

VPC PNEUMATIC®

VPC PNEUMATIC®



2017-1

VPC PNEUMATIC®

NINGBO VPC PNEUMATIC CO., LTD

Address: No. 99 ShanShan Road,
Wangchun Industrial Zone, Ningbo, China
Tel: 0086-574-28872277
0086-574-28872278

Fax: 0086-574-87485153

E-mail: sales@vpc-pneumatic.com
<http://www.vpc-pneumatic.com>
<http://www.vpc-pneumatic.cn>

CE RoHS





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.

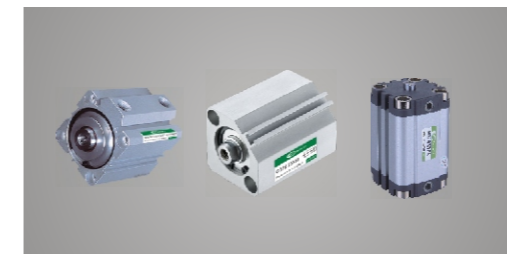
Above, coupled with close connection with customers' requirements, enables us to manufacture and make good valve, high quality products and to operate successfully around the world. As natural result of such policy VPC has been recognized to be in compliance with the requirements as provided for the 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

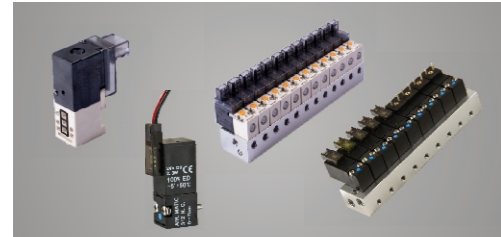


Pneumatic Cylinder



| | |
|--|-----|
| 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



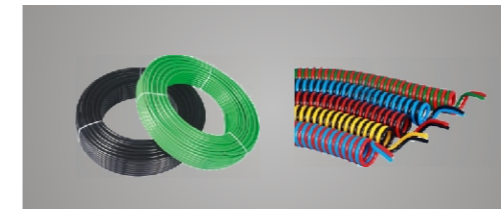
| | |
|--|-----|
| Technical Data 5 (Valve body seal material selection list) | 118 |
| Technical Data 6..... | 119 |
| Technical Data 7..... | 120 |
| SLP Series Valve (Normal Close) | 121 |
| SLP Series Valve (Normal Open) | 124 |
| ZS Series Valve (Normal Close) | 126 |
| ZS Series Valve (Normal Open) | 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

| | | |
|----------|--------|----|
| 1 lb | =453.6 | g |
| 1 cwt | =50.8 | Kg |
| 1 UK ton | =1016 | Kg |
| 1 US ton | =907.2 | Kg |
| 1 ton | =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

| | | |
|---------------------|----------------------------------|----------------------------------|
| 1 psi | =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 Kg m | =9.807 | J |
| 1 Kw h | =3.6 | MJ |

Force Measure

| | | |
|-----------------|-------|----|
| 1 lbf | =4.45 | N |
| 1 Kg f | =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 Kg f m/sec | =9.807 | W |
| 1 N m/sec | =1 | W |
| 1 Joule/sec | =1 | W |
| 1 H. P. (IMP) | =745.7 | W |

Cylinder

User Manual

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

Caution

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

Maintenance

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

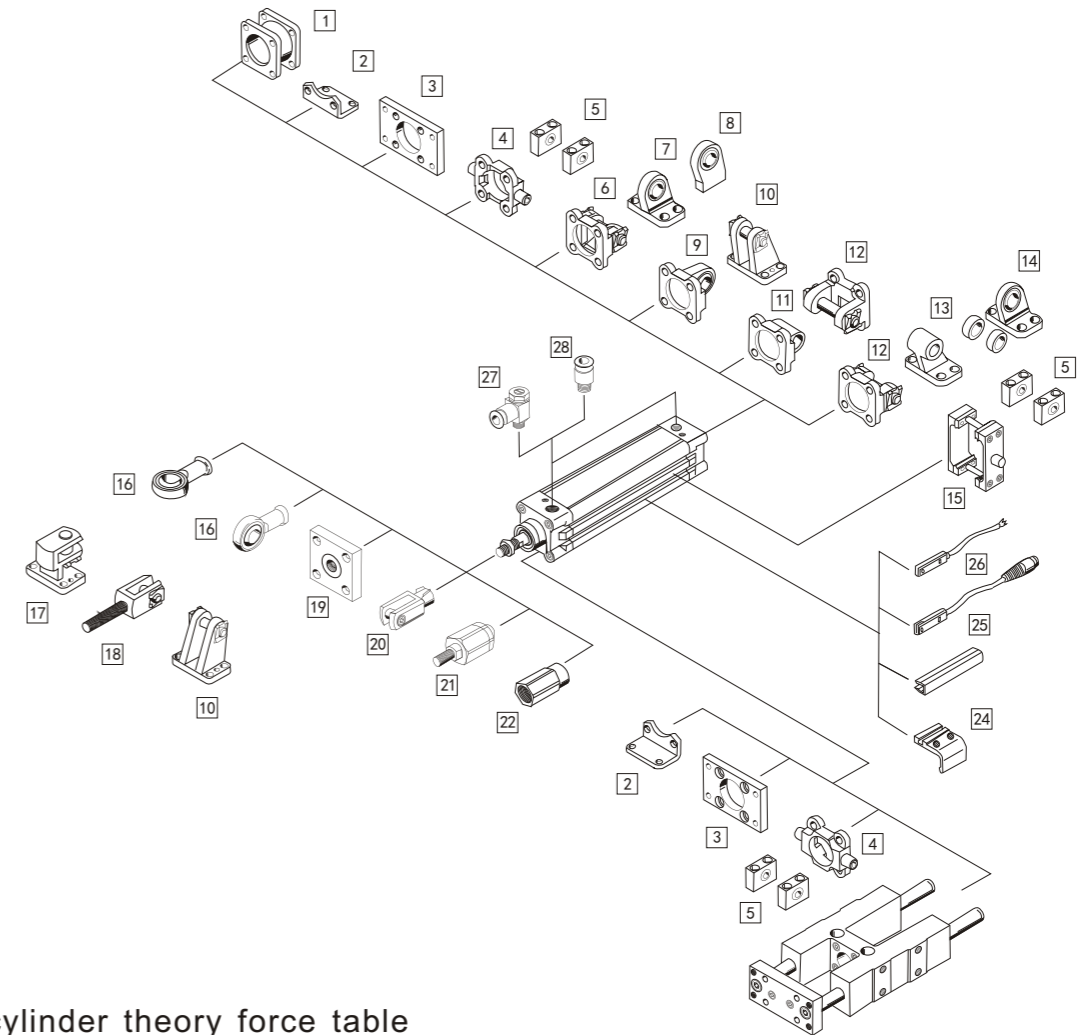
Tips

1. Cylinder can be caused by using the cylinder in the large inertia of the super-permitted range.
2. Please do not beat the cylinder, resulting in injuries, which well cause the cause of bad action.
3. Please install in the horizontal plane, if the installation surface is uneven, may cause the cylinder is 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

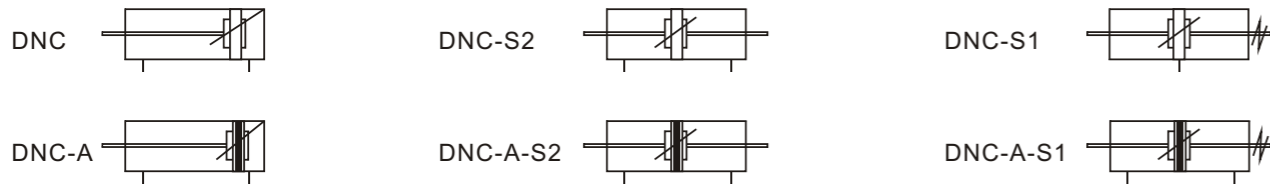
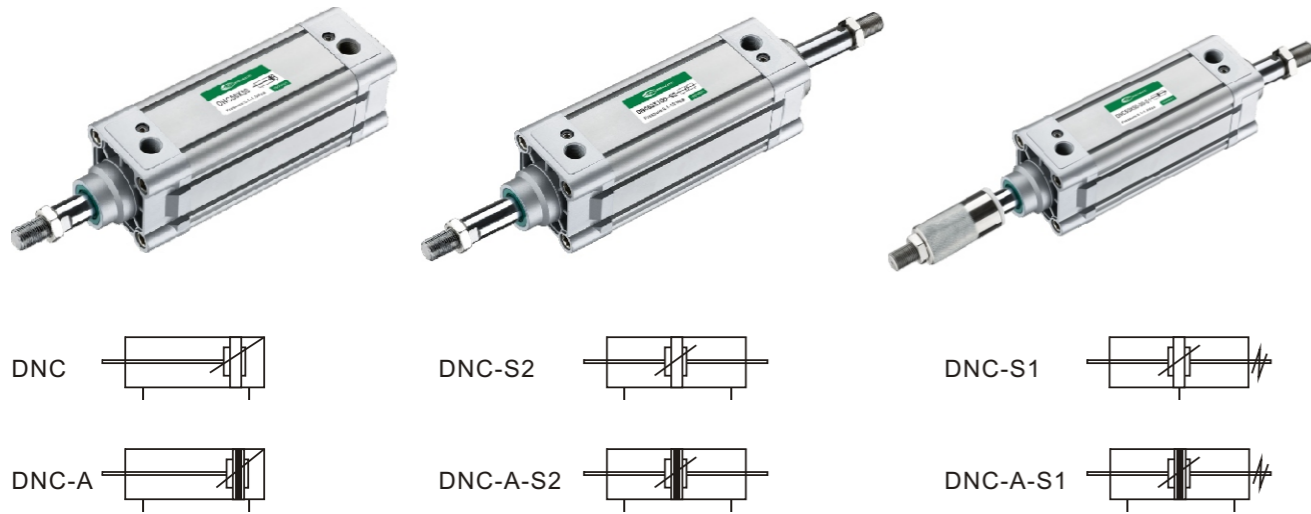
■ Cylinder Peripheral Component



■ Air cylinder theory force table

| Bore (mm) | OD of rod (mm) | Acting type | Actual working area(mm ²) | Working pressure(Mpa) | | | | | | | | | |
|-----------|----------------|---------------|---------------------------------------|-----------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 32 | 12 | Double acting | Push force | 804 | 80.4 | 160.8 | 241.2 | 321.6 | 402.0 | 482.4 | 562.8 | 643.2 | 723.6 |
| | | Pull force | 690 | 69.0 | 138.0 | 207.0 | 276.0 | 345.0 | 414.0 | 483.0 | 552.0 | 621.0 | |
| 40 | 16 | Double acting | Push force | 1256 | 125.6 | 251.2 | 376.8 | 502.4 | 628.0 | 753.6 | 879.2 | 1002.4 | 1130.4 |
| | | Pull force | 1055 | 105.5 | 211.0 | 316.5 | 422.0 | 527.5 | 633.0 | 738.5 | 844.0 | 949.5 | |
| 50 | 20 | Double acting | Push force | 1963 | 196.3 | 392.6 | 588.9 | 785.2 | 981.5 | 1177.8 | 1374.1 | 1570.4 | 1766.7 |
| | | Pull force | 1649 | 164.9 | 329.8 | 494.7 | 659.6 | 824.5 | 989.4 | 1154.3 | 1399.2 | 1484.1 | |
| 63 | 20 | Double acting | Push force | 3117 | 311.7 | 623.4 | 935.1 | 1246.8 | 1558.5 | 1870.2 | 2181.9 | 2493.6 | 2805.3 |
| | | Pull force | 2803 | 280.3 | 560.6 | 840.9 | 1121.2 | 1401.5 | 1681.8 | 1962.1 | 2242.4 | 2522.7 | |
| 80 | 25 | Double acting | Push force | 5026 | 502.6 | 1005.2 | 1507.8 | 2010.4 | 2513.0 | 3015.6 | 3518.2 | 4020.8 | 4523.4 |
| | | Pull force | 4536 | 453.6 | 907.2 | 1360.8 | 1814.4 | 2268.0 | 2721.6 | 3175.2 | 3628.8 | 4082.4 | |
| 100 | 25 | Double acting | Push force | 7853 | 785.3 | 1570.6 | 2355.9 | 3141.2 | 3926.5 | 4711.8 | 5497.1 | 6282.4 | 7067.7 |
| | | Pull force | 7362 | 736.2 | 1472.4 | 2208.6 | 2944.8 | 3681.0 | 4417.2 | 5153.4 | 5889.6 | 6625.8 | |
| 125 | 32 | Double acting | Push force | 12272 | 1227.2 | 2454.4 | 3681.6 | 4908.8 | 6136.0 | 7363.2 | 8590.4 | 9817.6 | 11044.8 |
| | | Pull force | 11468 | 1146.8 | 2293.6 | 3440.4 | 4587.2 | 5734.0 | 6880.8 | 8027.6 | 9174.4 | 10321.2 | |
| 160 | 40 | Double acting | Push force | 20106 | 2010.6 | 4021.2 | 6031.8 | 8042.4 | 10053.0 | 12063.6 | 14074.2 | 16084.8 | 18095.4 |
| | | Pull force | 18849 | 1884.9 | 3769.8 | 5654.7 | 7539.6 | 9424.5 | 11309.4 | 13194.3 | 15079.2 | 16964.1 | |
| 200 | 40 | Double acting | Push force | 31416 | 3141.6 | 6283.2 | 9424.8 | 12566.4 | 15708.0 | 18849.6 | 21991.2 | 25132.8 | 28274.4 |
| | | Pull force | 30157 | 3015.7 | 6031.4 | 9047.1 | 12062.8 | 15078.5 | 18094.2 | 21109.9 | 24125.6 | 27141.3 | |

DNC Series ISO6431 Standard Cylinder



Ordering Code DNC Series ISO6431 Standard Cylinder

DNC **32** **X** **50** - **20** - **PPV** - **A** - **S2**

Series Code Bore Stroke Adjustable Stroke Cushion Magnet Type

DNC: Basic type
 FNC: Front Rear Plate Mounting
 ZNCF: Centre Trunnion Mounting
 SNCB: Single Trunnion Mounting
 SNCL: Double Trunnion Mounting

10: 10mm
 20: 20mm
 30: 30mm
 40: 40mm
 50: 50mm
 75: 75mm
 100: 100mm

Blank: No Cushion
 PPV: With Cushion

Blank: Without Magnet
 A: With Magnet

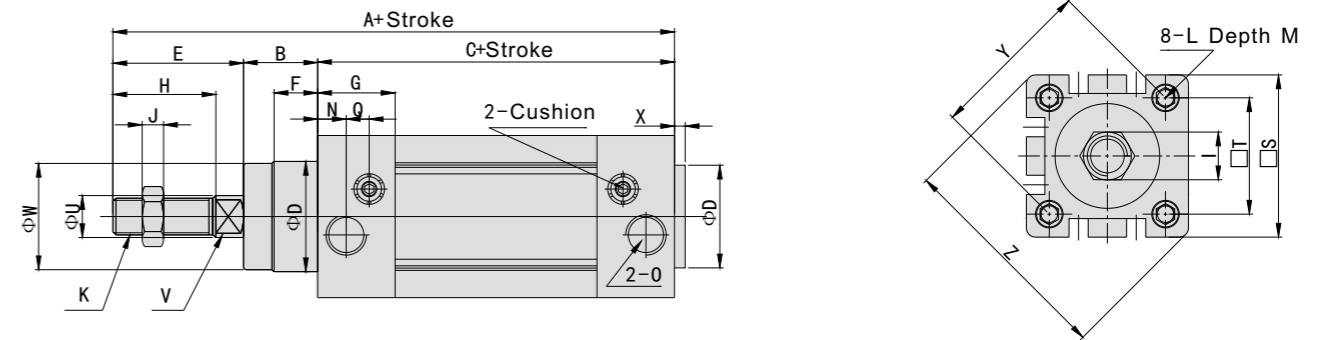
Blank: Standard Cylinder
 S1: Double-shaft, adjustable stroke type
 S2: Double-shaft type

Specifications

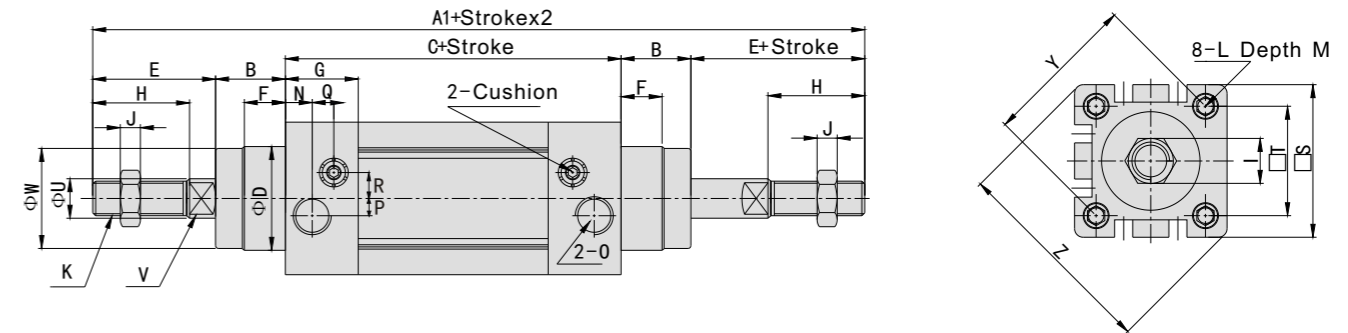
| | | | | | | | |
|------------------------|---|------|------|------|------|-----|-----|
| Bore (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Acting type | Double acting | | | | | | |
| Working medium | Clean air (40µm Filtration) | | | | | | |
| Mounting type | DNC Series Basic type FA FB CA CB CR LB 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°C | | | | | | |
| 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

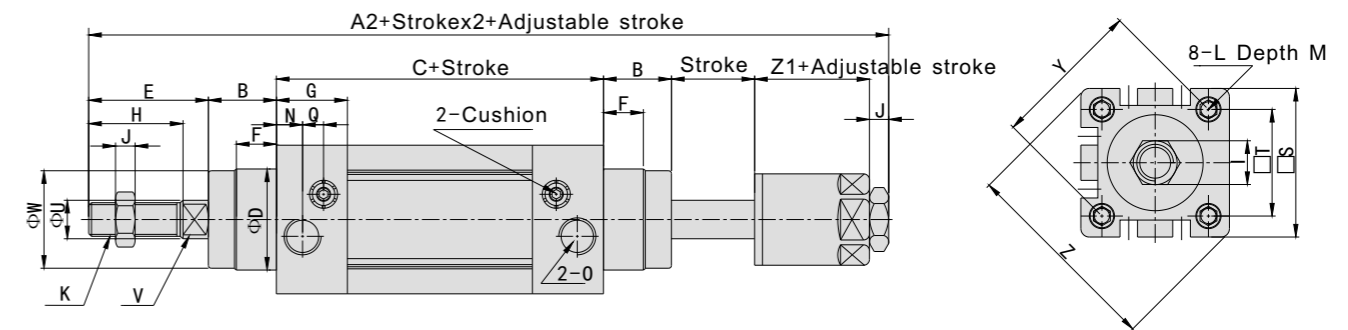
Main Dimensions
DNC Basic type



DNC-S2 Double shaft type



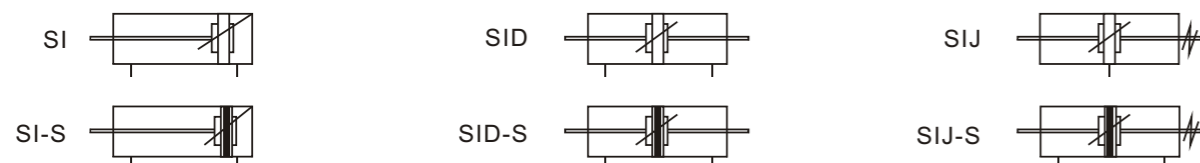
DNC-S1 Double shaft adjustable stroke type



| 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
SID: Double-shaft type
SIJ: Double-shaft, adjustable stroke type

Blank: Without Magnet
S: With Magnet

Adjustable Stroke:
10: 10mm
20: 20mm
30: 30mm
40: 40mm
50: 50mm
75: 75mm
100: 100mm

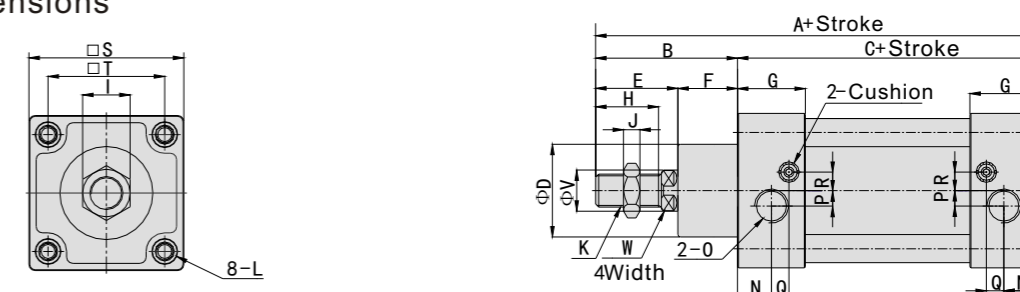
Blank: Standard Cylinder
LB: Leg mounting
FA: Front rear plate mounting
FB: Front rear plate mounting
CA: Single trunnion mounting
CB: Double trunnion mounting
CR: Double trunnion with Hinge mounting
TC: Centre trunnion mounting

Specifications

| | | | | | | | | | |
|------------------------|--|--|------|------|------|-----|-----|-----|-----|
| Bore (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
| Acting type | Double acting | | | | | | | | |
| Working medium | Clean air (40µm Filtration) | | | | | | | | |
| Mounting type | 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°C | | | | | | | | |
| 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 | | | | |

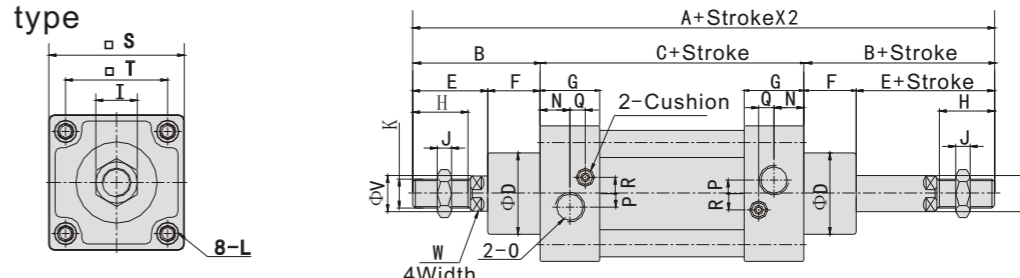
Main Dimensions

Basic type



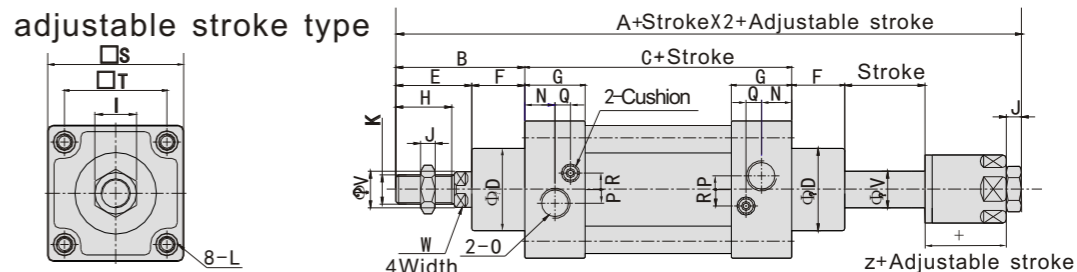
| Bore | Sign | A | B | C | D | E | F | G | H | I | J | K | L | N | O | P | Q | R | S | T | V | W |
|------|------|-----|-----|-----|----|-----|----|----|----|----|------|----------|-----|------|------|------|-----|------|-----|------|----|----|
| 32 | | 142 | 48 | 94 | 30 | 32 | 16 | 28 | 22 | 17 | 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

SI - 50 - FA

Bore Brackets type

LB: Leg mounting
FA: Front plate mounting
FB: Rear plate mounting
CA: Single trunnion mounting
CB: Double trunnion mounting
CR: Double trunnion with hinge mounting
TC: Centre trunnion mounting

Y: Y fitting
I: I fitting
F: Floating fitting
B: Bearing fitting

ISO 6431 Standard

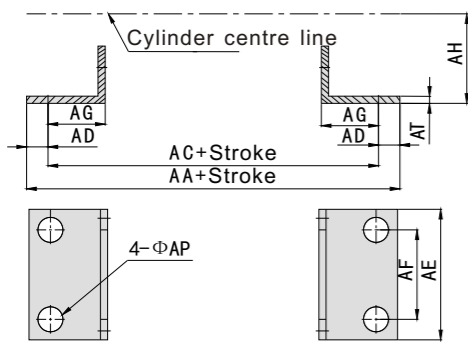
Note: ISO standard accessories, only suitable for DNC, SI etc ISO6431 series standard cylinder.

