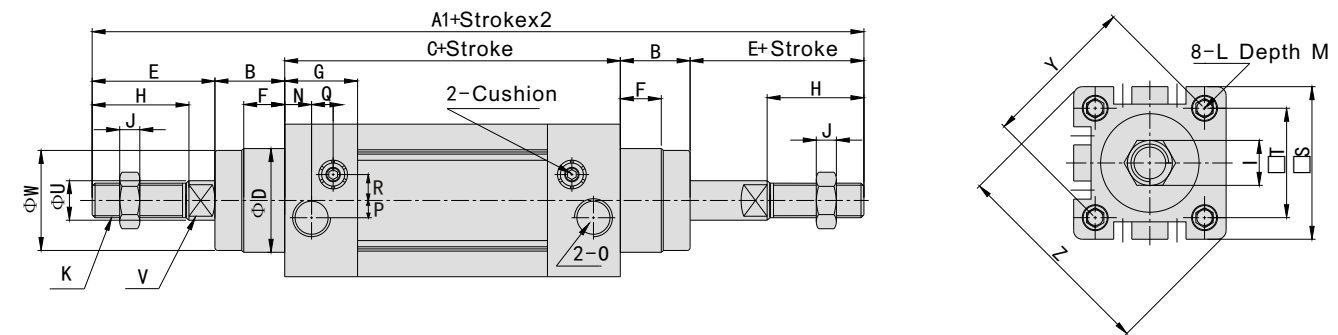
DNC Series ISO6431 Standard Cylinder

Main Dimensions

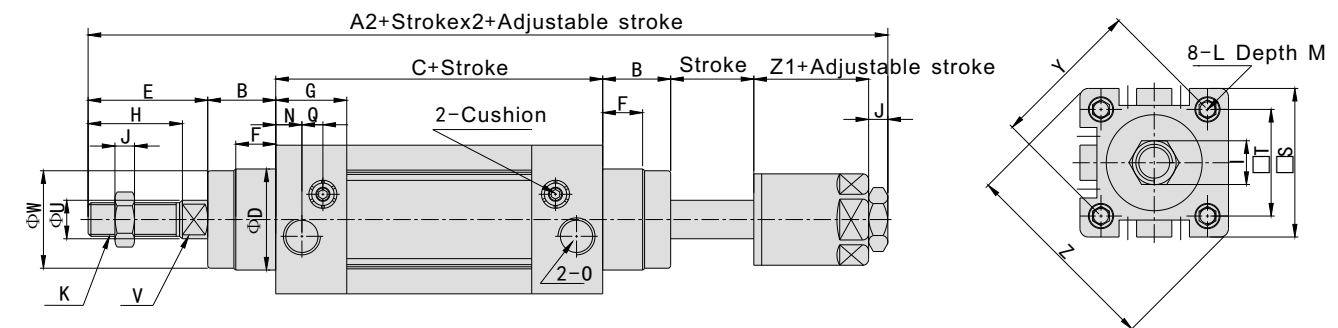
DNC Basic type



DNC-S2 Double shaft type



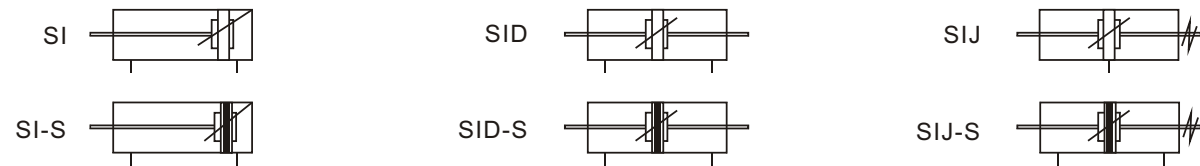
DNC-S1 Double shaft adjustable stroke type



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	-

SI Series ISO6431 Standard Cylinder



Ordering Code SI Series ISO6431 Standard Cylinder

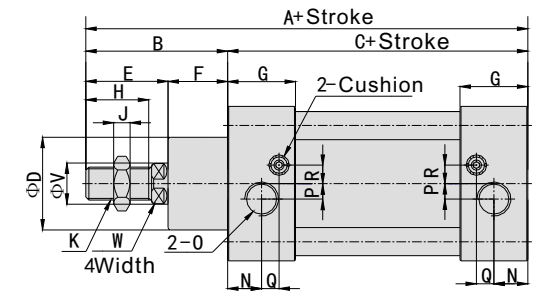
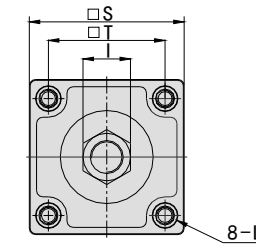
SI	50	X	50	-	S	-	20	-	LB
Series Code	Bore		Stroke		Magnet		Adjustable Stroke		Mounting type
SI: Standard cylinder					Blank: Without Magnet S: With Magnet		10: 10mm 20: 20mm 30: 30mm 40: 40mm 50: 50mm 75: 75mm 100: 100mm		Blank: Standard Cylinder LB: Leg mounting FA: Front rear plate mounting FB: Front 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		Double acting								
Working medium		Clean air(40μm Filtration)								
Mounting type	SI Series	Basic type FA FB CA CB LB TC TC-M1 TC-M2								
	SID Series	Basic type FA LB TC TC-M1 TC-M2								
	SIJ Series	Basic type FA LB TC TC-M1 TC-M2								
Working pressure range		0.1~1.0Mpa								
Guaranteed pressure		1.5Mpa								
Working temperature		5~70℃								
Speed range		SI Series: 50~800mm/s Other-Series: 30-800mm/s								
Cushion type		Adjustable cushion								
Cushion stroke		27mm		30mm		36mm		40mm	50mm	
Port size		G1/8	G1/4		G3/8		G1/2		G3/4	

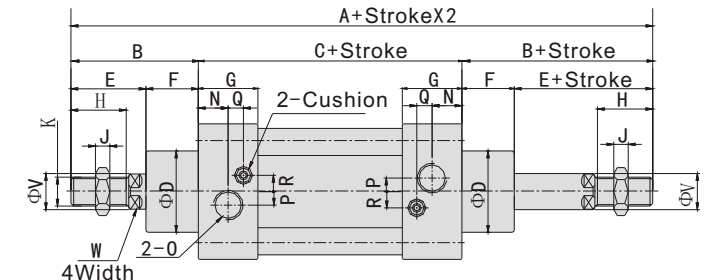
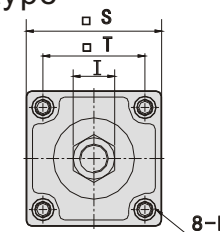
Main Dimensions

Basic type



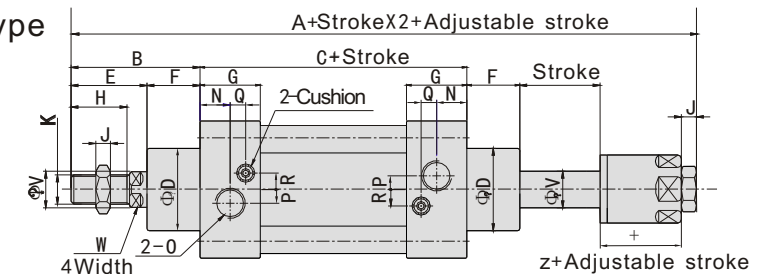
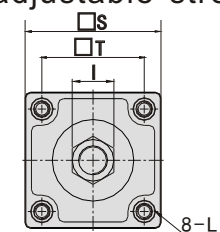
Bore	Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32		142	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40		159	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50		175	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63		190	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80		214	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100		229	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125		279	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160		332	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36
200		347	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

Double shaft type



Bore	Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32		190	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40		213	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50		244	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63		259	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80		300	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100		320	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125		398	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160		484	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36
200		514	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

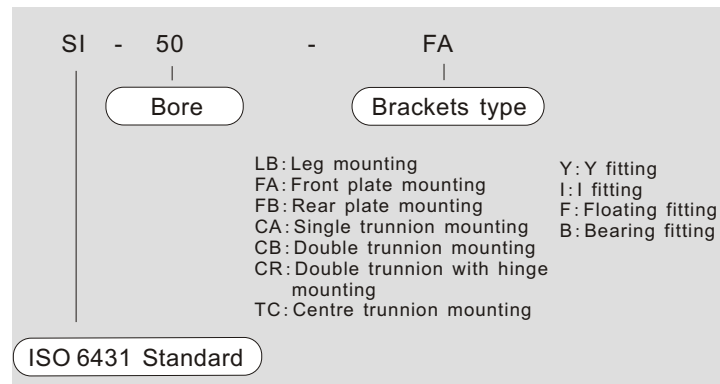
Double shaft adjustable stroke type



Bore	Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	Z
32		187	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	6.5	47	32.5	12	10	21
40		207	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13	21
50		233	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	7.5	65	46.5	20	17	23
63		250	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17	23
80		286	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22	29
100		308	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22	29
125		373	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27	35
160		448	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	180	140	40	36	40
200		472	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36	40

DNC/SI ISO6431 Standard Cylinder Brackets

Ordering Code



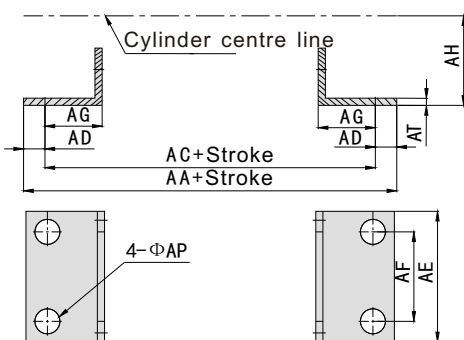
Note: ISO standard accessories, only suitable for DNC, SI etc ISO6431 series standard cylinder.

Accessories

Brackets	Cylinder	SI	SID	SIJ
Mounting Type	LB	●	●	●
	FA	●	●	●
	FB	●	X	X
	CA	●	X	X
	CB	●	X	X
	CR	●	X	X
	TC	●	●	●
	TC-M1	●	●	●
	TC-M2	●	●	●
Rod end fitting type	I	●	●	●
	Y	●	●	●
	F	●	●	●
	B	●	●	●

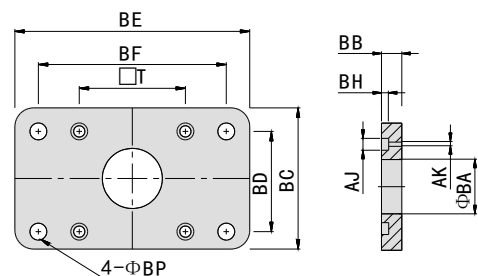
Main Dimensions

LB



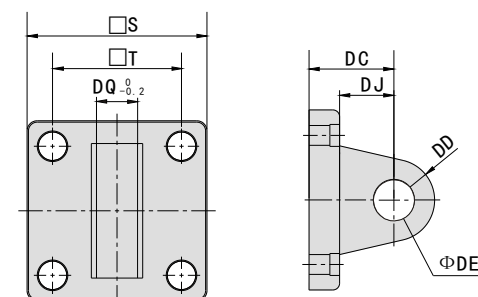
Sign	Bore	32	40	50	63	80	100	125	160	200
AA		158	179	190	209	248	258	290	340	380
AC		142	161	170	185	210	220	250	300	320
AD		8	9	10	12	19	19	20	20	30
AE		48	53	63	73	98	115	140	180	220
AF		32	36	45	50	63	75	90	115	135
AG		24	28	32	32	41	41	45	60	70
AH		32	36	45	50	63	71	90	115	135
AP		7	9	9	9	12	14	16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

FA/FB



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

CA

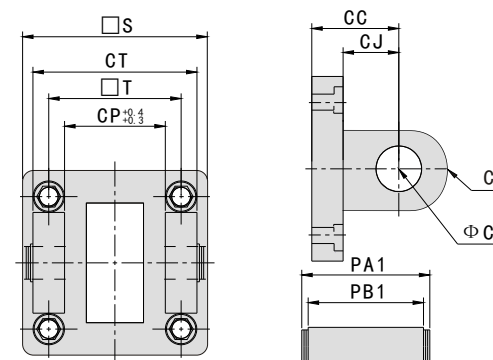


Sign	Bore	32	40	50	63	80	100	125	160	200
S		47	53	65	75	95	115	140	180	220
T		32.5	38	46.5	56.5	72	89	110	140	175
DC		22	25	27	32	36	41	50	55	60
DD		9	12	12	15	15	20	25	30	30
DE		10	12	12	16	16	20	25	30	30
DJ		13	16	17	22	22	27	33	35.5	37
DQ		25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

DNC/SI ISO6431 Standard Cylinder Brackets

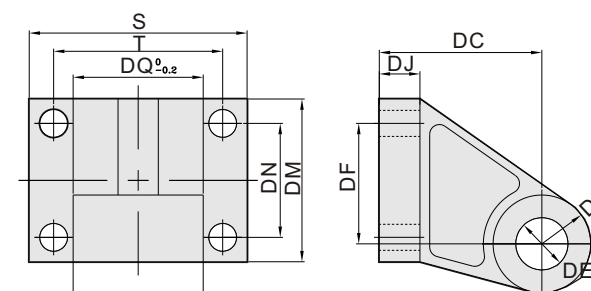
Main Dimensions

CB



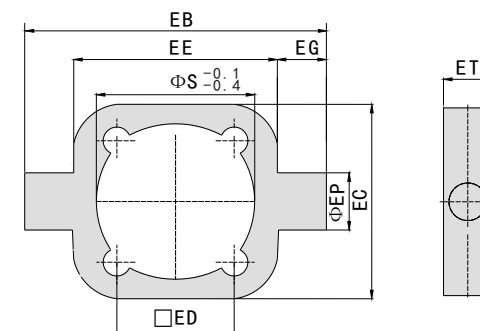
Sign	Bore	32	40	50	63	80	100	125	160	200
CC		22	25	27	32	36	41	50	55	60
CD		9	12	12	15	15	20	25	30	30
CE		10	12	12	16	16	20	25	30	30
CJ		13	16	17	22	22	27	31	35.5	36
CP		26	28	32	40	50	60	70	90	90
CT		45	52	60	70	90	110	130	170	170
PA1		51	59	67	77	97	119	139	181	181
PB1		45.5	52.5	60.5	70.5	90.5	110.5	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



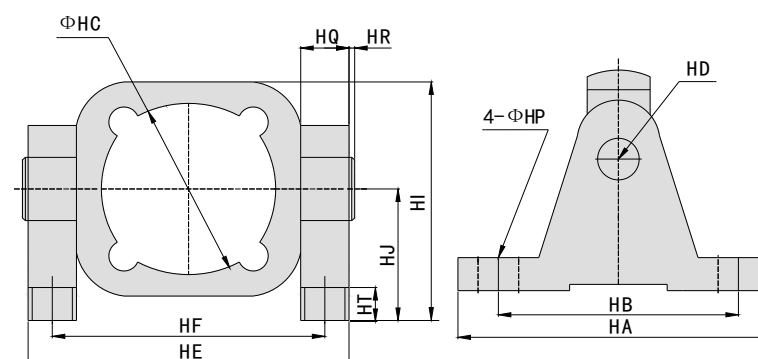
Sign	Bore	S	T	DC	DD	DE	DF	DJ	DQ	DM	DN
32		51	38	32	10	10	21	8	26	31	18
40		54	41	36	11	12	24	9	28	35	22
50		65	50	57	13	12	33	12	31.5	45	30
63		67	52	50	15	16	37	12.5	40	50	35
80		86	66	63	15	16	41.5	14	50	60	40
100		96	76.5	71.5	18.5	20	55	15	60	70	51

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	32	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	106	132	170	40

TC-M

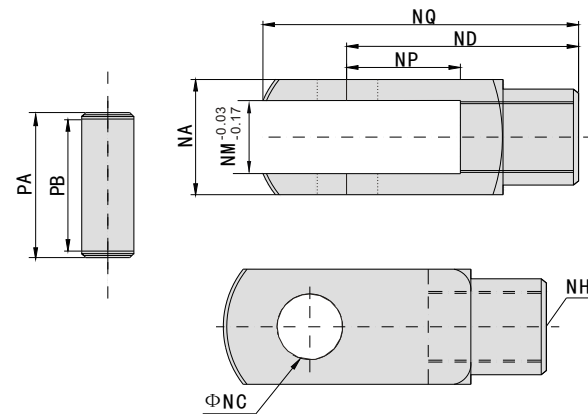


Sign	Bore	32	40	50	63	80	100
HA		110	110	110	120	120	120
HB		80	80	80	80	80	80
HC		36	45	55	58	86	106
HD		22	22	22	22	22	22
HE		96	109	121	136	156	178
HF		73	86	98	113	133	155
HI		68.5	76.5	82	86	113	130
HJ		43.5	47.5	47	46	63	67
HQ		23	23	23	23	23	23
HR		2	2	2	2	2	2
HT		12	12	12	12	14	14
HP		12	12	12	12	14	14

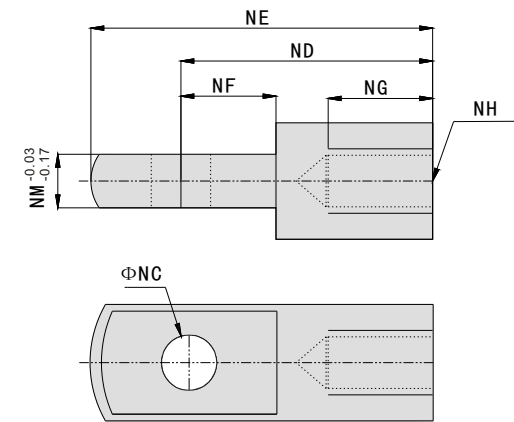
DNC/SI ISO6431 Standard Cylinder Brackets

Main Dimensions

Y Fitting

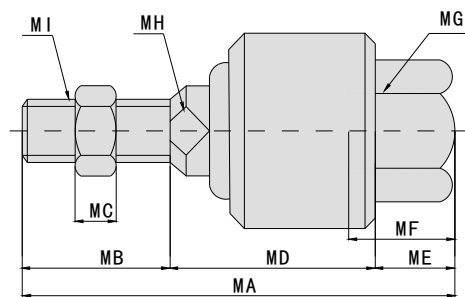


I Fitting



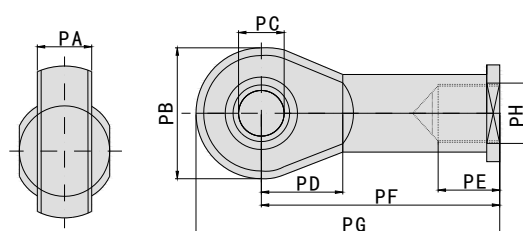
Bore	Sign	NA	NC	ND	NE	NG	NF	NH	NM	NP	NQ	PA	PB
32		19	10	40	52	20	15	M10X1.25	10	20	52	26.2	20
40		25.4	12	48	67	20	24	M12X1.25	12	24	62	32.8	26.5
50		32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
63		32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
80		44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
100		44.4	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



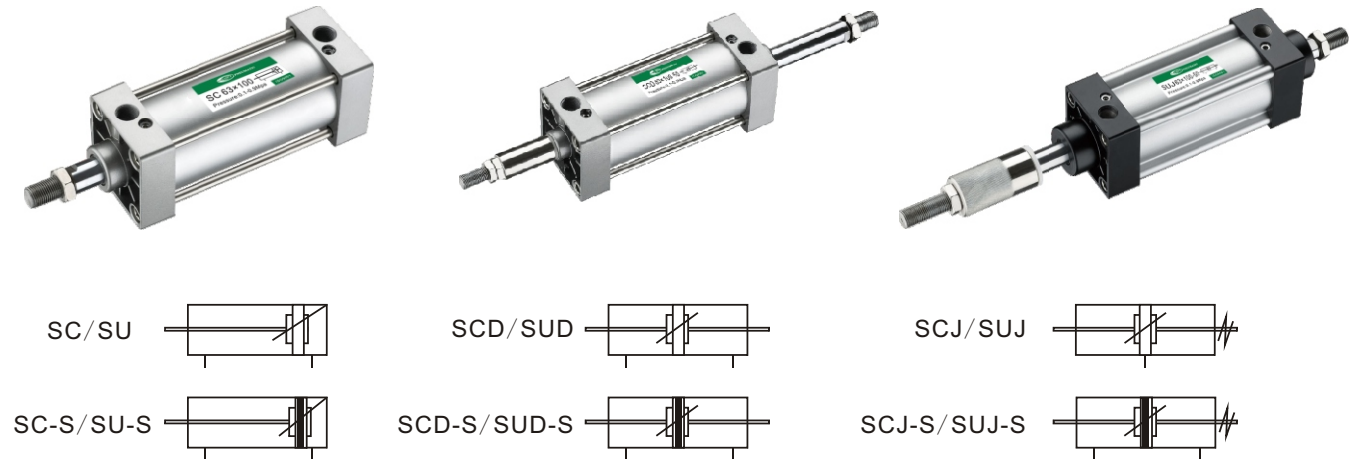
Bore	Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI
32		73	20	6	45	8	26	M10X1.25	12	M10X1.25
40		77	24	7	46	7	26	M12X1.25	12	M12X1.25
50		106	32	8	62	12	34	M16X1.5	19	M16X1.5
63		106	32	8	62	12	34	M16X1.5	19	M16X1.5
80		122	40	10	68	14	42	M20X1.5	19	M20X1.5
100		122	40	10	68	14	42	M20X1.5	19	M20X1.5
125		147	54	13.5	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



