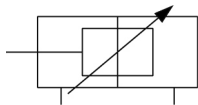


## C(D)85, ISO Standard Cylinder, Double Acting, Single Rod CD85N20-440C-B-X2018

### Datasheet

### General series information

- Double acting, single rod, crimped cylinder
- Conforms to ISO 6432 and CETOP RP52P
- Bore sizes (mm): 8, 10, 12, 16, 20, 25
- Standard strokes up to 300mm
- Auto switch capable



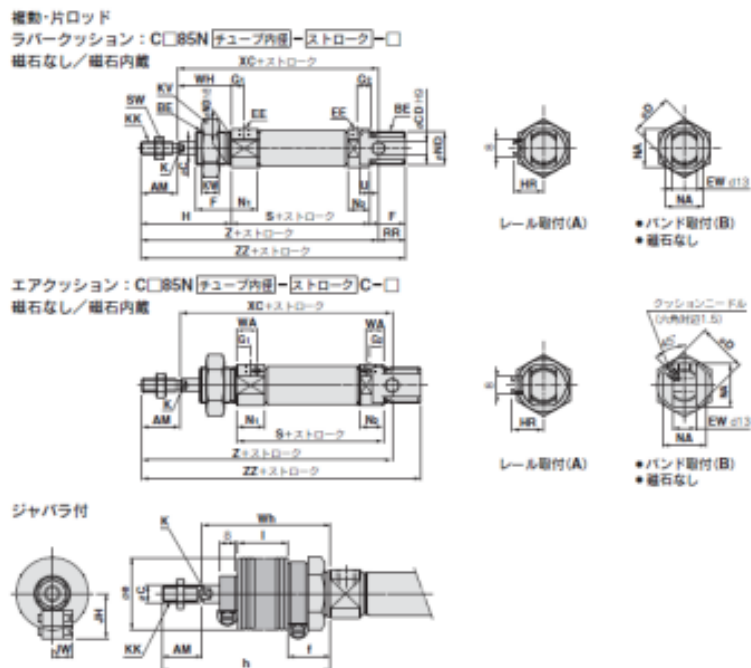
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | N (Basic Integrated Clevis)               |
| Bore Size                                          | Ø20 mm                                    |
| Stroke                                             | 440                                       |
| Cushion                                            | C (Air Cushion)                           |
| Rod Boot                                           | None                                      |
| Auto Switch Mounting Type                          | B (Band)                                  |
| 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                                      |
| Temperature Resistance                             | None                                      |
| Low Speed                                          | None                                      |
| Stainless Steel                                    | None                                      |
| Long Stroke                                        | X2018 (Long Stroke)                       |
| Pressure medium                                    | Compressed Air                            |
| Maximum temperature of pressure medium             | 80 °C                                     |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Minimum temperature of pressure medium                  | -20 °C [without condensation] |
| Minimum temperature of pressure medium with magnet      | -10 °C [without condensation] |
| Maximum operating pressure                              | 1 MPa                         |
| Minimum operating pressure                              | 0.05 MPa                      |
| Proof pressure                                          | 1.5 MPa                       |
| Maximum ambient temperature                             | 80 °C                         |
| Maximum ambient temperature with magnet                 | 60 °C                         |
| Minimum ambient temperature                             | -20 °C                        |
| Minimum ambient temperature with magnet                 | -10 °C                        |
| Number of pneumatic connections                         | 2 pcs.                        |
| Pneumatic input connection                              | G 1/8                         |
| Pneumatic output connection                             | G 1/8                         |
| Mode of operation of drive                              | Double acting                 |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 157.1 N                       |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 132.0 N                       |
| Maximum piston speed                                    | 1,500 mm/s                    |
| Type of cushioning                                      | Air cushion                   |
| Piston rod end                                          | External thread               |
| Geometric form of the piston rod                        | Single rod                    |
| Male thread of rod end                                  | M8                            |
| Usable tubing material                                  | Soft nylon;Nylon;Polyurethane |
| Minimum piston speed                                    | 50 mm/s                       |
| Weight                                                  | 0.530 Kg                      |

## Dimensions



寸法表 (mm)

