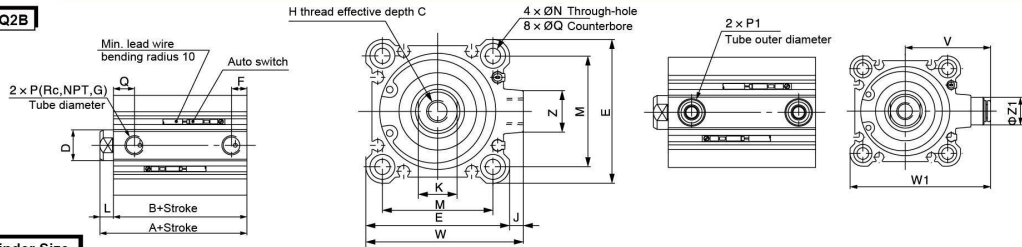


Compact Cylinder

C-CQ2 Series

Dimension(mm)

Through-hole/C-CQ2B



Double-acting Cylinder Size

St=Stroke

| Mode | Stroke Range (mm) | B | ØD | E | F | H | C | ØI | J | K | L | M | ØN | ØO | P | Q | W | Z |
|--------------|-------------------|---------|----|-----|------|---------|----|-----|-----|----|-----|------|-----|-----------------|---------------|------|-------|----|
| C-CQ2B12-□D | 5~30 | 17+st | 6 | 25 | 5 | M3×0.5 | 6 | 32 | - | 5 | 3.5 | 15.5 | 3.5 | 6.5 depth 3.5 | M5×0.8 | 7.5 | - | - |
| C-CQ2B16-□D | 5~30 | 18.5+st | 8 | 29 | 5.5 | M4×0.7 | 8 | 38 | - | 6 | 3.5 | 20 | 3.5 | 6.5 depth 3.5 | M5×0.8 | 8 | - | 10 |
| C-CQ2B20-□D | 5~50 | 19.5+st | 10 | 36 | 5.5 | M5×0.8 | 7 | 47 | - | 8 | 4.5 | 25.5 | 5.5 | 9 depth 7 | M5×0.8 | 9 | - | 10 |
| C-CQ2B25-□D | 5~50 | 22.5+st | 12 | 40 | 5.5 | M6×1.0 | 12 | 52 | - | 10 | 5 | 28 | 5.5 | 9 depth 7 | M5×0.8 | 11 | - | 10 |
| C-CQ2B32-□D | 5~50 | 23+st | 16 | 45 | 5.5 | M8×1.25 | 13 | 60 | 4.5 | 14 | 7 | 34 | 5.5 | 9 depth 7 | M5×0.8 1/8 | 11.5 | 49.5 | 14 |
| C-CQ2B40-□D | 5~50 | 29.5+st | 16 | 52 | 8 | M8×1.25 | 13 | 69 | 5 | 14 | 7 | 40 | 5.5 | 9 depth 7 | 1/8 | 11 | 57 | 14 |
| C-CQ2B50-□D | 10~50 | 30.5+st | 20 | 64 | 10.5 | M10×1.5 | 15 | 86 | 7 | 17 | 8 | 50 | 6.6 | 11 depth 8 | 1/4 | 10.5 | 71 | 19 |
| C-CQ2B63-□D | 10~50 | 36+st | 20 | 77 | 10.5 | M10×1.5 | 15 | 103 | 7 | 17 | 8 | 60 | 9 | 14 depth 10.5 | 1/4 | 15 | 84 | 19 |
| C-CQ2B80-□D | 10~50 | 43.5+st | 25 | 98 | 12.5 | M16×2.0 | 21 | 132 | 6 | 22 | 10 | 77 | 11 | 17.5 depth 13.5 | 3/8 | 16 | 104 | 26 |
| C-CQ2B100-□D | 10~50 | 53+st | 30 | 117 | 13 | M20×2.5 | 27 | 156 | 6.5 | 27 | 12 | 94 | 11 | 17.5 depth 13.5 | 3/8 | 23 | 123.5 | 26 |