Ordering Code SC/SU Series Standard Cylinder

Series Code	Bore	Magnet	Stroke	Adjustable Stroke	Mounting type
SC	50	X	50	-	S
SCD	50	-	50	-	S
SCJ	50	-	50	-	S
SU	50	-	50	-	S
SUD	50	-	50	-	S
SUJ	50	-	50	-	S
Blank	Without Magnet				
S	With Magnet				
Adjustable Stroke					
10:10mm					
20:20mm					
30:30mm					
40:40mm					
50:50mm					
75:75mm					
100:100mm					
Blank	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				

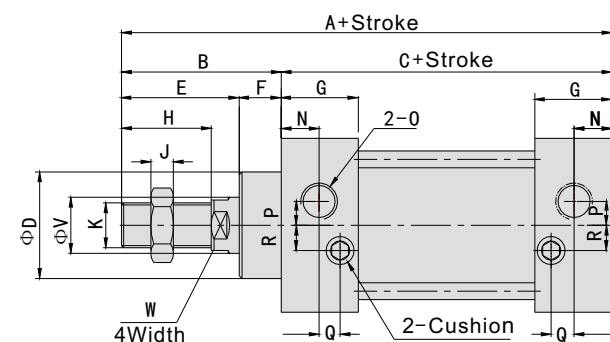
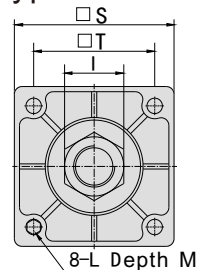
Specifications

Bore (mm)		32	40	50	63	80	100	125	160	200	
Acting type		Double acting									
Working medium		Clean air (40μm Filtration)									
Mounting type	SC\SU Series	Basic type FA FB CA CB CR LB TC TC-M									
	SCD\SUD Series	Basic type FA LB TC TC-M									
	SCJ\SUJ Series	Basic type FA LB TC TC-M									
Working pressure range		0.1~0.9Mpa									
Guaranteed pressure		1.5Mpa									
Working temperature		-5~70℃									
Speed range		50~800mm/s									
Cushion type		Adjustable cushion									
Cushion stroke		20mm				32mm				45mm	
Port size		G1/8	G1/4		G3/8		G1/2		G3/4		

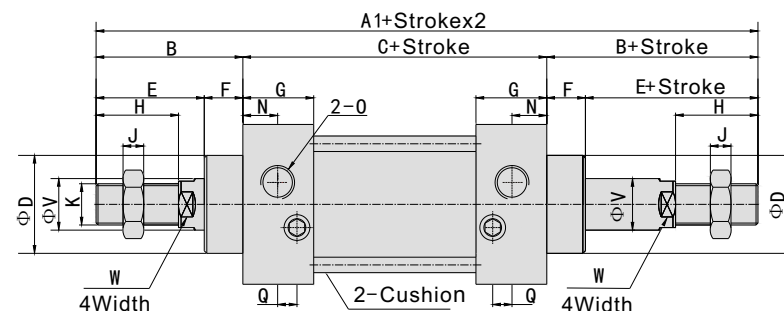
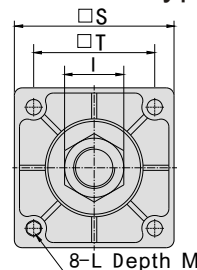
SC/SU Series Standard Cylinder

Main Dimensions

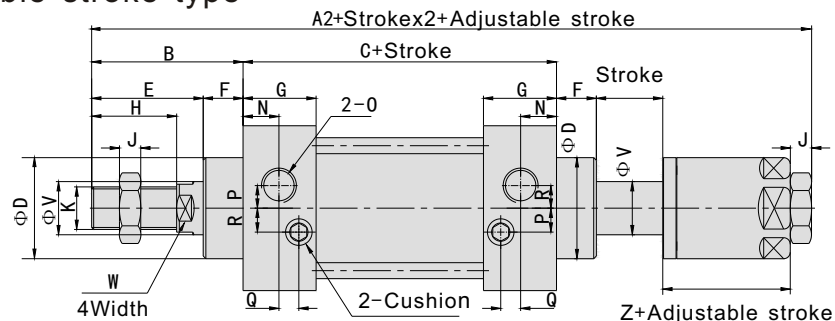
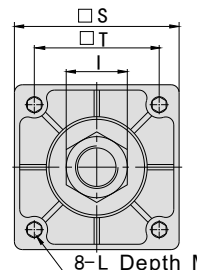
SC Basic type



SCD Double shaft type



SCJ Double shaft adjustable stroke type



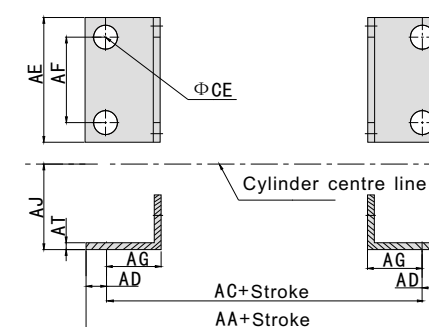
Bore	Sign	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32		140	187	182	47	93	28	32	15	27.5	22	17	6	M10X1.25
40		142	191	185	48	93	32	34	15	27.5	24	17	7	M12X1.25
50		150	207	196	57	93	38	42	15	27.5	32	23	8	M16X1.5
63		153	210	199	57	96	38	42	15	27.5	32	23	8	M16X1.5
80		183	258	243	75	108	47	54	21	33	40	26	10	M20X1.5
100		188	258	243	75	113	47	54	21	33	40	26	10	M20X1.5
125		226	/	/	104	122	55	70	34	33	54	40	10	M27X2
160		291	/	/	123	168	62	91	32	48	72	55	18	M36X2
200		347	/	/	167	180	80	112	55	48	72	55	18	M36X2

Bore	Sign	L	M	N	O	P	Q	R	S	T	V	W	Z
32		M6X1	9.5	13.5	G1/8	3.5	7.5	7	45	33	12	10	21
40		M6X1	9.5	13.5	G1/4	6	8.2	9	50	37	16	14	21
50		M6X1	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17	23
63		M8X1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17	23
80		M10X1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	22	29
100		M10X1.5	11.5	16.5	G1/2	11	9.5	14	112	84	25	22	29
125		M12X1.75	15.5	16.5	G1/2	/	/	/	140	110	32	27	/
160		M16X2	17.5	25	G1/2	/	/	/	180	140	40	36	/
200		M16X2	17.5	25	G3/4	/	/	/	220	175	40	36	/

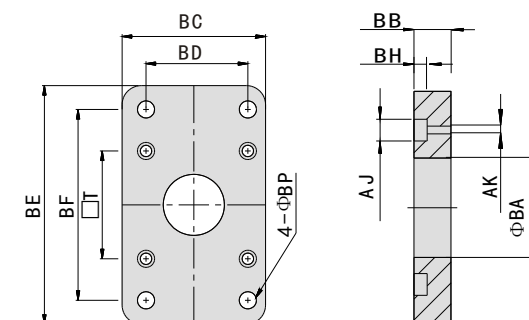
SC/SU Series Standard Cylinder Brackets

Main Dimensions

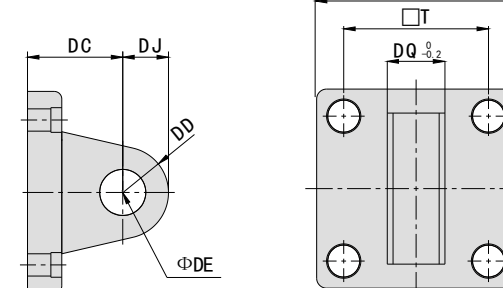
LB



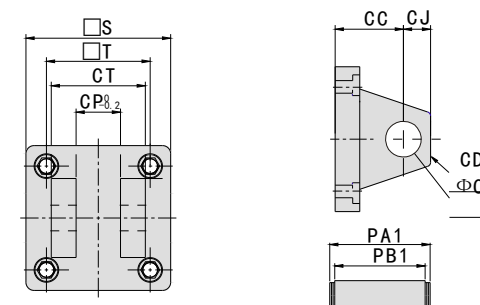
FA/FB



CA



CB



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	12	14	14	16	18	22
AT		3.2	3.2	3.2	3.2	4	4	8	8	10

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

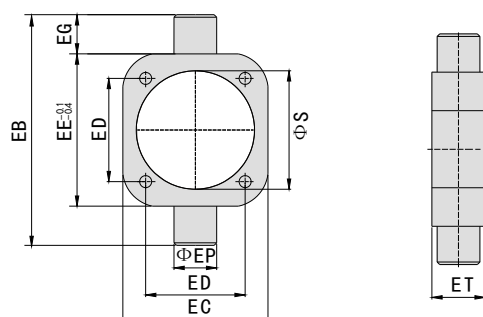
Sign	Bore	32	40	50	63	80	100	125	160	200
S		48	50	62	75	94	112	140	180	220
T		33	37	47	56	70	84	110	140	175
DC		34	34	34	34	48	48	50	55	60
DD		14	14	15	15	20	20	25	30	30
DE		12	14	14	14	20	20	25	30	30
DJ		14	14	15	15	20	20	25	30	30
DQ		16	20	20	20	32	32	70	90	90

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	25	30	30
CE		12	14	14	14	20	20	25	30	30
CJ		13	13	15	15	21	21	25	30	30
CP		16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT		32	44	52	52	64	64	120	160	160
PA1		41	51.8	60.3	60.3	73.8	73.8	130	170	170
Pb1		33.5	45.8	54	54	65.5	65.5	121.5	161.5	161.5
S		48	50	62	75	94	112	140	180	220
T		33	37	47	56	70	84	110	140	175

SC/SU Series Standard Cylinder Brackets

Main Dimensions

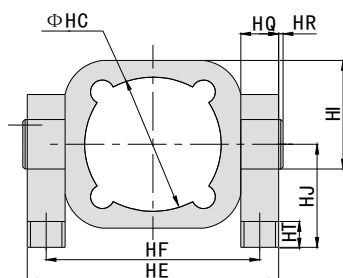
TC



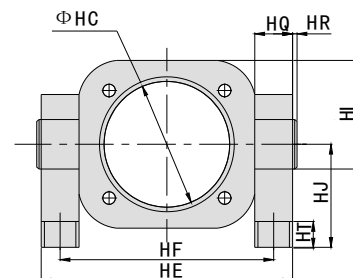
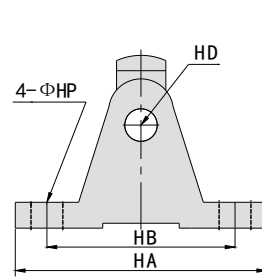
Sign	Bore	40	50	63	80	100	125	160	200
EB		113	126	138	164	182	210	264	336
EC		63	76	88	114	132	160	200	240
ED		37	47	56	70	84	110	140	175
EE		63	76	88	114	132	160	200	240
EG		30	30	30	30	30	30	32	48
EP		30	30	30	30	30	30	32	38
ET		30	30	30	30	30	30	38	44
S		45.5	55.5	68.5	87.5	107.5	134.5	172.5	212.5

TC-M

For SU Series

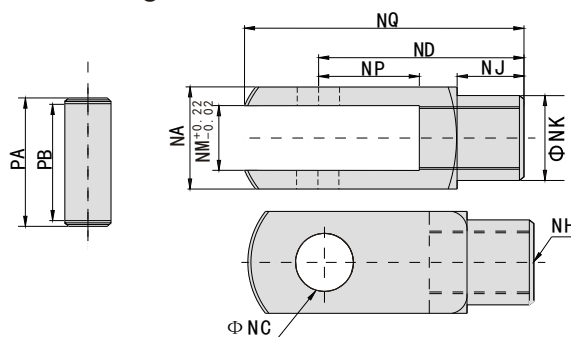


For SC Series

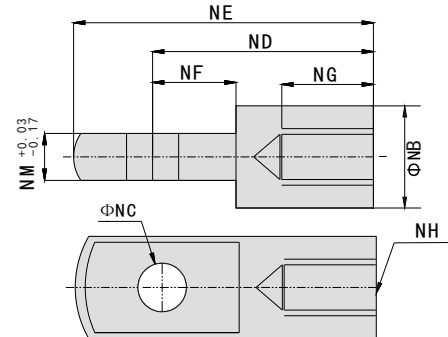


Sign	Bore	HA	HB	HC	HD	HE	HF	HI	HJ	HQ	HR	HT	HP
40		110	80	45.5	22	109	86	81.5	50	23	2	12	12
50		110	80	55.5	22	122	99	88	50	23	2	12	12
63		110	80	68.5	22	134	111	94	50	23	2	12	12
80		120	85	87.5	22	160	137	127	70	23	2	14	14
100		120	85	107.5	22	178	155	136	70	23	2	14	14

Y Fitting



I Fitting

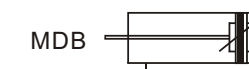
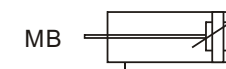


Sign	Bore	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32		19	20	10	40	52	15	20	M10X1.25	12	18	10	20	52	25	19.5
40		25.4	24	12	48	67	24	20	M12X1.25	20	23	12	24	62	32.8	26.5
50		32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33
63		32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39.3	33
80		44.4	40	20	80	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

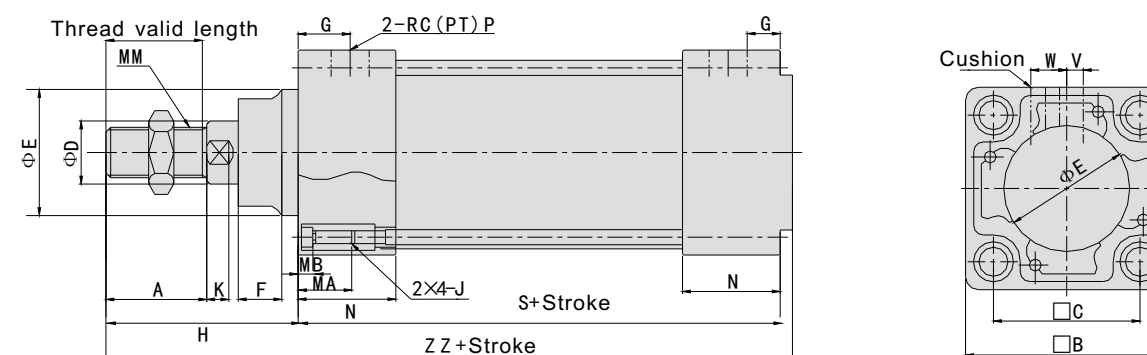
M	B	32	X	50
Mounting type B: Standard cylinder		Stroke		
Magnet Blank: Without Magnet D: With Magnet		Bore 32: Φ32mm 40: Φ40mm 50: Φ50mm 63: Φ63mm 80: Φ80mm 100: Φ100mm 125: Φ125mm		



Specifications

Bore (mm)	32	40	50	63	80	100	125
Working medium	Clean air (40μm Filtration)						
Acting type	Double acting						
Max pressure	1.0Mpa						
Min pressure	0.05Mpa						
Speed range (mm/s)	50~1000						50~700
Cushion	Cushion Both Side						
Oil	No Need						
Port size	G1/8	G1/4	G3/8	G1/2			

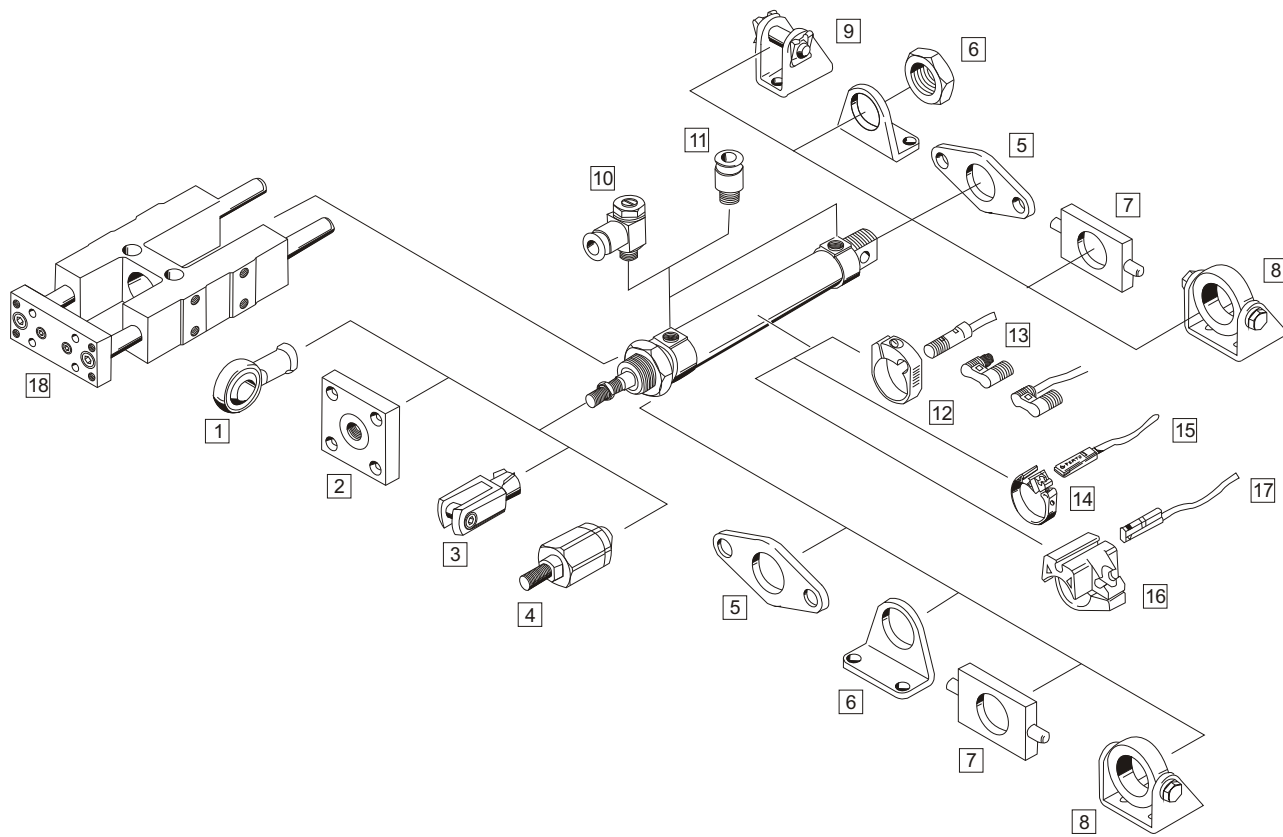
Main Dimensions



Bore	Stroke range	Thread length	A	ΦB	ΦC	ΦD	ΦE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	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

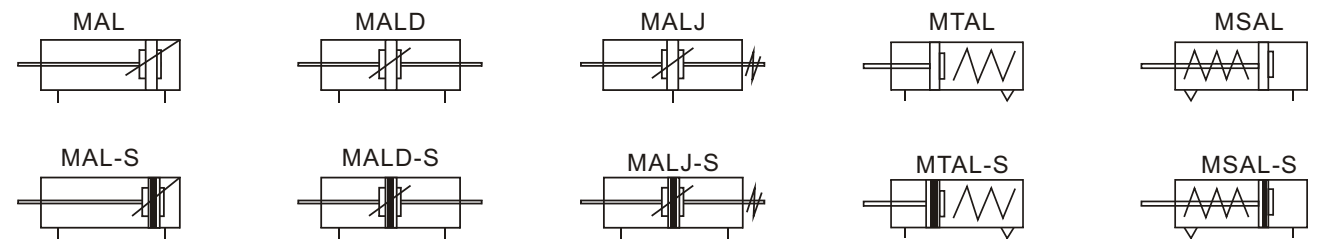
Cylinder Peripheral Component



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 Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Single Acting Spring Extend	Double Acting		Double Acting		Double Acting		
			Push force	Pull force		Push force	Pull force		Push force	Pull force		Push force	Pull force		Push force	Pull force	Push force	Pull force	Push force	Pull force	
Actual working area (mm²)		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

MAL	-	CM	20	X	50	-	20	-	S	-	LB
Series Code		Rear Cover Type	Stroke		Adjustable Stroke		Magnet		Mounting type		
MAL: Double Acting MSAL: Spring Extend MSTL: Spring Return MALD: Double Shaft Acting MALJ: Adjustable cushion type		CA: Swivelling tail CM: Round tail U: Flat tail	Bore		10: 10mm 20: 20mm 30: 30mm 40: 40mm 50: 50mm 75: 75mm 100: 100mm		Blank: Without Magnet S: With Magnet		Blank: Standard Cylinder LB: Leg mounting FA: Front rear plate mounting SDB: Trunnion bracket mounting		

