

SC Series Standard Cylinder



Ordering code

| | | | | | | | | | | | |
|--|--|---|-------------|---|---------------|---|--|---|--|---|---|
| SC | D | - | 50 | X | 50 | - | 25 | - | S | - | LB |
| Type SC: Pull rod type SU: Hidden pull rod type | Blank: Standard double acting D: Double-shaft double acting J: Double-shaft and adjustable stroke type | | Bore | | Stroke | | SCJ adjustable stroke type SUJ adjustable stroke type | | Magnet S: With magnet Blank: Without magnet | | Mounting Blank: Basic type LB: Front and back fixed FA: Front cover fixation (Front flange) FB: Back cover fixation (Rear flange) CA: Back cover fixation (Single Clevis) CB: Back cover fixation (double Clevis) TC: Centre Turnion TC-M: Swinging type attaching foot seat |

Specifications

| Bore (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|------------------------|------------------------------|-------|----|-------|----|-------|-----|-------|-----|
| Operation | Double acting | | | | | | | | |
| Fluid | Air | | | | | | | | |
| * Mounting | Basic FA FB CA CB LB TC TC-M | | | | | | | | |
| Operating pressure | 1.0~9.0 Kg/cm ² | | | | | | | | |
| Proof pressure | 13.5 Kg/cm ² | | | | | | | | |
| Operating temperature | 0~70°C | | | | | | | | |
| Operating piston speed | 50~800 mm/s | | | | | | | | |
| Cushioning | Adjustable cushioning | | | | | | | | |
| Cushioning stroke | 20 | | | 26 | | | 45 | | |
| Port size | G1/8" | G1/4" | | G3/8" | | G1/2" | | G3/4" | |


*SCD, SCJ Mounting: FA, FB, LB, TC & TC-M.

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● Stroke

| Bore(mm) | Standard stroke | Max. stroke | Allowable stroke |
|----------|--|-------------|------------------|
| 32 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 | 1000 | 2000 |
| 40 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 | 1200 | 2000 |
| 50 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1200 | 2000 |
| 63 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |
| 80 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |
| 100 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |
| 125 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |
| 160 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |
| 200 | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500 | 2000 |