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 | | ● | ● | ● |

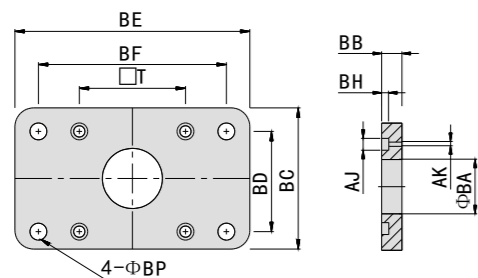
Main Dimensions

LB



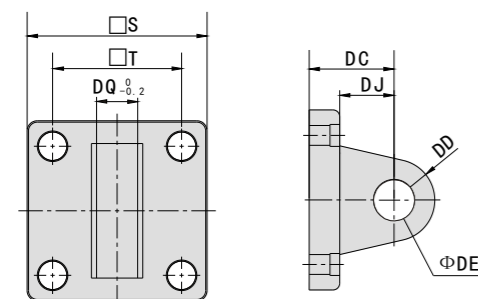
| Sign | Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AA | | 158 | 179 | 190 | 209 | 248 | 258 | 290 | 340 | 380 |
| AC | | 142 | 161 | 170 | 185 | 210 | 220 | 250 | 300 | 320 |
| AD | | 8 | 9 | 10 | 12 | 19 | 19 | 20 | 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

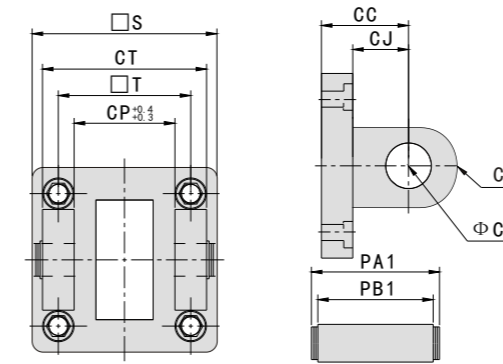


| Sign | Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------|------|------|------|------|------|------|------|------|------|------|
| S | | 47 | 53 | 65 | 75 | 95 | 115 | 140 | 180 | 220 |
| T | | 32.5 | 38 | 46.5 | 56.5 | 72 | 89 | 110 | 140 | 175 |
| DC | | 22 | 25 | 27 | 32 | 36 | 41 | 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

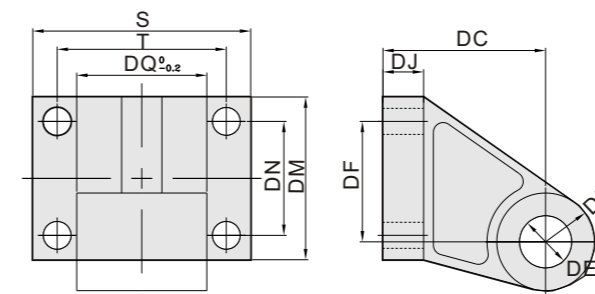
Main Dimensions

CB



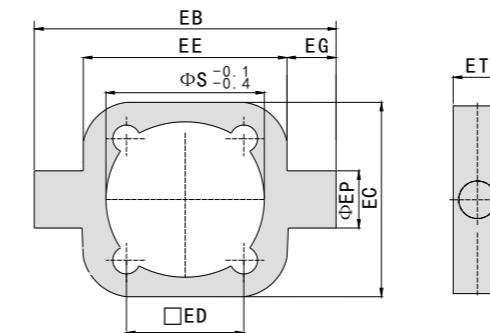
| Sign | Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------|------|------|------|------|------|------|-------|-------|-------|-------|
| CC | | 22 | 25 | 27 | 32 | 36 | 41 | 50 | 55 | 60 |
| CD | | 9 | 12 | 12 | 15 | 15 | 20 | 25 | 30 | 30 |
| CE | | 10 | 12 | 12 | 16 | 16 | 20 | 25 | 30 | 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



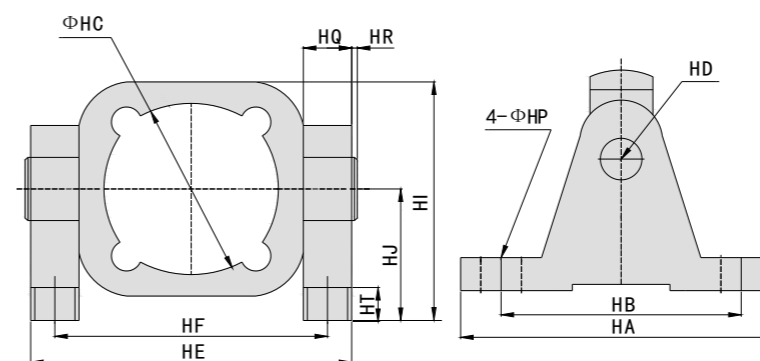
| Sign | Bore | S | T | DC | DD | DE | DF | DJ | DQ | DM | DN |
|------|------|----|------|------|------|----|------|------|------|----|----|
| 32 | | 51 | 38 | 32 | 10 | 10 | 21 | 8 | 26 | 31 | 18 |
| 40 | | 54 | 41 | 36 | 11 | 12 | 24 | 9 | 28 | 35 | 22 |
| 50 | | 65 | 50 | 57 | 13 | 12 | 33 | 12 | 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

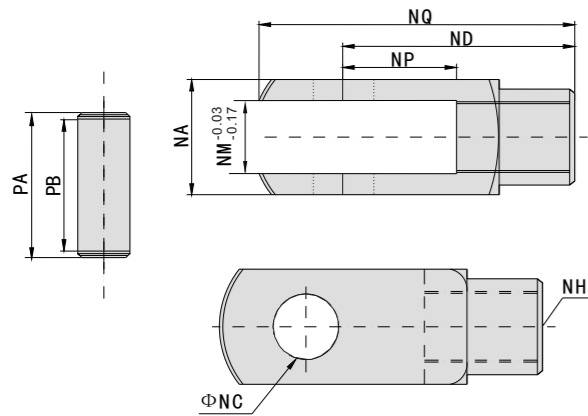


| Sign | Bore | 32 | 40 | 50 | 63 | 80 | 100 |
|------|------|------|------|-----|-----|-----|-----|
| HA | | 110 | 110 | 110 | 120 | 120 | 120 |
| HB | | 80 | 80 | 80 | 80 | 80 | 80 |
| HC | | 36 | 45 | 55 | 58 | 86 | 106 |
| HD | | 22 | 22 | 22 | 22 | 22 | 22 |
| HE | | 96 | 109 | 121 | 136 | 156 | 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 |

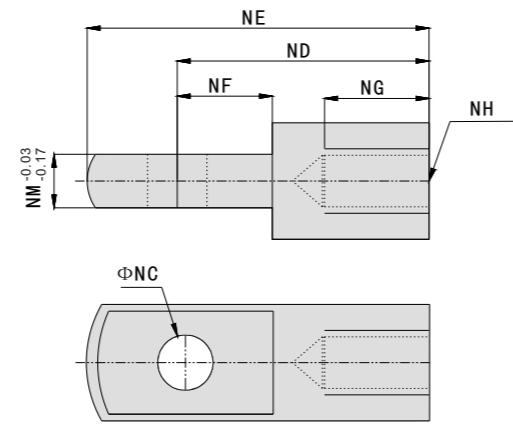
DNC/SI ISO6431 Standard Cylinder Brackets

Main Dimensions

Y Fitting

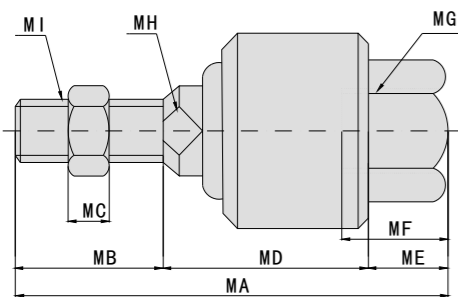


I Fitting



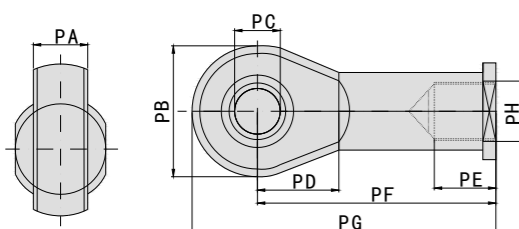
| Bore | Sign | NA | NC | ND | NE | NG | NF | NH | NM | NP | NQ | PA | PB |
|------|------|------|----|-----|-----|----|----|----------|----|----|-----|------|------|
| 32 | | 19 | 10 | 40 | 52 | 20 | 15 | M10X1.25 | 10 | 20 | 52 | 26.2 | 20 |
| 40 | | 25.4 | 12 | 48 | 67 | 20 | 24 | M12X1.25 | 12 | 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



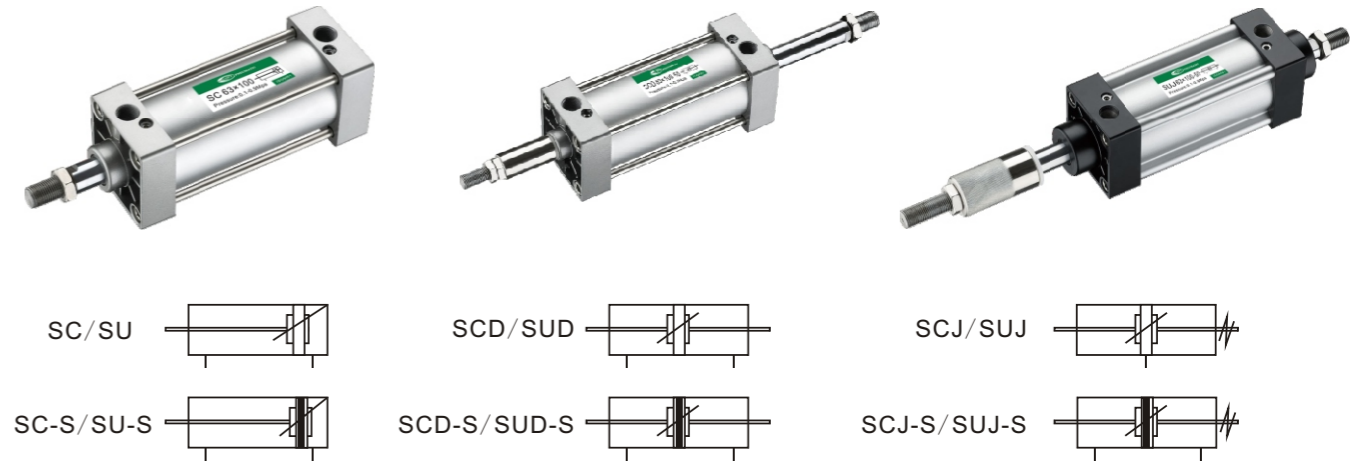
| Bore | Sign | MA | MB | MC | MD | ME | MF | MG | MH | MI |
|------|------|-----|----|------|-----|----|----|----------|----|----------|
| 32 | | 73 | 20 | 6 | 45 | 8 | 26 | M10X1.25 | 12 | M10X1.25 |
| 40 | | 77 | 24 | 7 | 46 | 7 | 26 | M12X1.25 | 12 | M12X1.25 |
| 50 | | 106 | 32 | 8 | 62 | 12 | 34 | 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 | M16X1.5 |
| 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

SC 50 X 50 - S - 20 - LB

Series Code: SC (Standard cylinder), SCD (Double-shaft type), SCJ (Double-shaft, adjustable stroke type), SU (Standard cylinder), SUD (Double-shaft type), SUJ (Double-shaft, adjustable stroke type)

Bore: 50

Stroke: 50

Magnet: S (With Magnet), Blank (Without Magnet)

Adjustable Stroke: 10:10mm, 20:20mm, 30:30mm, 40:40mm, 50:50mm, 75:75mm, 100:100mm

Mounting type: 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)

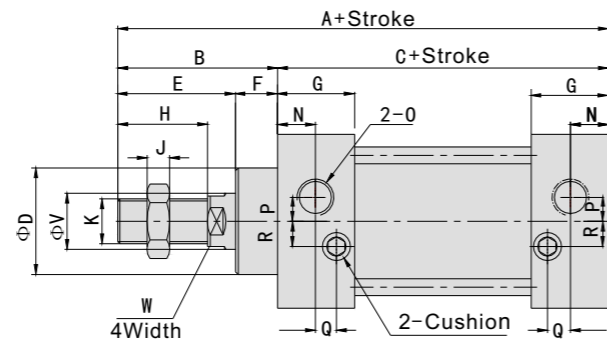
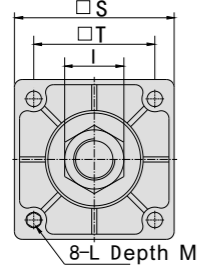
Specifications

| 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°C | | | | | | | | |
| 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 | | | | |

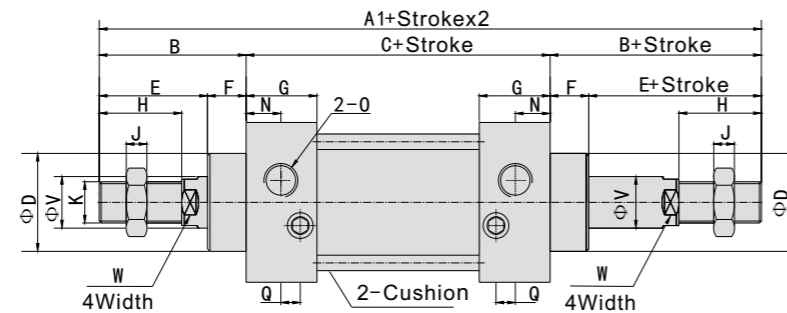
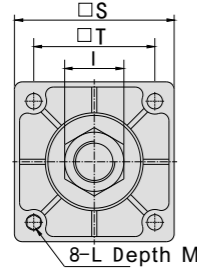
SC/SU Series Standard Cylinder

Main Dimensions

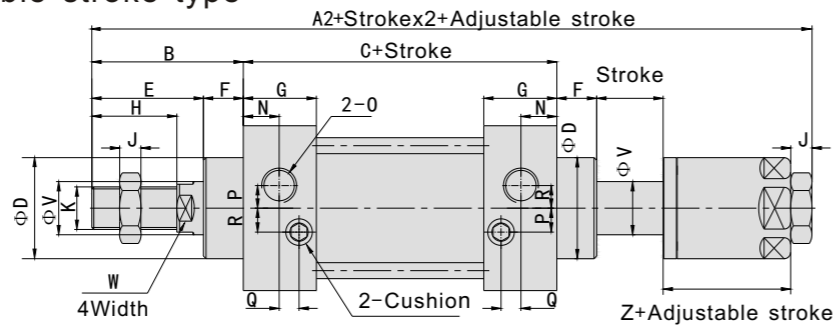
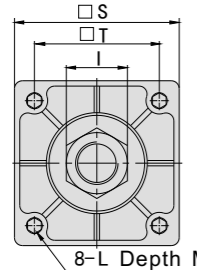
SC Basic type



SCD Double shaft type



SCJ Double shaft adjustable stroke type



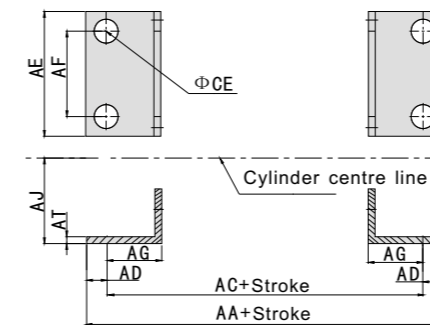
| Bore | Sign | A | A1 | A2 | B | C | D | E | F | G | H | I | J | K |
|------|------|-----|-----|-----|-----|-----|----|-----|----|------|----|----|----|----------|
| 32 | | 140 | 187 | 182 | 47 | 93 | 28 | 32 | 15 | 27.5 | 22 | 17 | 6 | M10X1.25 |
| 40 | | 142 | 191 | 185 | 48 | 93 | 32 | 34 | 15 | 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 | / |

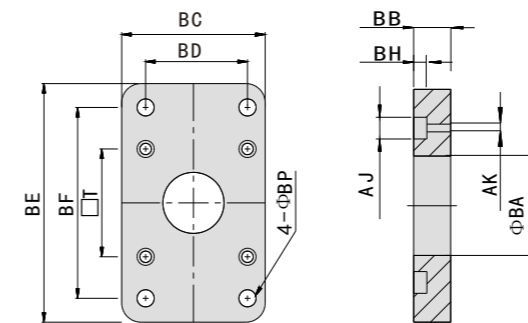
SC/SU Series Standard Cylinder Brackets

Main Dimensions

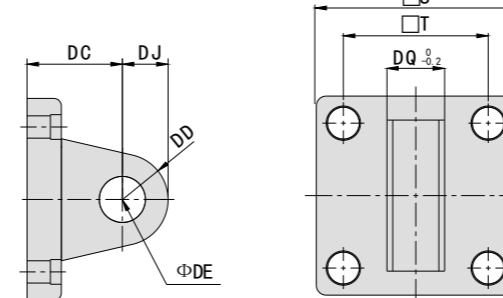
LB



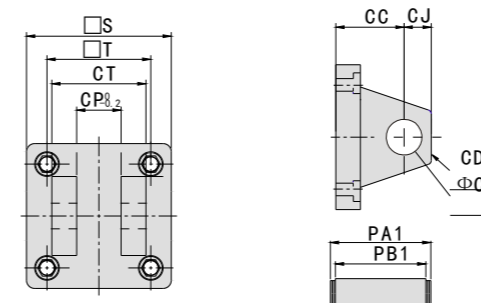
FA/FB



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 |

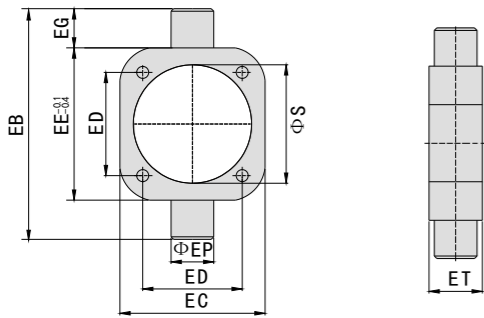
| Sign | Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------|------|----|----|----|----|----|-----|-----|-----|-----|
| S | | 48 | 50 | 62 | 75 | 94 | 112 | 140 | 180 | 220 |
| T | | 33 | 37 | 47 | 56 | 70 | 84 | 110 | 140 | 175 |
| DC | | 34 | 34 | 34 | 34 | 48 | 48 | 50 | 55 | 60 |
| DD | | 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