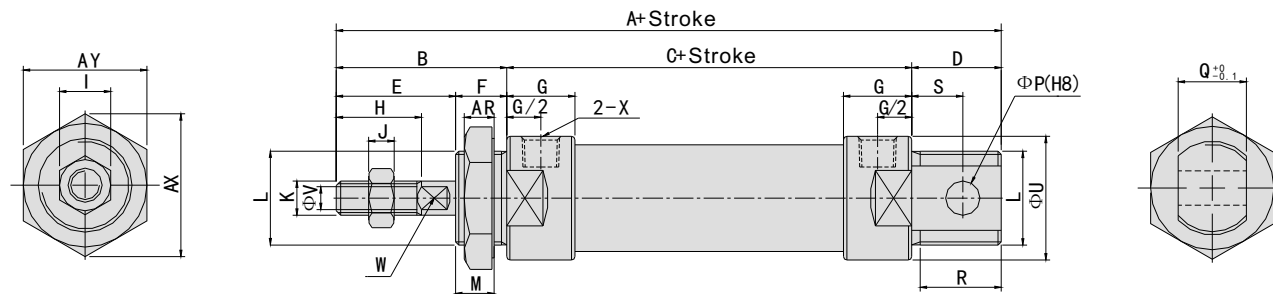
Specifications

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: 0.1~0.9Mpa; MSAL, MATL Series: 0.2~0.9Mpa				
Guaranteed pressure	1.5Mpa				
Working temperature	-5~70°C				
Speed range	MAL Series: 30~800mm/s; Other Series: 50~800mm/s				
Port size	M5X0.8	G1/8			G1/4

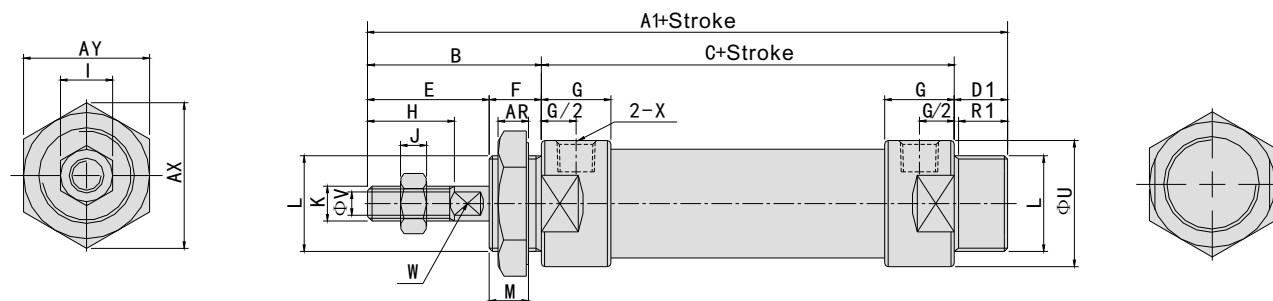
MAL Series Mini Cylinder

Main Dimensions

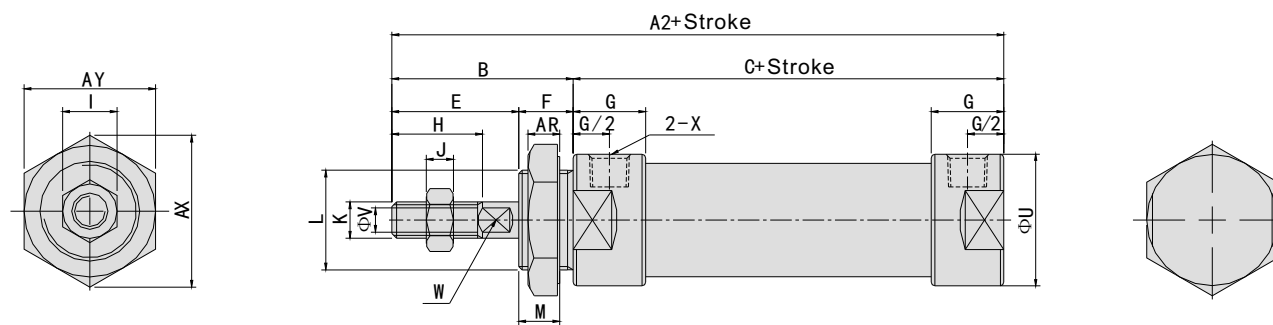
MAL-CA Swivelling Tail



MAL-CM Round Tail



MAL-U Flat Tail



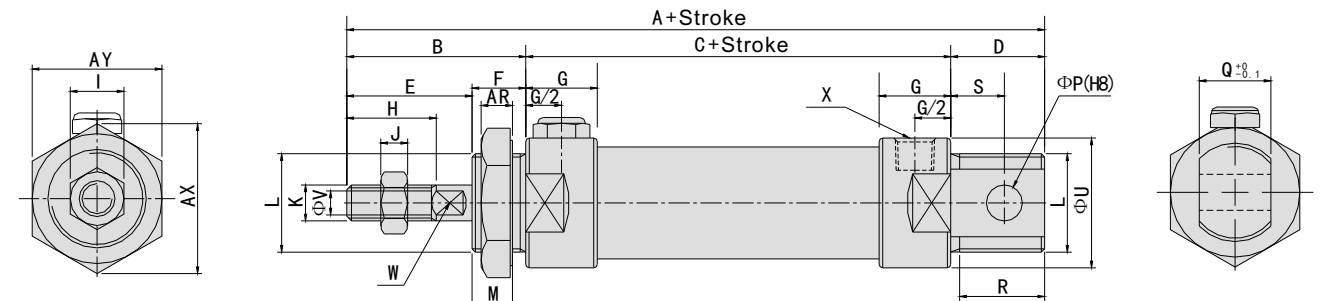
Bore	Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16		104	104	90	38	52	15	15	24	14	11	16	10	5	M6x1
20		131	122	110	40	70	21	12	28	12	16	20	12	6	M8x1.25
25		135	128	114	44	70	21	14	30	14	16	22	17	6	M10x1.25
32		141	128	114	44	70	27	14	30	14	16	22	17	6	M10x1.25
40		165	152	138	46	92	27	14	32	14	22	24	17	7	M12x1.25

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

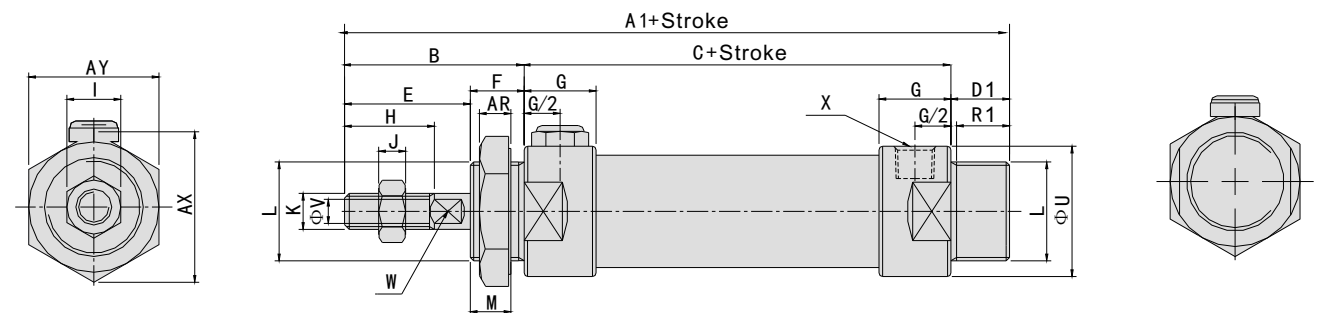
MAL Series Mini Cylinder

Main Dimensions

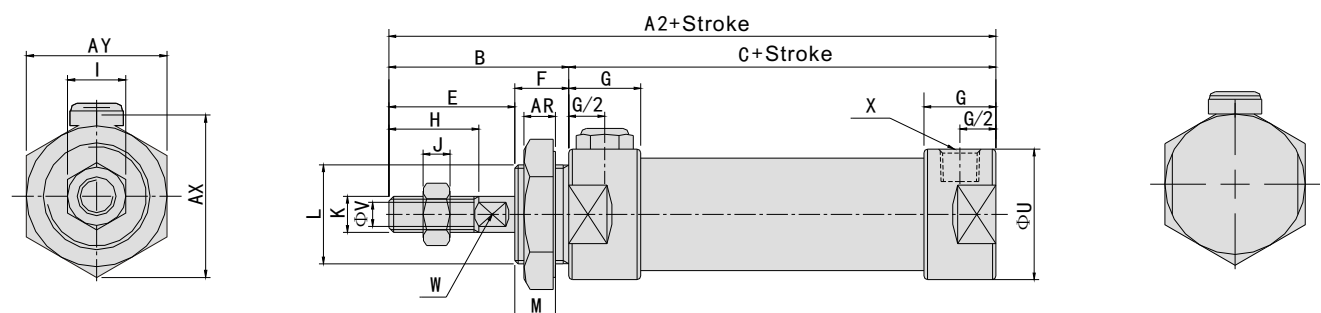
MSAL-CA Single Acting Swivelling Tail



MSAL-CM Single Acting Round Tail



MSAL-U Single Acting Flat Tail



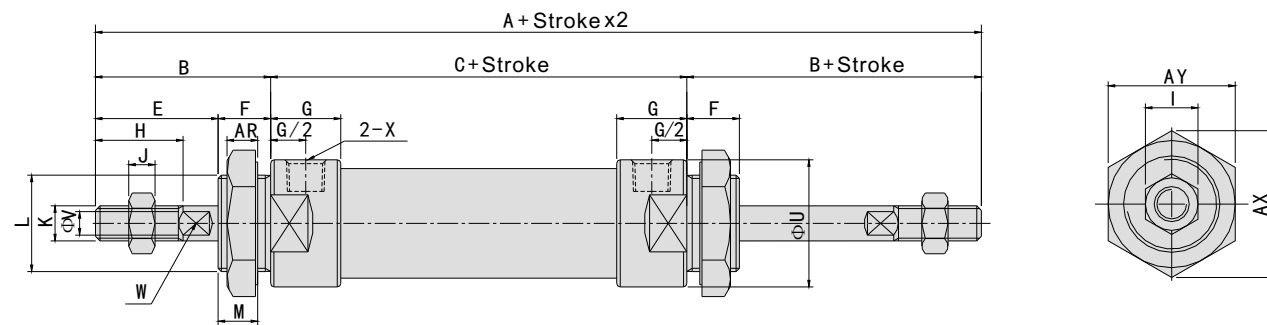
Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J
Bore/Stroke	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100				
20	131	156	122	147	110	135	40	70	95	21	12	28	12
25	135	160	128	153	114	139	44	70	95	21	14	30	14
32	141	166	128	153	114	139	44	70	95	27	14	30	14
40	165	190	152	177	138	163	46	92	117	27	14	32	14

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

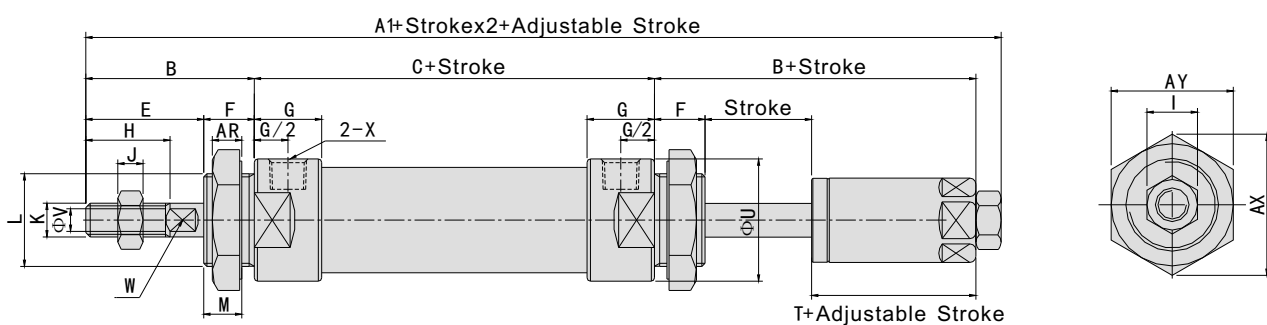
MAL Series Mini Cylinder

Main Dimensions

MALD Double shaft type



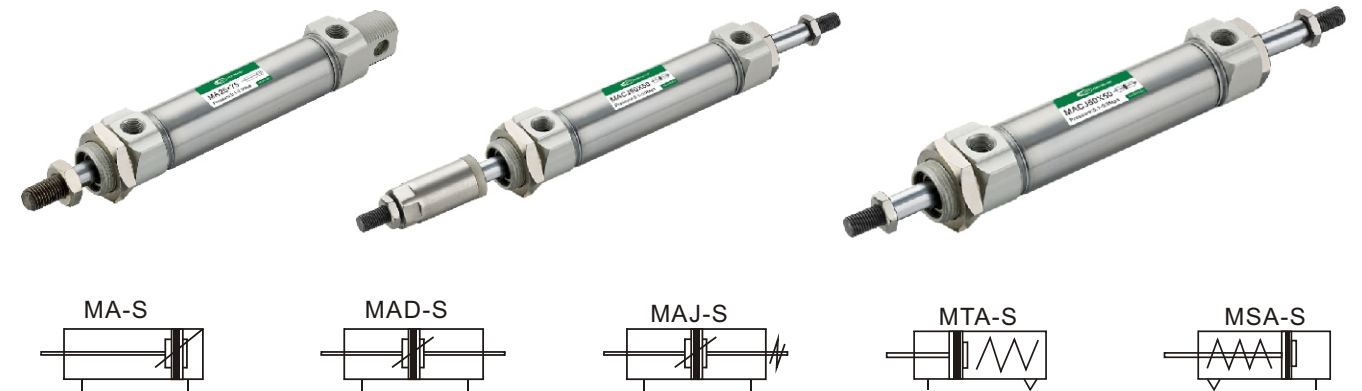
MALJ Double shaft adjustable stroke type



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

MA	-	CM	20	X	50	-	20	-	LB
Series Code		Rear Cover Type		Stroke			Adjustable Stroke		Mounting type
MA: Double Acting MSA: Spring Extend MST: Spring Return MAD: Double Shaft Acting MAJ: Adjustable cushion type		CA: Swivelling tail CM: Round tail U: Flat tail	Bore				10:10mm 20:20mm 30:30mm 40:40mm 50:50mm 75:75mm 100:100mm		Blank: Standard Cylinder LB: Leg mounting FA: Front rear plate mounting SDB: Trunnion bracket mounting

Specifications

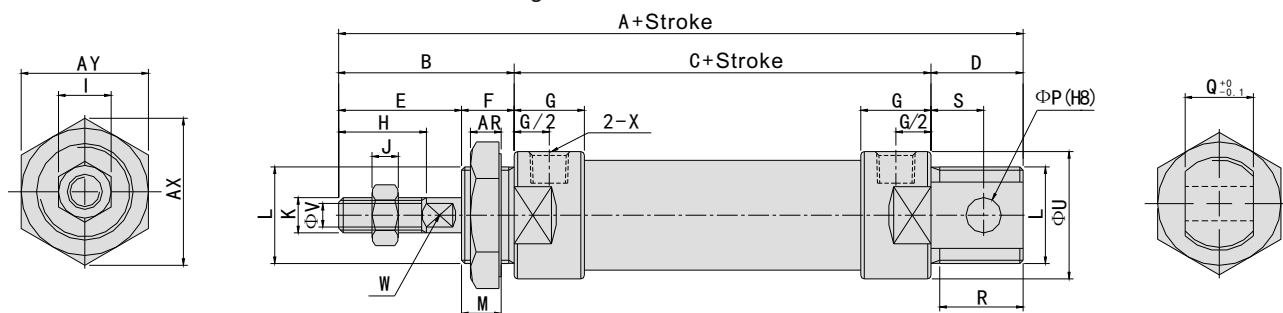
Bore (mm)		16	20	25	32	40	50	63
Mounting type	MA, MAC, MAD, MAJ	Double acting						
	MSA, MTA	Single Acting					-	
Working medium		Clean air(40µm Filtration)						
Mounting type		MA, MAC, MSA, MTA Series:Basic type LB FA SDB					Basic type	
		MAD、MAJ Series:Basic type LB FA						
Working pressure range		MA、MAC、MAD、MAJ: 0.1~0.9Mpa; MSA、MTA:0.2~0.9Mpa						
Guaranteed pressure		1.5Mpa						
Working temperature		5~70℃						
Speed range		MA、MAC: 50~800mm/s; MSA、MTA、MAD、MAJ: 30~800mm/s					MA、MAC、MSA、MTA: 30~500mm/s MAD、MAJ:30~800mm/s	
Cushion type	Standard	Fixed cushion						
	Cushion	-	Adjustable cushion					
Port size		M5X0.8	G1/8				G1/4	

MA Series Mini Cylinder

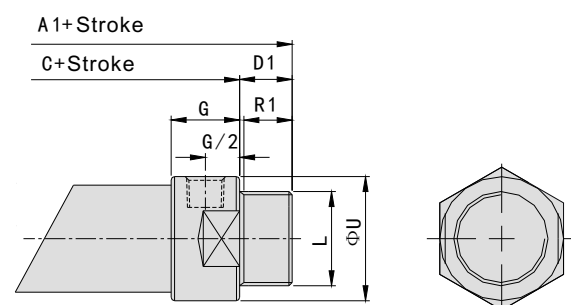
Main Dimensions

Φ16~Φ40

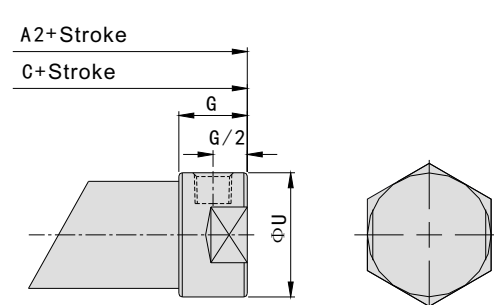
MA-CA Swivelling tail



MA-CM Round tail



MA-U Flat tail

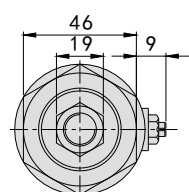


Bore	Sign	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16		114	114	98	38	60	16	15	22	16	10	16	10	5	M6X1
20		137	128	116	40	76	21	12	28	12	16	20	12	6	M8X1.25
25		141	134	120	44	76	21	14	30	14	16	22	17	6	M10X1.25
32		147	134	120	44	76	27	14	30	14	16	22	17	6	M10X1.25
40		149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12X1.25

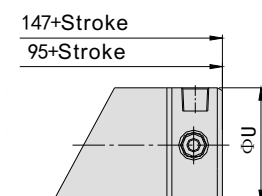
Bore	Sign	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16		M16X1.5	14	6	12	14	14	9	21	6	5	M5	6	25	22
20		M22X1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25		M24X1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32		M24X2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40		M30X2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

Φ50 Φ63

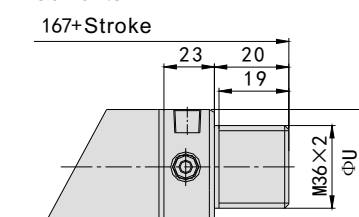
Swivelling tail



Flat tail



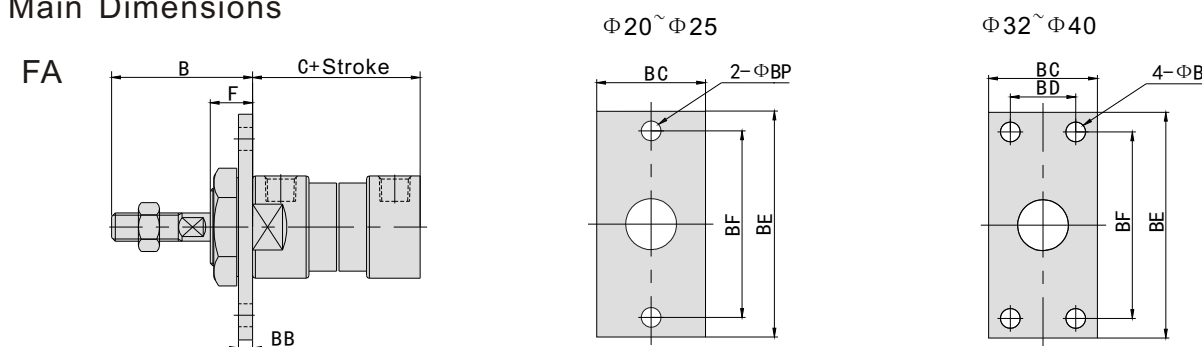
Round tail



Bore	Sign	U	V
50		53	16
63		67	16

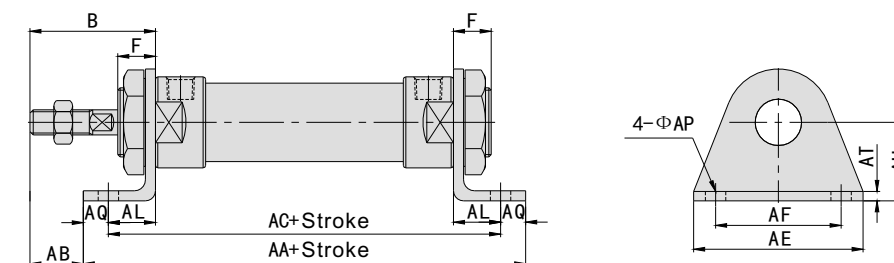
MAL/MA Series Mini Cylinder Brackets

Main Dimensions



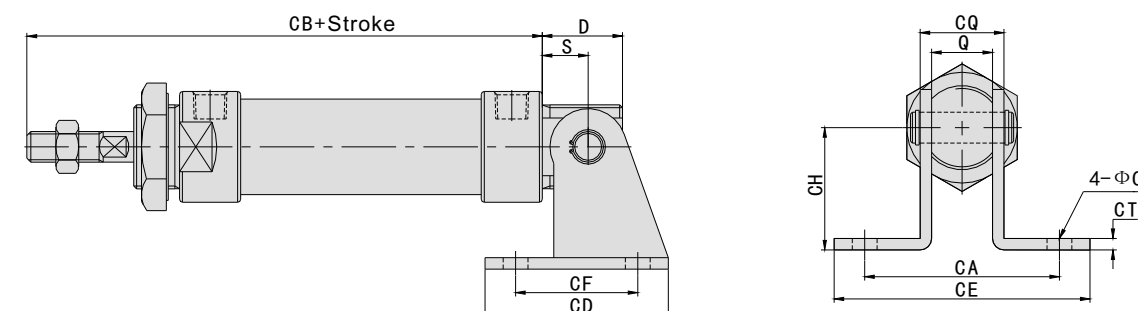
Sign	B	C	C (MSA Series)	C	C (MSAL Series)	BB	BC	BD	BE	BF	BP	F
Bore/Stroke	(MA Series)	0~50	51~100	(MAL Series)	0~50	51~100						
16	38	60	60	85	-	-	3	26	-	52	40	5.5
20	40	76	76	101	70	95	4	38	-	64	50	6.5
25	44	76	76	101	70	95	4	38	-	64	50	6.5
32	44	76	76	101	70	95	4	47	33	72	58	6.5
40	46	76	76	101	92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

