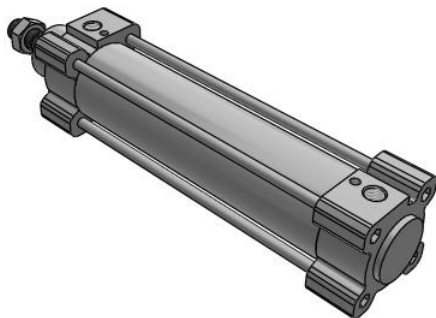




## C96Y(D), ISO 15552 Cylinder, Smooth Cylinder, Double Acting, Single Rod C96YDB50-160C

Datasheet

### General series information

- Double acting, Smooth Cylinder, single rod
- Bore sizes (mm): 32, 40, 50, 63, 80, 100
- Standard stroke up to 500mm, maximum stroke 1000mm
- Auto switch capable



Double-acting, single-rod cylinder

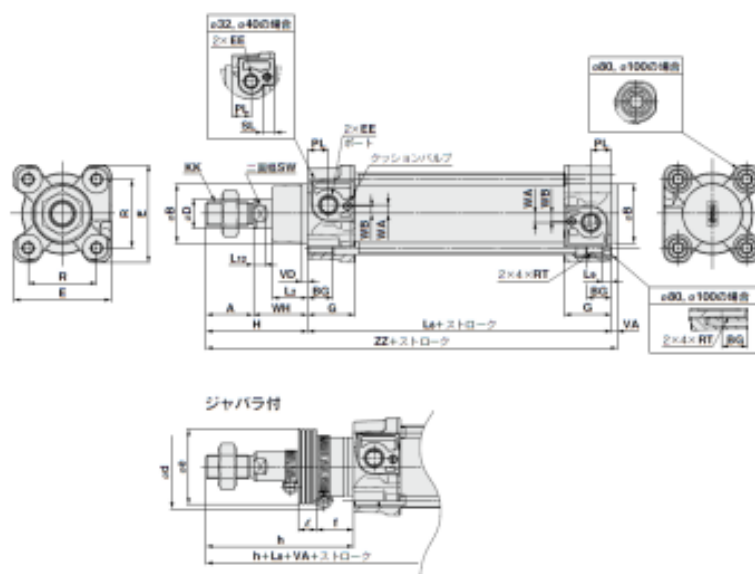
### Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in Magnet)                       |
| Mounting                                           | B (Basic, w/o Bracket)                    |
| Bore Size                                          | Ø50 mm                                    |
| Stroke                                             | 160                                       |
| Auto Switch                                        | No Switch                                 |
| Lead Wire or Pre-wired Connector                   | 0.5 m (Or None in the Case of No Switch)  |
| Number                                             | 2 pcs. (Or None in the Case of No Switch) |
| Rod End Options                                    | None                                      |
| Pressure medium                                    | Compressed air                            |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |
| Minimum temperature of pressure medium with magnet | -10 °C (no freezing)                      |
| Maximum operating pressure                         | 0.7 MPa                                   |
| Minimum operating pressure                         | 0.01 MPa                                  |
| Proof pressure                                     | 1.05 MPa                                  |
| Maximum ambient temperature with magnet            | 60 °C                                     |
| Minimum ambient temperature with magnet            | -10 °C (no freezing)                      |
| Number of pneumatic connections                    | 2 pcs.                                    |
| Pneumatic input connection                         | G 1/4                                     |
| Pneumatic exhaust connection                       | G 1/8                                     |

|                                  |                |
|----------------------------------|----------------|
| Mode of operation of drive       | Double acting  |
| Maximum piston speed             | 500 mm/s       |
| Type of cushioning               | Bumper cushion |
| Piston rod end                   | Male-thread    |
| Geometric form of the piston rod | Single rod     |
| Male thread of rod end           | M16 x 1.5      |
| Minimum piston speed             | 50 mm/s        |
| Weight                           | 1.655 Kg       |