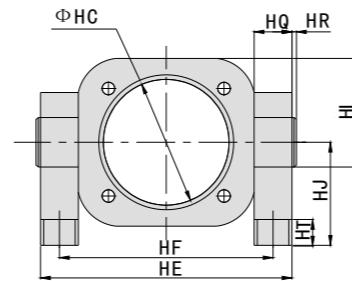
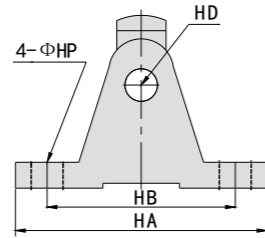
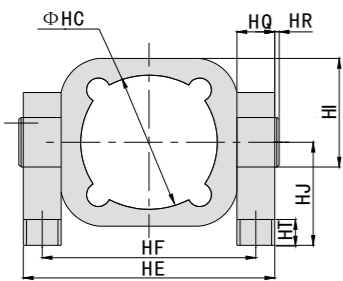


| Sign | Bore | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------|------|------|------|------|------|-------|-------|-------|-------|
| EB | | 113 | 126 | 138 | 164 | 182 | 210 | 264 | 336 |
| EC | | 63 | 76 | 88 | 114 | 132 | 160 | 200 | 240 |
| ED | | 37 | 47 | 56 | 70 | 84 | 110 | 140 | 175 |
| 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

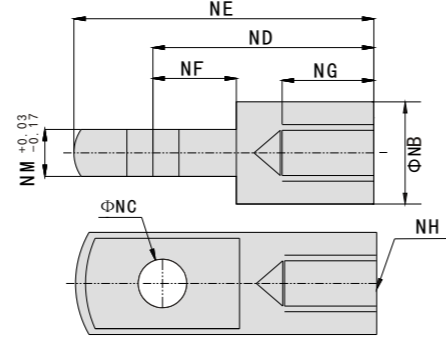
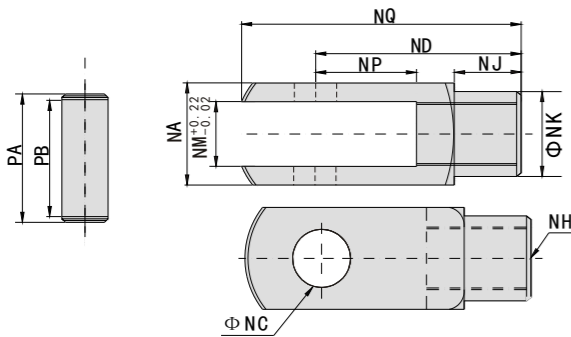
For SC Series



| 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

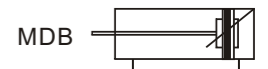
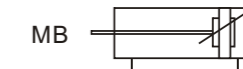
Mounting type
B: Standard cylinder

Stroke

Bore

Magnet
Blank: Without Magnet
D: With Magnet

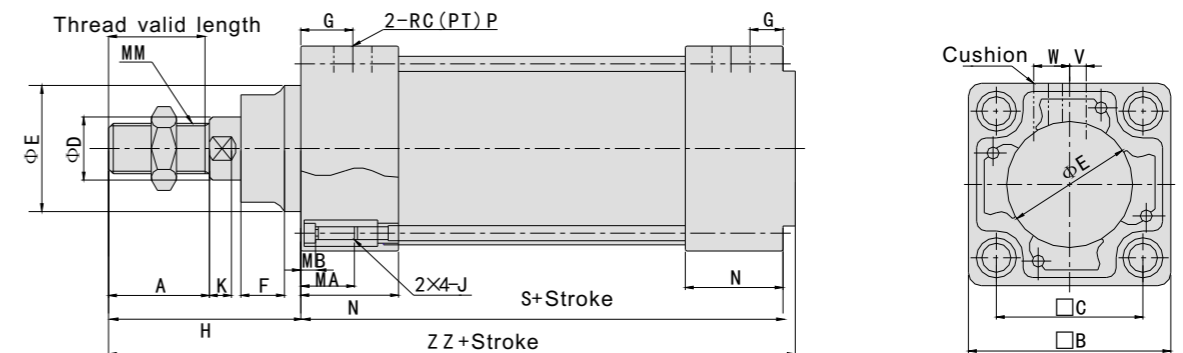
32: Φ32mm
40: Φ40mm
50: Φ50mm
63: Φ63mm
80: Φ80mm
100: Φ100mm
125: Φ125mm



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 | | | G1/2 |

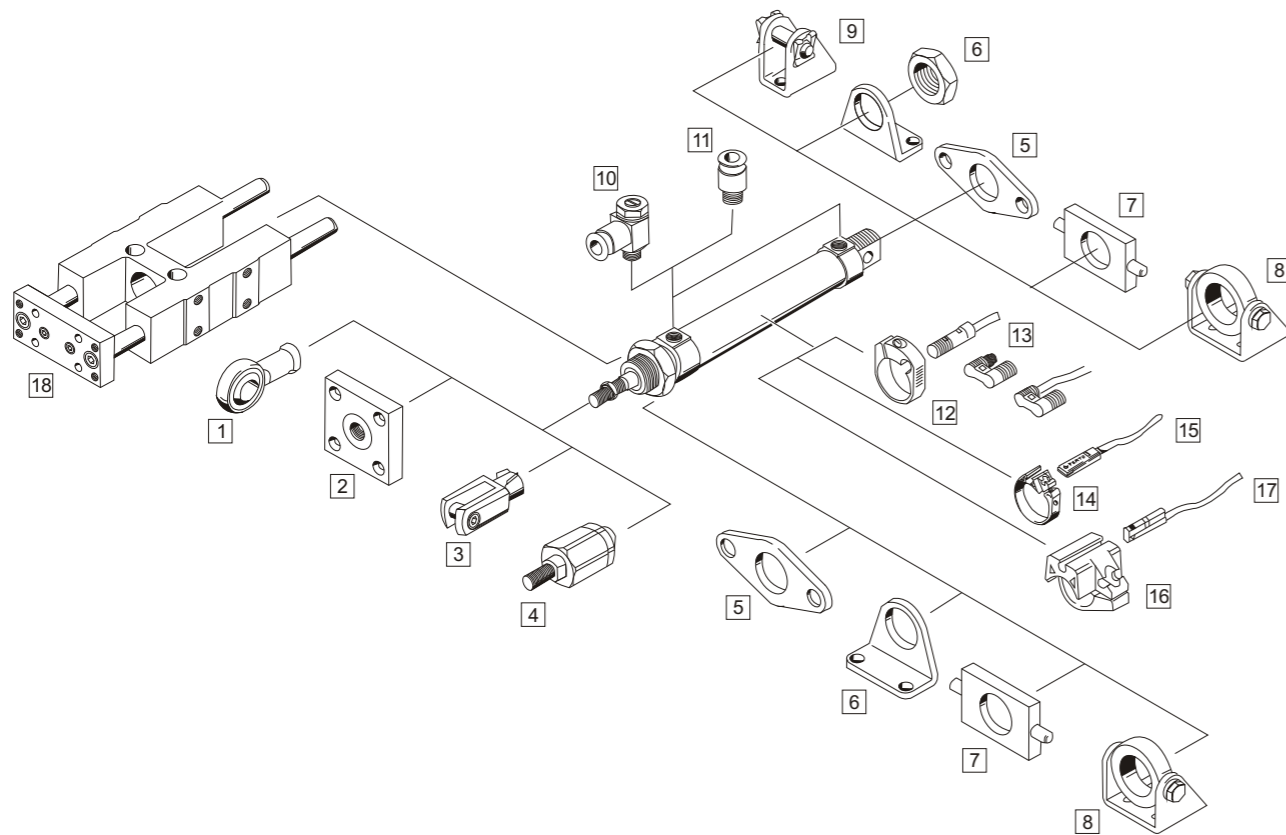
Main Dimensions



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

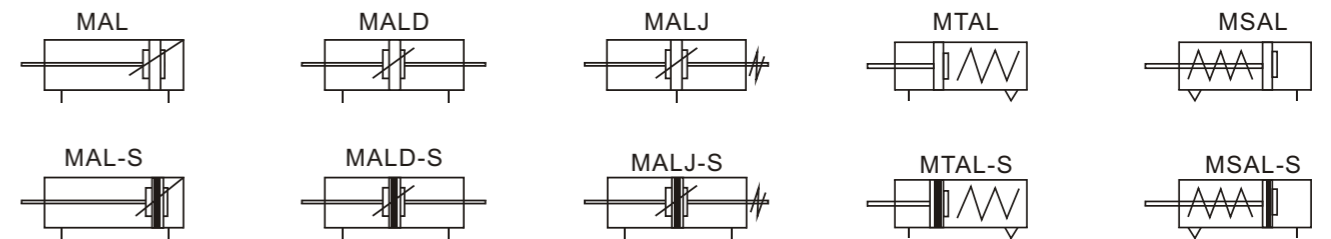
Cylinder Peripheral Component



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 Push force | Double Acting Pull force | Single Acting Spring Extend | Double Acting Push force | Double Acting Pull force | Single Acting Spring Extend | Double Acting Push force | Double Acting Pull force | Single Acting Spring Extend | Double Acting Push force | Double Acting Pull force | Double Acting Push force | Double Acting 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

M A L - C M 20 X 50 - 20 - S - L B

- Series Code:** MAL: Double Acting; MSAL: Spring Extend; MSTL: Spring Return; MALD: Double Shaft Acting; MALJ: Adjustable cushion type
- Rear Cover 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
- Stroke:** 20, 50, 100
- Adjustable Stroke:** 10: 10mm; 20: 20mm; 30: 30mm; 40: 40mm; 50: 50mm; 75: 75mm; 100: 100mm
- Magnet:** Blank: Without Magnet; S: With Magnet
- Mounting type:** Blank: Standard Cylinder; LB: Leg mounting; FA: Front rear plate mounting; SDB: Trunnion bracket mounting

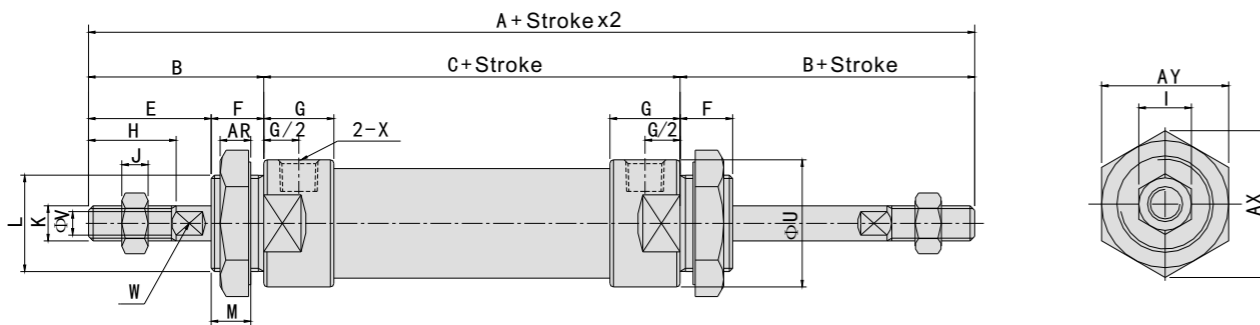
Specifications

| 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 | |

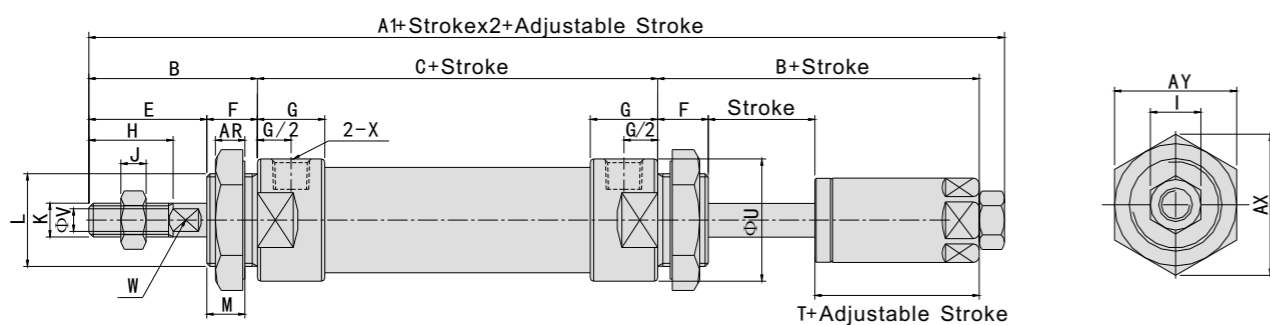
MAL Series Mini Cylinder

Main Dimensions

MALD Double shaft type



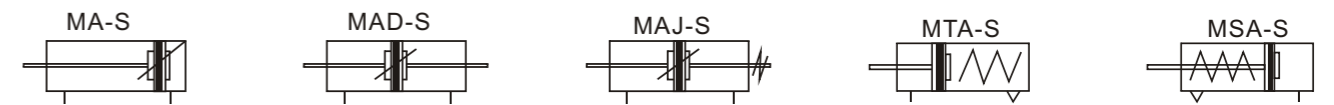
MALJ Double shaft adjustable stroke type



| 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: MA: Double Acting, MSA: Spring Extend, MST: Spring Return, MAD: Double Shaft Acting, MAJ: Adjustable cushion type

Rear Cover 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

Adjustable Stroke: 10: 10mm, 20: 20mm, 30: 30mm, 40: 40mm, 50: 50mm, 75: 75mm, 100: 100mm

Mounting type: Blank: Standard Cylinder, LB: Leg mounting, FA: Front rear plate mounting, SDB: Trunnion bracket mounting

Specifications

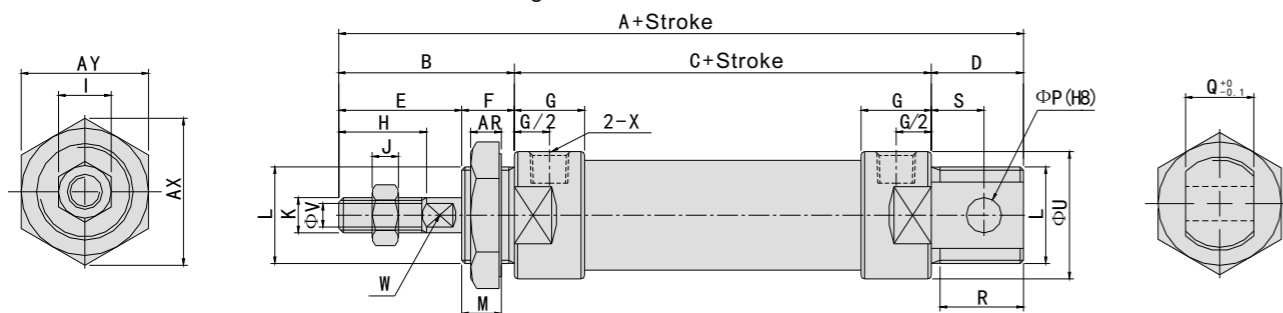
| Bore (mm) | | 16 | 20 | 25 | 32 | 40 | 50 | 63 |
|------------------------|--|--|--------------------|----|----|----|--|----|
| Mounting type | MA, MAC, MAD, MAJ | Double acting | | | | | | |
| | MSA, MTA | Single Acting | | | | | | - |
| Working medium | | Clean air (40µm Filtration) | | | | | | |
| 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°C | | | | | | |
| 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

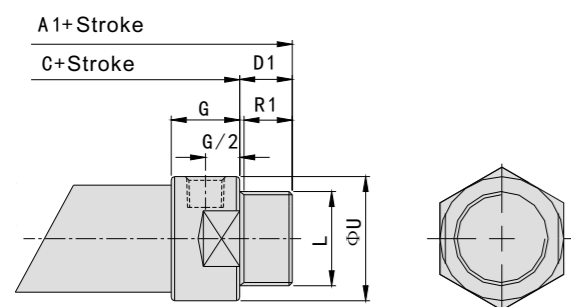
Main Dimensions

Φ16~Φ40

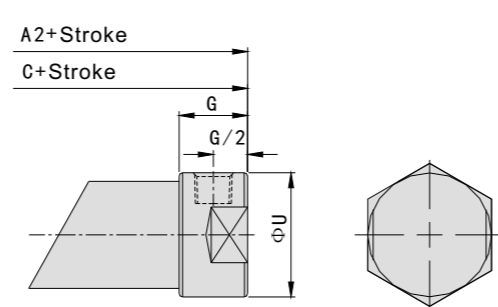
MA-CA Swivelling tail



MA-CM Round tail



MA-U Flat tail

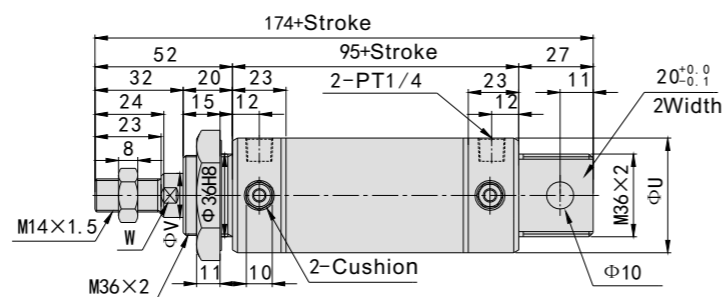
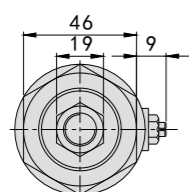


| Bore | Sign | A | A1 | A2 | B | C | D | D1 | E | F | G | H | I | J | K |
|------|------|-----|-----|-----|----|----|----|----|----|----|------|----|----|---|----------|
| 16 | | 114 | 114 | 98 | 38 | 60 | 16 | 15 | 22 | 16 | 10 | 16 | 10 | 5 | M6X1 |
| 20 | | 137 | 128 | 116 | 40 | 76 | 21 | 12 | 28 | 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 |

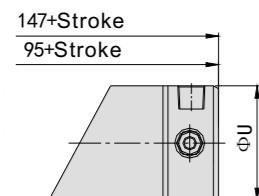
| Bore | Sign | L | M | P | Q | R | R1 | S | U | V | W | X | AR | AX | AY |
|------|------|---------|----|----|----|----|----|----|------|----|----|------|----|----|----|
| 16 | | M16X1.5 | 14 | 6 | 12 | 14 | 14 | 9 | 21 | 6 | 5 | M5 | 6 | 25 | 22 |
| 20 | | M22X1.5 | 10 | 8 | 16 | 19 | 12 | 12 | 27 | 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

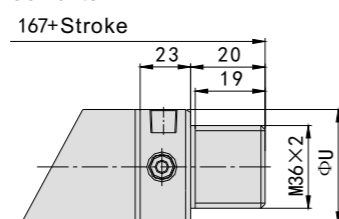
Swivelling tail



Flat tail



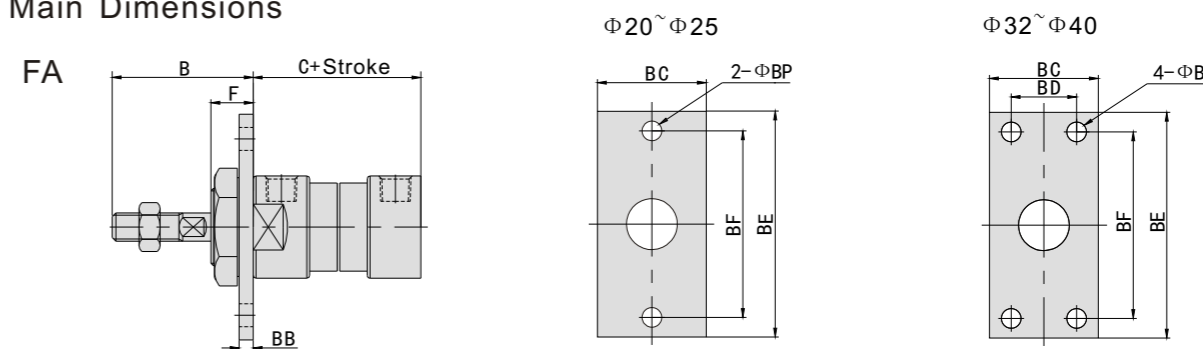
Round tail



| Bore | Sign | U | V |
|------|------|----|----|
| 50 | | 53 | 16 |
| 63 | | 67 | 16 |

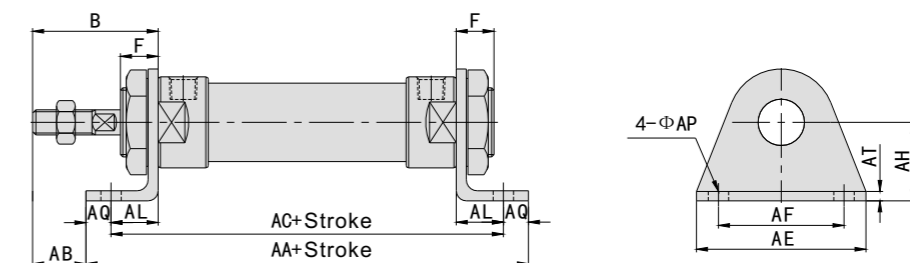
MAL/MA Series Mini Cylinder Brackets

Main Dimensions



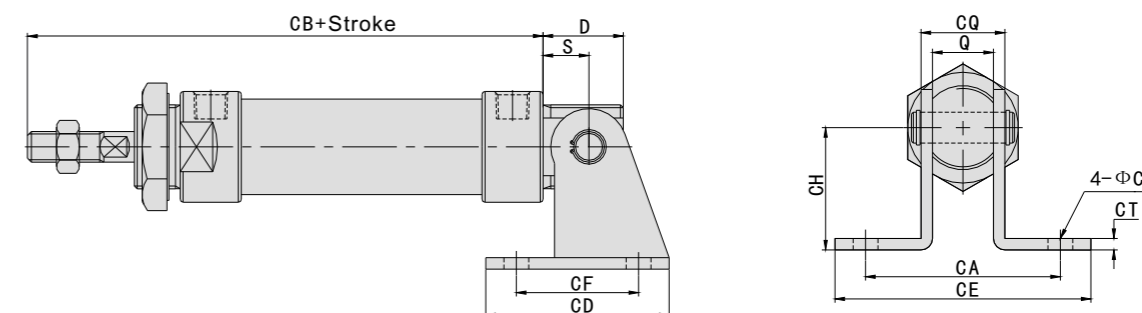
| Sign | Bore/Stroke | B | C (MA Series) | C (MSA Series) | | C (MAL Series) | C (MSAL Series) | | BB | BC | BD | BE | BF | BP | F |
|------|-------------|----|---------------|----------------|--------|----------------|-----------------|--------|----|----|----|----|----|-----|----|
| | | | | 0~50 | 51~100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