LB



Sign	B	F	AA	AA	AB	AC	AC	AA	AA	AC	AC	AE	AF	AL	AQ	AP	AT	AH
Bore/Stroke	(MA Series)	0~50	51~100	(MAL Series)	0~50	51~100	(MSAL Series)	0~50	51~100	(MAL Series)	(MSAL Series)	0~50	51~100					
16	38	16	98	98	123	25	86	86	111	-	-	-	-	-	44	32	13	6
20	40	12	122	122	147	25	106	106	131	116	116	141	100	100	125	54	40	15
25	44	14	122	122	147	29	106	106	131	116	116	141	100	100	125	54	40	15
32	44	14	142	142	167	19	126	126	151	136	136	161	120	120	145	59	45	25
40	46	14	142	142	167	21	126	126	151	158	158	183	142	142	167	64	50	25

SDB

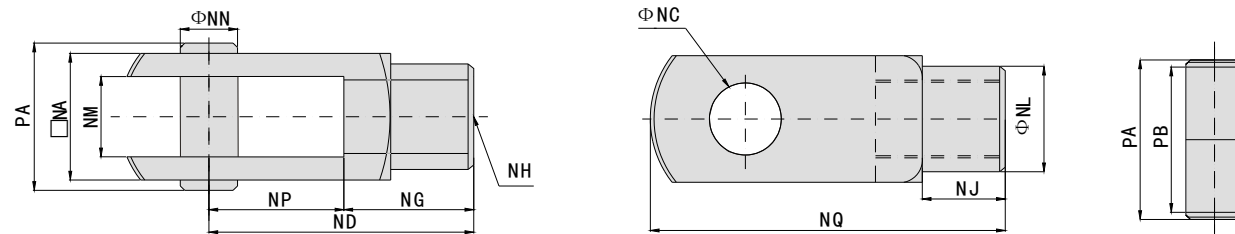


Sign	D	S	Q	CA	CB	CB (MSA Series)	CB	CB (MSAL Series)	CD	CE	CF	CH	CT	CP	CQ
Bore/Stroke	(MA Series)	0~50	51~100	(MAL Series)	0~50	51~100	(MSAL Series)	0~50	51~100						
16	16	9	12	-	107	107	132	-	-	-	23	-	12	20	2.3
20	21	12	16	51	128	128	153	122	122	147	48	67	32	32	3
25	21	12	16	51	132	132	157	126	126	151	48	67	32	32	3
32	27	15	16	51	135	135	160	129	129	154	52	67	36	36	4
40	27	15	20	55	137	137	162	153	153	178	56	71	40	40	4

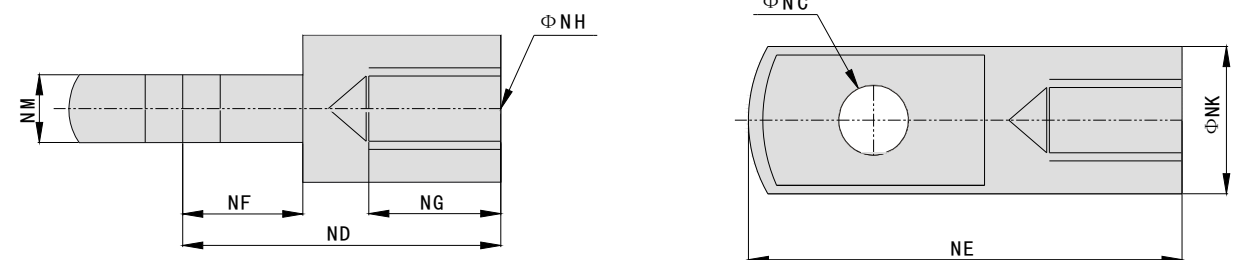
MAL/MA Series Mini Cylinder Brackets

Main Dimensions

Y Fitting

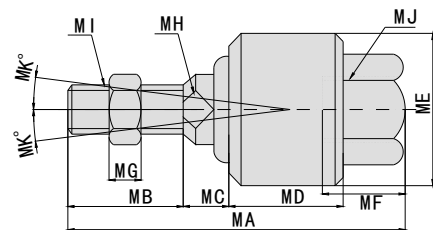


I Fitting



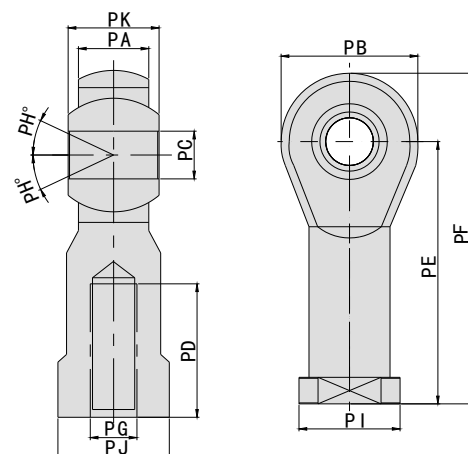
Bore	Sign	NA	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	PA	PB
16		12	3.5	12	28	8.5	12.5	M6X1	7	12	12	6	5	8.5	28	17	12.5
20		16	8	30	40	11	15	M8X1.25	10	16	14	8	8	15	40	21	16.5
25		19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
32		19	10	40	52	15	20	M10X1.25	12	20	18	10	10	20	52	25	19.5
40		25.4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

Floating Fitting



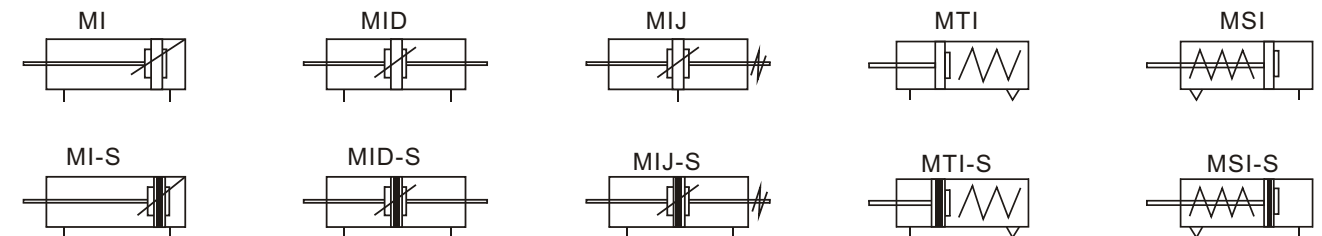
Bore	Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
20		51	20	6	17	24	11.5	6	8	M8X1.25	M8X1.25	13
25		58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
32		58	22	7	21	26	11.5	7	10	M10X1.25	M10X1.25	12
40		58	22	8	21	28	11.5	8	12	M12X1.25	M12X1.25	12
50		70	22.5	8.5	28	34.5	13	8	15	M14X1.5	M14X1.5	13
63		70	22.5	8.5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

MI	16	x	40	-	S	-	CA
Series Code	Bore		Stroke		Magnet		Rear Cover Type
MI: Basic Type MID: Double Shaft Type MIJ: Double Shaft Adjustable Type MSI: Spring Extend MTI: Spring Return MIC: Double Adjustable Cushion					Blank: Without Magnet S: With Magnet		CA: Swivelling tail CM: Round tail U: Flat tail
Mark: According to ISO6432 CETOPRP52P Standard							

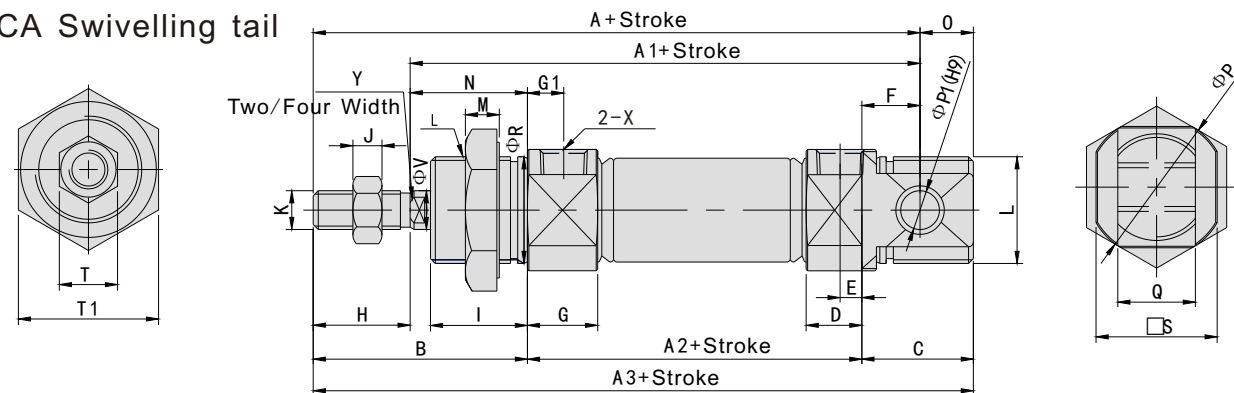
Specifications

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	Double acting	0.05~0.7Mpa							
	Single acting	0.2~0.7Mpa							
Guaranteed pressure		1.5Mpa							
Working temperature		-5~70℃							
Speed range		50~750mm/s							
Cushion type		MIC Series: Adjustable Cushion Other Series: Anti-bump cushion							
Material		Stainless steel barrel							
Port size		M5X0.8				G1/8			G1/4

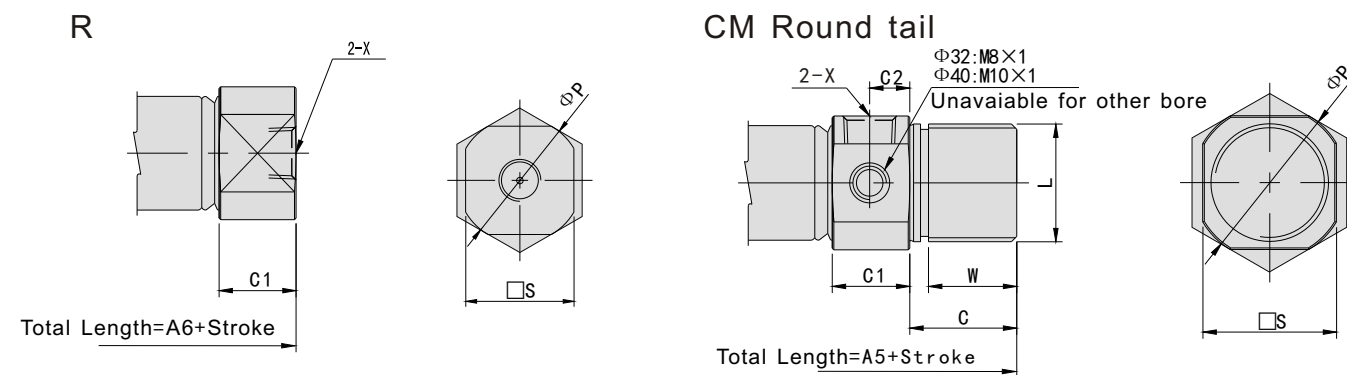
MI Series Mini Cylinder

Main Dimensions

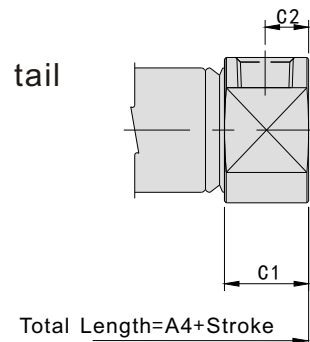
CA Swivelling tail



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

C	J	2	B		6	-	15	-	R
Magnet				Acting	Stroke				Join Type
Blank: Without Magnet					6:Φ6				Blank: vertical
D:With Magnet					10:Φ10				R:horizontal
					16:Φ16				

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	-10~70℃		
Speed range	50~750mm/s		
Cushion type	Rubber Cushion		
Tolerance of stroke	±1.0mm		



CDM2B Series Mini Cylinder

Ordering Code CDM2B Series Mini Cylinder

C	M	2	B		-	20	x	50	-	
Magnet				Acting	Stroke				Cushion	
Blank: No Magnet					20~40mm				Blank: Rubber cushion	
S:With Magnet					0~1000mm				A:Air cushion	
					Blank:Basic type					
					S:Single acting Spring Extend					
					T:Single acting Spring Return					

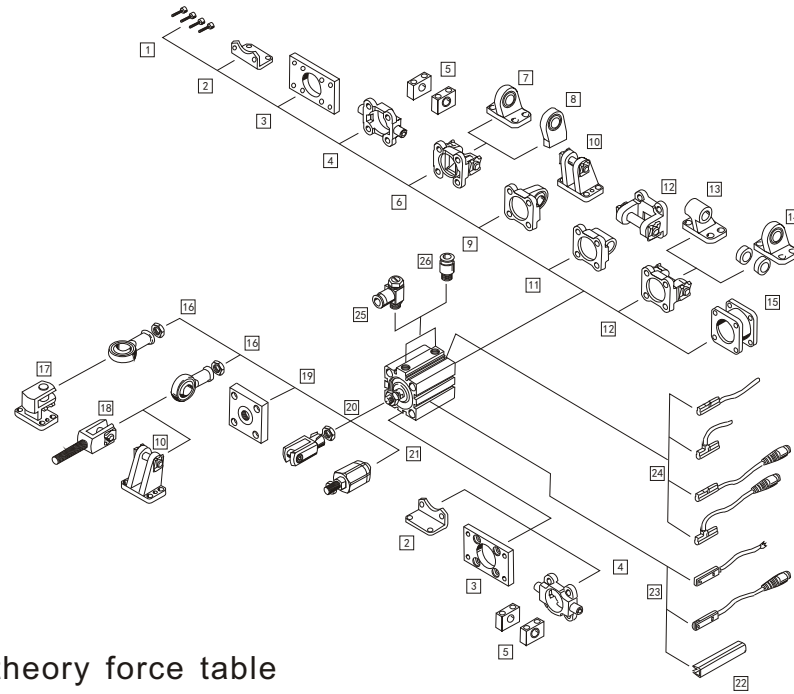
Specifications

Bore (mm)	20	25	32	40
Working medium	Clean air (40μm Filtration)			
Acting type	Double acting			
Guaranteed pressure	0.05~1.0Mpa			
Working temperature	-10~70℃			
Cushion type	Rubber Cushion (Standard) , Air Cushion (Optional)			
Speed range	Min: 10mm/s		Max: 1000mm/s	



Technical Data 3

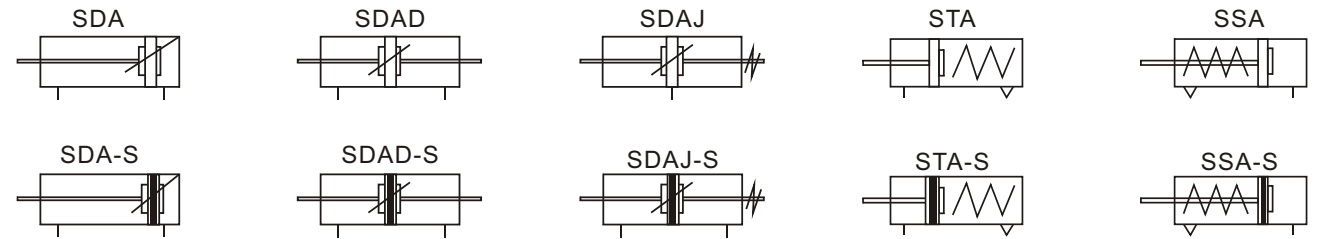
Cylinder Peripheral Component



Air cylinder theory force table

Bore (mm)	Piston Size (mm)	Acting Type	Pressure Square (mm ²)	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	Press side	113	-	22.6	33.9	45.2	56.5	67.8
			Pull side	85	-	1.7	25.5	3.4	42.5	5.1
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	Press side	201	-	40.2	60.3	80.4	100.5	120.6
			Pull side	173	-	34.6	51.9	69.2	86.5	103.8
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	Press side	314	-	62.8	94.2	125.6	157.0	188.4
			Pull side	264	-	52.8	79.2	105.6	132.0	158.4
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	Press side	490	-	98.0	147.0	196.0	245.0	294.0
			Pull side	412	-	82.4	123.6	164.8	206.0	247.2
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	Press side	804	-	160.8	241.2	321.6	402.0	482.4
			Pull side	690	-	138.0	207.0	276.0	345.0	414.0
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	Press side	1256	125.6	251.2	376.8	502.4	628.0	753.6
			Pull side	1055	105.5	211.0	316.5	422.0	527.5	633.0
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	Press side	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2
			Pull side	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8
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	Press side	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8
			Pull side	7049	704.9	1409.8	2114.7	2819.6	3524.5	4229.4

SDA Series Compact Cylinder



Ordering Code SDA Series Compact Cylinder

S	D	A		S		20	X	30	-	20	-	B
Series Code			Magnet		Bore		Stroke		Adjustable Stroke		Thread	
SDA:Double Acting			Blank: Without Magnet						10:10mm		Blank: Female thread	
SSA:Single Acting Spring Extend			S:With Magnet						20:20mm		B: Male thread	
STA:Single Acting Spring Return									30:30mm		N: No thread	
SDAD:Double Shaft Acting									40:40mm			
SDAJ:Adjustable cushion type									50:50mm			
									75:75mm			
									100:100mm			

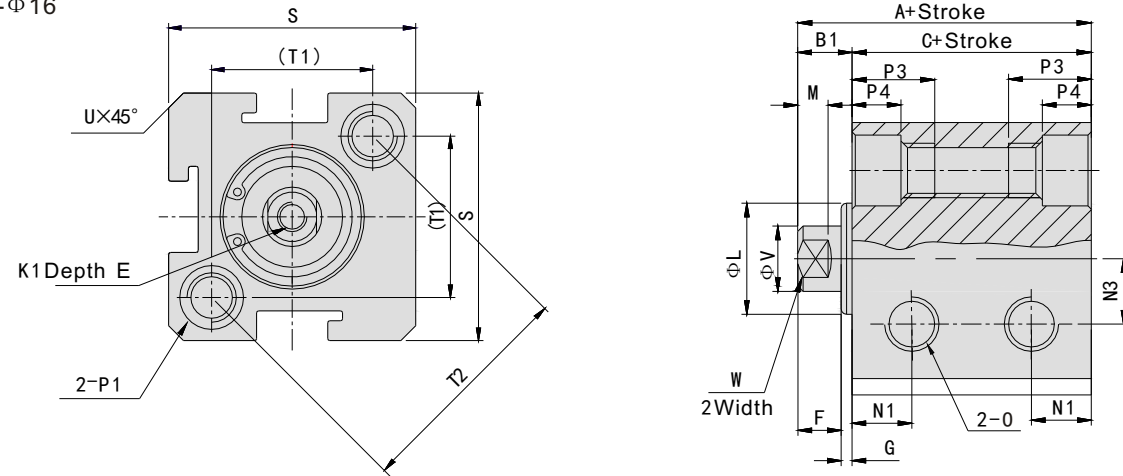
Specifications

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	Double acting	0.1~0.9Mpa									
	Single acting	0.2~0.9Mpa								-	
Guaranteed pressure		1.5Mpa(213Psi)									
Working temperature		-5~70℃									
Speed range	Double acting	30~500mm/s						30~350mm/s		30~250mm/s	
	Single acting	100-500mm/s						-			
Cushion type		Fixed Cushion									
Port size		M5X0.8				G1/8		G1/4		G3/8	

