

## C96Y(D), ISO 15552 Cylinder, Smooth Cylinder, Double Acting, Single Rod C96YDB32-250C

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

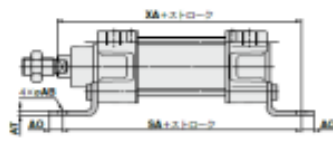
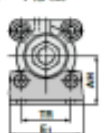
### Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | B (Basic, w/o Bracket)                    |
| Bore Size                                          | Ø32 mm                                    |
| Stroke                                             | 250                                       |
| Auto Switch                                        | No Switch                                 |
| Lead Wire or Prewired Connector                    | 0.5m [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                         | 0.02 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 1/8                                     |
| 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           | M10 x 1.25     |
| Minimum piston speed             | 50 mm/s        |

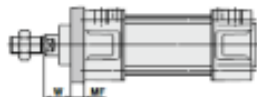
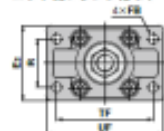
## Dimensions

軸方向ポート形 (L)



| シリーズ<br>P#<br>(mm) | E   | TRA | AO  | T | XA  |
|--------------------|-----|-----|-----|---|-----|
| 32                 | 40  | 32  | 104 | 5 | 142 |
| 40                 | 50  | 36  | 114 | 5 | 157 |
| 50                 | 66  | 45  | 125 | 5 | 170 |
| 63                 | 80  | 52  | 135 | 5 | 186 |
| 80                 | 98  | 63  | 146 | 5 | 210 |
| 100                | 120 | 75  | 158 | 5 | 232 |
| 125                | 150 | 90  | 170 | 5 | 250 |

ロッド側フランジ形 (F)



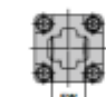
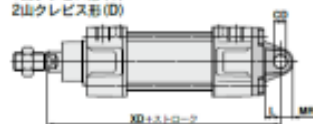
| シリーズ<br>P#<br>(mm) | R  | TF  | F1 | E1  | YF  | WF |
|--------------------|----|-----|----|-----|-----|----|
| 32                 | 32 | 64  | 7  | 50  | 78  | 16 |
| 40                 | 36 | 72  | 8  | 55  | 80  | 16 |
| 50                 | 45 | 90  | 9  | 70  | 110 | 17 |
| 63                 | 50 | 100 | 9  | 80  | 120 | 17 |
| 80                 | 60 | 120 | 12 | 100 | 150 | 18 |
| 100                | 75 | 150 | 14 | 120 | 180 | 19 |
| 125                | 90 | 180 | 16 | 150 | 210 | 20 |

ヘッド側フランジ形 (G)

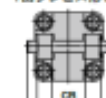


| シリーズ<br>P#<br>(mm) | MF | ZF  |
|--------------------|----|-----|
| 32                 | 10 | 130 |
| 40                 | 10 | 140 |
| 50                 | 12 | 155 |
| 63                 | 12 | 170 |
| 80                 | 15 | 190 |
| 100                | 18 | 205 |
| 125                | 20 | 245 |

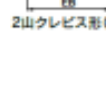
1山クレス形 (C)



1山クレス形 (C)

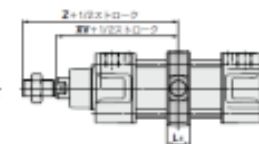
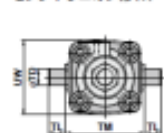


2山クレス形 (D)



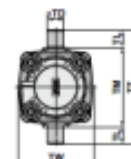
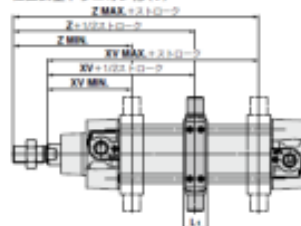
| シリーズ<br>P#<br>(mm) | E1 | CD | L   | MR  | XD | W  | MF | EB |
|--------------------|----|----|-----|-----|----|----|----|----|
| 32                 | 25 | 10 | 1.2 | 0.5 | 40 | 20 | 45 |    |
| 40                 | 25 | 12 | 1.5 | 0.7 | 40 | 20 | 45 |    |
| 50                 | 25 | 12 | 1.5 | 0.7 | 50 | 30 | 50 |    |
| 63                 | 30 | 15 | 2.0 | 0.8 | 50 | 30 | 50 |    |
| 80                 | 30 | 15 | 2.0 | 0.8 | 60 | 30 | 50 |    |
| 100                | 30 | 15 | 2.0 | 0.8 | 70 | 30 | 50 |    |
| 125                | 30 | 15 | 2.0 | 0.8 | 80 | 30 | 50 |    |

センタラニオン形 (T)



| シリーズ<br>P#<br>(mm) | TM | TL | TD | W  | L1 | L2  | L3 | Z |
|--------------------|----|----|----|----|----|-----|----|---|
| 32                 | 50 | 12 | 12 | 40 | 17 | 73  | 26 |   |
| 40                 | 50 | 14 | 14 | 40 | 17 | 80  | 26 |   |
| 50                 | 50 | 16 | 16 | 40 | 17 | 90  | 27 |   |
| 63                 | 50 | 18 | 18 | 40 | 17 | 100 | 28 |   |
| 80                 | 50 | 20 | 20 | 40 | 17 | 110 | 29 |   |
| 100                | 50 | 22 | 22 | 40 | 17 | 120 | 30 |   |
| 125                | 50 | 25 | 25 | 40 | 17 | 140 | 32 |   |

位置調整ラニオン形 (V)



| シリーズ<br>P#<br>(mm) | TM | TL | TD | W  | L1 | L2  | L3 | Z |
|--------------------|----|----|----|----|----|-----|----|---|
| 32                 | 50 | 12 | 12 | 40 | 17 | 74  | 26 |   |
| 40                 | 50 | 14 | 14 | 40 | 17 | 81  | 26 |   |
| 50                 | 50 | 16 | 16 | 40 | 17 | 91  | 27 |   |
| 63                 | 50 | 18 | 18 | 40 | 17 | 101 | 28 |   |
| 80                 | 50 | 20 | 20 | 40 | 17 | 111 | 29 |   |
| 100                | 50 | 22 | 22 | 40 | 17 | 121 | 30 |   |
| 125                | 50 | 25 | 25 | 40 | 17 | 141 | 32 |   |

| シリーズ<br>P#<br>(mm) | 最小値<br>MIN | 最大値<br>MAX | 最小値<br>MIN | 最大値<br>MAX | 最小値<br>MIN | 最大値<br>MAX | 最小値<br>MIN | 最大値<br>MAX |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 32                 | 82.0       | 85.4       | 73         | 85         | 82.0       | 154.0      | 5300%      |            |
| 40                 | 73.0       | 87.0       | 87         | 105.0      | 80.0       | 115.0      | 2300%      |            |
| 50                 | 60         | 112        | 90         | 122        | 120        | 137        | 1000%      |            |
| 63                 | 50.0       | 121.0      | 87.0       | 125.0      | 105.0      | 137.0      | 1000%      |            |
| 80                 | 37.0       | 137.0      | 105        | 150        | 127.0      | 162.0      | 26100%     |            |
| 100                | 113.0      | 153.0      | 120        | 160        | 136.0      | 166.0      | 25100%     |            |
| 125                | 148        | 202        | 145        | 201        | 147        | 190        | 42700%     |            |

## Additional information

Catalogue

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