LB



| Sign | Bore/Stroke | B | F | AA (MA Series) | | AB | AC (MA Series) | | AA (MSAL Series) | | AC (MSAL Series) | | AE | AF | AL | AQ | AP | AT | AH | | | | |
|------|-------------|----|----|----------------|--------|-----|----------------|--------|------------------|--------|------------------|--------|-----|-----|-----|-----|----|----|----|---|-----|-----|----|
| | | | | 0~50 | 51~100 | | 0~50 | 51~100 | 0~50 | 51~100 | 0~50 | 51~100 | | | | | | | | | | | |
| 16 | | 38 | 16 | 98 | 98 | 123 | 25 | 86 | 86 | 111 | - | - | - | - | - | - | 44 | 32 | 13 | 6 | 5.5 | 3 | 20 |
| 20 | | 40 | 12 | 122 | 122 | 147 | 25 | 106 | 106 | 131 | 116 | 116 | 141 | 100 | 100 | 125 | 54 | 40 | 15 | 8 | 6.5 | 3 | 25 |
| 25 | | 44 | 14 | 122 | 122 | 147 | 29 | 106 | 106 | 131 | 116 | 116 | 141 | 100 | 100 | 125 | 54 | 40 | 15 | 8 | 6.5 | 3 | 25 |
| 32 | | 44 | 14 | 142 | 142 | 167 | 19 | 126 | 126 | 151 | 136 | 136 | 161 | 120 | 120 | 145 | 59 | 45 | 25 | 8 | 6.5 | 4 | 32 |
| 40 | | 46 | 14 | 142 | 142 | 167 | 21 | 126 | 126 | 151 | 158 | 158 | 183 | 142 | 142 | 167 | 64 | 50 | 25 | 8 | 6.5 | 4.5 | 36 |

SDB

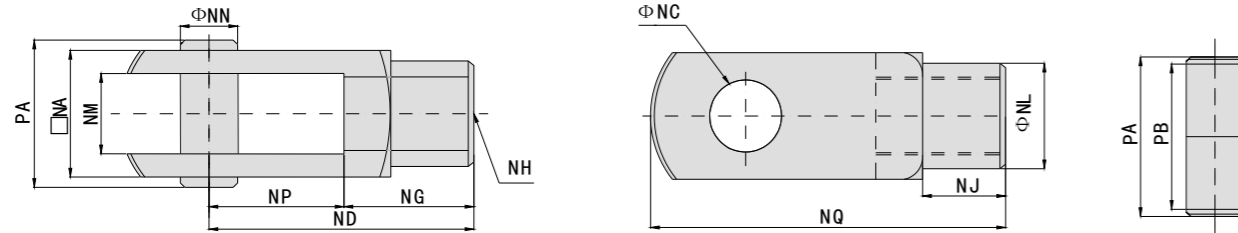


| Sign | Bore/Stroke | D | S | Q | CA | CB (MA Series) | | CB (MAL Series) | CB (MSAL Series) | | CD | CE | CF | CH | CT | CP | CQ | |
|------|-------------|----|----|----|----|----------------|--------|-----------------|------------------|--------|-----|----|----|----|----|-----|-----|------|
| | |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

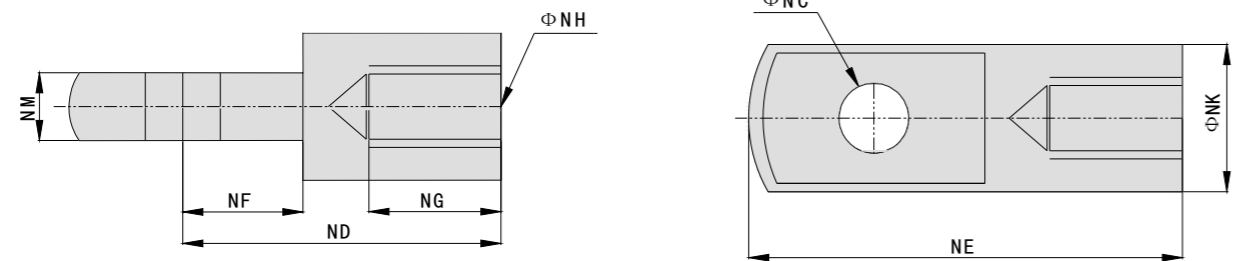
MAL/MA Series Mini Cylinder Brackets

Main Dimensions

Y Fitting

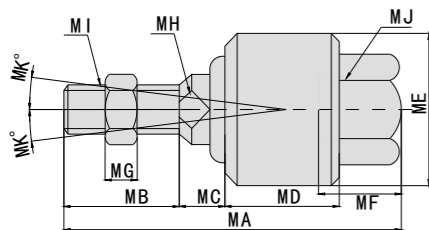


I Fitting



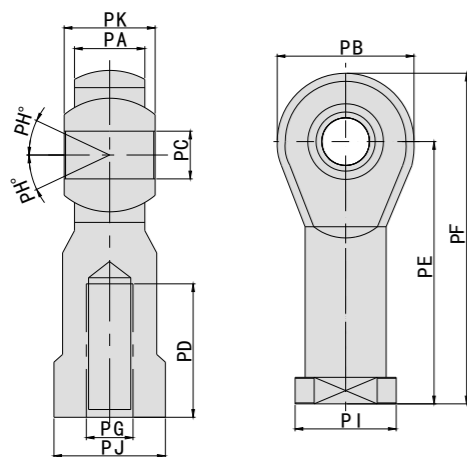
| Bore | Sign | NA | NC | ND | NE | NF | NG | NH | NJ | NK | NL | NM | NN | NP | NQ | PA | PB |
|------|------|------|-----|----|----|-----|------|----------|----|----|----|----|----|-----|----|----|------|
| 16 | | 12 | 3.5 | 12 | 28 | 8.5 | 12.5 | M6X1 | 7 | 12 | 12 | 6 | 5 | 8.5 | 28 | 17 | 12.5 |
| 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



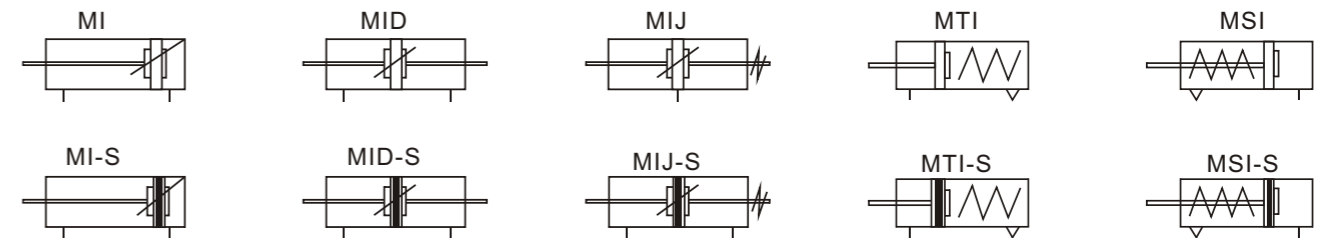
| Bore | Sign | MA | MB | MC | MD | ME | MF | MG | MH | MI | MJ | MK |
|------|------|----|------|-----|----|------|------|----|----|----------|----------|----|
| 20 | | 51 | 20 | 6 | 17 | 24 | 11.5 | 6 | 8 | M8X1.25 | M8X1.25 | 13 |
| 25 | | 58 | 22 | 7 | 21 | 26 | 11.5 | 7 | 10 | M10X1.25 | M10X1.25 | 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

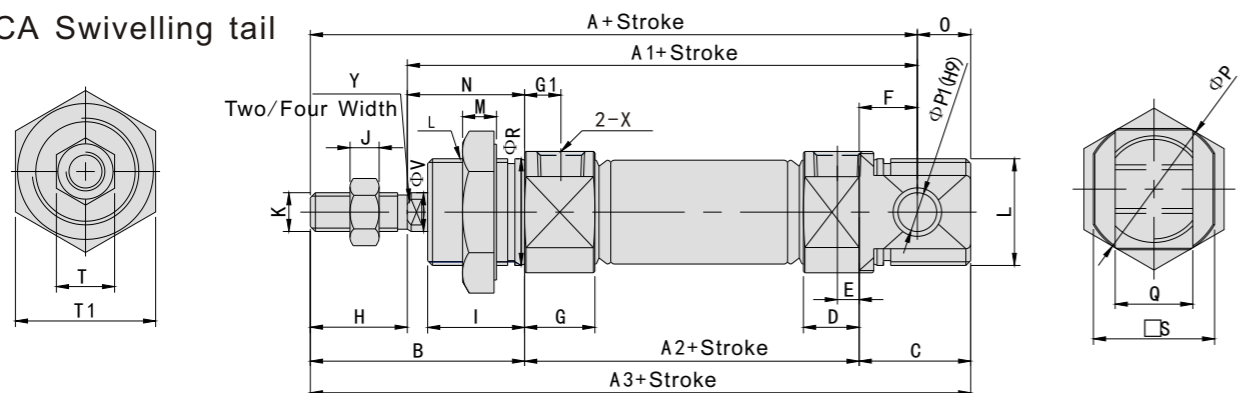
Specifications

| 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°C | | | | | | | |
| 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 | |

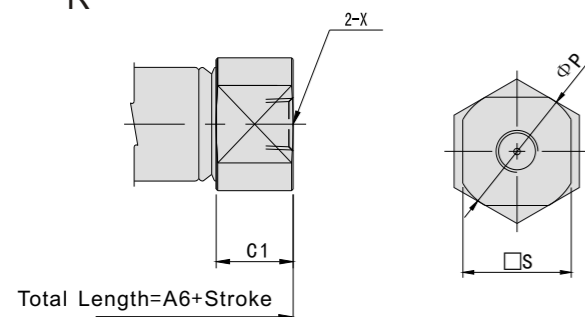
MI Series Mini Cylinder

Main Dimensions

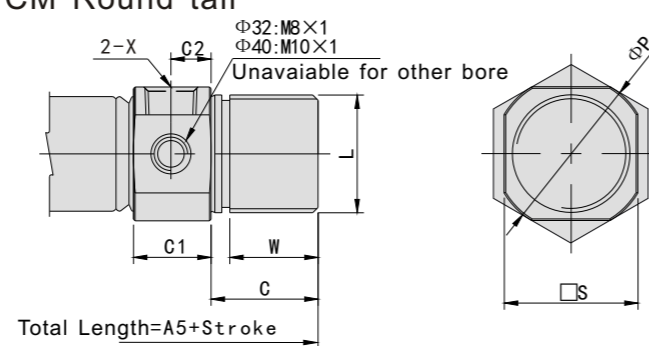
CA Swivelling tail



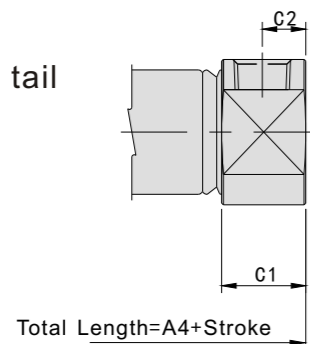
R



CM Round tail



U Flat tail

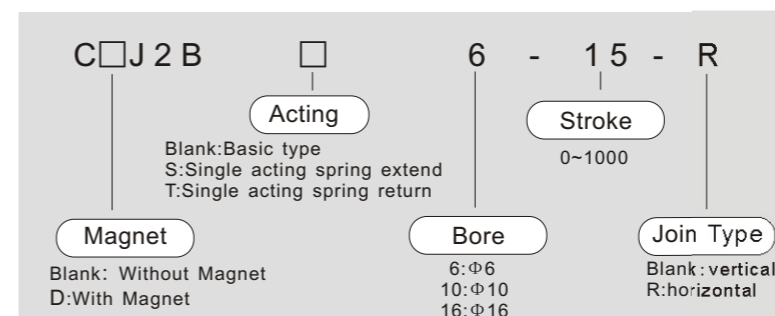


| Bore | Sign | A | A1 | A2 | A3 | A4 | A5 | A6 | B | C | C1 | C2 | D | E | F | G | G1 | H | I |
|------|------|-----|-----|----|-----|-----|-----|-------|----|----|------|------|------|-----|----|------|-----|----|----|
| 8 | | 76 | 64 | 46 | 86 | 74 | - | - | 28 | 12 | 9.5 | 5 | 9.5 | 5 | 6 | 11.5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

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

CJ2B Series Mini Cylinder

Ordering Code CJ2B Series Mini Cylinder



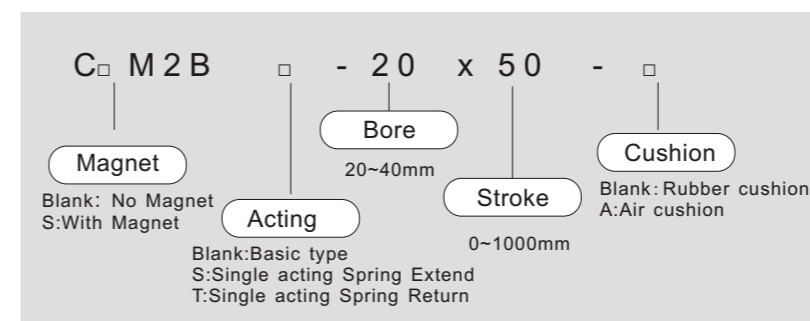
Specifications

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



CDM2B Series Mini Cylinder

Ordering Code CDM2B Series Mini Cylinder



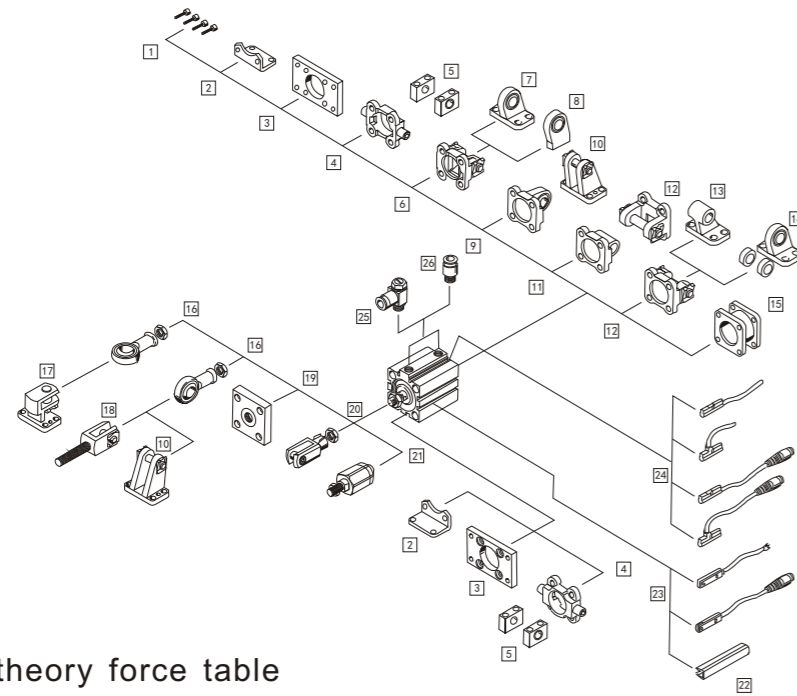
Specifications

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



Technical Data 3

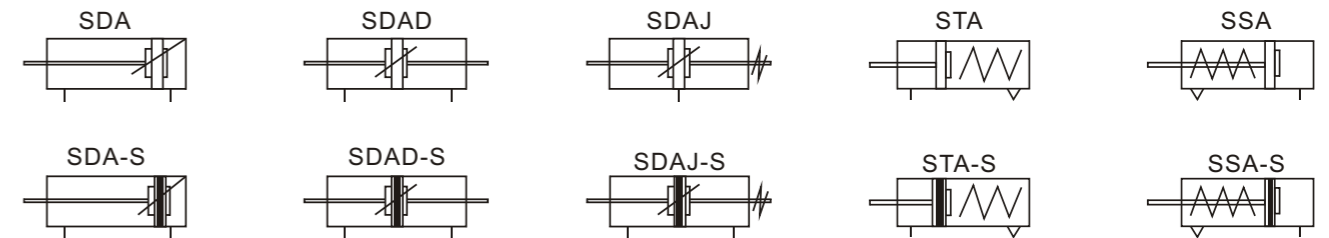
Cylinder Peripheral Component



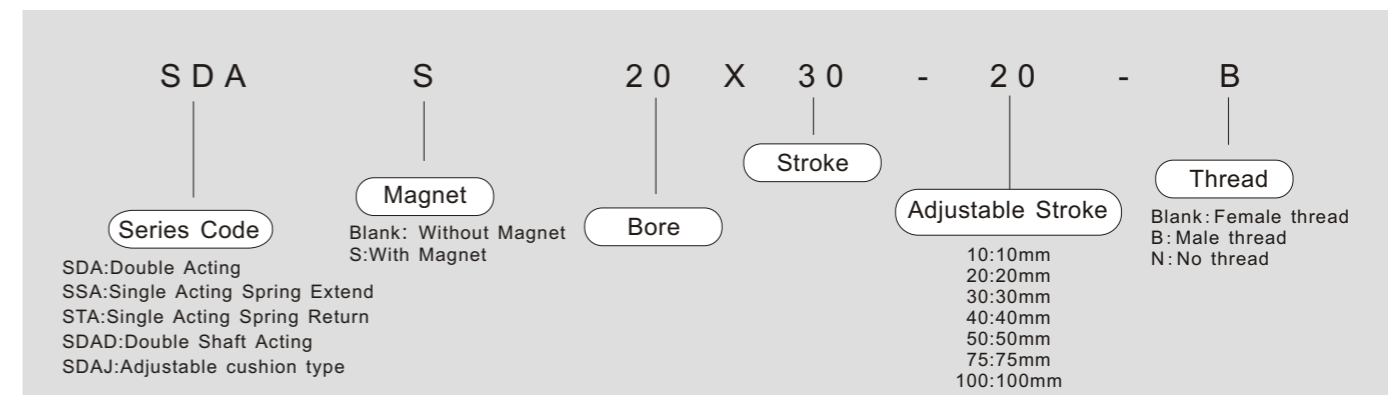
Air cylinder theory force table

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

SDA Series Compact Cylinder



Ordering Code SDA Series Compact Cylinder

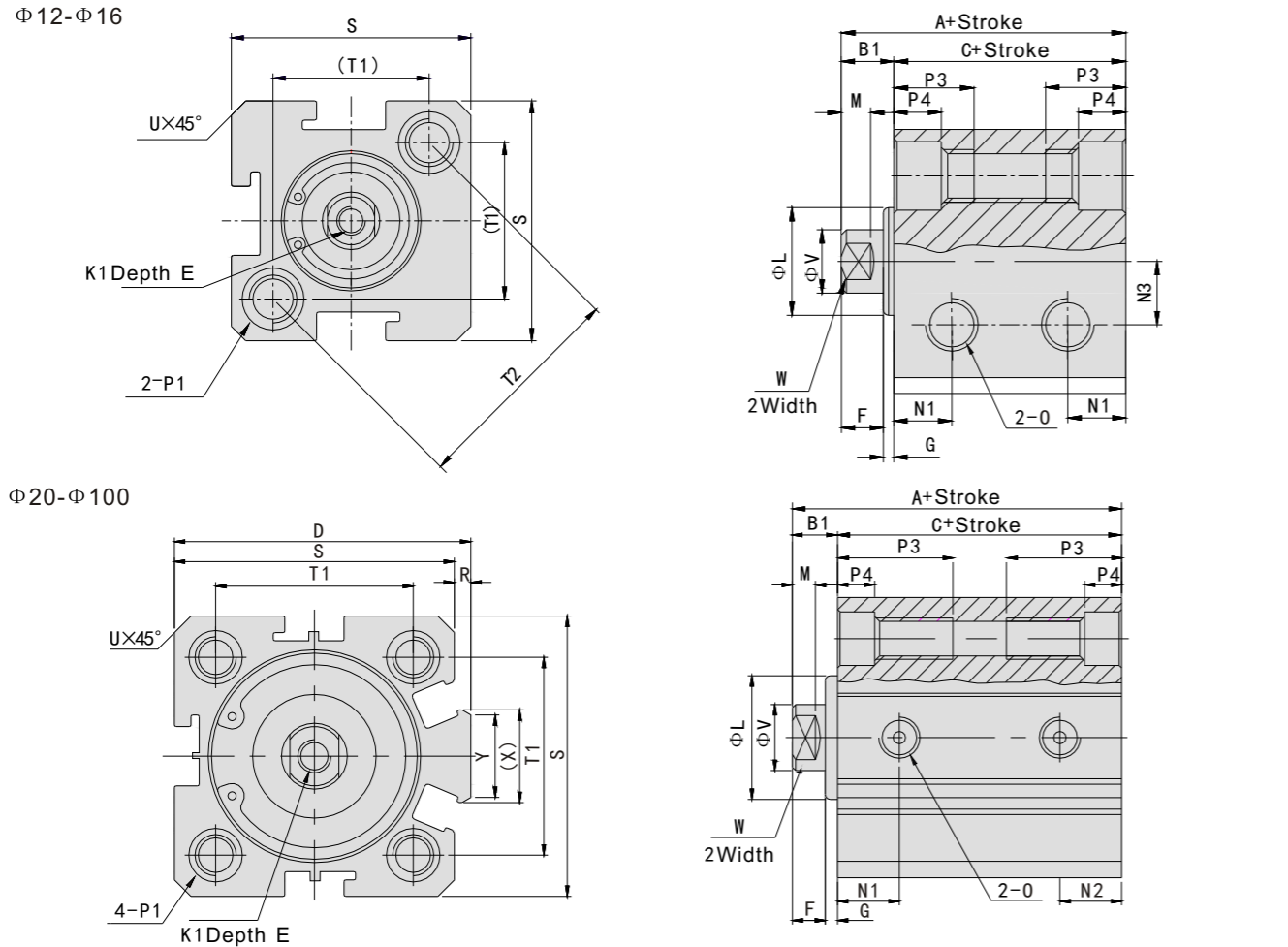


Specifications

| Bore (mm) | | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|---------------------|--|-----------------------------|----|----|------|----|------|------------|------|------------|-----|
| Acting type | Double acting | | | | | | | | | | |
| | Single Acting Spring Extend, Single Acting Spring Return | | | | | | | | | | |
| Working medium | | Clean air (40µm Filtration) | | | | | | | | | |
| pressure range | Double acting | 0.1~0.9Mpa | | | | | | | | | |
| | Single acting | 0.2~0.9Mpa | | | | | | | | | - |
| Guaranteed pressure | | 1.5Mpa(213Psi) | | | | | | | | | |
| Working temperature | | -5~70°C | | | | | | | | | |
| 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)