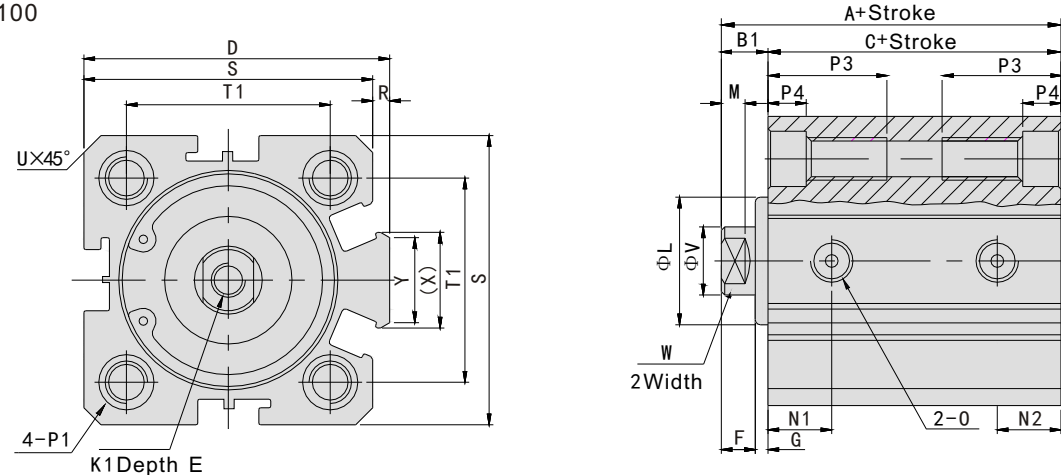
SDA Series Compact Cylinder

Main Dimensions SDA/SDAS (Double Acting Type)

Φ12-Φ16



Φ20-Φ100



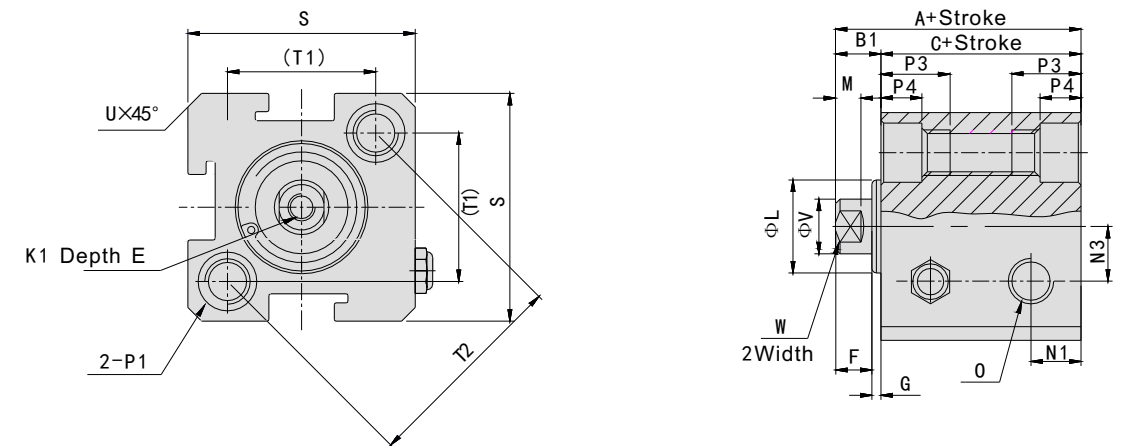
Model	Standard			With Magnet			D	E	F	G	K1	L	M	N1		N2		N3
Bore/Sign	A	B1	C	A	B1	C								S=5	S>5	S=5	S>5	
12	22	5	17	32	5	27	-	6	4	1	M3X0.5	10.2	2.8	6.3		6.3		6
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3X0.5	11	2.8	7.3		7.3		6.5
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4X0.7	15	2.8	7.5		7.5		-
25	27	6	21	37	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	-

Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
Bore													
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 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:M6X1.0 Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.2 Thread:M6X1.0 Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 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:M8X1.25 Through Hole: Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double Side: Φ11 Thread:M8X1.25 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:M12X1.75 Through Hole: Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double Side: Φ17.5 Thread:M14X2 Through Hole: Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

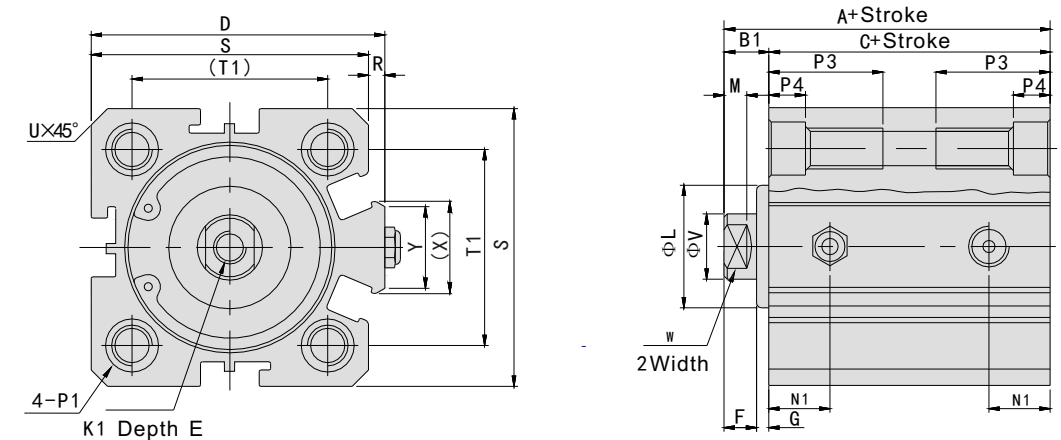
SDA Series Compact Cylinder

Main Dimensions SSA/SSAS (Single Acting Spring Extend)

Φ12-Φ16



Φ20-Φ40



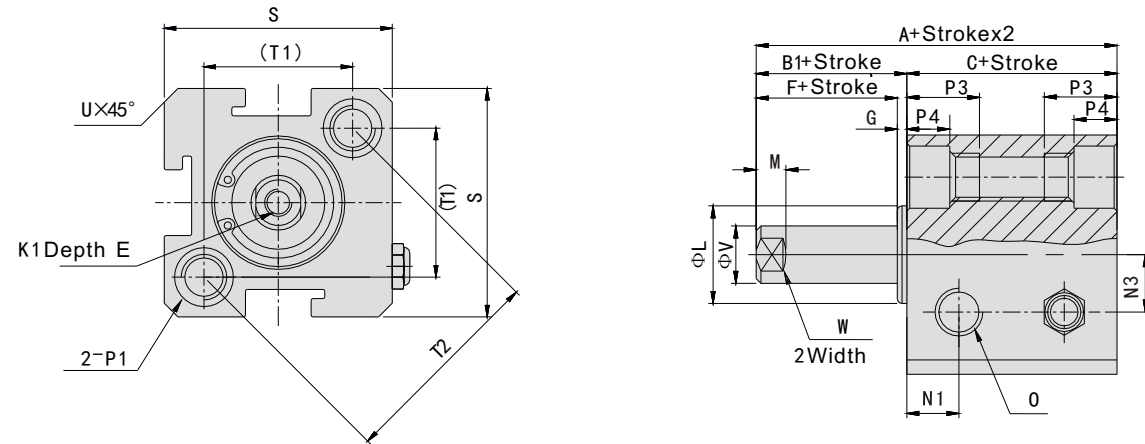
Model	Standard					With Magnet					D	E	F	G	K1	L	M	N1	N3
Bore/Sign Stroke	A		B1	C		A		B1	C										
	≤10	>10		≤10	>10	≤10	>10		≤10	>10									
12	32	42	5	27	37	42	52	5	37	47	–	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	–	6	4	1.5	M3X0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	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	-

Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
Bore													
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 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:M6X1.0 Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.5 Thread:M6X1.0 Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 Through Hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

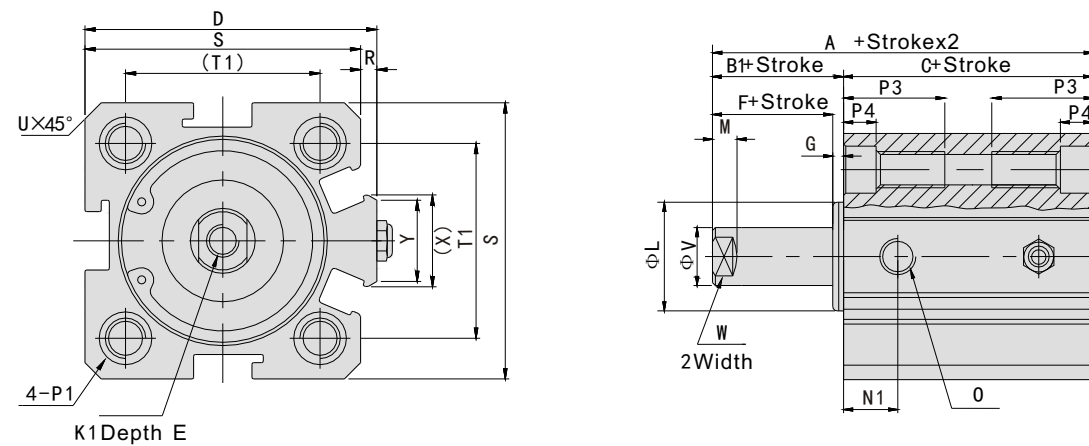
SDA Series Compact Cylinder

Main Dimensions STA/STAS (Single Acting Spring Return)

Φ12-Φ16



Φ20-Φ40

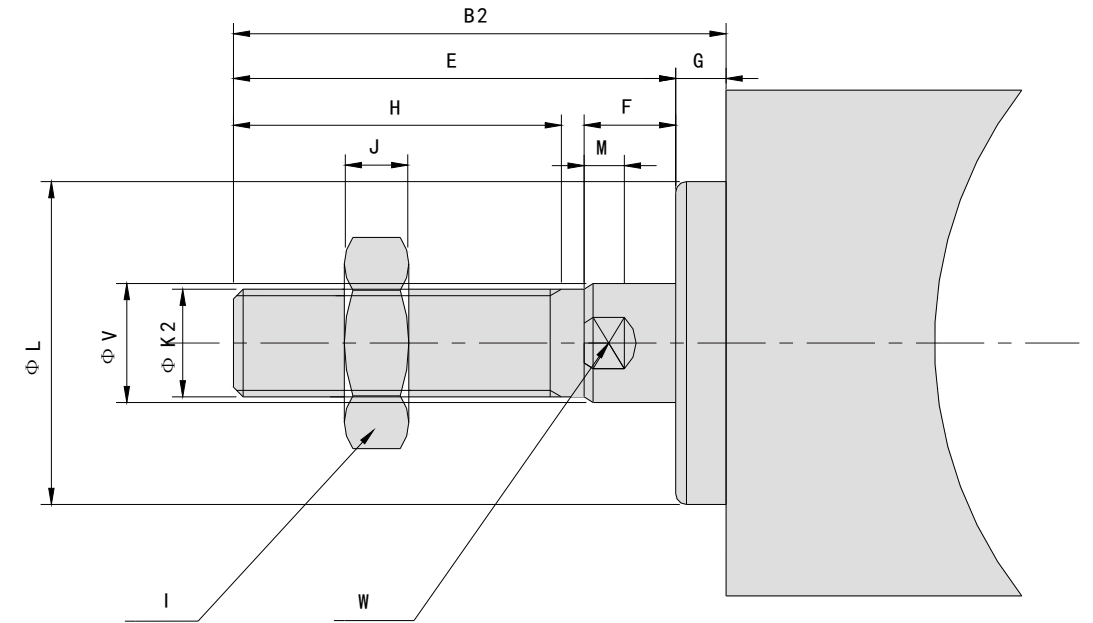


Model	Standard					With Magnet					D	E	F	G	K1	L	M	N1	N3
Bore/Sign Stroke	A		B1	C		A		B1	C										
	≤10	>10		≤10	>10	≤10	>10		≤10	>10									
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3X0.5	10.2	2.8	6.3	6
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3X0.5	11	2.8	7.3	6.5
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	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	-

Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 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:M6X1.0 Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.2 Thread:M6X1.0 Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 Through Hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

SDA Series Compact Cylinder

Main Dimensions SDA SSA STA

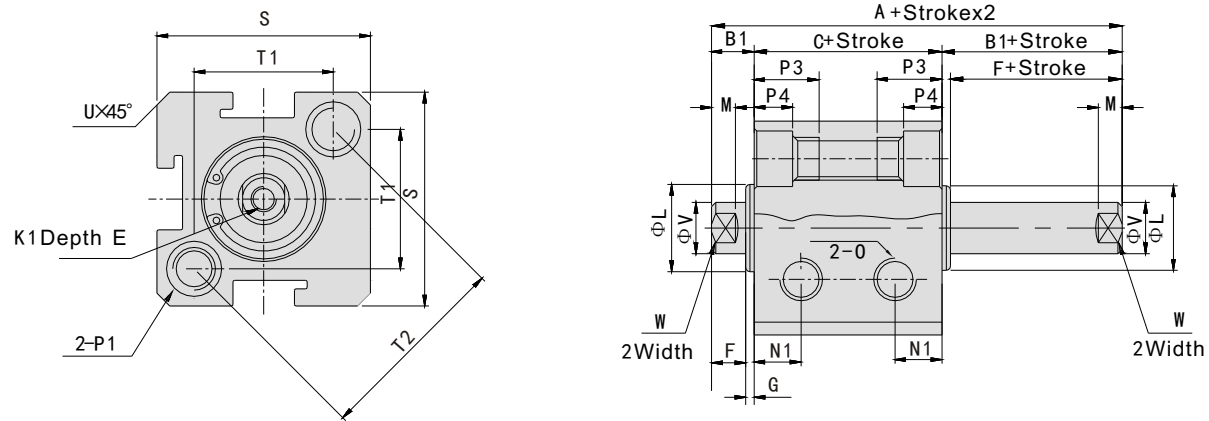


Bore	Sign	B2	E	F	G	H	I	J	K2	L	M	V	W
12		17	16	4	1	10	8	4	M5X0.8	10.2	2.8	6	5
16		17.5	16	4	1.5	10	8	4	M5X0.8	11	2.8	6	5
20		20.5	19	4	1.5	13	10	5	M6X1.0	15	2.8	8	6
25		23	21	4	2	15	12	6	M8X1.25	17	2.8	10	8
32		25	22	4	3	15	17	6	M10X1.25	22	2.8	12	10
40		35	32	4	3	25	19	8	M14X1.5	28	2.8	16	14
50		37	33	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

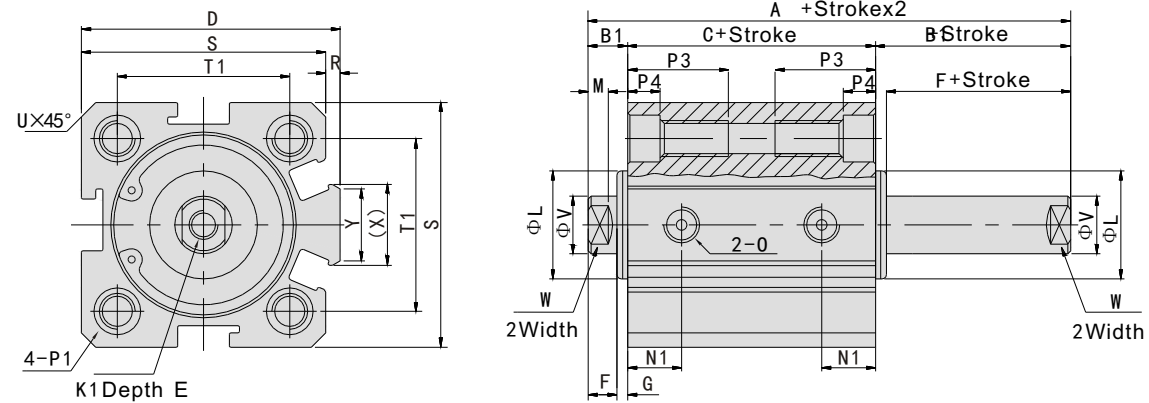
SDA Series Compact Cylinder

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

Φ12-Φ16



Φ20-Φ100



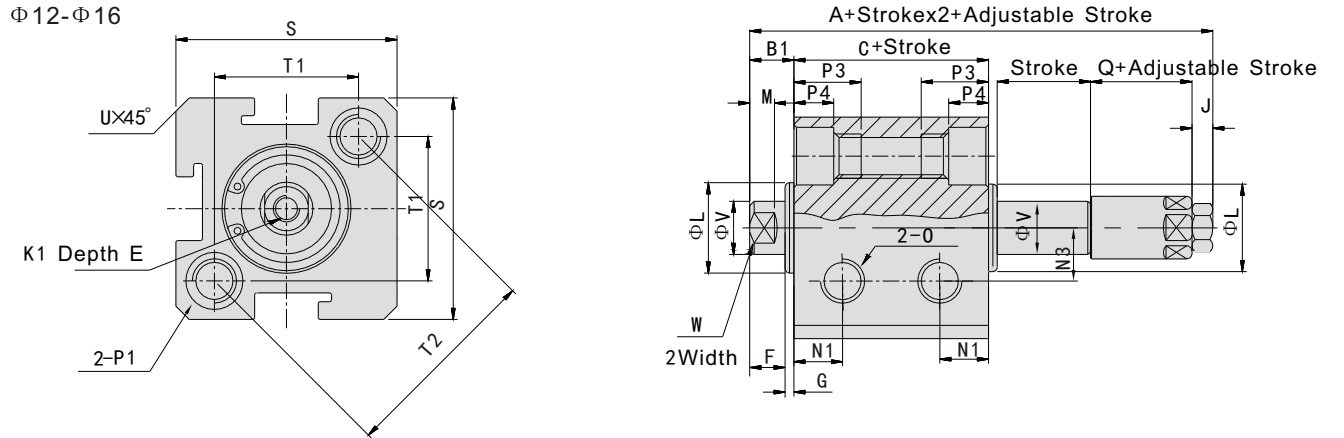
Model Bore/Sign	Standard			With Magnet			D	E		F	G	K1	L	M	N1		N3
	A	B1	C	A	B1	C		S≤10	S>10						S=5	S>5	
12	27	5	17	37	5	27	-	6		4	1	M3X0.5	10.2	2.8	6.3		6
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3X0.5	11	2.8	7.3		6.5
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(S=5 6.5)		4	1.5	M4X0.7	15	2.8	7.5		-
25	33	6	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	-

Sign	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 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:M6X1.0 Through Hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	G1/8	Double Side: Φ8.2 Thread:M6X1.0 Through Hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	G1/8	Double Side: Φ10 Thread:M8X1.25 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:M8X1.25 Through Hole: Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	G1/4	Double Side: Φ11 Thread:M8X1.25 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:M12X1.75 Through Hole: Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	G3/8	Double Side: Φ17.5 Thread:M14X2 Through Hole: Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

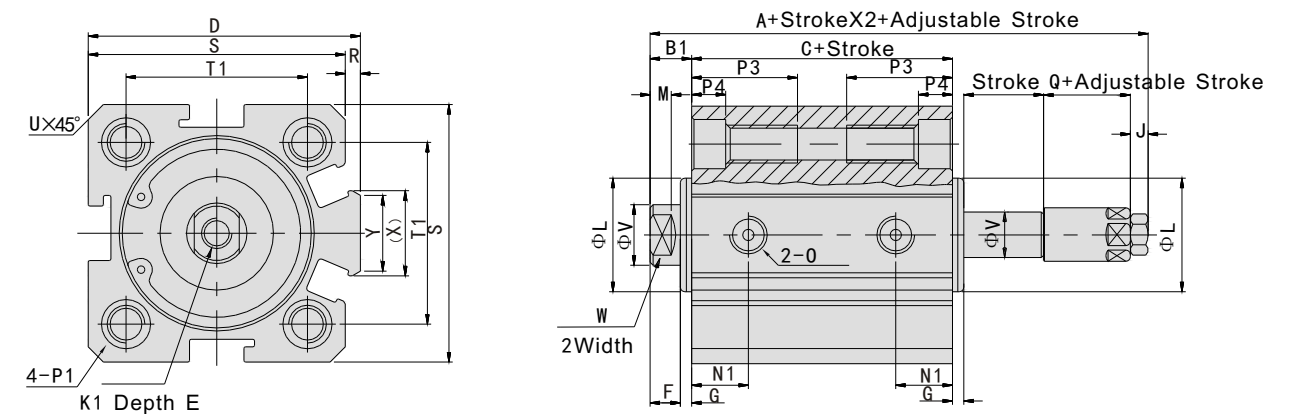
SDA Series Compact Cylinder

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

Φ12-Φ16



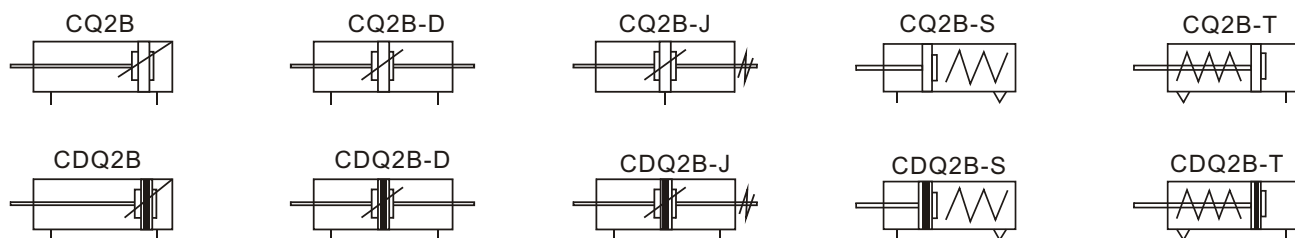
Φ20-Φ100



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

Sign	N3	O	P1	P4	Q	R	S	T1	T2	U	V	W	X	Y
12	6	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	13	-	25	16.2	23	1.6	6	5	-
16	6.5	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	12	4.5	13	-	29	19.8	28	1.6	6	5	-
20	-	M5X0.8	Double Side: Φ6.5 Thread:M5X0.8 Through Hole: Φ4.2	14	4.5	16	2	34	24	-	2.1	8	6	11.3
25	-	M5X0.8	Double Side: Φ8.2 Thread:M6X1.0 Through Hole: Φ4.6	15	5.5	19	2	40	28	-	3.1	10	8	12
32	-	G1/8	Double Side: Φ8.2 Thread:M6X1.0 Through Hole: Φ4.6	16	5.5	21	6	44	34	-	2.15	12	10	18.3
40	-	G1/8	Double Side: Φ10 Thread:M8X1.25 Through Hole: Φ6.5	20	7.5	21	6.5	52	40	-	2.25	16	14	21.3
50	-	G1/4	Double Side: Φ11 Thread:M8X1.25 Through Hole: Φ6.5	25	8.5	21	9.5	62	48	-	4.15	20	17	30
63	-	G1/4	Double Side: Φ11 Thread:M8X1.25 Through Hole: Φ6.5	25	8.5	21	9.5	75	60	-	3.15	20	17	28.7
80	-	G3/8	Double Side: Φ14 Thread:M12X1.75 Through Hole: Φ9.2	25	10.5	24	10	94	74	-	3.65	25	22	36
100	-	G3/8	Double Side: Φ17.5 Thread:M14X2 Through Hole: Φ11.3	30	13	24	10	114	90	-	3.65	32	27	35