# Dimensions

基本形：C96S (D) B チューブ内径=ストローク C (J)



| チューブ<br>内径<br>(mm) | ストローク範囲 (mm) | A  | B  | C  | D  | E   | F | G   | H    | I  | J        | K  | L   | M | N   | O  | P    | Q       | R | RT | SL | SW | VA   | VD  | WA | WB  | WH | Z |
|--------------------|--------------|----|----|----|----|-----|---|-----|------|----|----------|----|-----|---|-----|----|------|---------|---|----|----|----|------|-----|----|-----|----|---|
| 32                 | ~1000        | 22 | 30 | 16 | 12 | 41  | 6 | 1/8 | 20.9 | 48 | M12×1.25 | 15 | 94  | 4 | 6   | 13 | 32.5 | M6×1    | 8 | 10 | 4  | 4  | 4    | 7   | 26 | 146 |    |   |
| 40                 | ~1900        | 24 | 35 | 16 | 16 | 54  | 6 | 1/4 | 32.6 | 54 | M12×1.25 | 17 | 105 | 4 | 6.5 | 14 | 38   | M6×1    | 8 | 13 | 4  | 4  | 5    | 8.9 | 30 | 163 |    |   |
| 50                 | ~1900        | 32 | 40 | 16 | 20 | 66  | 6 | 1/4 | 32   | 69 | M16×1.5  | 24 | 106 | 5 | 8   | 14 | 46.5 | M8×1.25 | — | 17 | 4  | 4  | 6    | 5.1 | 37 | 179 |    |   |
| 63                 | ~1900        | 32 | 45 | 16 | 20 | 77  | 6 | 3/8 | 38.6 | 66 | M16×1.5  | 24 | 121 | 5 | 8   | 16 | 56.5 | M8×1.25 | — | 17 | 4  | 4  | 9    | 6.3 | 37 | 194 |    |   |
| 80                 | ~1900        | 40 | 45 | 17 | 25 | 96  | 6 | 3/8 | 38.4 | 86 | M20×1.5  | 30 | 120 | — | 10  | 16 | 72   | M12×1.5 | — | 22 | 4  | 4  | 11.5 | 6   | 46 | 218 |    |   |
| 100                | ~1900        | 40 | 55 | 17 | 25 | 118 | 6 | 1/2 | 42.9 | 91 | M20×1.5  | 32 | 138 | — | 10  | 18 | 89   | M12×1.5 | — | 22 | 4  | 4  | 17   | 10  | 51 | 233 |    |   |

※図例は材料がステンレスの場合を示す。最も上とローの寸法は、チューブ径32～80の場合のみ。

※取付支持形式がトランシオン形の場合、最小ストロークはチューブ内径32～60の場合0mm、100の場合5mm。

| チューブ<br>内径<br>(mm) | ae | ad | f  | 1    | 51 | 101  | 151 | 201 | 301 | 401 | 501 | 601 | 701 | 801 | 901 | 1   | 51  | 101 | 151 | 201 | 301 | 401 | 501 | 601 | 701 | 801 | 901 |
|--------------------|----|----|----|------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 32                 | 36 | 54 | 23 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 75  | 88  | 100 | 113 | 138 | 163 | 188 | 213 | 238 | 263 | 288 | 313 |
| 40                 | 36 | 54 | 23 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 75  | 88  | 100 | 113 | 138 | 163 | 188 | 213 | 238 | 263 | 288 | 313 |
| 50                 | 51 | 64 | 25 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 87  | 100 | 112 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
| 63                 | 51 | 64 | 25 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 87  | 100 | 112 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
| 80                 | 56 | 68 | 30 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 103 | 116 | 128 | 141 | 166 | 191 | 216 | 241 | 266 | 291 | 316 | 341 |
| 100                | 56 | 76 | 32 | 12.5 | 25 | 37.5 | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 103 | 116 | 128 | 141 | 166 | 191 | 216 | 241 | 266 | 291 | 316 | 341 |

## Additional information

Catalogue

[C96-Bb\\_EU.pdf](#)