Long Stroke

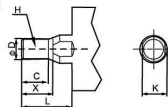
| Mode | Stroke Range (mm) | B | F | P | Q |
|------|-------------------|------|------|-----|------|
| 32 | 55~100 | 33 | 7.5 | 1/8 | 10.5 |
| 40 | 55~100 | 39.5 | 8 | 1/8 | 11 |
| 50 | 55~100 | 40.5 | 10.5 | 1/4 | 10.5 |
| 63 | 55~100 | 46 | 10.5 | 1/4 | 15 |
| 80 | 55~100 | 53.5 | 12.5 | 3/8 | 16 |
| 100 | 55~100 | 63 | 13 | 3/8 | 23 |

Single Acting Cylinder Size

St=Stroke

| Mode | B | | | ØD | E | F | | H | C | ØI | J | K | L | M | ØN | ØO | P | | | Q | | W | Z |
|-------------|------|------|------|----|----|------|------|---------|----|----|-----|----|-----|------|-----|---------------|---------------|------|------|------|------|----|---|
| | 5st | 10st | 20st | | | 5st | 10st | | | | | | | | | | 5st | 10st | 20st | 5st | 10st | | |
| C-CQ2B12-□S | 22 | 27 | - | 6 | 25 | 5 | 5 | M3×0.5 | 6 | 32 | - | 5 | 3.5 | 15.5 | 3.5 | 6.5 depth 3.5 | M5×0.8 | - | 7.5 | 7.5 | - | - | |
| C-CQ2B16-□S | 23.5 | 28.5 | - | 8 | 29 | 5.5 | 5.5 | M4×0.7 | 8 | 38 | - | 6 | 3.5 | 20 | 3.5 | 6.5 depth 3.5 | M5×0.8 | - | 8 | 8 | - | 10 | |
| C-CQ2B20-□S | 24.5 | 29.5 | - | 10 | 36 | 5.5 | 5.5 | M5×0.8 | 7 | 47 | - | 8 | 4.5 | 25.5 | 5.5 | 9 depth 7 | M5×0.8 | - | 9 | 9 | - | 10 | |
| C-CQ2B25-□S | 27.5 | 32.5 | - | 12 | 40 | 5.5 | 5.5 | M6×1.0 | 12 | 52 | - | 10 | 5 | 28 | 5.5 | 9 depth 7 | M5×0.8 | - | 11 | 11 | - | 10 | |
| C-CQ2B32-□S | 28 | 33 | - | 16 | 45 | 5.5 | 7.5 | M8×1.25 | 13 | 60 | 4.5 | 14 | 7 | 34 | 5.5 | 9 depth 7 | M5×0.8 1/8 | - | 11.5 | 10.5 | 49.5 | 18 | |
| C-CQ2B40-□S | 34.5 | 39.5 | - | 16 | 52 | 8 | 8 | M8×1.25 | 13 | 69 | 5 | 14 | 7 | 40 | 5.5 | 9 depth 7 | 1/8 | - | 11 | 11 | 57 | 18 | |
| C-CQ2B50-□S | - | 40.5 | 50.5 | 20 | 64 | 10.5 | 10.5 | M10×1.5 | 15 | 86 | 7 | 17 | 8 | 50 | 6.6 | 11 depth 8 | - | 1/4 | 10.5 | 10.5 | 71 | 22 | |

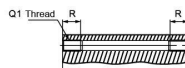
Piston Rod End Male Thread



Piston Rod End Male Thread

| Bore Size (mm) | C | X | ØD | 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 |

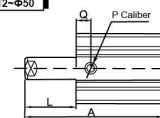
Both ends female thread mounting/C-CQ2A



Both Ends Female Thread

| Bore Size (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 |

Single/Spring extrusion Φ12-Φ50



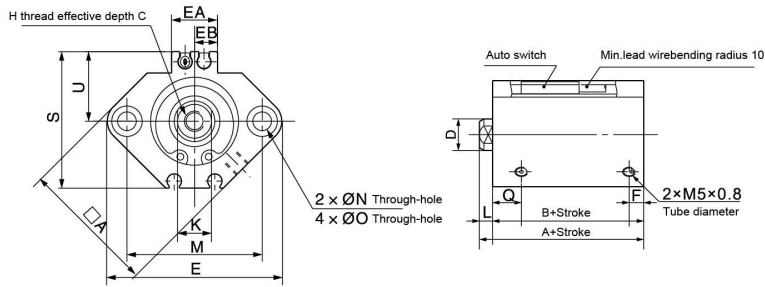
Single/Spring Extrusion

| Bore Size (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 |

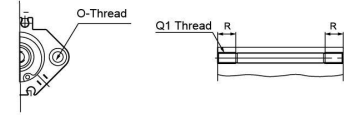
Compact Cylinder C-CQ2 Series

Dimension(mm)