CQ2 Series Compact Cylinder



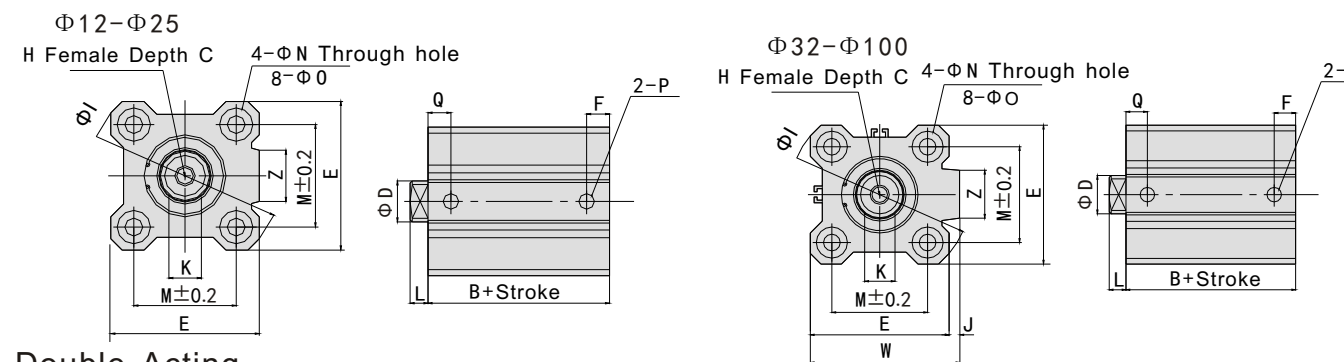
Ordering Code CQ2 Series Compact Cylinder

C	□	Q2	B	12	X	10	-	D	M		
		Mounting				Stroke		Acting		Thread Type	
		B:Through hole A:Female thread at both ends						Blank:Double acting S:Single acting spring extent T:Single acting spring return D:Double shaft double acting J:Double shaft double acting adjustable		Blank:Female thread on piston rod M:Male thread on piston rod	
Magnet				Bore							
Blank: Without Magnet D:With Magnet				Double Acting: 12~100MM Spring Acting: 12~50MM							

Specifications

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Clean air (40µm Filtration)									
Acting Type	Double Single acting spring extent/Single acting spring reurn									
Guaranteed Pressure	1.5Mpa									
Max. Working Pressure	1.0Mpa									
Working Temperature	5~60°C									
Thread on Piston Rod	Female thread (Standard) , Male thread (Optional)									
Tolerance of Stroke	+1.0mm 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 Through Hole/CQ2B



Double Acting

Bore	Stroke	B	ΦD	E	F	H	C	ΦI	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	5~50	23	16	45	5.5	M8*1.25	13	60	4.5	14	7	34	5.5	9Depth7	M5*0.8	11.5	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

Note2) Long Stroke

Bore	Stroke (MM)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5

Bore	Stroke (MM)	B	F	P	Q
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

Note1) Standard stroke is at 5mm interval.

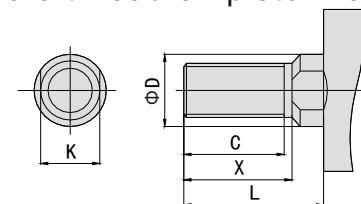
Note2) The stroke is medium stroke between 55mm and 100mm (55, 60, 65, 70, 80, 85, 90, 95) plus 5, 10, 15 or 20mm thick backing plate.

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.

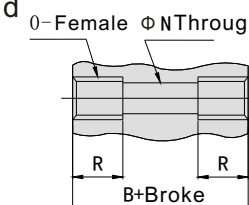
Single Acting

Bore	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
12	22	27	–	6	25	5	5	M3*0.5	6	32	–	5	3.5	15.5	3.5	6.5Depth3.5	M5*0.8	–	7.5	7.5	–	–	
16	23.5	28.5	–	8	29	5.5	5.5	M4*0.7	8	38	–	6	3.5	20	3.5	6.5Depth3.5	M5*0.8	–	8	8	–	10	
20	24.5	29.5	–	10	36	5.5	5.5	M5*0.8	7	47	–	8	4.5	25.5	5.5	9Depth7	M5*0.8	–	9	9	–	10	
25	27.5	32.5	–	12	40	5.5	5.5	M6*1.0	12	52	–	10	5	28	5.5	9Depth7	M5*0.8	–	11	11	–	10	
32	28	33	–	16	45	5.5	7.5	M8*1.25	13	60	4.5	14	7	34	5.5	9Depth7	M5*0.8	1/8	–	11.5	10.5	49.5	18
40	34.5	39.5	–	16	52	8	8	M8*1.25	13	69	5	14	7	40	5.5	9Depth7	1/8	–	11	11	57	18	
50	–	40.5	50.5	20	64	10.5	10.5	M10*1.5	15	86	7	17	8	50	6.6	11Depth8	–	1/4	10.5	10.5	71	22	

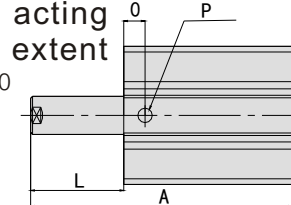
Male thread on piston rod



Female thread at both ends



Single acting spring extent Φ12~Φ50



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

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

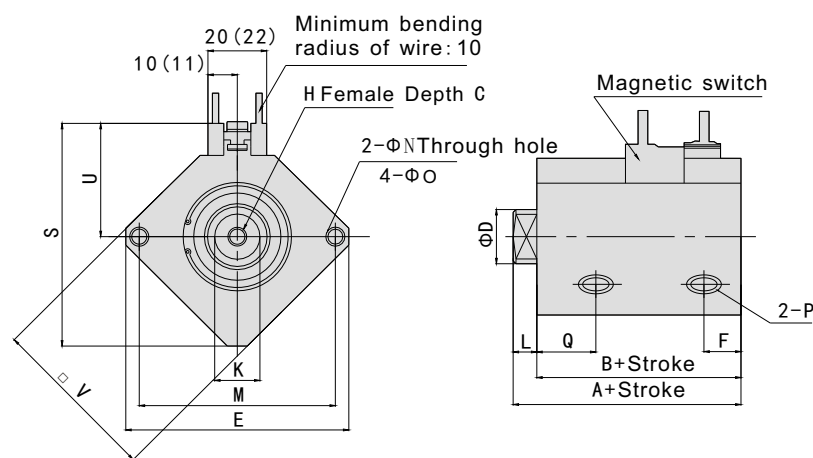
Bore (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	–	8.5	13.5	–
16	32	42	–	8.5	13.5	–
20	34	44	–	9.5	14.5	–
25	37.5	47.5	–	10	15	–
32	40	50	–	12	17	–
40	46.5	56.5	–	12	17	–
50	–	58.5	78.5	–	18	28

Note: Unless otherwise specified, the dimensions of model with through hole are the same as those of model with female thread at both ends

CQ2 Series Compact Cylinder

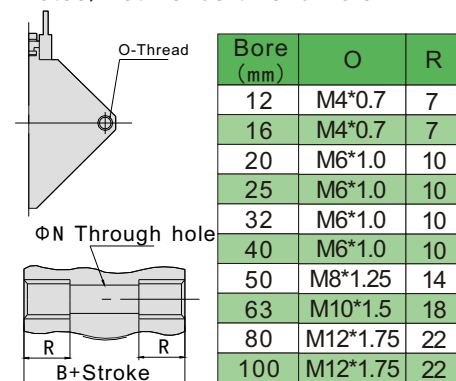
Main Dimensions

Φ12-Φ25

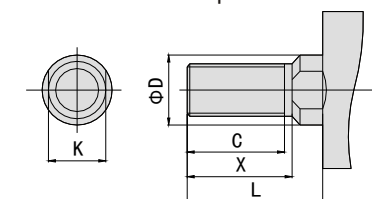


Both ends thread hole : CDQ2B

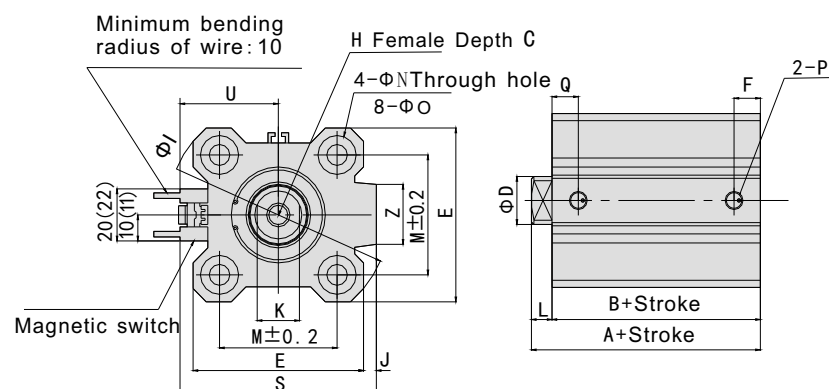
Note3) Both ends thread hole



Male thread on piston rod



Φ32-Φ100



Male thread on piston rod

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

Main Dimensions

Bore	Stroke Range	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

Note2) Long Stroke

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

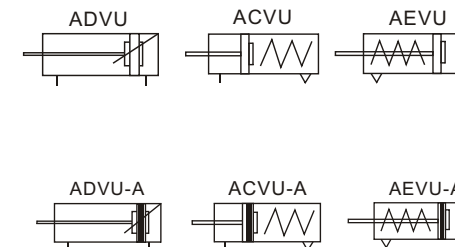
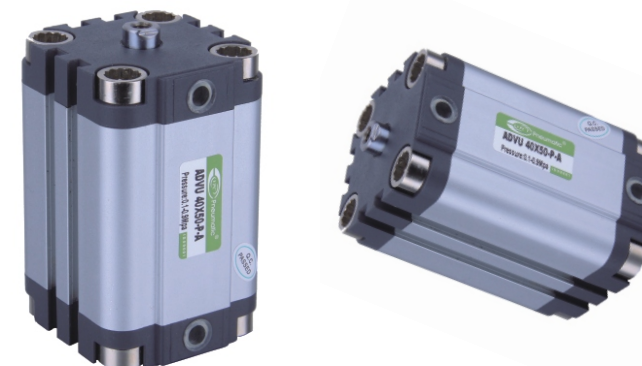
Note1) Standard stroke is at 5mm interval.

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

ADVU	12	X	10	-	25	A	B
Series Code	Bore		Stroke		Adjustable Stroke	Magnet	Thread
ADVU : Double Acting AEVU:Spring Return ACVU:Spring Extend ADVUD:Double Shaft Acting ADVUJ:Adjustable cushion type						Blank : Without Magnet A:With Magnet	Blank : Female Thread B:Male Thread

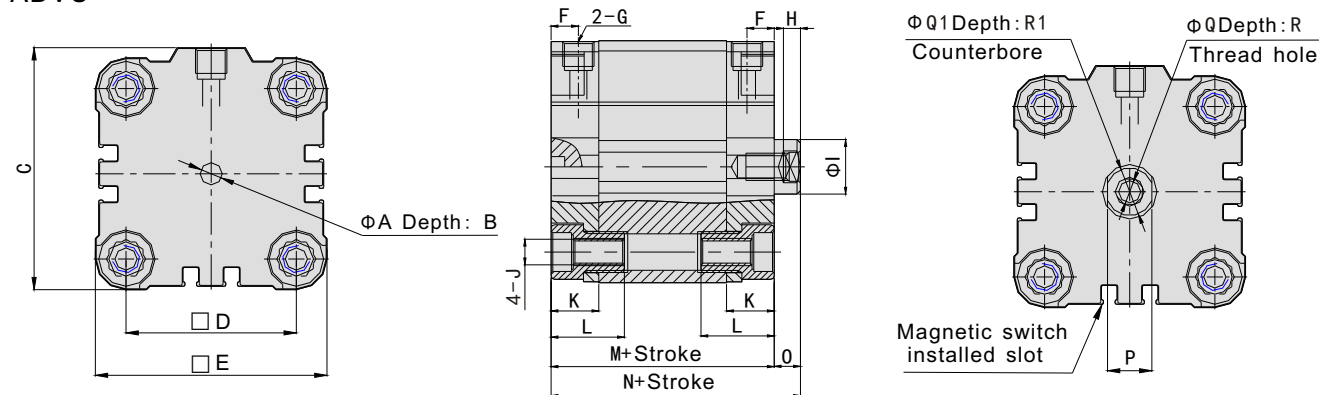
Specifications

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	0.1~1.0Mpa									
	Spring Acting	0.2~1.0Mpa									
Guaranteed pressure		1.5Mpa									
Working medium		-5~70℃									
Speed range		Double Acting : 30~500mm/s Spring Acting : 50~500mm/s									
Tolerance of stroke		0~150 ^{+1.0} ₀ mm >150 ^{+1.4} ₀ mm									
Cushion type		Rubber Cushion									
Port size		M5X0.8				G1/8					G1/4

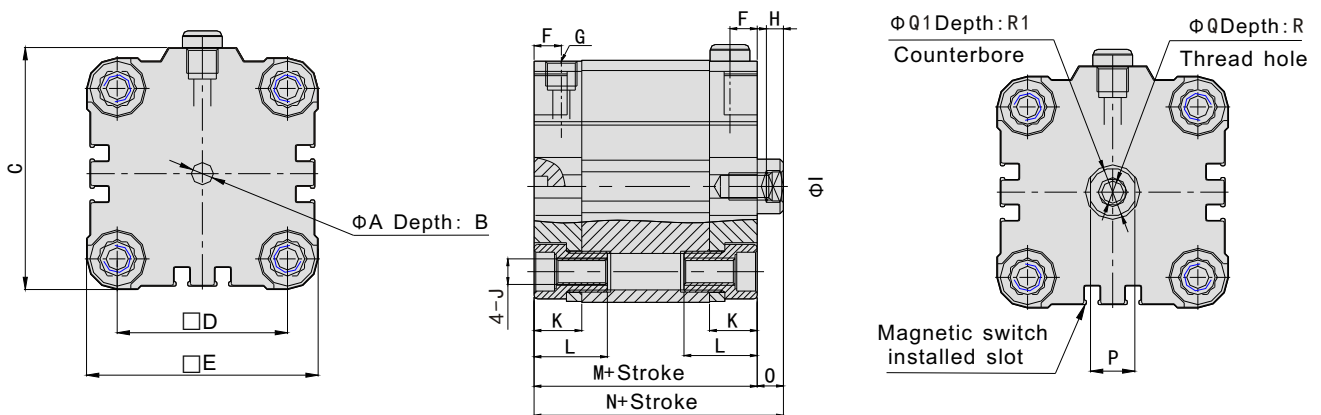
ADVU Series Compact Cylinder

Main Dimensions

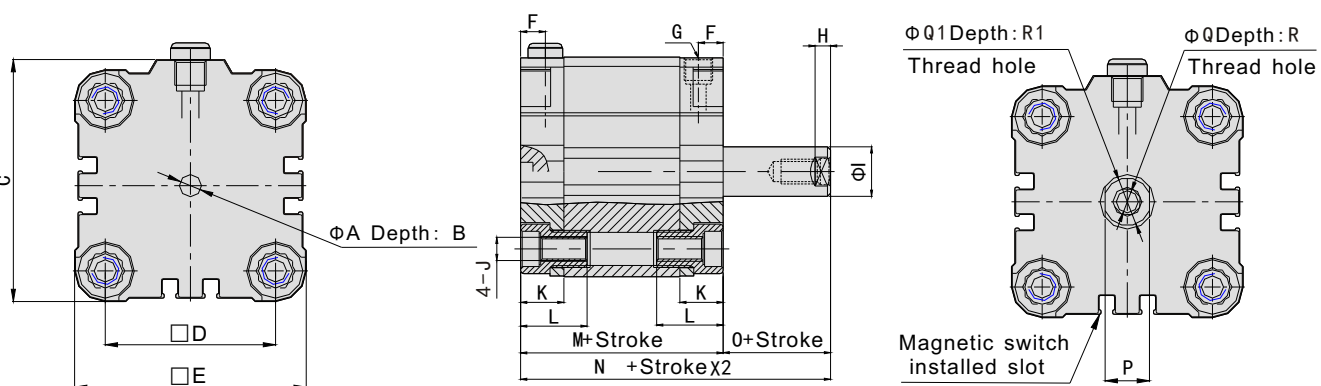
ADVU



AEVU



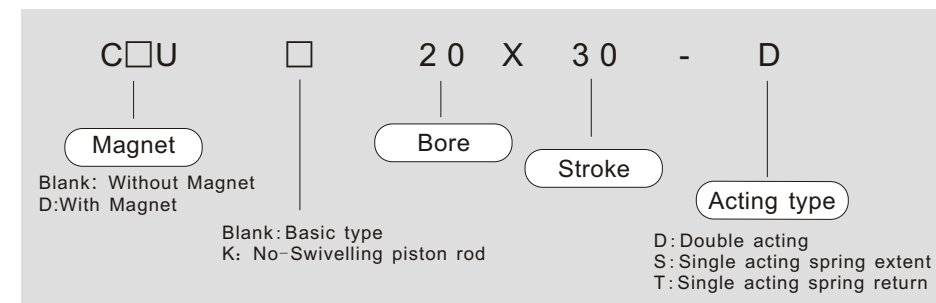
ACVU



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

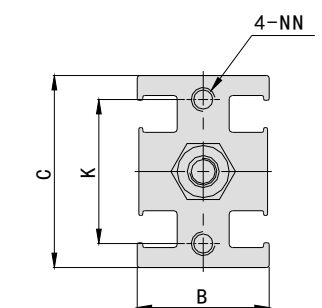
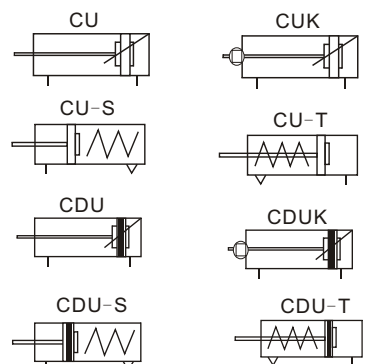
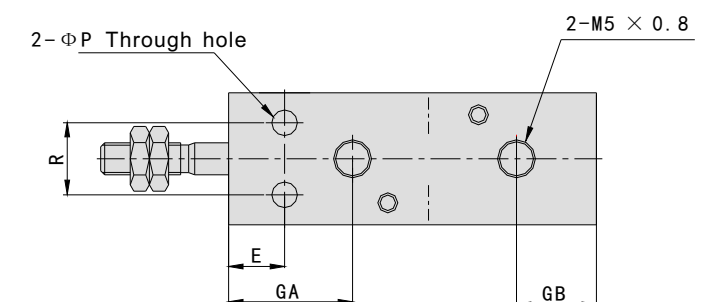
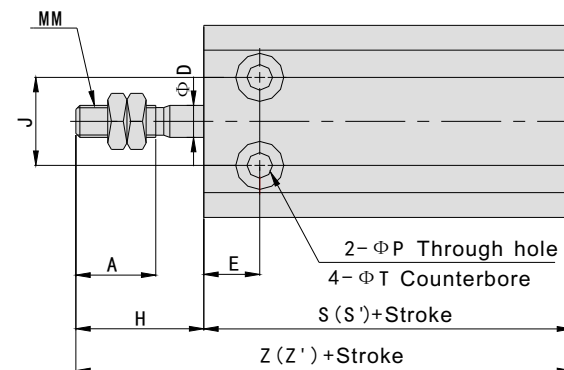


Specifications

Bore (mm)			6	10	16	20	25	32
Working medium			Clean air (40μm Filtration)					
Acting type			Double acting/Single acting					
Min. pressure (Mpa)	Double acting	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. pressure			0.7Mpa					
Working temperature			5~60℃					
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			M5X0.8					G1/8