● Theoretical force

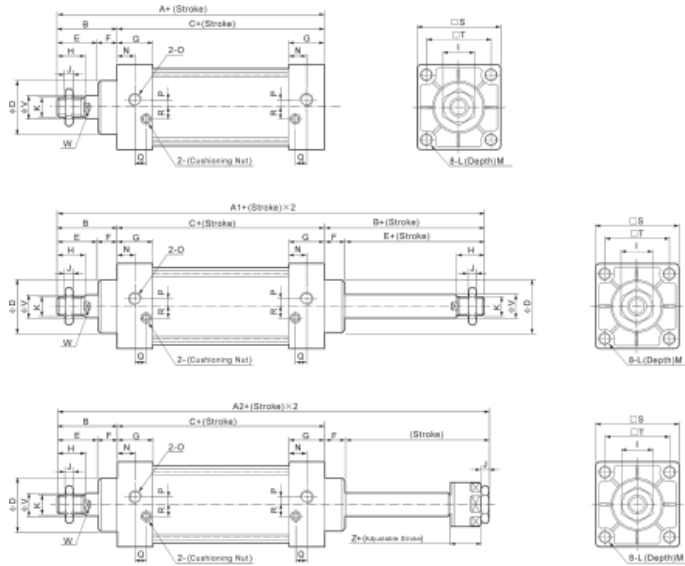
● Unit:N 

| Bore size | | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | | | | | | | | | |
|-------------------------------|-----|---------------|-------|---------------|-------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|---------|---------------|---------|---------|---------|
| Rod diameter | | 12 | 16 | 20 | 20 | 25 | 25 | 32 | 40 | 40 | | | | | | | | | |
| Operation | | Double acting | | Double acting | | Double acting | | Double acting | | Double acting | | Double acting | | Double acting | | Double acting | | | |
| | | Out | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out | In | | |
| Piston area(mm ²) | | 804 | 690 | 1256 | 1055 | 1963 | 1649 | 3117 | 2803 | 5026 | 4536 | 7853 | 7362 | 12270 | 11460 | 20100 | 18840 | 31420 | 30140 |
| Operating pressure (MPa) | 0.1 | 80.4 | 69.0 | 125.6 | 105.5 | 196.3 | 164.9 | 311.7 | 280.3 | 502.6 | 453.6 | 785.3 | 736.2 | 1227.0 | 1146.0 | 2010.0 | 1884.0 | 3142.0 | 3014.0 |
| | 0.2 | 160.8 | 138.0 | 251.2 | 211.0 | 392.6 | 329.8 | 623.4 | 560.6 | 1005.2 | 907.2 | 1570.6 | 1472.4 | 2454.0 | 2292.0 | 4020.0 | 3768.0 | 6284.0 | 6028.0 |
| | 0.3 | 241.2 | 207.0 | 376.8 | 316.5 | 588.9 | 494.7 | 935.1 | 840.9 | 1507.8 | 1360.8 | 2355.9 | 2208.6 | 3681.0 | 3438.0 | 6030.0 | 5652.0 | 9426.0 | 9042.0 |
| | 0.4 | 321.6 | 276.0 | 502.4 | 422.0 | 785.2 | 659.6 | 1246.8 | 1121.2 | 2010.4 | 1814.4 | 3141.2 | 2944.8 | 4908.0 | 4584.0 | 8040.0 | 7536.0 | 12568.0 | 12056.0 |
| | 0.5 | 402.0 | 345.0 | 628.0 | 527.5 | 981.5 | 824.5 | 1558.5 | 1401.5 | 2513.0 | 2268.0 | 3926.5 | 3681.0 | 6135.0 | 5730.0 | 10050.0 | 9420.0 | 15710.0 | 15070.0 |
| | 0.6 | 482.4 | 414.0 | 753.6 | 633.0 | 1177.8 | 989.4 | 1870.2 | 1681.8 | 3015.6 | 2721.6 | 4711.8 | 4417.2 | 7362.0 | 6876.0 | 12060.0 | 11304.0 | 18852.0 | 18084.0 |
| | 0.7 | 562.8 | 483.0 | 879.2 | 738.5 | 1374.1 | 1154.3 | 2181.9 | 1962.1 | 3518.2 | 3175.2 | 5497.1 | 5153.4 | 8589.0 | 8022.0 | 14070.0 | 13188.0 | 21994.0 | 21098.0 |
| | 0.8 | 643.2 | 552.0 | 1004.8 | 844.0 | 1570.4 | 1319.2 | 2493.6 | 2242.4 | 4020.8 | 3628.8 | 6282.4 | 5889.6 | 9816.0 | 9168.0 | 16080.0 | 15072.0 | 25136.0 | 24112.0 |
| | 0.9 | 723.6 | 621.0 | 1130.4 | 949.5 | 1766.7 | 1484.1 | 2805.3 | 2522.7 | 4523.4 | 4082.4 | 7067.7 | 6625.8 | 11043.0 | 10314.0 | 18090.0 | 16956.0 | 28278.0 | 27126.0 |