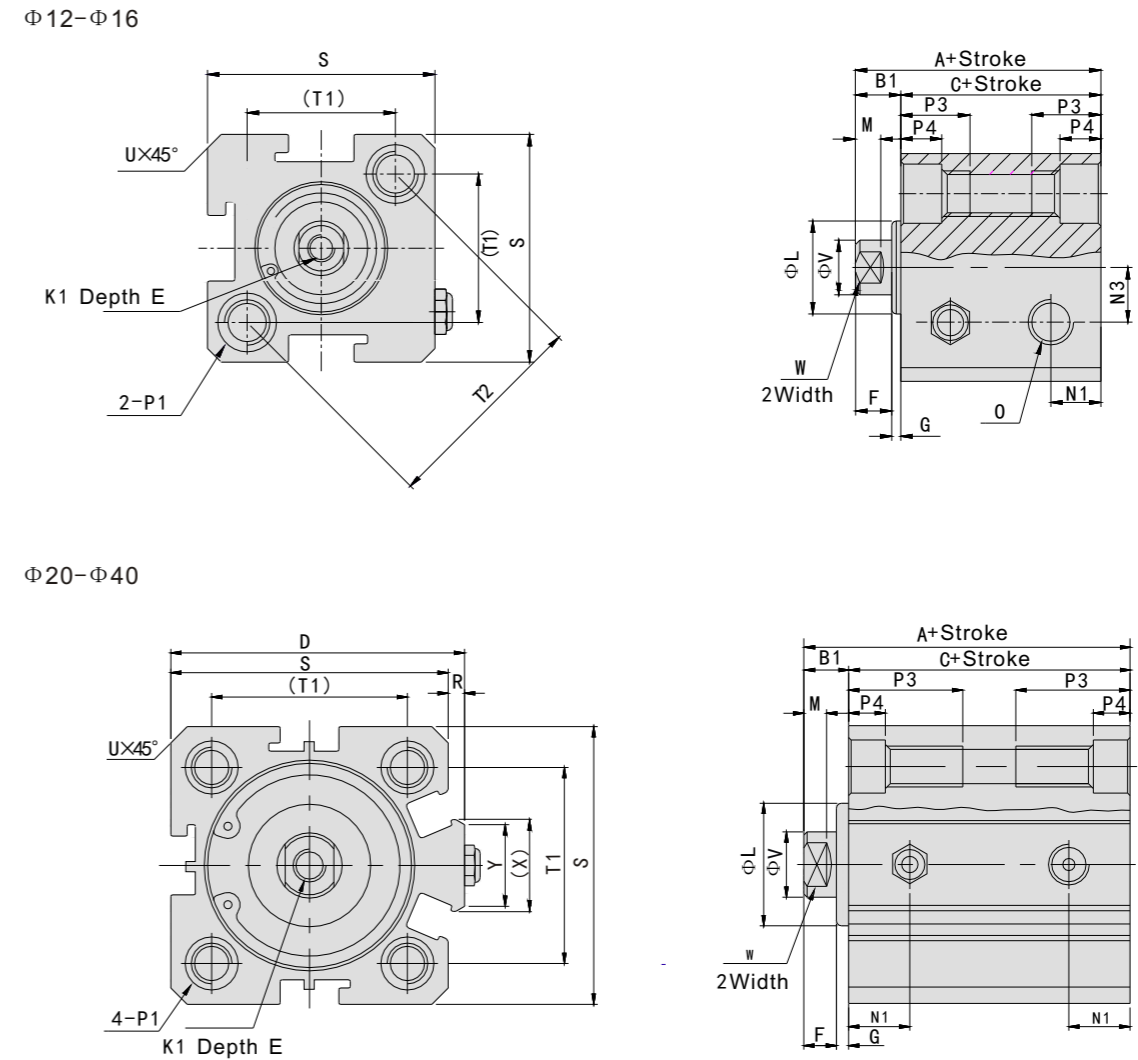


| Model | Standard | | | With Magnet | | | D | E | F | G | K1 | L | M | N1 | | N2 | | N3 |
|-------|----------|-----|------|-------------|-----|------|------|----|---|-----|---------|------|-----|------|------|------|------|----|
| | A | B1 | C | A | B1 | C | | | | | | | | S=5 | S>5 | S=5 | S>5 | |
|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

| Bore | Sign | O | P1 | | | P3 | P4 | R | S | T1 | T2 | U | V | W | X | Y |
|------|--------|---|----|------|-----|-----|------|----|------|----|----|------|----|---|---|---|
| | | | P1 | P3 | P4 | | | | | | | | | | | |
| 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)



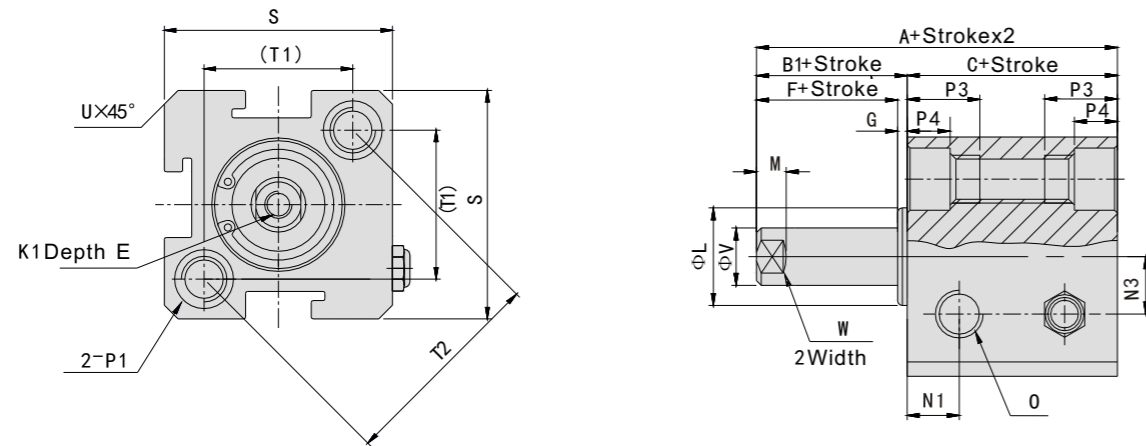
| Model | Standard | | | With Magnet | | | D | E | F | G | K1 | L | M | N1 | N3 | | | | |
|-------|----------|------|-----|-------------|------|------|------|-----|------|------|------|----|---|-----|---------|------|-----|-----|-----|
| | A | B1 | C | A | B1 | C | | | | | | | | | | | | | |
| 12 | 32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

| Bore | Sign | O | P1 | | | P3 | P4 | R | S | T1 | T2 | U | V | W | X | Y |
|------|--------|--|----|-----|-----|----|------|----|------|----|----|------|----|---|---|---|
| | | | P1 | P3 | P4 | | | | | | | | | | | |
| 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 | | | |

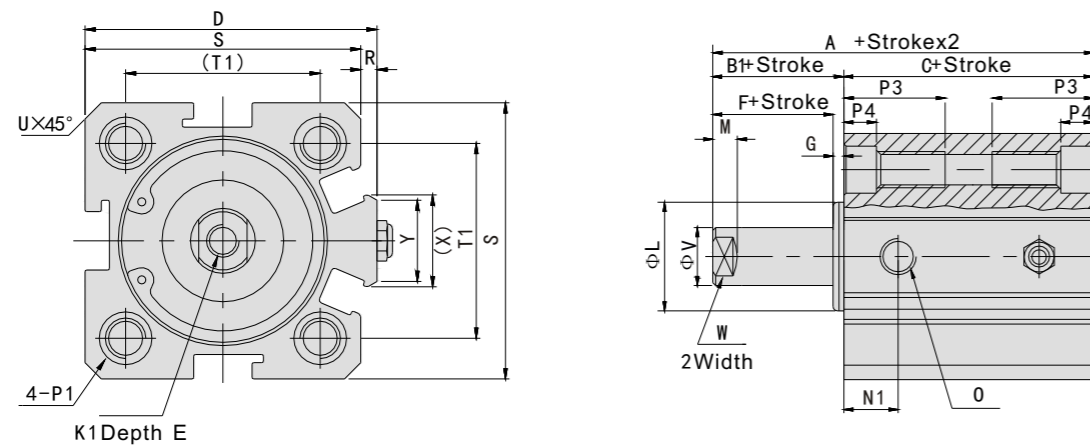
SDA Series Compact Cylinder

Main Dimensions STA/STAS (Single Acting Spring Return)

Φ12-Φ16



Φ20-Φ40

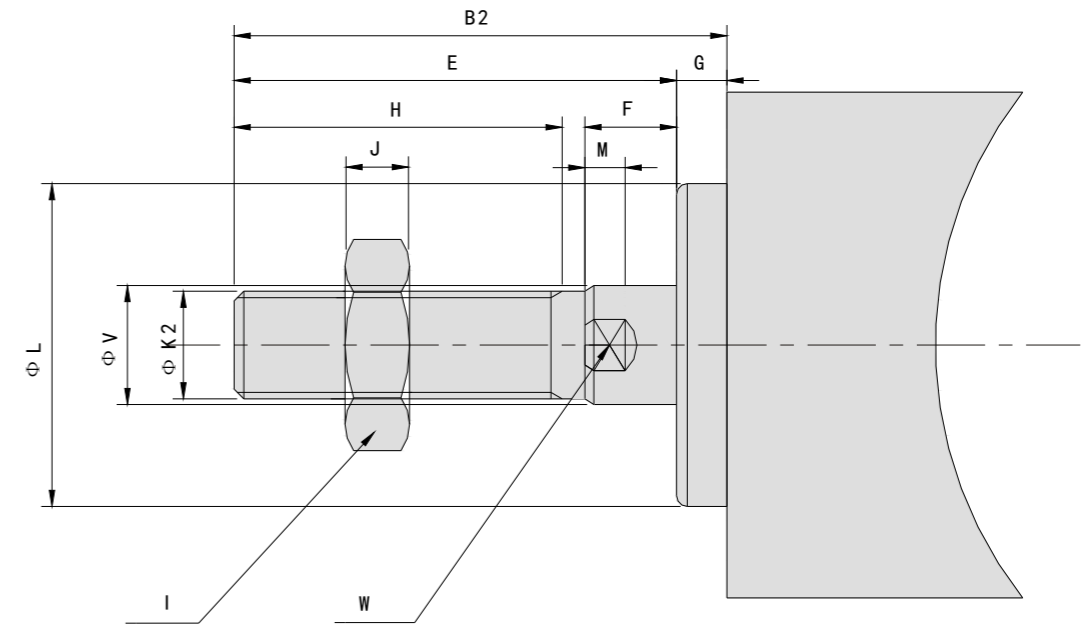


| Model | Standard | | | | With Magnet | | | | D | E | F | G | K1 | L | M | N1 | N3 | | |
|-------|-------------|------|-----|------|-------------|------|------|-----|------|------|------|----|----|-----|---------|------|-----|-----|-----|
| | Bore/Stroke | | C | | A | | B1 | | | | | | | | | | | | |
| | ≤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 | - |

| Bore/Stroke | Sign | O | P1 | | | | | | P3 | P4 | R | S | T1 | T2 | U | V | W | X | Y |
|-------------|--------|-------------|-------------|--------|--------------|--------------|--------------|--------------|-----|-----|----|------|----|------|----|----|------|----|---|
| | | | Double Side | Thread | Through Hole | Through Hole | Through Hole | Through Hole | | | | | | | | | | | |
| 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

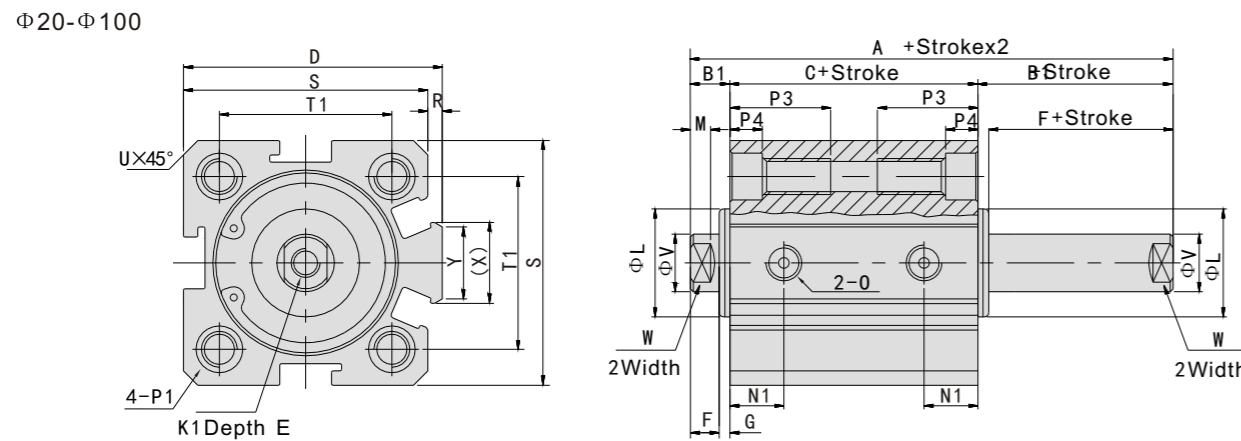
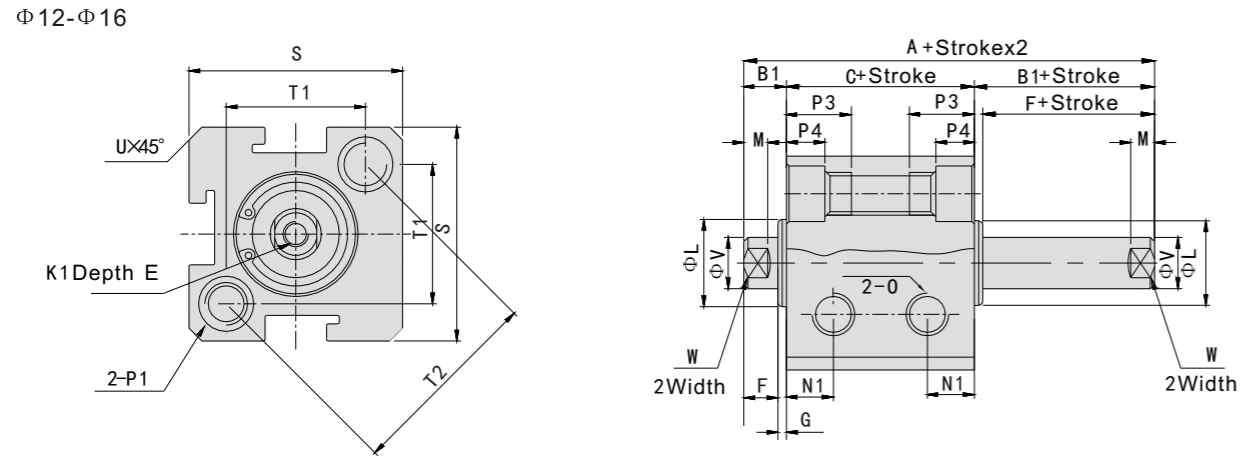
Main Dimensions SDA SSA STA



| 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)

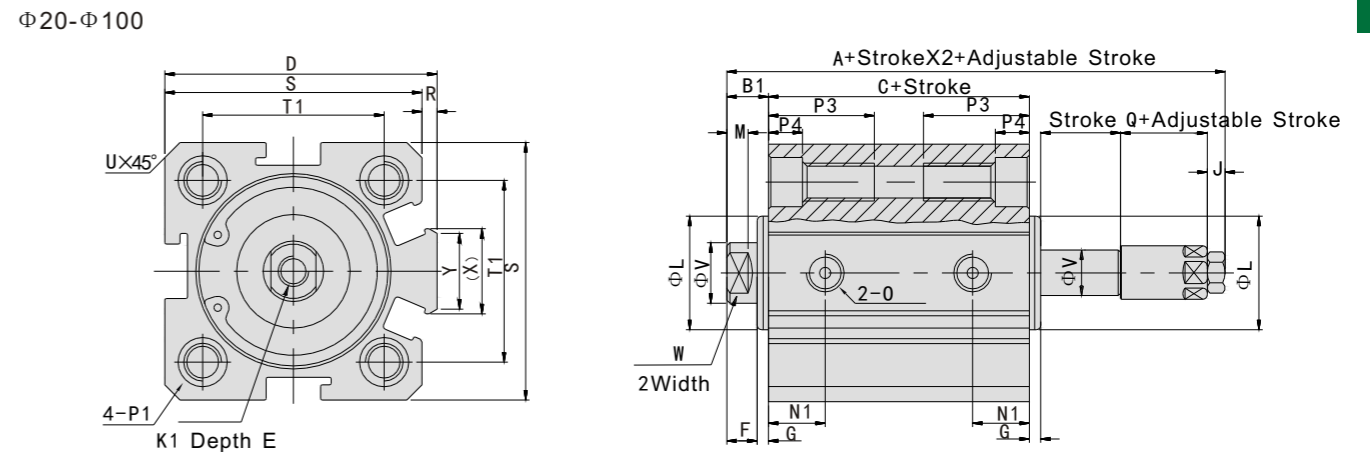
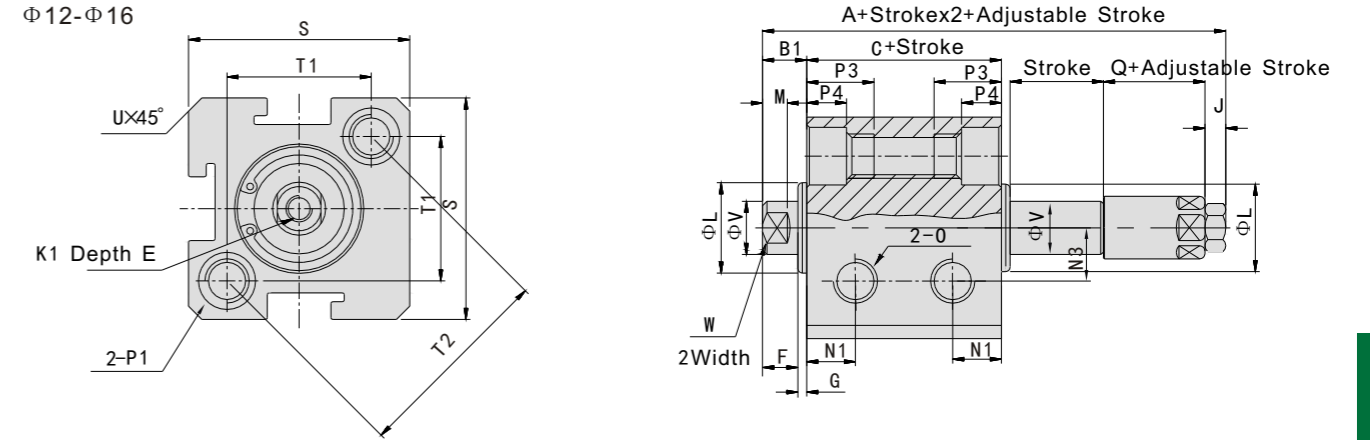


| Model | Standard | | | With Magnet | | | D | E | | F | G | K1 | L | M | N1 | | N3 |
|-------|-----------|-----|------|-------------|-----|------|------|------------|------|-----|---------|------|-----|------|------|-----|----|
| | Bore/Sign | A | B1 | C | A | B1 | | C | S≤10 | | | | | | S>10 | S=5 | |
| 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 | 4 | 3 | M6X1 | 22 | 2.8 | 9 | - | - | |
| 40 | 40 | 7 | 26 | 50 | 7 | 36 | 58.5 | 8 | 4 | 3 | M8X1.25 | 28 | 2.8 | 10 | - | - | |
| 50 | 46 | 9 | 28 | 56 | 9 | 38 | 71.5 | 8 | 5 | 4 | M10X1.5 | 38 | 2.8 | 10.5 | - | - | |
| 63 | 50 | 9 | 32 | 60 | 9 | 42 | 84.5 | 10 | 5 | 4 | M10X1.5 | 40 | 2.8 | 9.5 | 11.8 | - | |
| 80 | 63 | 11 | 41 | 73 | 11 | 51 | 104 | 13 | 6 | 5 | M14X1.5 | 45 | 4 | 11.5 | 14.5 | - | |
| 100 | 75 | 12 | 51 | 85 | 12 | 61 | 124 | 18 | 7 | 5 | M18X1.5 | 55 | 4 | 16 | 20.5 | - | |

| Bore | Sign | O | P1 | P3 | P4 | R | S | T1 | T2 | U | V | W | X | Y |
|------|--------|---|----|------|-----|-----|------|----|------|----|----|------|----|---|
| | | | | | | | | | | | | | | |
| 12 | M5X0.8 | Double Side: Φ6.5 Thread: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