Main Dimensions

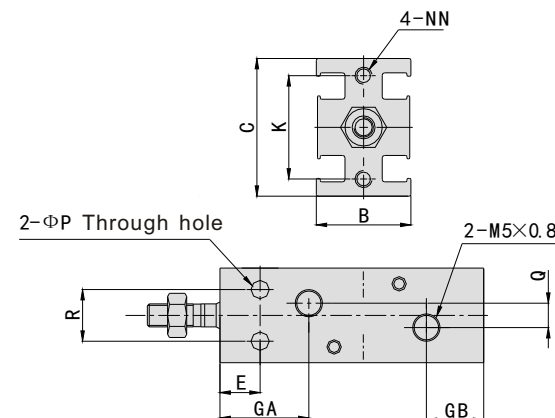
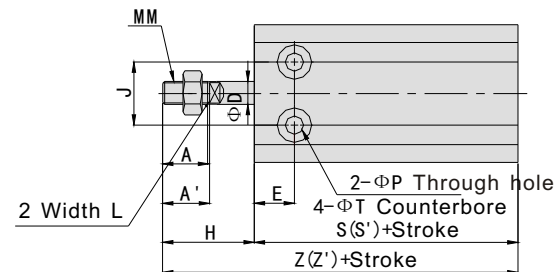
Φ6-Φ10



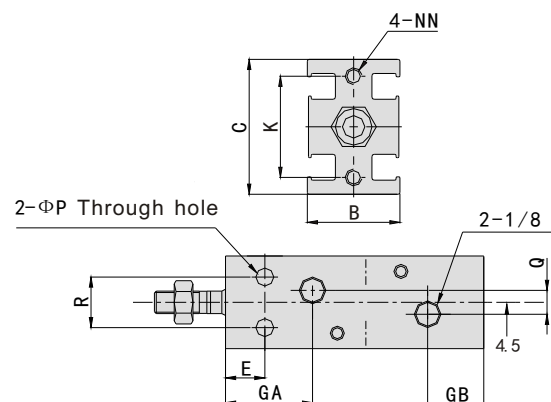
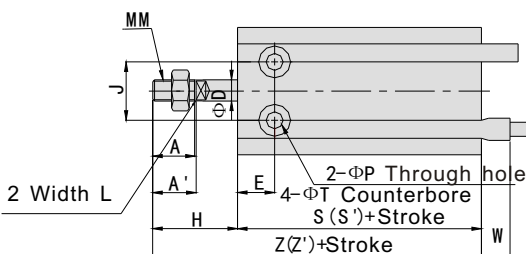
CU Series Free Installation Cylinder

Main Dimensions

Φ16-Φ25



Φ32



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	Z'
C□U6-□D	13	33	46	2.5	33
C□U10-□D	16	36	52	1	36
C□U16-□D	16	30	46	0	40
C□U20-□D	19	36	55	1	46
C□U25-□D	23	40	63	-1	50
C□U32-□D	27	42	69	-4	52

Single Acting (With spring Return)

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

Single Acting (With spring Extend)

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

TN Series Double-shaft Cylinder

Ordering Code TN Series Double-shaft Cylinder

TN	20	X	50	-	S
	Bore		Stroke		Magnet
					Blank: Without Magnet S:With Magnet

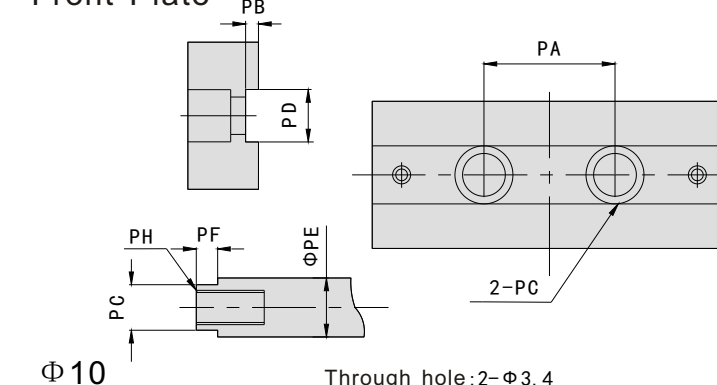


Specifications

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

Main Dimensions

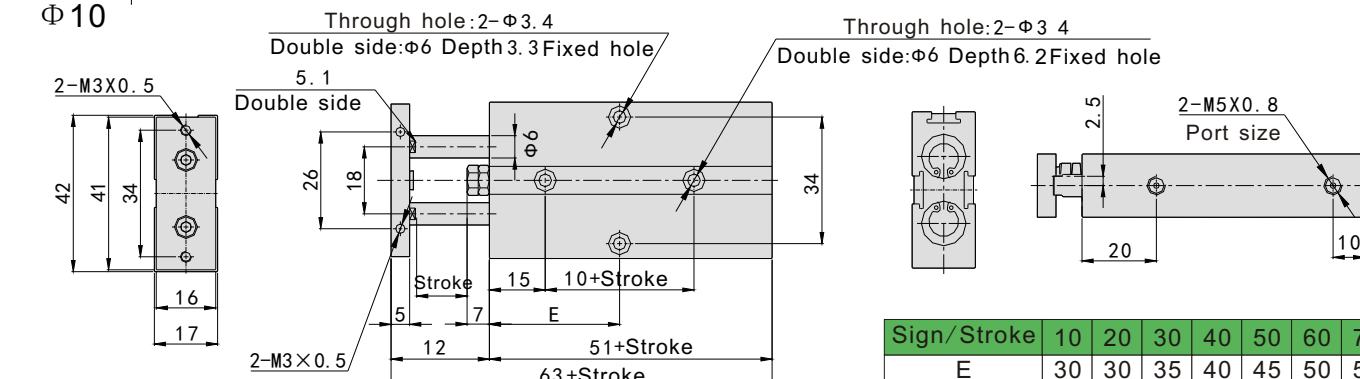
Front Plate



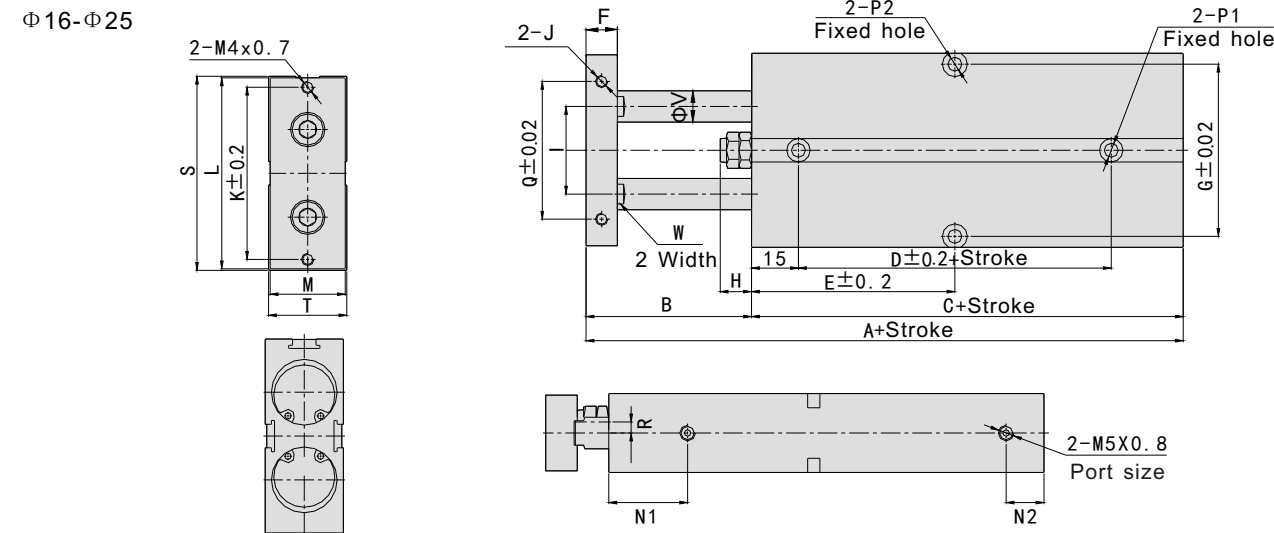
Bore/Sign	PA	PB	PC
10	18	0.7	Φ6.2X3.5Depth h Through hole: Φ3.3
16	24	1	Φ7.8X4.6Depth h Through hole: Φ4.3
20	28	1	Φ11X6.8Depth h Through hole: Φ6.5
25	34	1	Φ11X6.8Depth h Through hole: Φ6.5
32	42	2	Φ17X12Depth h Through hole: Φ10.5

Bore/Sign	PD	PE	PF	PG	PG
10	5.2	6	2.2	5.1	M3X0.5 Depth5.5
16	6.2	8	3	6.1	M4X0.7 Depth9
20	8.2	10	3	8.1	M6X1 Depth10
25	10.2	12	3	10.1	M6X1 Depth10
32	14.2	16	3	14.1	M10X1.5 Depth13

Φ10

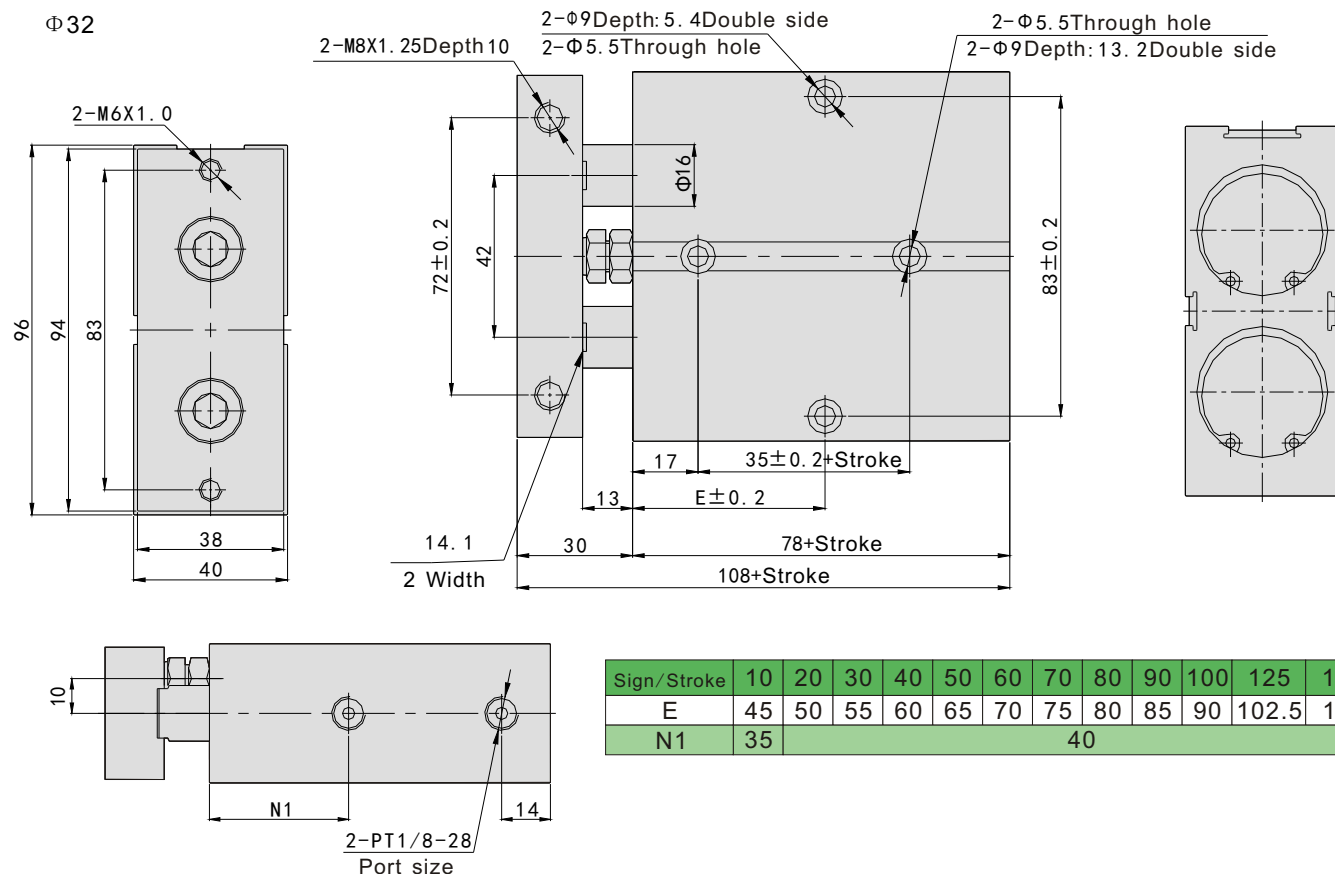


TN Series Double-shaft Cylinder



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: $\Phi 7.5$ Depth 7.2, Through hole: $\Phi 4.5$					Double side: $\Phi 8$ Depth 4.5mm, Through hole: $\Phi 4.5$					34	3	54	21	8	6.1
20	Double side: $\Phi 7.5$ Depth 7.2, Through hole: $\Phi 4.5$					Double side: $\Phi 8$ Depth 4.5mm, Through hole: $\Phi 4.5$					44	3.5	62	25	10	8.1
25	Double side: $\Phi 7.5$ Depth 7.2, Through hole: $\Phi 4.5$					Double side: $\Phi 8$ Depth 4.5mm, Through hole: $\Phi 4.5$					56	6	73	30	12	10.1



Sign/Stroke	10	20	30	40	50	60	70	80	90	100	125	150
E	45	50	55	60	65	70	75	80	85	90	102.5	115
N1	35	40										

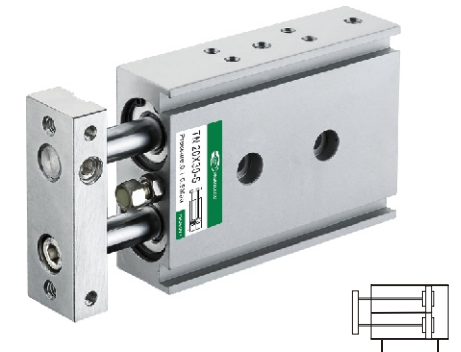
CXS Series Double-shaft Cylinder

Ordering Code CXS Series Double-shaft Cylinder

CXS M 20 X 50

Bearing Type Bore Stroke

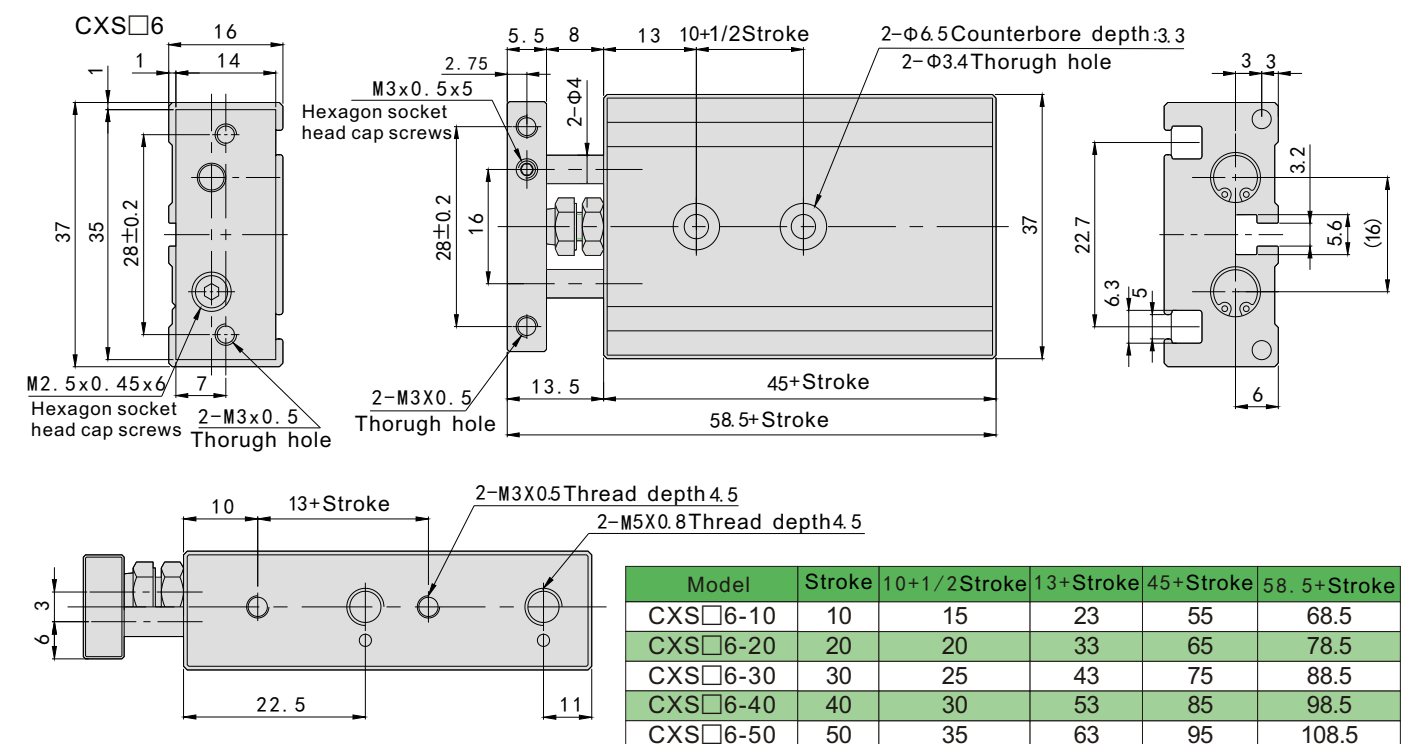
M: Slide bearing type
L: Ball bearing type



Specifications

Bore (mm)	6	10	15	20	25	32
Working medium	Clean air (25μm Filtration)					
Acting type	Double acting					
Working pressure range	0.1~1.0Mpa					
Guaranteed pressure	1.5Mpa					
Working temperature	-10~70℃					
Speed range	30~800mm/s					
Adjustable stroke	0~5mm					
Cushion type	Rubber Cushion					
No rotating accuracy	±0.2°	±0.15°			±0.1°	
Port size	M5X0.8				G1/8	

Main Dimensions

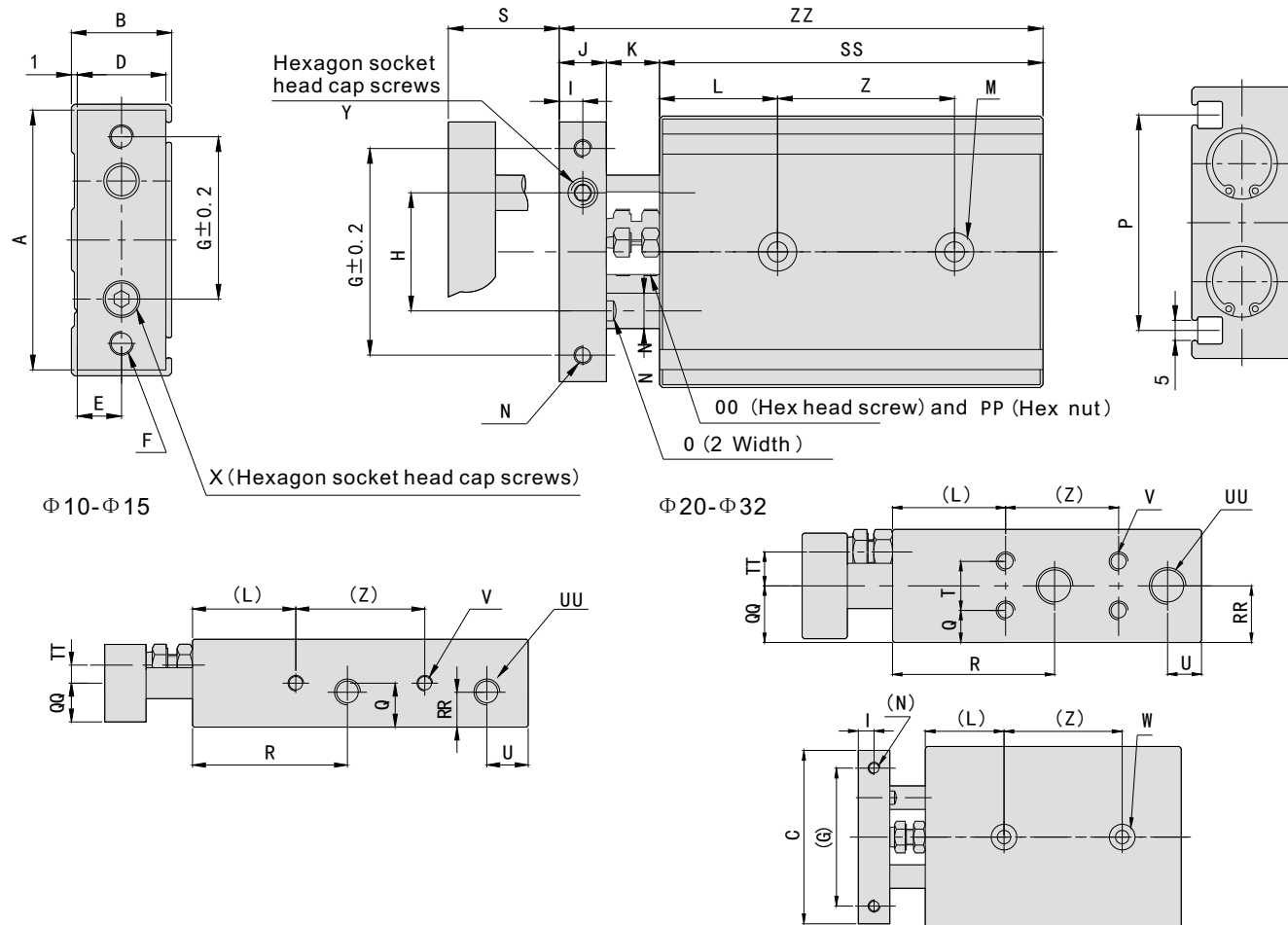


Model	Stroke	10+1/2Stroke	13+Stroke	45+Stroke	58.5+Stroke
CXS□6-10	10	15	23	55	68.5
CXS□6-20	20	20	33	65	78.5
CXS□6-30	30	25	43	75	88.5
CXS□6-40	40	30	53	85	98.5
CXS□6-50	50	35	63	95	108.5