SC Series Standard Cylinder

● Dimensions

SC Series



| Bore size / Symbol | A | A1 | A2 | B | C | D | E | F | G | H | I | J | K |
|--------------------|----------|------|------|------|-----|-----|-----|-----|------|----|----|----|----------|
| 32 | 140 | 187 | 182 | 47 | 93 | 28 | 32 | 15 | 27.5 | 22 | 17 | 6 | M10×1.25 |
| 40 | 142 | 191 | 185 | 48 | 93 | 32 | 34 | 15 | 27.5 | 24 | 17 | 7 | M12×1.25 |
| 50 | 150 | 207 | 196 | 57 | 93 | 38 | 42 | 15 | 27.5 | 32 | 23 | 8 | M16×1.5 |
| 63 | 153 | 210 | 199 | 57 | 96 | 38 | 42 | 15 | 27.5 | 32 | 23 | 8 | M16×1.5 |
| 80 | 183 | 258 | 243 | 75 | 108 | 47 | 54 | 21 | 33 | 40 | 26 | 10 | M20×1.5 |
| 100 | 183 | 258 | 243 | 75 | 108 | 47 | 54 | 21 | 33 | 40 | 26 | 10 | M20×1.5 |
| 125 | 226 | / | / | 104 | 122 | 55 | 70 | 34 | 33 | 54 | 40 | 10 | M27×2 |
| 160 | 291 | / | / | 123 | 168 | 62 | 91 | 32 | 48 | 72 | 55 | 18 | M36×2 |
| 200 | 347 | / | / | 167 | 180 | 80 | 112 | 55 | 48 | 72 | 55 | 18 | M36×2 |
| Bore size / Symbol | L | M | N | O | P | Q | R | S | T | V | W | Z | |
| 32 | M6×1 | 9.5 | 13.5 | G1/8 | 3.5 | 7.5 | 7 | 45 | 33 | 12 | 12 | 21 | |
| 40 | M6×1 | 9.5 | 1.5 | G1/4 | 6 | 8.2 | 9 | 50 | 37 | 16 | 14 | 21 | |
| 50 | M6×1 | 9.5 | 13.5 | G1/4 | 8.5 | 8.2 | 9 | 62 | 47 | 20 | 17 | 23 | |
| 63 | M8×1.25 | 9.5 | 13.5 | G3/8 | 7 | 8.2 | 8.5 | 75 | 56 | 20 | 17 | 23 | |
| 80 | M10×1.5 | 11.5 | 16.5 | G3/8 | 10 | 9.5 | 14 | 94 | 70 | 25 | 22 | 29 | |
| 100 | M10×1.5 | 11.5 | 16.5 | G1/2 | 11 | 9.5 | 14 | 112 | 84 | 25 | 22 | 29 | |
| 125 | M12×1.75 | 15.5 | 16.5 | G1/2 | / | / | / | 140 | 110 | 32 | 27 | / | |
| 160 | M16×2 | 17.5 | 25 | G1/2 | / | / | / | 180 | 140 | 40 | 36 | / | |
| 200 | M16×2 | 17.5 | 25 | G3/4 | / | / | / | 220 | 175 | 40 | 36 | / | |



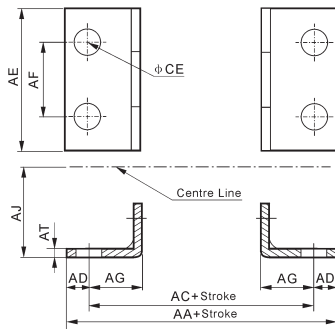
VOGUE PNEUMATICS

Ningbo Vogue Pneumatics Industry Co.,Ltd.

SC Series Standard Cylinder Accessory

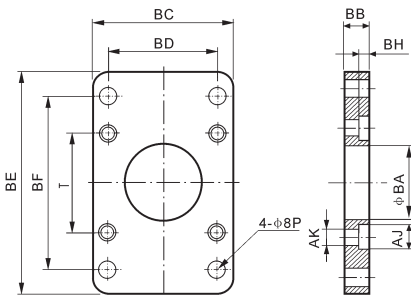
● Dimensions

LB foot rest



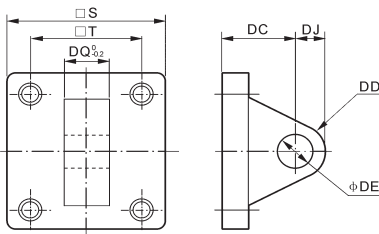
| Symbol / Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|---------------|------|------|------|-----|-----|-----|-----|-----|-----|
| AA | 153 | 169 | 173 | 184 | 200 | 210 | 249 | 328 | 380 |
| AC | 134 | 140 | 149 | 158 | 168 | 174 | 213 | 288 | 320 |
| AD | 9.5 | 14.5 | 12 | 12 | 16 | 18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