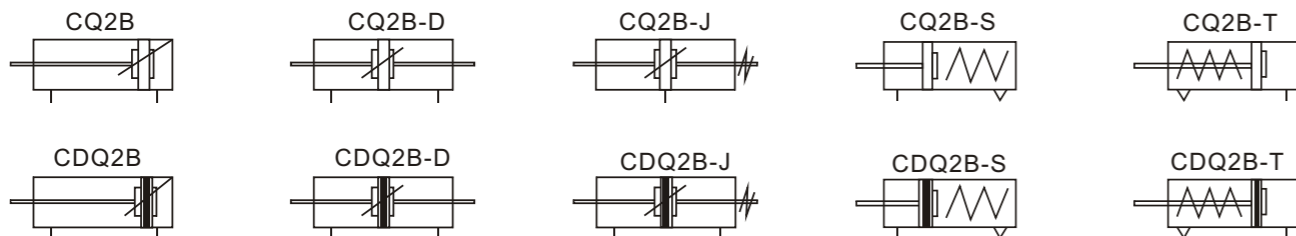
Main Dimensions SDAJ/SDAJS (Double Shaft Adjustable Stroke Type)



| Model | Standard | | | With Magnet | | | D | E | | F | G | J | K1 | L | M | N1 | |
|-------|-----------|-----|------|-------------|-----|------|------|------------|------|-----|----|---------|------|-----|------|------|-----|
| | Bore/Sign | A | B1 | C | A | B1 | | C | S≤10 | | | | | | | S>10 | S=5 |
| 12 | 40 | 5 | 17 | 50 | 5 | 27 | - | 6 | 4 | 1 | 4 | M3X0.5 | 10.2 | 2.8 | 6.3 | 6 | - |
| 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 | 6.5 | - |
| 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 | 4 | 3 | 6 | M6X1 | 22 | 2.8 | 9 | - | - |
| 40 | 65 | 7 | 26 | 75 | 7 | 36 | 58.5 | 8 | 4 | 3 | 8 | M8X1.25 | 28 | 2.8 | 10 | - | - |
| 50 | 73 | 9 | 28 | 83 | 9 | 38 | 71.5 | 8 | 5 | 4 | 11 | M10X1.5 | 38 | 2.8 | 10.5 | - | - |
| 63 | 77 | 9 | 32 | 87 | 9 | 42 | 84.5 | 10 | 5 | 4 | 11 | M10X1.5 | 40 | 2.8 | 9.5 | 11.8 | - |
| 80 | 94 | 11 | 41 | 104 | 11 | 51 | 104 | 13 | 6 | 5 | 13 | M14X1.5 | 45 | 4 | 11.5 | 14.5 | - |
| 100 | 105 | 12 | 51 | 115 | 12 | 61 | 124 | 18 | 7 | 5 | 13 | M18X1.5 | 55 | 4 | 16 | 20.5 | - |

| Bore | 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 | 10 |
| 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 | 10 |
| 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 | 15 |
| 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 | 16 |
| 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 | 20 |
| 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 | 20 |
| 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 | 26 |
| 100 | - | G3/8 | Double Side: Φ17.5 Thread:M14X2 Through Hole: Φ11.3 | 30 | 13 | 24 | 10 | 114 | 90 | - | 3.65 | 32 | 27 | 35 | 26 |

CQ2 Series Compact Cylinder



Ordering Code CQ2 Series Compact Cylinder

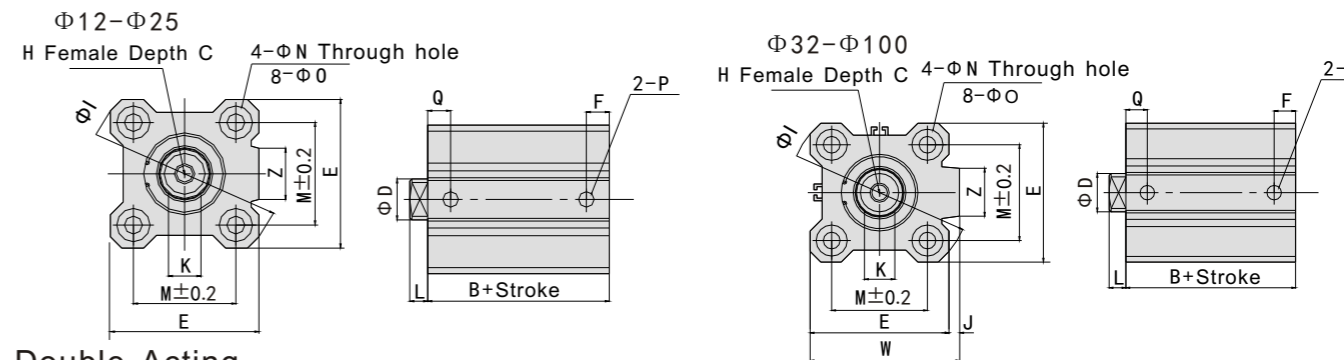
Ordering Code: C Q2 B 12 X 10 - D M

C: Mounting (Blank: Through hole, A: Female thread at both ends)
Q2: Magnet (Blank: Without Magnet, D: With Magnet)
B: Bore (Double Acting: 12~100MM, Spring Acting: 12~50MM)
12: Stroke (5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100)
X: Acting (Blank: Double acting, S: Single acting spring extent, T: Single acting spring return, D: Double shaft double acting, J: Double shaft double acting adjustable)
10: Stroke
-: Acting
D: Magnet
M: Thread Type (Blank: Female thread on piston rod, M: Male thread on piston rod)

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 1/8 | 11.5 10.5 | 49.5 | 14 |
| 40 | 5~50 | 29.5 | 16 | 52 | 8 | M8*1.25 | 13 | 69 | 5 | 14 | 7 | 40 | 5.5 | 9Depth7 | 1/8 | 11 | 57 | 14 |
| 50 | 10~50 | 30.5 | 20 | 64 | 10.5 | M10*1.5 | 15 | 86 | 7 | 17 | 8 | 50 | 6.6 | 11Depth8 | 1/4 | 10.5 | 71 | 19 |
| 63 | 10~50 | 36 | 20 | 77 | 10.5 | M10*1.5 | 15 | 103 | 7 | 17 | 8 | 60 | 9 | 14Depth10.5 | 1/4 | 15 | 84 | 19 |
| 80 | 10~50 | 43.5 | 25 | 98 | 12.5 | M16*2.0 | 21 | 132 | 6 | 22 | 10 | 77 | 11 | 17.5Depth13.5 | 3/8 | 16 | 104 | 26 |
| 100 | 10~50 | 53 | 30 | 117 | 13 | M20*2.5 | 27 | 156 | 6.5 | 27 | 12 | 94 | 11 | 17.5Depth13.5 | 3/8 | 23 | 123.5 | 26 |

Note2) Long Stroke

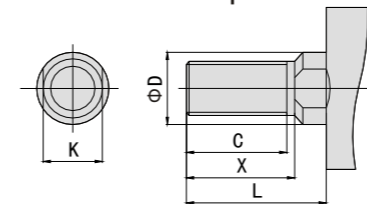
| Bore | Stroke (MM) | B | F | P | Q | Bore | Stroke (MM) | B | F | P | Q |
|------|-------------|------|------|-----|------|------|-------------|------|------|-----|----|
| 32 | 75,100 | 33 | 7.5 | 1/8 | 10.5 | 63 | 75,100 | 46 | 10.5 | 1/4 | 15 |
| 40 | 75,100 | 39.5 | 8 | 1/8 | 11 | 80 | 75,100 |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

Note1) Standard stroke is at 5mm interval.
 Note2) The stroke is medium stroke between 55mm and 100mm (55, 60, 65, 70, 80, 85, 90, 95) plus 5, 10, 15 or 20mm thick backing plate.
 Note3) Unless specified, the dimensions of the model with through hole is the same as those of the model with female thread at both ends.

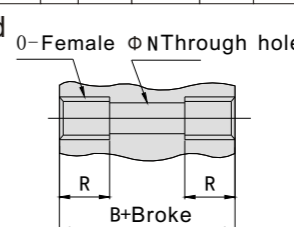
Single Acting

| Bore | B | | | ΦD | E | F | | H | C | 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 | |

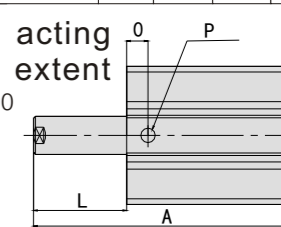
Male thread on piston rod



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 |

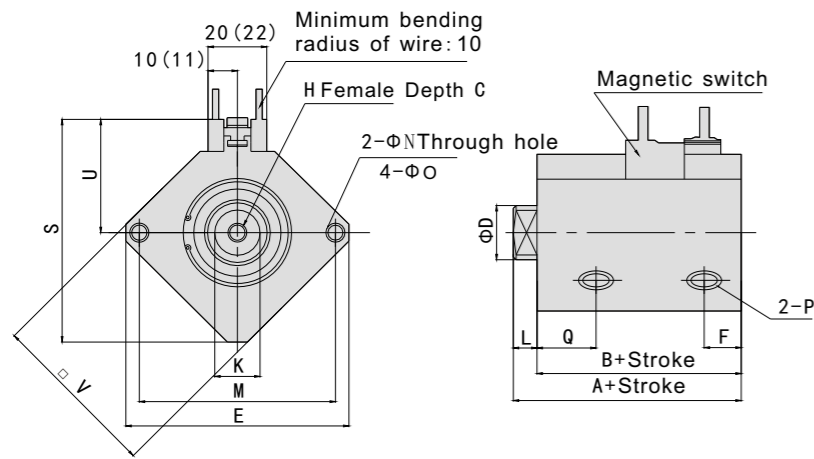
| Bore (mm) | A | | | L | | |
|-----------|------|------|------|-----|------|------|
| | 5st | 10st | 20st | 5st | 10st | 20st |
| 12 | 30.5 | 40.5 | - | 8.5 | 13.5 | - |
| 16 | 32 | 42 | - | 8.5 | 13.5 | - |
| 20 | 34 | 44 | - | 9.5 | 14.5 | - |
| 25 | 37.5 | 47.5 | - | 10 | 15 | - |
| 32 | 40 | 50 | - | 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

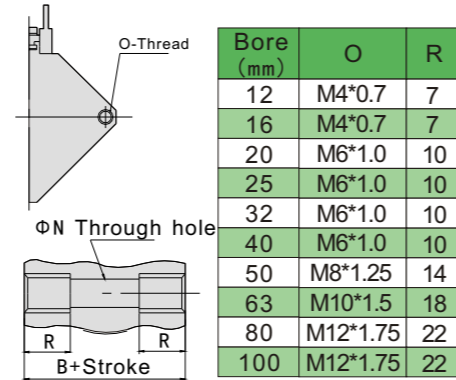
Main Dimensions

Φ12-Φ25



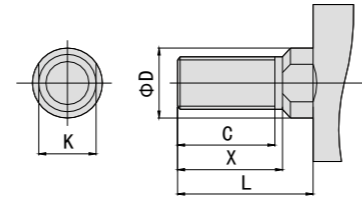
Both ends thread hole : CDQ2B

Note3) Both ends thread hole

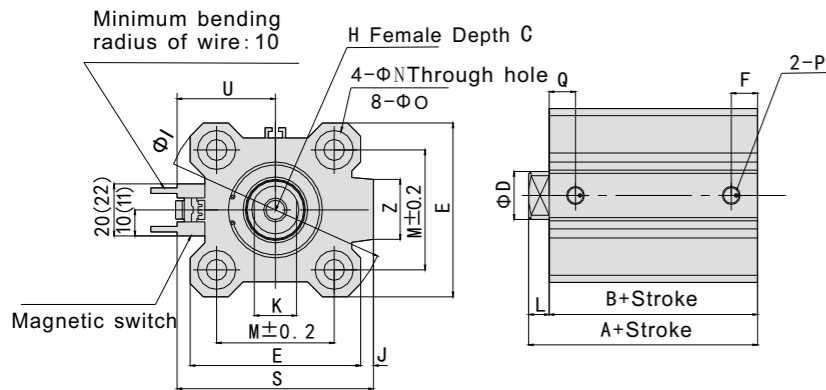


| Bore (mm) | O | R |
|-----------|----------|----|
| 12 | M4*0.7 | 7 |
| 16 | M4*0.7 | 7 |
| 20 | M6*1.0 | 10 |
| 25 | M6*1.0 | 10 |
| 32 | M6*1.0 | 10 |
| 40 | M6*1.0 | 10 |
| 50 | M8*1.25 | 14 |
| 63 | M10*1.5 | 18 |
| 80 | M12*1.75 | 22 |
| 100 | M12*1.75 | 22 |

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

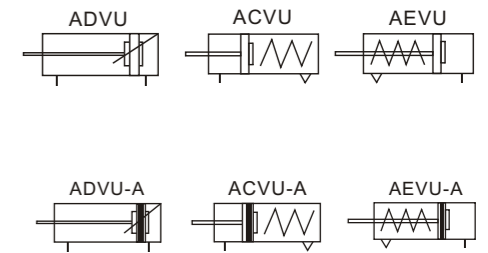
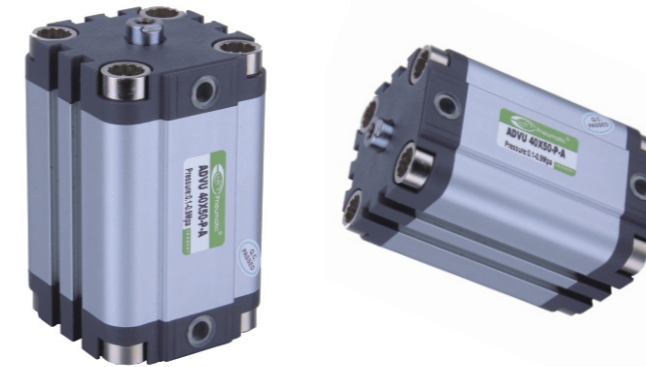
| Bore | Stroke Range | A | B | ΦD | E | F | H | C | ΦI | J | K | L | M | ΦN | ΦO | P | Q | S | U | V | Z |
|------|--------------|------|------|----|------|------|---------|----|-----|-----|----|-----|----|-----|---------------|--------|------|-------|------|----|----|
| 12 | 5~30 | 31.5 | 28 | 6 | 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

Blank: Without Magnet
A: With Magnet
Blank: Female Thread
B: Male Thread

ADVU: Double Acting
AEVU: Spring Return
ACVU: Spring Extend
ADVUD: Double Shaft Acting
ADVUJ: Adjustable cushion type

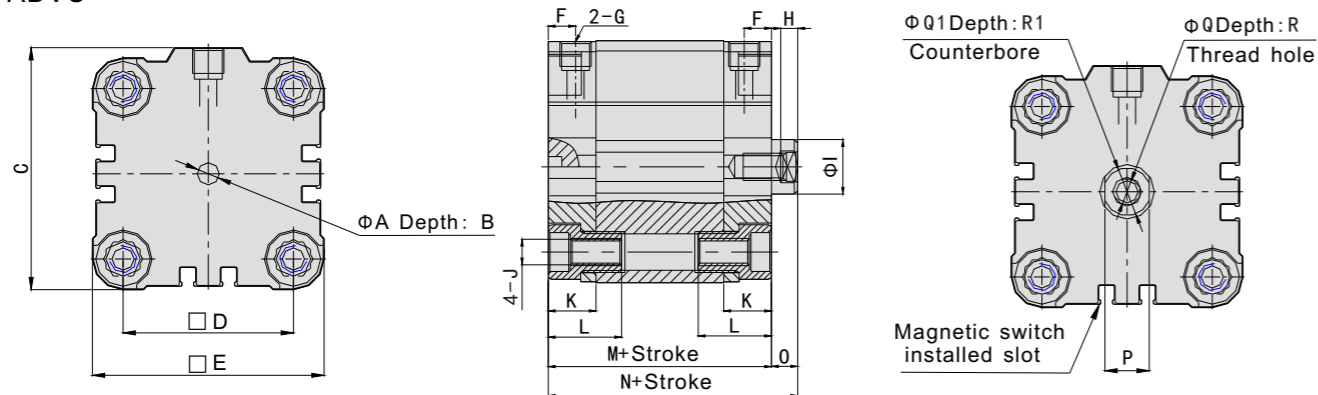
Specifications

| 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°C | | | | | | | | | |
| 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 | |

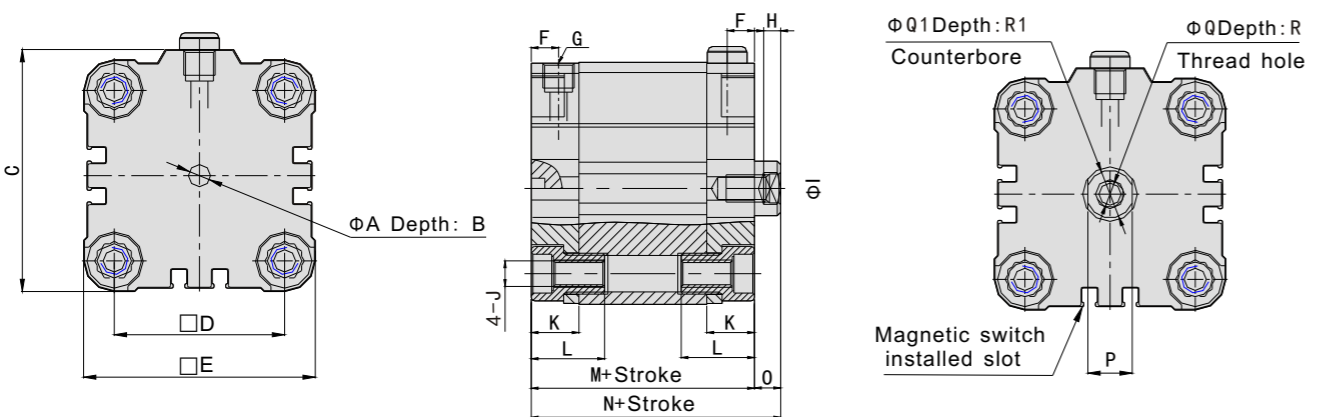
ADVU Series Compact Cylinder

Main Dimensions

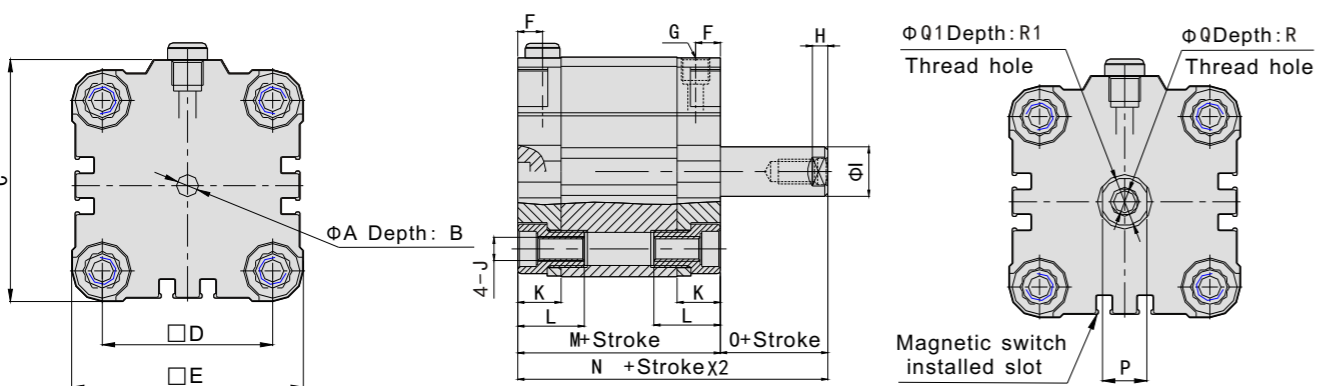
ADVU



AEVU



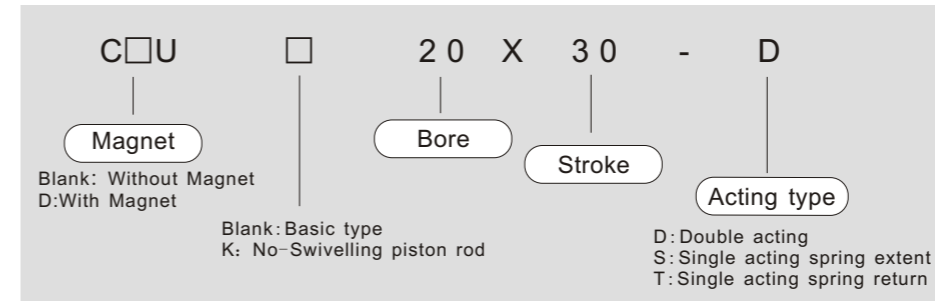
ACVU



| Bore | Sign | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | Q1 | R | R1 |
|------|-------|------|-----|-----|------|--------|-----|----|---------|------|----|------|------|-----|----|----------|------|----|-----|---|----|
| 12 | 6 4 | 30 | 18 | 29 | 8 | M5X0.8 | 3 | 6 | M4X0.7 | 11.5 | 18 | 38 | 42.5 | 4.5 | 5 | M3X0.5 | 3.3 | 8 | 1.5 | | |
| 16 | 6 4 | 30 | 18 | 29 | 8 | M5X0.8 | 3 | 6 | 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 | | |