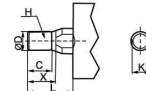
C-CDQ2B Ø12-Ø25



Both end female thread:C-CDQ2A



Rod end male thread



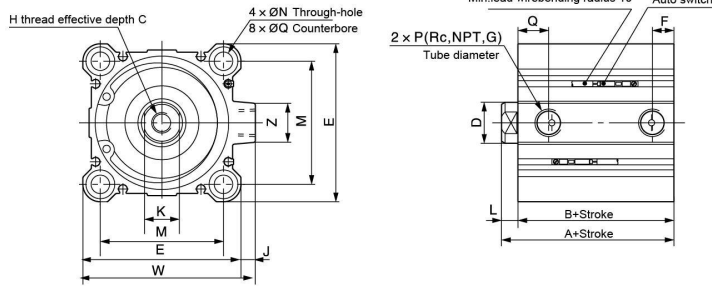
Rod End Female Thread

| Bore Size (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 |

Rod End Male Thread

| Stroke(mm) | C | X | ØD | 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 |

Ø32-Ø50、Ø63-Ø100



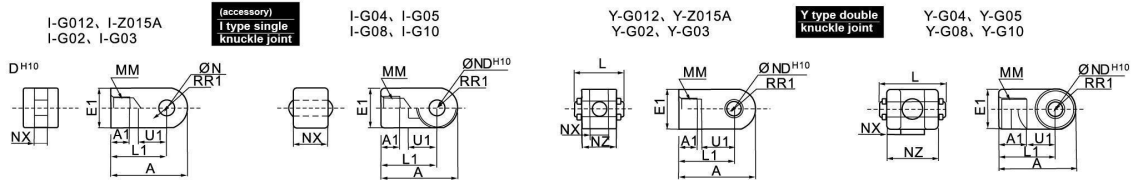
| Mode | Stroke Range (mm) | A | B | ØD | E | F | H | C | ØI | J | K | L | M | ØN | ØO | P | Q | S | U | V | Z |
|------------|-------------------|------|------|----|------|------|---------|----|-----|-----|----|-----|----|-----|---------------|--------|------|-------|------|----|----|
| C-CDQ2B12 | 5~30 | 31.5 | 28 | 6 | 32 | 6.5 | M3×0.5 | 6 | - | - | 5 | 3.5 | 22 | 3.5 | 6.5 depth 3.5 | M5×0.8 | 11 | 35.5 | 19.5 | 25 | - |
| C-CDQ2B16 | 5~30 | 34 | 30.5 | 8 | 38 | 5.5 | M4×0.7 | 8 | - | - | 6 | 3.5 | 28 | 3.5 | 6.5 depth 3.5 | M5×0.8 | 10 | 41.5 | 22.5 | 29 | - |
| C-CDQ2B20 | 5~50 | 36 | 31.5 | 10 | 46.8 | 5.5 | M5×0.8 | 7 | - | - | 8 | 4.5 | 36 | 5.5 | 9 depth 7 | M5×0.8 | 10.5 | 48 | 24.5 | 36 | - |
| C-CDQ2B25 | 5~50 | 37.5 | 32.5 | 12 | 52 | 5.5 | M6×1.0 | 12 | - | - | 10 | 5 | 40 | 5.5 | 9 depth 7 | M5×0.8 | 11 | 53.5 | 27.5 | 40 | - |
| C-CDQ2B32 | 5~50 | 40 | 33 | 16 | 45 | 7.5 | M8×1.25 | 13 | 60 | 4.5 | 14 | 7 | 34 | 5.5 | 9 depth 7 | 1/8 | 10.5 | 58.5 | 31.5 | - | 18 |
| C-CDQ2B40 | 5~50 | 46.5 | 39.5 | 16 | 52 | 8 | M8×1.25 | 13 | 69 | 5 | 14 | 7 | 40 | 5.5 | 9 depth 7 | 1/8 | 11 | 66 | 35 | - | 18 |
| C-CDQ2B50 | 10~50 | 48.5 | 40.5 | 20 | 64 | 10.5 | M10×1.5 | 15 | 86 | 7 | 17 | 8 | 50 | 6.6 | 11 depth 8 | 1/4 | 10.5 | 80 | 41 | - | 22 |
| C-CDQ2B63 | 10~50 | 54 | 46 | 20 | 77 | 10.5 | M10×1.5 | 15 | 103 | 7 | 17 | 8 | 60 | 9 | 14 depth 10.5 | 1/4 | 15 | 93 | 47.5 | - | 22 |
| C-CDQ2B80 | 10~50 | 63.5 | 53.5 | 25 | 98 | 12.5 | M16×2.0 | 21 | 132 | 6 | 22 | 10 | 77 | 11 | 17 depth 13.5 | 3/8 | 16 | 112.5 | 57.5 | - | 26 |
| C-CDQ2B100 | 10~50 | 75 | 63 | 30 | 117 | 13 | M20×2.5 | 27 | 156 | 6.5 | 27 | 12 | 94 | 11 | 17 depth 13.5 | 3/8 | 23 | 132.5 | 67.5 | - | 26 |