CXS Series Double-shaft Cylinder

Main Dimensions

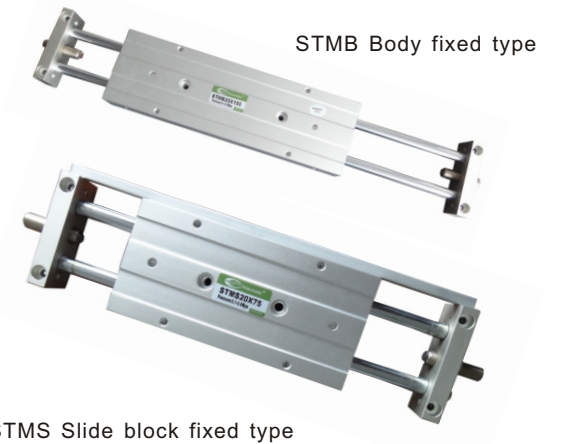
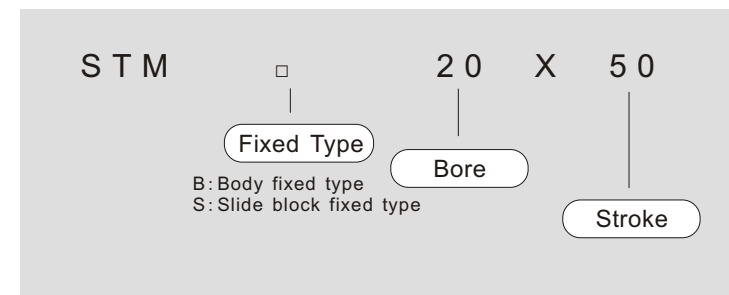
CXS□10 \ 15 \ 20 \ 25 \ 32



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-Φ3.4 Through hole	2-M3 x0.5 Thread depth 5			M4 x 0.7 x 14.5 L		M4 x 0.7					10 20 30 40 50	65 75 85 95 105				4-M5x0.8 Thread depth 4.5 (Port size)	4-M3x 0.5 Thread depth 4.5	2-M4 x0.7 Thread depth 7	M3 x 0.5 x 10 L	M3 x 0.5 x 5 L	30	82 92			
CXS□10-20						2-M4 x0.7 Through hole	35	20	4	8	9	20	2-Φ6.5 Counterbore 3.3					33.6										5	8							40	102	
CXS□10-30	46	17	44	15	7.5																															40	112	
CXS□10-40																																					40	122
CXS□10-50																																						
CXS□15-10													2-Φ4.3 Through hole	2-M4 x0.7 Thread depth 6			M4 x 0.7 x 14.5 L		M4 x 0.7					10 20 30 40 50	70 80 90 100 110				4-M5x0.8 Thread depth 4.5 (Port size)	4-M4x 0.7 Thread depth 5	2-M5 x0.8 Thread depth 8	M4 x 0.8 x 10 L	M5 x 0.7 x 4 L	25	89 99			
CXS□15-20						2-M5 x0.8 Through hole	45	25	5	10	9	30	2-Φ8 Counterbore 4.4															5	8								25	99
CXS□15-30	58	20	56	18	9													48			10	10	38.5	10	30 40 50	90 100 110											35	119
CXS□15-40																																					35	129
CXS□15-50																																						
CXS□20-10																																						
CXS□20-20																																						
CXS□20-30													2-Φ5.5 Through hole	2-M4 x0.7 Thread depth 6			M6 x 1.0 x 18.5 L		M6 x 1.0					20 30 40 50	90 100 110 120				4-M5x0.8 Thread depth 4.5 (Port size)	8-M4x 0.7 Thread depth 6	2-M6 x1.0 Thread depth 10	M6 x 1.0 x 12 L	M5 x 0.8 x 5 L	30	114 124 134 144			
CXS□20-40	64	25	62	23	11.5	2-M5 x0.8 Through hole	50	28	6	12	12	30	2-Φ9.5 Counterbore 5.3															9.5	6.5	8							60	169
CXS□20-50																																					60	179
CXS□20-75																																						
CXS□20-100																																						
CXS□25-10																																						
CXS□25-20													2-Φ6.9 Through hole	2-M5 x0.8 Thread depth 7.5			M6 x 1.0 x 18.5 L		M6 x 1.0					10 20 30 40 50	82 92 102 112 122				4-1/8 Thread depth 6.5 (Port size)	8-M5 x0.8 Thread depth 7.5	2-M8 x1.25 Thread depth 12	M6 x 1.0 x 14 L	M6 x 1.0 x 5 L	30	106 116 126 136			
CXS□25-30						2-M6 x1.0 Through hole	60	35	6	12	12	30	2-Φ11 Counterbore 6.3																								40	146
CXS□25-40	80	30	78	28	14																																40	156
CXS□25-50																																						
CXS□25-75																																						
CXS□25-100																																						
CXS□32-10																																						
CXS□32-20																																						
CXS□32-30													2-Φ6.9 Through hole	2-M5 x0.8 Thread depth 8			M8 x 1.25 x 23 L		M8 x 1.25					20 30 40 50	102 112 122 132				4-1/8 Thread depth 6.5 (Port size)	8-M5 x0.8 Thread depth 7.5	2-M8 x1.25 Thread depth 12	M8 x 1.25 x 16 L	M8 x 1.25 x 8 L	40	122 132 142 152			
CXS□32-40	98	38	96	36	18	2-M6 x1.0 Through hole	75	44	8	16	14	30	2-Φ11 Counterbore 6.3																								70	182
CXS□32-50																																						
CXS□32-75																																						
CXS□32-100																																						

STM Series Slide Cylinder

Ordering Code STM Series Slide Cylinder



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 (25μm Filtration)			
Acting type	Double acting			
Working pressure range	0.1~1.0Mpa			
Guaranteed pressure	1.5Mpa			
Working temperature	-20~70°C			
Speed range	30~500mm/s			
Stroke Tolerance	+1.0 mm			
Cushion type	Shock absorber (Optional)			
No-rotating accuracy	±0.1°		±0.05°	
Port size	M5X0.8			G1/8

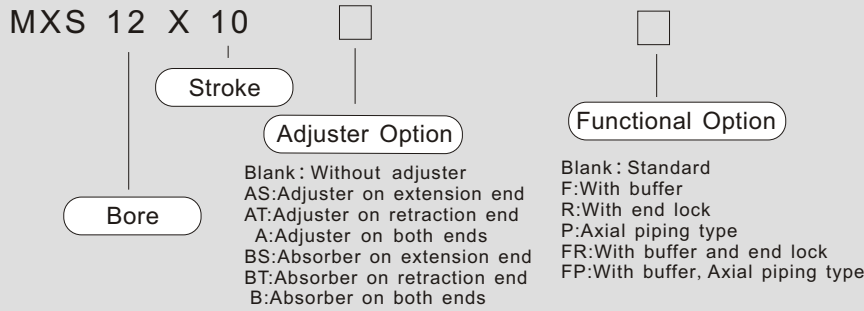
Stroke remark

Bore (mm)	Standard Stroke (mm)										Max. Stroke	Permit Stroke
10	25	50	75	100							100	150
16	25	50	75	100	125	150	175	200			200	250
20	25	50	75	100	125	150	175	200	250		250	300
25	25	50	75	100	125	150	175	200	250		250	300

Stroke/Sign	A	B	C	D	E
25	101	65	50	50	35
50	126	90	50	75	45
75	151	115	75	100	45
100	176	140	100	125	70
125	201	140	100	150	95
150	226	140	100	175	100
175	251	140	100	200	100
200	276	140	100	225	100
250	326	140	100	275	100

MXS Series Slide Cylinder

Ordering Code MXS Series Slide Cylinder

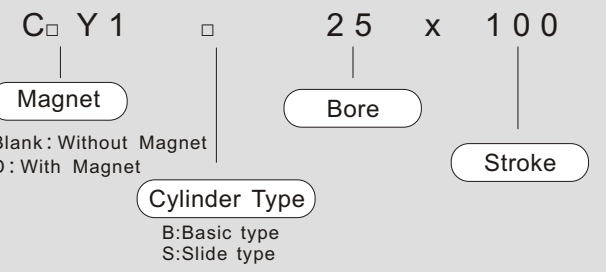


Specifications

Model	MXS 6	MXS 8	MXS 12	MXS 16	MXS 20	MXS 25
Bore (mm)	Φ6x2 (equal to Φ8)	Φ8x2 (equal to Φ11)	Φ12x2 (equal to Φ17)	Φ16x2 (equal to Φ22)	Φ20x2 (equal to Φ28)	Φ25x2 (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	-10~60°C					
Speed of piston	50~500mm/s					
Lubrication	No					
Cushion type	Rubber Cushion					
Port size	M3x0.5	M5x0.8			G1/8	

CY1 Series Rodless Cylinder

Ordering Code CY1 Series Rodless Cylinder

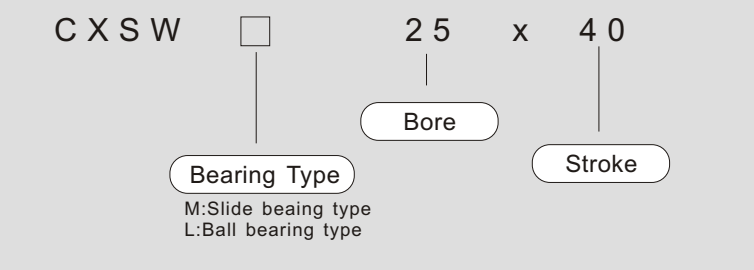


Bore (mm)	6	10	15	25	32	40	50	63
Acting type	Double acting							
Working medium	Clean air (40μm Filtration)							
Working temperature	-5~60°C							

Bore (mm)	6	10	15	25	32	40	50	63
Pressure range	0.18~0.71Mpa							
Guaranteed pressure	1.05Mpa							
Speed range	50~400mm/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

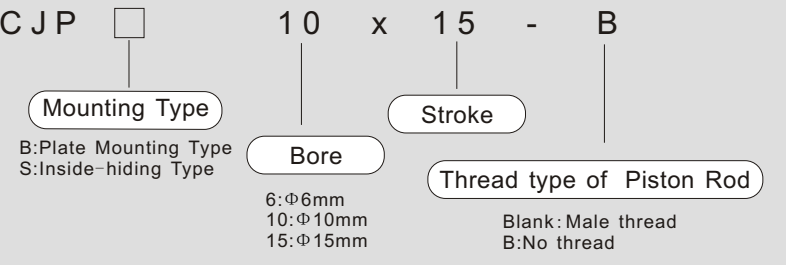


Specifications

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	-5~60℃					
Speed of piston	50~500mm/s					
Stroke adjustable Range	0~-10mm/s					
Port size	M5X0.8				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	0.2~0.7Mpa	0.15~0.7Mpa	
Max. pressure	1.05Mpa		

Bore (mm)	6	10	15
Working temperature	-5~60℃		
Stroke Tolerance	+1.0 0		
Port size	M5X0.8(Plate mounting type)		
Cushion type	No		

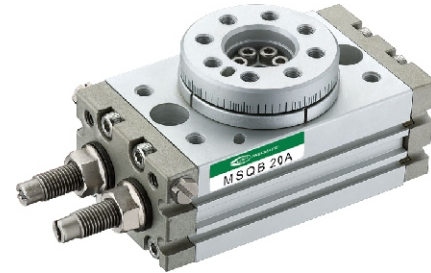
MSQ Series Rotary Table, Rack&Pinion Cylinder

Ordering Code MSQ Series Rotary Table, Rack&Pinion Cylinder

MSQ B 50 A

Basic Bore

A: With adjustable angle screw
R: With shock absorber



Specifications

Bore (mm)		10	20	30	50	70	100	200
Working medium		Clean air(40µm Filtration)						
Working pressure range		With adjustable angle screw: 0.1~1.0Mpa, With shock absorber: 0.1~0.6Mpa						
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	0.56J
	With shock absorber	0.039J	0.116J		0.294J	1.1J	1.6J	2.9J
Angle adjustable range		0~190°						
Steady swing time range		A	0.2~1.0s/90°			0.2~1.5s/90°	0.2~2.0s/90°	0.2~2.5s/90°
		R	0.2~0.7s/90°			0.2~1.0s/90°		
Piston diameter		Φ15	Φ18	Φ21	Φ25	Φ28	Φ32	Φ40
Port size		M5X0.8		G1/8				

RSQ Series Stopper Cylinder

Ordering Code RSQ Series Stopper Cylinder

RSQ B 50 X 15

Mounting Type Bore Stroke Acting Type Rod end Type

Magnet

Blank: Without Magnet
D: With Magnet

B: Through hole
A: Both ends female thred

D: Double acting
B: Single acting with spring return
T: Single acting spring extent

Blank: Cylindrical type
K: Flat type
R: Roller type
L: Level type with cushion



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 extent					
Rod end Type	Round bar、Flat bar、Roller	Round bar、Flat bar、Roller、Level、Lever Roller Type				
Guaranteed pressure	1.0Mpa					
Working temperature	No magnet: -10~70℃ With magnet: -10~60℃					
Cushion type	Both ends rubber cushion					
Port size	G1/8"					

MGP Series Three-shaft Cylinder

Ordering Code MGP Series Three-shaft Cylinder

MGP 25 x 40

Bearing Type Bore Stroke

M: Slide bearing type
L: Ball bearing type



Specifications

Bore (mm)		12	16	20	25	32	40	50	63	80	100
Working medium		Clean air (40µm Filtration)									
Acting type		Double acting									
Guaranteed pressure		1.5Mpa									
Working pressure range		0.12~1.0Mpa									
Bearing		Slide bearing/Ball bushing bearing									
Non-rotating accuacy	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		M5X0.8			G1/8			G 1/4		G3/8	

MHZ Series Style Air Cylinder

Ordering Code MHZ Series Style Air Cylinder

MHZ 2 25 D -

Finger Bore Acting type Dusty Seal Material

2: 2PCS

D: Double acting
S: Single Acting (N. O.)
C: Single Acting (N. C.)

Blank: CR
F: FKM
S: SI



Specifications

Bore (mm)		6	10	16	20	25	32	40
Working medium		Clean air(40μm Filtration)						
Working temperature		-10~60℃						
Working pressure range (Mpa)	Double Acting	0.15~0.7	0.2~0.7	0.1~0.7			0.1~0.7	
	Single Acting	0.3~0.7	0.35~0.7	0.25~0.7			0.25~0.7	
Repeatability		±0.01					±0.02	
Max. acting frequency		180c.p.m					60c.p.m	
Lubrication		Not Required						
Port size		M3X0.5		M5X0.8				

MHL Series Parallel Style Wide Opening Air Cylinder

Ordering Code MHL Series Parallel Style Wide Opening Air Cylinder

M H L 2 - 2 5 D

Finger 2:2PCS

Acting type D: Double acting

Finger Open/Close Stroke

Bore

Bore(mm)	Φ10	Φ16	Φ20	Φ25	Φ32	Φ40
Blank	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200



Specifications

Bore (mm)	10	16	20	25	32	40
Working medium	Clean air(40μm Filtration)					
Guaranteed pressure	0.6Mpa					
Min. Working pressure	0.15Mpa	0.1Mpa				
Working temperature	-10~60℃					
Repeatability	±0. 1mm					
Effective gripping force (N. M)	14	45	74	131	228	396
Port size	M5X0.8				G1/8	

MHT Series Angle Style Air Gripper Toggle Type

Ordering Code MHT Series Angle Style Air Gripper Toggle Type

M H T 2 - 3 2 D

Finger 2:2PCS

Acting type D: Double acting

Bore



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	-10~60°C			
Lubrication	Not Required			
Finger Open/Close Angle	-3~28°	-3~27°	-2~23°	-2~23°
Effective gripping force (N. M)	12.4	36.0	63.0	106

Special Cylinder

Special Cylinder

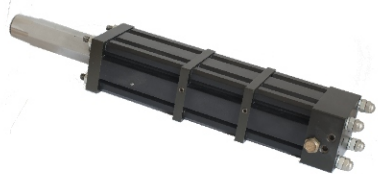
VPC have their new product development team, responsible for product design and development. For the R&D department set up a high level of structural engineer team. Each product as per the drawings to after repeated demonstration structural engineers, product managers, and customer's final confirmation.

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.



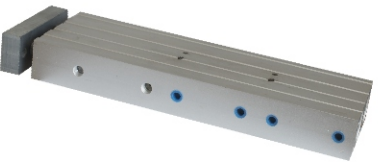
VQAL32x50-50



VPC50x100-GB



VPC80x500-63x450



TN/CXS Series
Multy Force
Pneumatic Cylinder
Φ20~Φ32






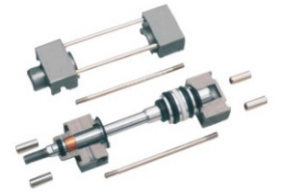
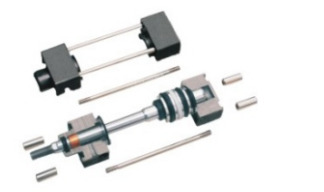

MA Series
Full Stainless Steel
Pneumatic Cylinder
Φ16~Φ50



SC Series
Full Stainless Steel
Pneumatic Cylinder
Φ32~Φ63

Cylinder Assembly Kits

Full Set Kits



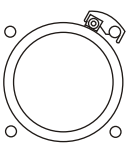



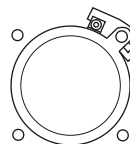



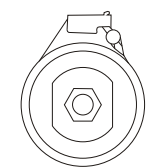



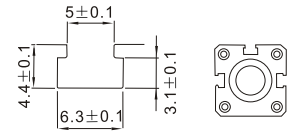


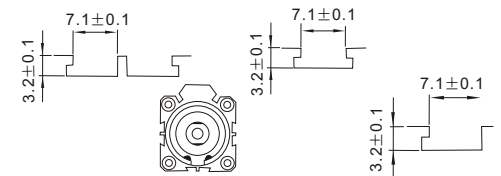


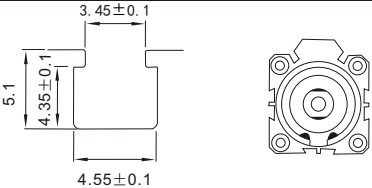


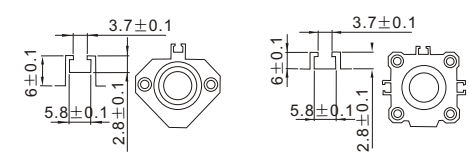


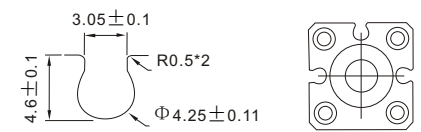
		
DNC (ISO6431&VDMA24562) Bore Side: $\Phi 32$, $\Phi 40$, $\Phi 50$, $\Phi 63$, $\Phi 80$, $\Phi 100$, $\Phi 125$	MI (ISO6432) Bore Side: $\Phi 8$, $\Phi 10$, $\Phi 12$, $\Phi 16$, $\Phi 20$, $\Phi 25$, $\Phi 32$	MAL Bore Side: $\Phi 16$, $\Phi 20$, $\Phi 25$, $\Phi 32$, $\Phi 40$
		
SI (ISO6431) Bore 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: $\Phi 32$, $\Phi 40$, $\Phi 50$, $\Phi 63$, $\Phi 80$, $\Phi 100$, $\Phi 125$, $\Phi 160$, $\Phi 200$
		
MA/MI Tube (ISO6432) Stainless Steel Tube Bore Side: $\Phi 16$, $\Phi 20$, $\Phi 25$, $\Phi 32$, $\Phi 40$	MAL Aluminum Tube Bore Side: $\Phi 16$, $\Phi 20$, $\Phi 25$, $\Phi 32$, $\Phi 40$	Piston Rod (45# Steel Chrome-plated) Diameter: $\Phi 4$, $\Phi 5$, $\Phi 6$, $\Phi 8$, $\Phi 10$, $\Phi 12$, $\Phi 16$, $\Phi 20$, $\Phi 25$, $\Phi 32$, $\Phi 40$, $\Phi 45$, $\Phi 50$, $\Phi 60$, $\Phi 70$, $\Phi 80$, etc.

Magnet Switches

Main Dimensions

Cylinder	Magnet Switches	Mounting	Clamp
	CSI-U 		 PAM - 63 Item Code Bore Size
	CSI-F 		 PI - 63 Item Code Bore Size
	CSI-S 		 BK Band
	CSI-M 		No Need Clamp
	CSI-J 		No Need Clamp
	CSI-G 		No Need Clamp
	CSI-J1 		No Need Clamp
	CSI-H 		No Need Clamp