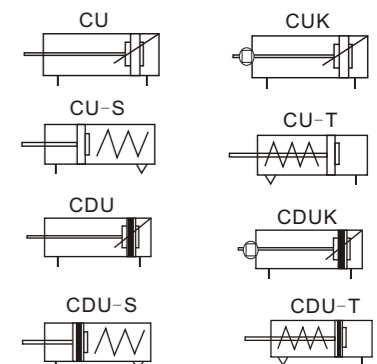
CU Series Free Installation Cylinder

Ordering Code CU Series Free Installation Cylinder



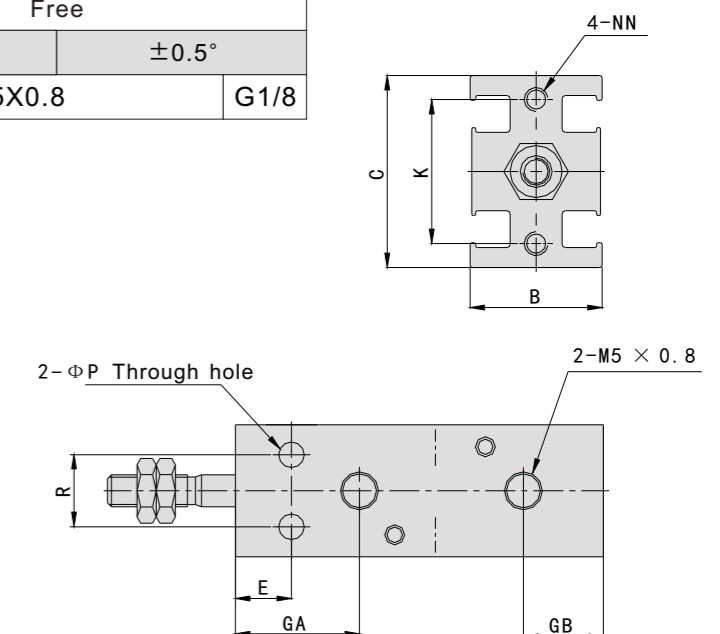
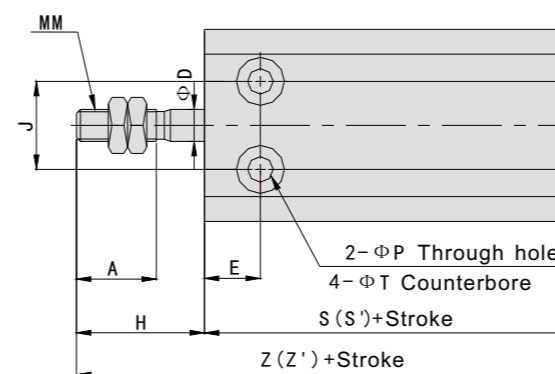
Specifications

| 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 | | |
| | Single acting | Standard | 0.18 | 0.13 | 0.11 | | |
| | | Non-rotating | 0.23 | 0.18 | 0.16 | | |
| Max. pressure | | 0.7Mpa | | | | | |
| Working temperature | | 5~60°C | | | | | |
| Cushion type | | Rubber cushion | | | | | |
| Tolerance of stroke (mm) | | +0.1 0 | | | | | |
| Lubrication | | Not required | | | | | |
| Installation | | Free | | | | | |
| Non-rotating accuracy | | ±0.8° | | | ±0.5° | | |
| Port size | | M5X0.8 | | | | G1/8 | |



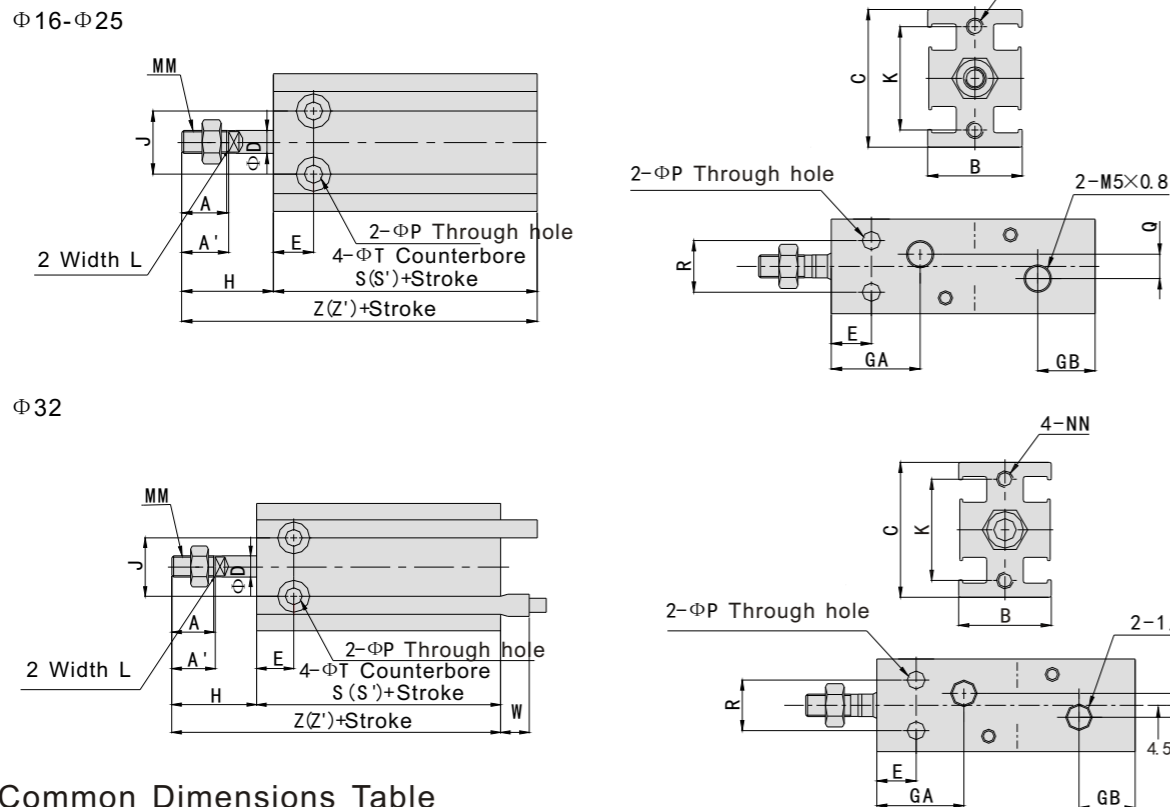
Main Dimensions

Φ6-Φ10



CU Series Free Installation Cylinder

Main Dimensions



Common Dimensions Table

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

Double Acting

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

Single Acting (With spring Return)

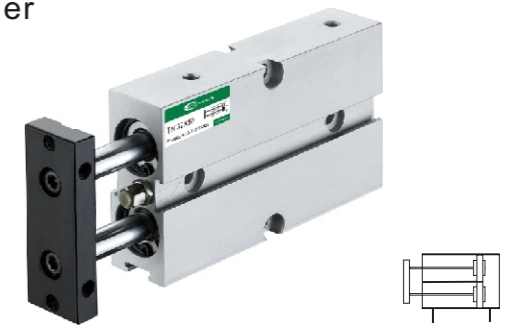
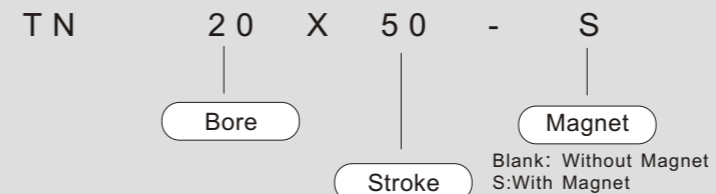
| Model | H | Standard | | | | | | W | With Magnet | | | | | |
|----------|----|----------|------|------|-----|------|------|-----|-------------|------|------|-----|------|------|
| | | S | | | Z | | | | S' | | | Z' | | |
| | | 5st | 10st | 15st | 5st | 10st | 15st | | 5st | 10st | 15st | 5st | 10st | 15st |
| C□U6-□S | 13 | 38 | 43 | 48 | 51 | 56 | 61 | 2.5 | 38 | 43 | 48 | 51 | 56 | 61 |
| C□U10-□S | 16 | 41 | 46 | 56 | 57 | 62 | 72 | 1 | 41 | 46 | 56 | 57 | 62 | 72 |
| C□U16-□S | 16 | 35 | 40 | 50 | 51 | 56 | 66 | 0 | 45 | 50 | 60 | 61 | 66 | 76 |
| C□U20-□S | 19 | 41 | 46 | 56 | 60 | 65 | 75 | 1 | 51 | 56 | 66 | 70 | 75 | 85 |
| C□U25-□S | 23 | 45 | 50 | 60 | 68 | 73 | 83 | -1 | 55 | 60 | 70 | 78 | 83 | 93 |
| C□U32-□S | 27 | 47 | 52 | 62 | 74 | 79 | 89 | -4 | 57 | 62 | 72 | 89 | 99 | 114 |

Single Acting (With spring Extend)

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

TN Series Double-shaft Cylinder

Ordering Code TN Series Double-shaft Cylinder

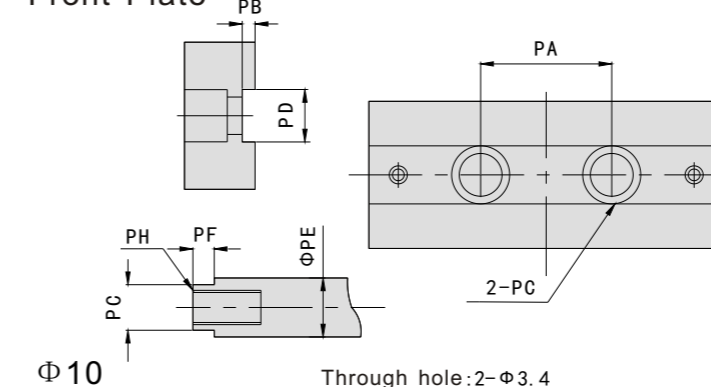


Specifications

| 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°C | | | | |
| 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

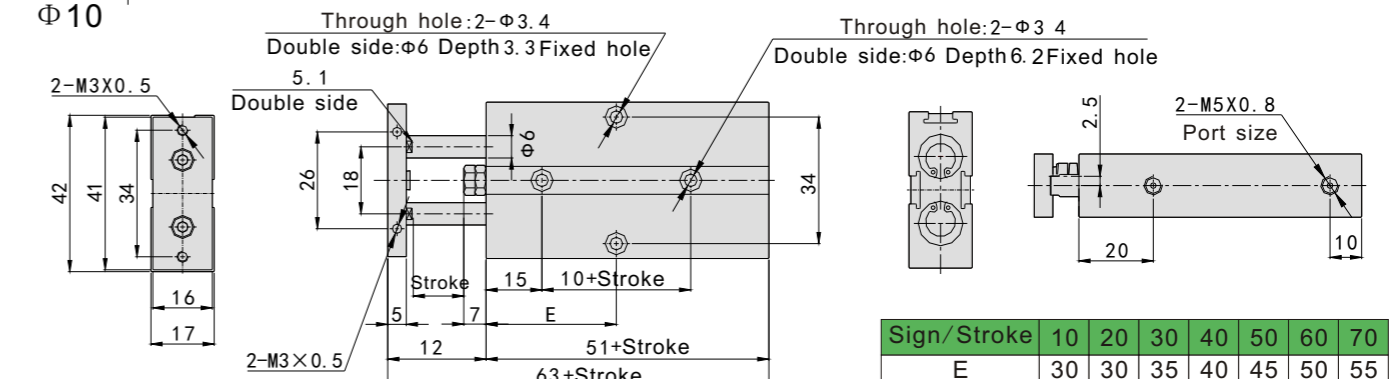
Front Plate



| 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

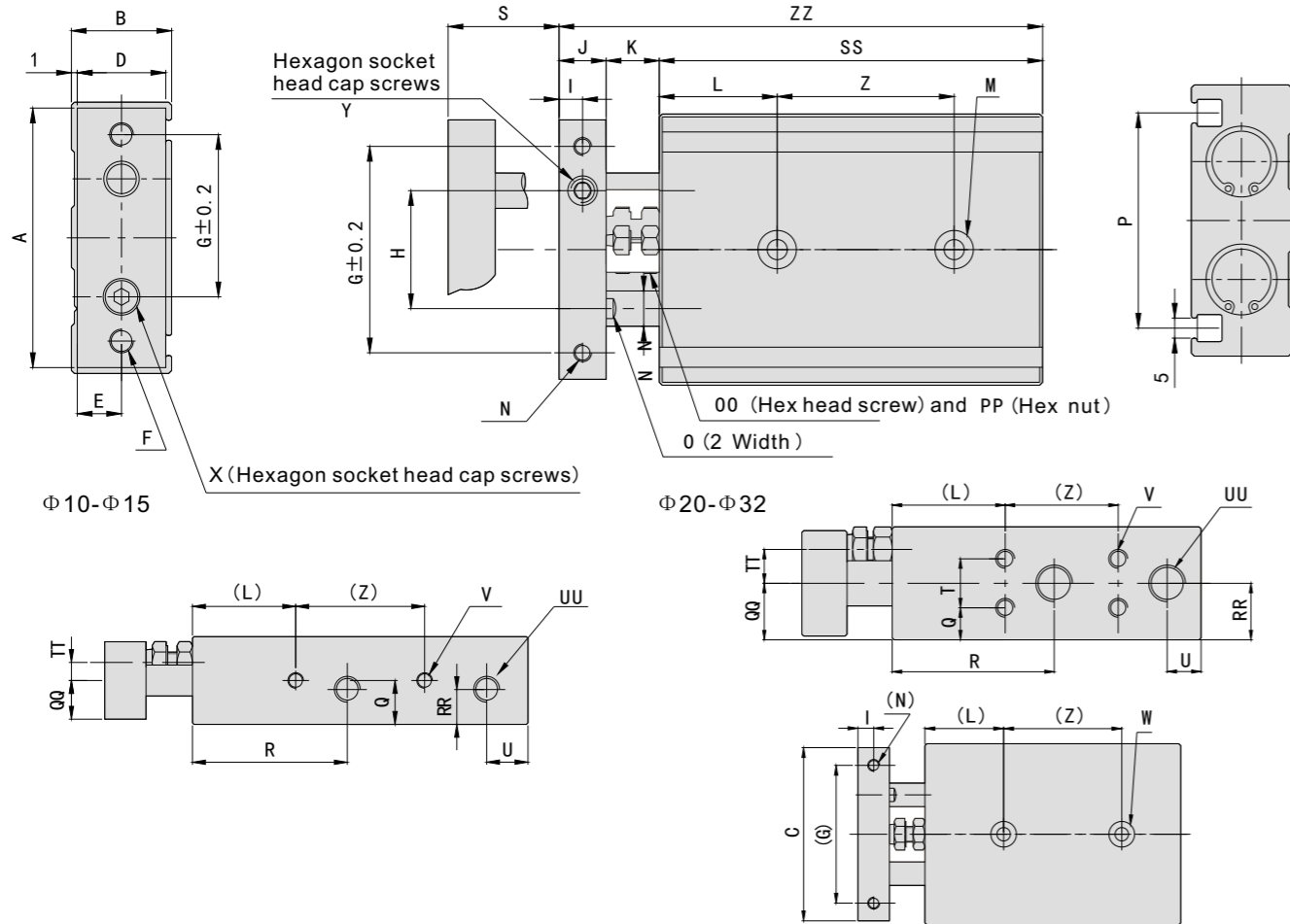


| Sign/Stroke | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|-------------|----|----|----|----|----|----|----|
| E | 30 | 30 | 35 | 40 | 45 | 50 | 55 |

CXS Series Double-shaft Cylinder

Main Dimensions

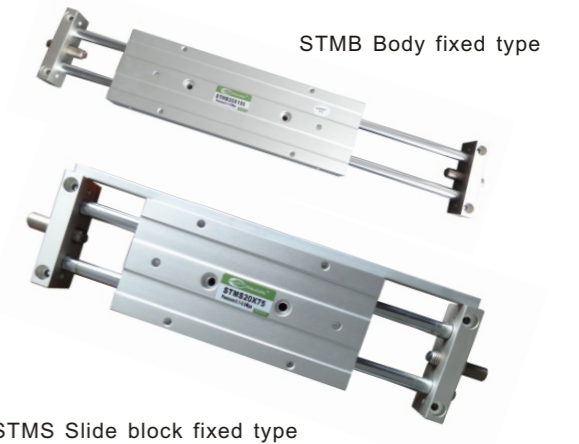
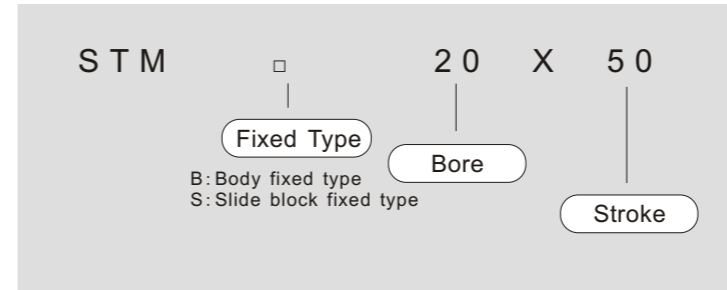
CXS□10 \ 15 \ 20 \ 25 \ 32



| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□10-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□10-30 | 46 | 17 | 44 | 15 | 7.5 | 2-M4 x0.7 Through hole | 35 | 20 | 4 | 8 | 9 | 20 | 2-Φ3.4 Through hole 2-Φ6.5 Thread depth 3.3 | 2-M3 x0.5 Thread depth 5 | Φ6 | 5 | M4 x 0.7 x 14.5 L | M4 x 0.7 | 8.5 | 7 | 30 | 7 | 10 | 65 | | | | | | | | | | | | | | | |
| CXS□10-40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□10-50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□15-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□15-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□15-30 | 58 | 20 | 56 | 18 | 9 | 2-M5 x0.8 Through hole | 45 | 25 | 5 | 10 | 9 | 30 | 2-Φ4.3 Through hole 2-Φ8 Counterbore 4.4 | 2-M4 x0.7 Thread depth 6 | Φ8 | 6 | M4 x 0.7 x 14.5 L | M4 x 0.7 | 10 | 10 | 38.5 | 10 | 10 | 80 | | | | | | | | | | | | | | | |
| CXS□15-40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□15-50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-40 | 64 | 25 | 62 | 23 | 11.5 | 2-M5 x0.8 Through hole | 50 | 28 | 6 | 12 | 12 | 30 | 2-Φ5.5 Through hole 2-Φ9.5 Thread depth 5.3 | 2-M4 x0.7 Thread depth 6 | Φ10 | 8 | M6 x 1.0 x 18.5 L | M6 x 1.0 | 7.7 | 12.5 | 45 | 7.75 | 40 | 90 | | | | | | | | | | | | | | | |
| CXS□20-50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□20-100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-40 | 80 | 30 | 78 | 28 | 14 | 2-M6 x1.0 Through hole | 60 | 35 | 6 | 12 | 12 | 30 | 2-Φ6.9 Through hole 2-Φ11 Counterbore 6.3 | 2-M5 x0.8 Thread depth 7.5 | Φ12 | 10 | M6 x 1.0 x 18.5 L | M6 x 1.0 | 8.5 | 15 | 46 | 15 | 40 | 112 | | | | | | | | | | | | | | | |
| CXS□25-50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□25-100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□32-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□32-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□32-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CXS□32-40 | 98 | 38 | 96 | 36 | 18 | 2-M6 x1.0 Through hole | 75 | 44 | 8 | 16 | 14 | 30 | 2-Φ6.9 Through hole 2-Φ11 Counterbore 6.3 | 2-M5 x0.8 Thread depth 8 | Φ16 | 13 | M8 x 1.25 x 23 L | M8 x 1.25 | 9 | 19 | 56 | 19 | 40 | 122 | | | | | | | | | | | | | | | |
| 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 0 mm | | | |
| Cushion type | Shock absorber (Optional) | | | |
| No-rotating accuracy | ±0.1° | | ±0.05° | |
| Port size | M5X0.8 | | | G1/8 |

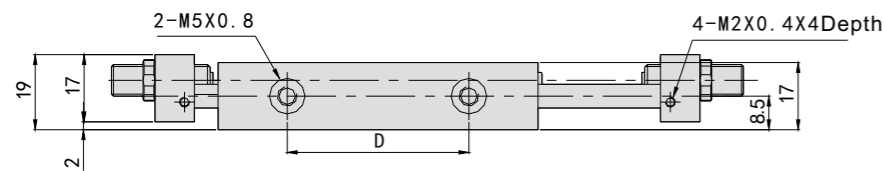
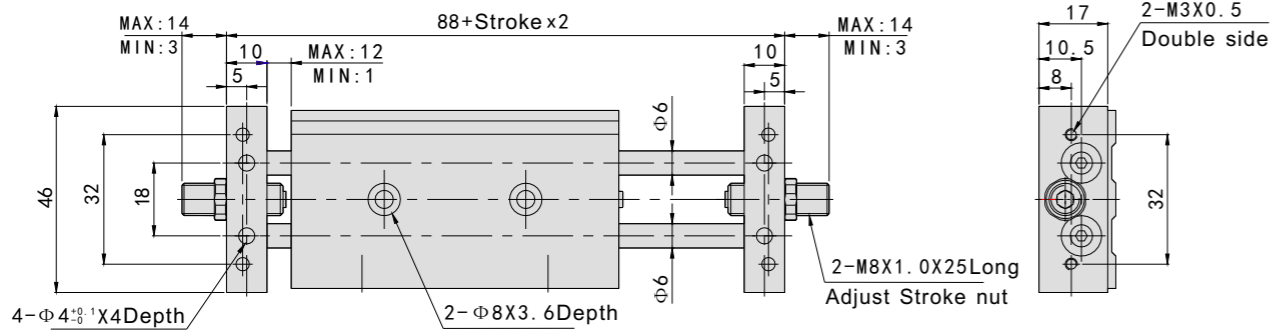
Stroke remark

| 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 | 300 |
| 25 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |

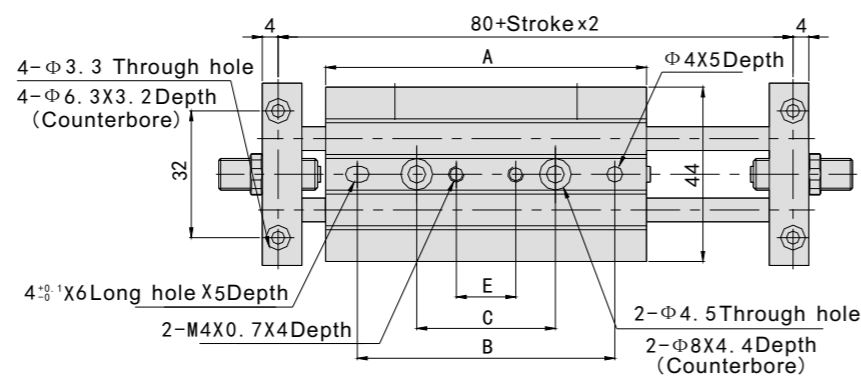
STM Series Slide Cylinder

Main Dimensions

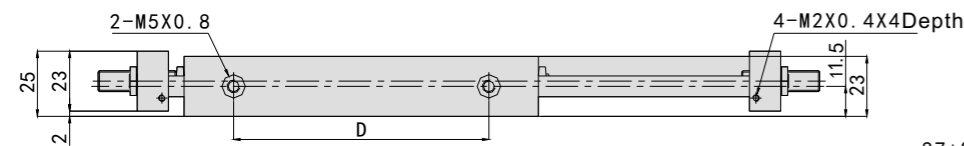
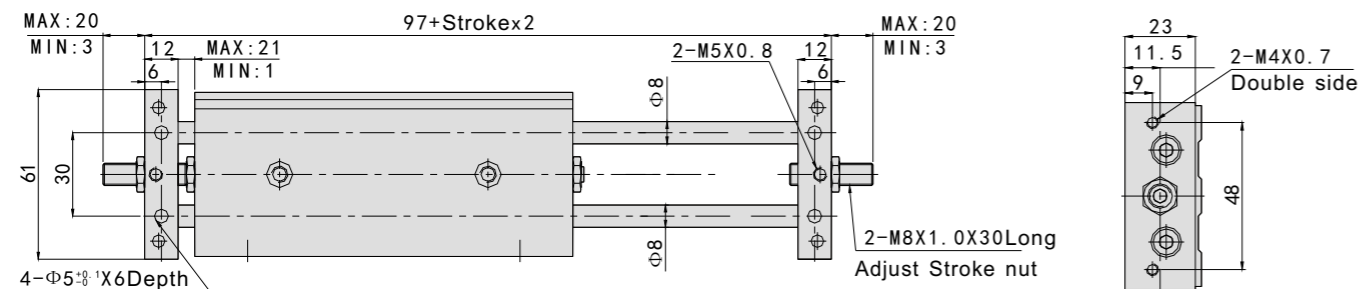
Φ10



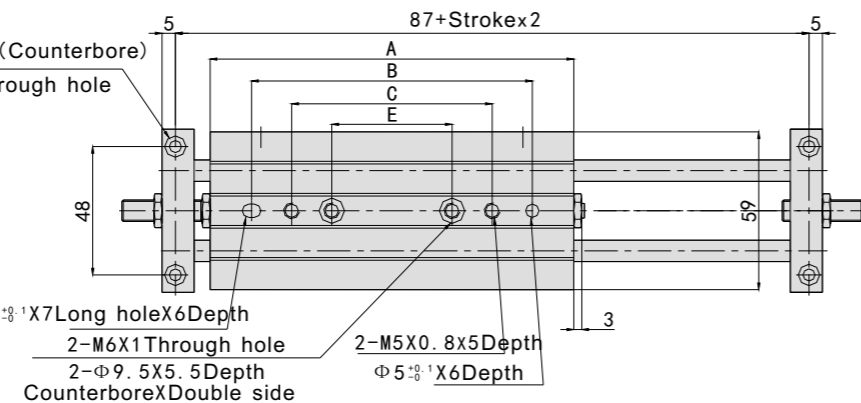
| Sign/Stroke | 25 | 50 | 75 | 100 |
|-------------|----|-----|-----|-----|
| A | 81 | 106 | 131 | 156 |
| B | 65 | 85 | 85 | 85 |
| C | 35 | 60 | 60 | 60 |
| D | 46 | 71 | 96 | 121 |
| E | 15 | 40 | 40 | 40 |



Φ16



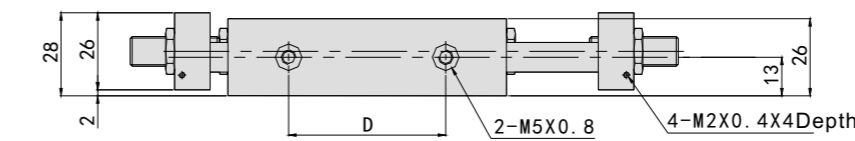
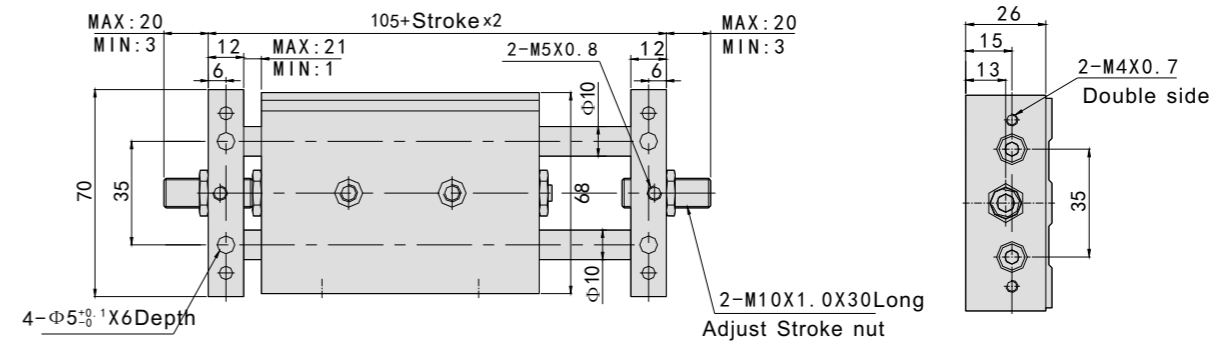
| Sign/Stroke | A | B | C | D | E |
|-------------|-----|-----|-----|-----|----|
| 25 | 86 | 55 | - | 48 | 25 |
| 50 | 111 | 80 | - | 73 | 40 |
| 75 | 136 | 105 | 75 | 98 | 45 |
| 100 | 161 | 130 | 100 | 123 | 70 |
| 125 | 186 | 150 | 120 | 148 | 90 |
| 150 | 211 | 150 | 120 | 173 | 90 |
| 175 | 236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



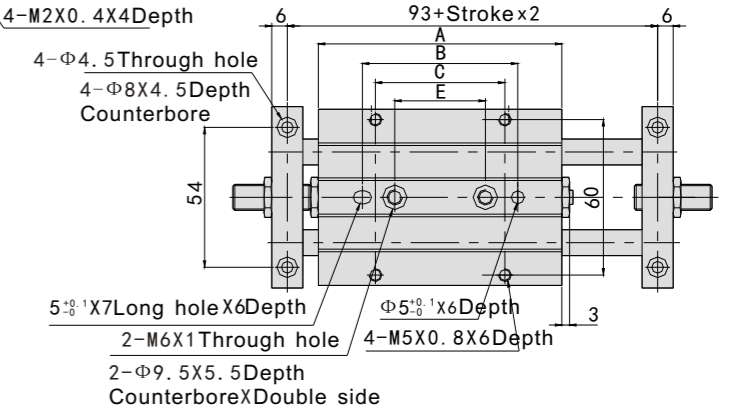
STM Series Slide Cylinder

Main Dimensions

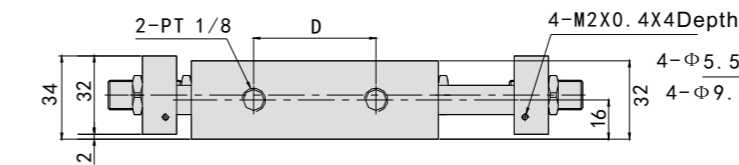
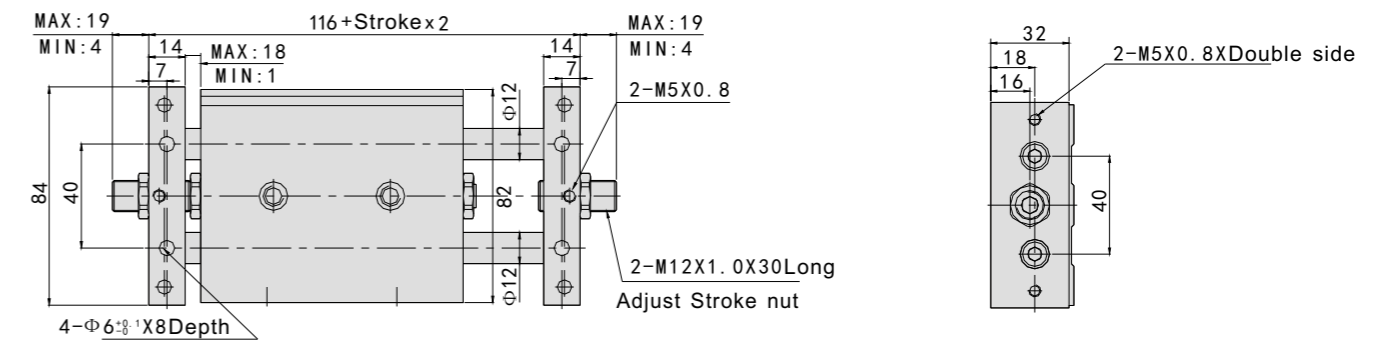
Φ20



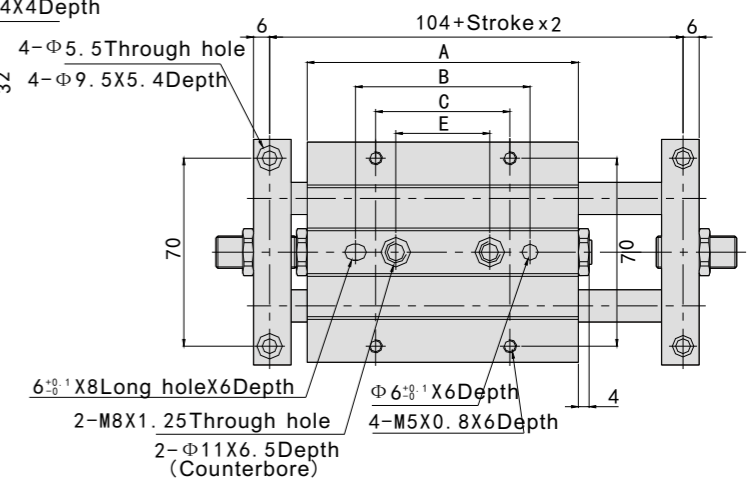
| Stroke/Sign | A | B | C | D | E |
|-------------|-----|-----|-----|-----|----|
| 25 | 94 | 60 | 50 | 53 | 35 |
| 50 | 119 | 85 | 50 | 78 | 45 |
| 75 | 144 | 110 | 75 | 103 | 45 |
| 100 | 169 | 135 | 100 | 128 | 70 |
| 125 | 194 | 150 | 120 | 153 | 90 |
| 150 | 219 | 150 | 120 | 178 | 90 |
| 175 | 244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



Φ25

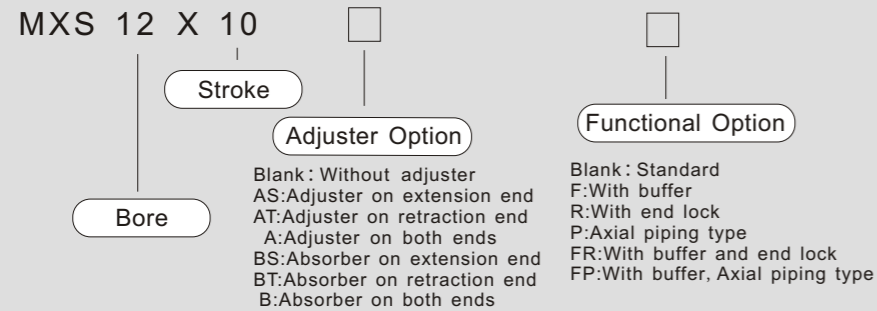


| Stroke/Sign | A | B | C | D | E |
|-------------|-----|-----|-----|-----|-----|
| 25 | 101 | 65 | 50 | 50 | 35 |
| 50 | 126 | 90 | 50 | 75 | 45 |
| 75 | 151 | 115 | 75 | 100 | 45 |
| 100 | 176 | 140 | 100 | 125 | 70 |
| 125 | 201 | 140 | 100 | 150 | 95 |
| 150 | 226 | 140 | 100 | 175 | 100 |
| 175 | 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

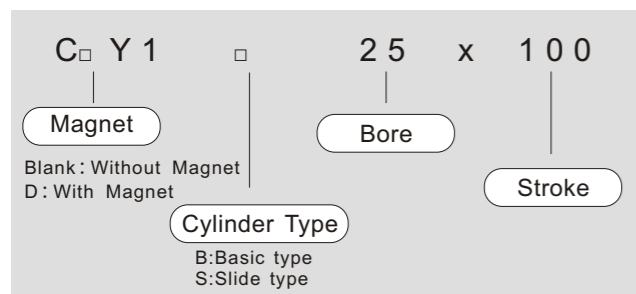


Specifications

| 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

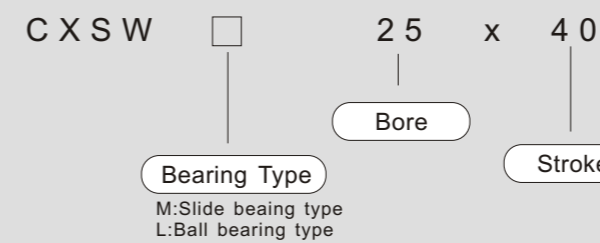


| Bore (mm) | 6 | 10 | 15 | 25 | 32 | 40 | 50 | 63 |
|---------------------|-----------------------------|----|----|----|----|----|----|----|
| Acting type | Double acting | | | | | | | |
| Working medium | Clean air (40µm Filtration) | | | | | | | |
| Working temperature | -5~60°C | | | | | | | |

| 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

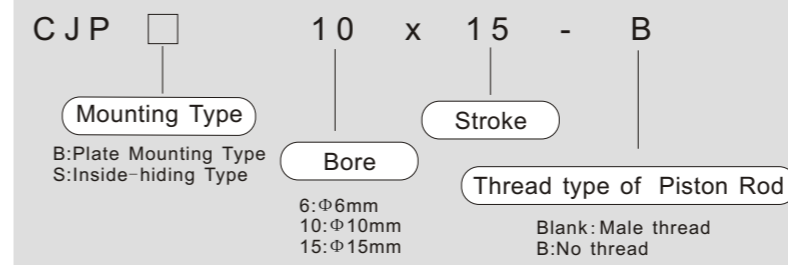


Specifications

| 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°C | | | | | |
| 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



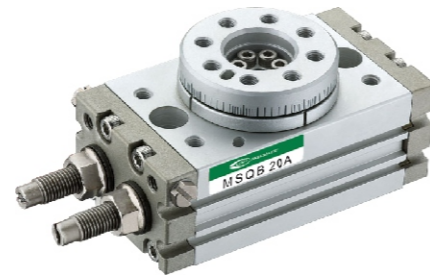
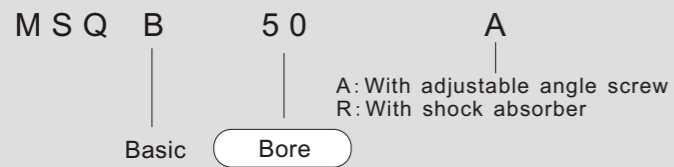
Specifications

| 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°C | | |
| 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

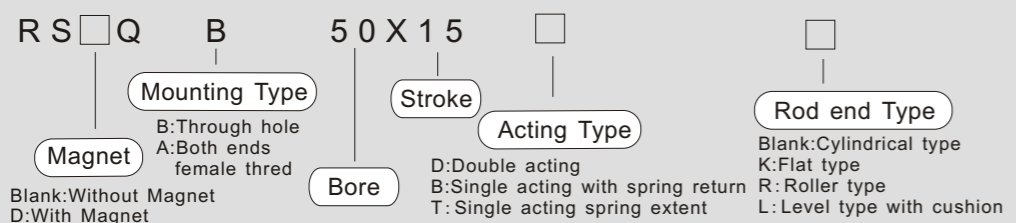


Specifications

| 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

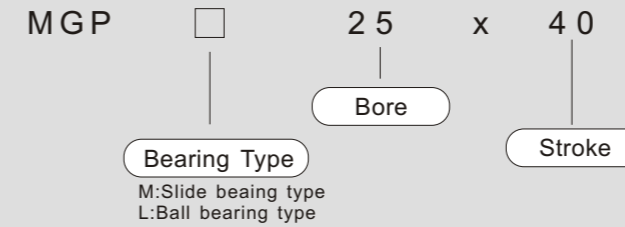


Specifications

| 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°C With magnet: -10~60°C | | | |
| Cushion type | Both ends rubber cushion | | | |
| Port size | G1/8" | | | |

MGP Series Three-shaft Cylinder

Ordering Code MGP Series Three-shaft Cylinder

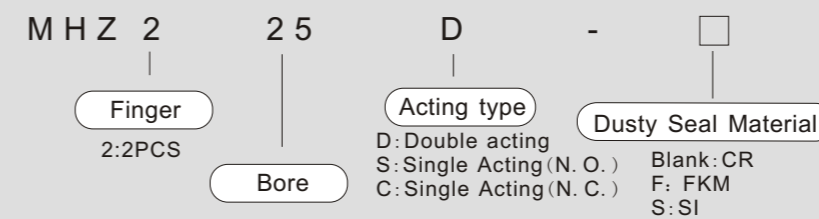


Specifications

| Bore (mm) | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|------------------------|------------------------------------|--------|--------|--------|--------|--------|-------|----|------|-----|
| Working medium | Clean air (40µm Filtration) | | | | | | | | | |
| Acting type | Double acting | | | | | | | | | |
| 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



Specifications

| Bore (mm) | 6 | 10 | 16 | 20 | 25 | 32 | 40 |
|------------------------------|-----------------------------|----------|----------|----------|----|----------|----|
| Working medium | Clean air (40µm Filtration) | | | | | | |
| Working temperature | -10~60°C | | | | | | |
| 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

MHL 2 - 25 D

Finger 2:2PCS

Acting type D: Double acting

Bore

Finger Open/Close Stroke

| 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°C | | | | | |
| 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

MHT 2 - 32 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






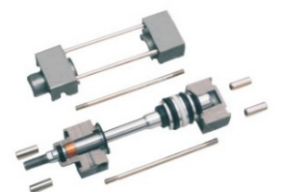
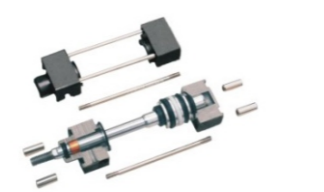

MA Series
Full Stainless Steel
Pneumatic Cylinder
Φ16-Φ50



SC Series
Full Stainless Steel
Pneumatic Cylinder
Φ32-Φ63

Cylinder Assembly Kits

Full Set Kits



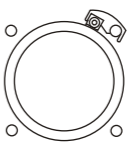



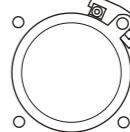



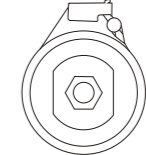



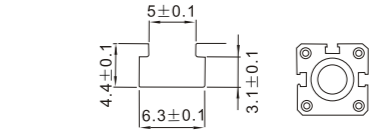


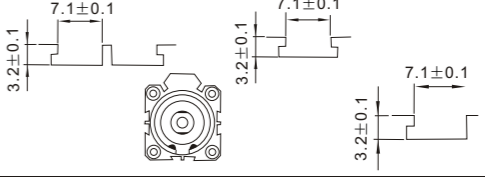


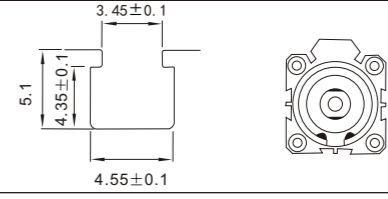
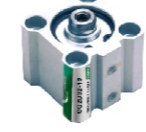

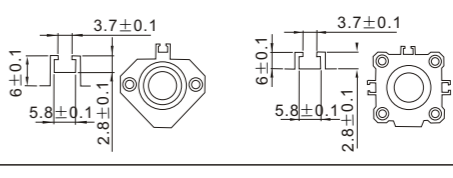


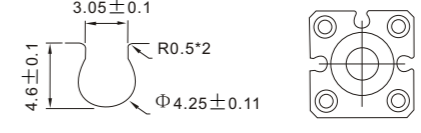
| | | |
|---|---|---|
|  |  |  |
| DNC (ISO6431&VDMA24562) Bore Side: $\Phi 32, \Phi 40, \Phi 50, \Phi 63, \Phi 80, \Phi 100, \Phi 125$ | MI (ISO6432) Bore Side: $\Phi 8, \Phi 10, \Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32$ | MAL Bore Side: $\Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40$ |
|  |  |  |
| 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: $\Phi 4, \Phi 5, \Phi 6, \Phi 8, \Phi 10, \Phi 12, \Phi 16, \Phi 20, \Phi 25, \Phi 32, \Phi 40, \Phi 45, \Phi 50, \Phi 60, \Phi 70, \Phi 80, \text{etc.}$ |

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  |  Dimensions: $5 \pm 0.1, 4.4 \pm 0.1, 6.3 \pm 0.1, 3.1 \pm 0.1$ | No Need Clamp |
|  | CSI-J  |  Dimensions: $7.1 \pm 0.1, 3.2 \pm 0.1, 7.1 \pm 0.1, 7.1 \pm 0.1, 3.2 \pm 0.1$ | No Need Clamp |
|  | CSI-G  |  Dimensions: $3.45 \pm 0.1, 5.1, 4.35 \pm 0.1, 4.55 \pm 0.1$ | No Need Clamp |
|  | CSI-J1  |  Dimensions: $3.7 \pm 0.1, 6 \pm 0.1, 5.8 \pm 0.1, 2.8 \pm 0.1, 3.7 \pm 0.1, 6 \pm 0.1, 5.8 \pm 0.1, 2.8 \pm 0.1$ | No Need Clamp |
|  | CSI-H  |  Dimensions: $3.05 \pm 0.1, 4.6 \pm 0.1, R0.5^2, \Phi 4.25 \pm 0.11$ | No Need Clamp |