FA、FB flange



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

CA single clevis



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

63

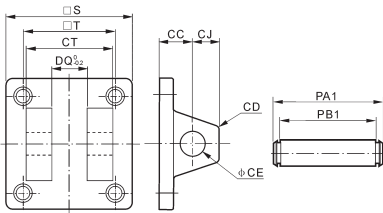
| EXECUTION COMPONENT |

TEL:0086-574-88870283

SC Series Standard Cylinder Accessory

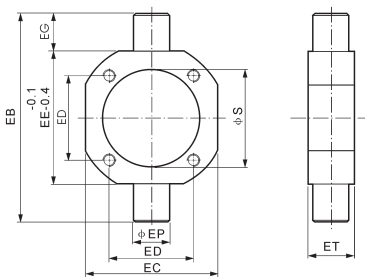
● Dimensions

CB double clevis



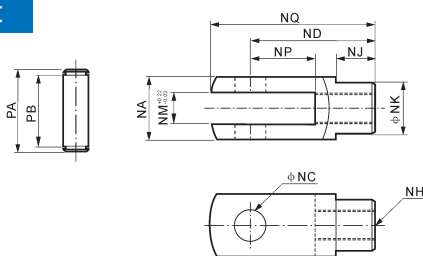
| Symbol / Bore | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|---------------|------|------|------|------|------|------|-------|-------|-------|
| CC | 19 | 19 | 19 | 19 | 32 | 32 | 50 | 55 | 60 |
| CD | 5 | 5 | 3 | 3 | 8 | 8 | 25 | 30 | 30 |
| CE | 12 | 14 | 14 | 14 | 20 | 20 | 25 | 30 | 30 |
| 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 |
| PAI | 41 | 51.8 | 60.3 | 60.3 | 73.8 | 73.8 | 130 | 170 | 170 |
| PBI | 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 |

TC centre turnion

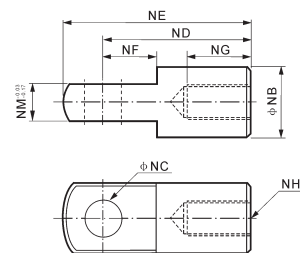


| Symbol / Bore | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|---------------|------|------|------|------|-------|-------|-------|-------|
| EB | 113 | 126 | 138 | 164 | 182 | 210 | 264 | 336 |
| EC | 63 | 76 | 88 | 114 | 132 | 160 | 200 | 240 |
| ED | 37 | 47 | 56 | 70 | 84 | 110 | 140 | 175 |
| EE | 63 | 76 | 88 | 114 | 132 | 160 | 200 | 240 |
| EG | 25 | 25 | 25 | 25 | 25 | 25 | 32 | 48 |
| EP | 25 | 25 | 25 | 25 | 25 | 25 | 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 |

Y joint



I joint



| Symbol / Bore | NA | NB | NC | ND | NE | NF | NG | NH | NJ | NK | NM | NP | NQ | PA | PB |
|---------------|------|----|----|----|-----|----|----|----------|----|----|----|----|-----|------|------|
| 32 | 19 | 20 | 10 | 40 | 52 | 15 | 20 | M10×1.25 | 12 | 18 | 10 | 20 | 52 | 26.2 | 20 |
| 40 | 25.4 | 24 | 12 | 48 | 67 | 24 | 20 | M12×1.25 | 20 | 23 | 12 | 24 | 62 | 32.8 | 26.5 |
| 50 | 32 | 32 | 16 | 64 | 89 | 32 | 23 | M16×1.5 | 22 | 30 | 16 | 32 | 83 | 39.3 | 33 |
| 63 | 32 | 32 | 16 | 64 | 89 | 32 | 23 | M16×1.5 | 22 | 30 | 16 | 32 | 83 | 39.3 | 33 |
| 80 | 44.4 | 40 | 20 | 80 | 112 | 40 | 30 | M20×1.5 | 30 | 39 | 20 | 40 | 105 | 53.3 | 45 |
| 100 | 44.4 | 40 | 20 | 80 | 112 | 40 | 30 | M20×1.5 | 30 | 39 | 20 | 40 | 105 | 53.3 | 45 |