Long Stroke Ø55-Ø100

| Mode | Stroke Range (mm) | A | B | F | P | Q |
|------|-------------------|------|------|------|-----|------|
| 32 | 55~100 | 40 | 33 | 7.5 | 1/8 | 10.5 |
| 40 | 55~100 | 46.5 | 39.5 | 8 | 1/8 | 11 |
| 50 | 55~100 | 48.5 | 40.5 | 10.5 | 1/4 | 10.5 |
| 63 | 55~100 | 54 | 46 | 10.5 | 1/4 | 15 |
| 80 | 55~100 | 63.5 | 53.5 | 12.5 | 3/8 | 16 |
| 100 | 55~100 | 75 | 63 | 13 | 3/8 | 23 |

Compact Cylinder C-CQ2 Series

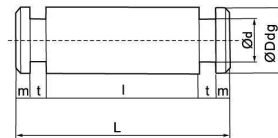
Dimension(mm)



| Bore size (mm) | I Type Single Knuckle Joint | | | | | | | | | | Y type single knuckle joint | | | | | | | | | | | |
|----------------|-----------------------------|------|------|-----|----|----------|------|------|------------------------|--------------------------|-----------------------------|------|------|-----|----|----------|------|------|------------------------|-------------------------|----|------|
| | 零件号 | A | A1 | E1 | L1 | MM | RR1 | U1 | ND ^{H10} | NX | Components No. | A | A1 | E1 | L1 | MM | RR1 | U1 | ØCD ^{H10} | NX | NZ | L |
| 12 | I-G012 | 21.5 | 6 | □10 | 16 | M5×0.8 | 6.3 | 7 | 5 ^{+0.048/0} | 5 ^{-0.2/-0.4} | Y-G012 | 21.5 | 6 | □10 | 16 | M5×0.8 | 6.3 | 7 | 5 ^{+0.048/0} | 5 ^{+0.4/+0.2} | 10 | 14.6 |
| 16 | I-Z015A | 32 | 8 | □12 | 25 | M6×1 | 8.1 | 14 | 5 ^{+0.048/0} | 6.4 ^{-0.1/-0.3} | Y-Z015A | 28 | 11 | □12 | 21 | M6×1 | 8.1 | 10 | 5 ^{+0.048/0} | 6.5 ^{+0.2/0} | 12 | 16.6 |
| 20 | I-G02 | 34 | 8.5 | □16 | 25 | M8×1.25 | 10.3 | 11.5 | 8 ^{+0.058/0} | 8 ^{-0.2/-0.4} | Y-G02 | 34 | 8.5 | □16 | 25 | M8×1.25 | 10.3 | 11.5 | 8 ^{+0.058/0} | 8 ^{+0.4/+0.2} | 16 | 21 |
| 25 | I-G03 | 41 | 10.5 | □20 | 30 | M10×1.25 | 12.8 | 14 | 10 ^{+0.058/0} | 10 ^{-0.2/-0.4} | Y-G03 | 41 | 10.5 | □20 | 30 | M10×1.25 | 12.8 | 14 | 10 ^{+0.058/0} | 10 ^{+0.4/+0.2} | 20 | 25.6 |
| 32,40 | I-G04 | 42 | 14 | φ22 | 30 | M14×1.5 | 12 | 14 | 10 ^{+0.058/0} | 18 ^{-0.3/-0.5} | Y-G04 | 42 | 16 | φ22 | 30 | M14×1.5 | 12 | 14 | 10 ^{+0.058/0} | 18 ^{+0.5/+0.3} | 36 | 41.6 |
| 50,63 | I-G05 | 56 | 18 | φ28 | 40 | M18×1.5 | 16 | 20 | 14 ^{+0.070/0} | 22 ^{-0.3/-0.5} | Y-G05 | 56 | 20 | φ28 | 40 | M18×1.5 | 16 | 20 | 14 ^{+0.070/0} | 22 ^{+0.5/+0.3} | 44 | 50.6 |
| 80 | I-G08 | 71 | 21 | φ38 | 50 | M22×1.5 | 21 | 27 | 18 ^{+0.070/0} | 28 ^{-0.3/-0.5} | Y-G08 | 71 | 23 | φ38 | 50 | M22×1.5 | 21 | 27 | 18 ^{+0.070/0} | 28 ^{+0.5/+0.3} | 56 | 64 |
| 100 | I-G10 | 79 | 21 | φ44 | 55 | M26×1.5 | 24 | 31 | 22 ^{+0.084/0} | 32 ^{-0.3/-0.5} | Y-G10 | 79 | 24 | φ44 | 55 | M26×1.5 | 24 | 31 | 22 ^{+0.084/0} | 32 ^{+0.5/+0.3} | 64 | 72 |

| Bore size (mm) | Knuckle Joint Plug | | | | | | |
|----------------|--------------------|-----------------------------|------|------|------|------|------|
| | Components No. | ØDdg | L | Ød | I | m | t |
| 12 | IY-G012 | 5 ^{-0.030/-0.060} | 14.6 | 4.8 | 10.2 | 1.5 | 0.7 |
| 16 | IY-J015 | 5 ^{-0.030/-0.060} | 16.6 | 4.8 | 12.2 | 1.5 | 0.7 |
| 20 | IY-G02 | 8 ^{-0.040/-0.078} | 21 | 7.6 | 16.2 | 1.5 | 0.9 |
| 25 | IY-G03 | 10 ^{-0.040/-0.078} | 25.6 | 9.6 | 20.2 | 1.55 | 1.15 |
| 30,40 | IY-G04 | 10 ^{-0.040/-0.078} | 41.6 | 9.6 | 36.3 | 1.55 | 1.15 |
| 50,63 | IY-G05 | 14 ^{-0.050/-0.093} | 50.6 | 13.4 | 44.2 | 2.05 | 1.15 |
| 80 | IY-G08 | 18 ^{-0.050/-0.093} | 64 | 17 | 56.2 | 2.55 | 1.35 |
| 100 | IY-G10 | 22 ^{-0.085/-0.117} | 72 | 21 | 64.2 | 2.55 | 1.35 |

Knuckle Joint Plug



Special Cylinder

| Type | Mode |
|-----------------------------------------------------------------------------|----------------------------------------------------|
| Double Rod Type | C-C□Q2WB Bore size — Stroke D |
| Non-rotating Piston Rod Type | C-C□Q2KB Bore size — Stroke D |
| | C-C□Q2BH Bore size — Stroke D |
| Adjustable stroke type (Adjustable extension type) Adjust range: 0~10mm | C-C□Q2B Bore size — Stroke D — XC8 |
| Adjustable stroke type (Adjustable retraction type) Adjust range: 0~10mm | C-C□Q2B Bore size — Stroke D — XC9 |
| Double acting type (Double rod) | C-C□Q2B Bore size — Stroke A + Stroke B D — XC10 |
| Double acting type (Single rod) | C-C□Q2B Bore size — Stroke A + Stroke B-A D — XC11 |
| High temperature operating type | C-C□Q2B Bore size — Stroke D — XB6 |
| Low temperature operating type | C-C□Q2B Bore size — Stroke D — XB7 |



C-CQ2WB



C-CQ2B-XC9



C-CQ2KB



C-CQ2B-XC10/XC11



C-CQ2BH



C-CQ2B-XB6



C-CQ2B-XC8



C-CQ2B-XB7