| シリーズ | AM | BE      | C | CO | D    | EE     | EW | F  | G <sub>1</sub> | G <sub>2</sub> | H  | HR   | K | KA  | KK      | KV | KN | N <sub>1</sub> | N <sub>2</sub> | NA   | NC | PR | S  | SW | U  | WA  | WH | XC | Z   | ZZ  |
|------|----|---------|---|----|------|--------|----|----|----------------|----------------|----|------|---|-----|---------|----|----|----------------|----------------|------|----|----|----|----|----|-----|----|----|-----|-----|
| 8    | 12 | M2×1.25 | 4 | 4  | 16.1 | M5×0.8 | 8  | 12 | 7              | 5              | 26 | 10   | — | 4.2 | M4×0.7  | 19 | 6  | 11.5           | 9.5            | 15   | 12 | 10 | 46 | 7  | 6  | —   | 16 | 64 | 76  | 86  |
| 10   | 12 | M2×1.25 | 4 | 4  | 16.1 | M5×0.8 | 8  | 12 | 7              | 5              | 26 | 10.5 | — | 4.2 | M4×0.7  | 19 | 6  | 11.5           | 9.5            | 15   | 12 | 10 | 46 | 7  | 6  | —   | 16 | 64 | 76  | 86  |
| 12   | 16 | M16×1.5 | 6 | 6  | 19.7 | M5×0.8 | 12 | 17 | 10             | 10             | 36 | 14   | 5 | 6.2 | M5×1    | 24 | 8  | 12.5           | 10.5           | 18.2 | 16 | 14 | 50 | 10 | 9  | 9.5 | 75 | 91 | 105 | 109 |
| 16   | 16 | M16×1.5 | 6 | 6  | 19.7 | M5×0.8 | 12 | 17 | 10             | 10             | 36 | 14   | 5 | 6.2 | M5×1    | 24 | 8  | 12.5           | 10.5           | 18.2 | 16 | 14 | 50 | 10 | 9  | 9.5 | 75 | 91 | 105 | 109 |
| 20   | 20 | M22×1.5 | 8 | 8  | 28   | G 1/8  | 16 | 20 | 8              | 8              | 44 | 17   | 6 | 8.2 | M6×1.25 | 32 | 11 | 15             | 17             | 24   | 22 | 11 | 62 | 13 | 12 | 13  | 24 | 95 | 115 | 126 |
| 25   | 25 | M22×1.5 | 8 | 8  | 28   | G 1/8  | 16 | 20 | 8              | 8              | 44 | 17   | 6 | 8.2 | M6×1.25 | 32 | 11 | 15             | 17             | 24   | 22 | 11 | 62 | 13 | 12 | 13  | 24 | 95 | 115 | 126 |

( )内はエアクッションの寸法。

ジャバラ付 (mm)

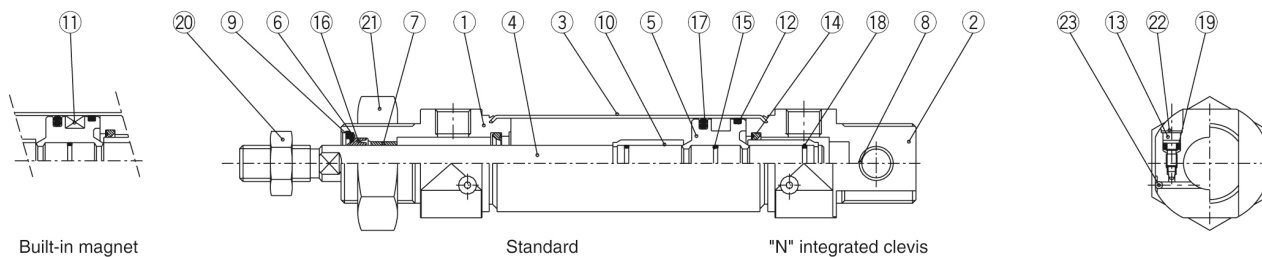
| シリーズ | AM | C  | e  | f  | K | KK       | h  |
|------|----|----|----|----|---|----------|----|
| 8-10 | 20 | 8  | 36 | 20 | 6 | M6×1.25  | 71 |
| 20   | 22 | 10 | 36 | 20 | 8 | M10×1.25 | 74 |

寸法表 (mm)

| シリーズ | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-400 | 401-500 |
|------|------|--------|---------|---------|---------|---------|---------|
| 8-10 | 12.5 | 25     | 37.5    | 50      | 75      | 100     | 125     |
| 20   | 12.5 | 25     | 37.5    | 50      | 75      | 100     | 125     |

## Constructions

### C□85□20, 25 Air cushion



#### Component Parts

| No. | Description    | Material        | Quantity | Remarks            |
|-----|----------------|-----------------|----------|--------------------|
| ①   | Rod cover      | Aluminum alloy  | 1        | White anodized     |
| ②   | Head cover N   | Aluminum alloy  | 1        | White anodized     |
| ③   | Cylinder tube  | Stainless steel | 1        |                    |
| ④   | Piston rod     | Carbon steel    | 1        | Hard chrome plated |
| ⑤   | Piston         | Aluminum alloy  | 1        | Chromated          |
| ⑥   | Plain washer   | Carbon steel    | 1        | Nickel plated      |
| ⑦   | Bushing        | Sintered bronze | 1        |                    |
| ⑧   | Bushing        | Sintered bronze | 1        |                    |
| ⑨   | Retaining ring | Carbon steel    | 1        | Nickel plated      |
| ⑩   | Cushion ring   | Copper alloy    | 2        | Hard chrome plated |
| ⑪   | Magnet         |                 | 1        |                    |
| ⑫   | Wear ring      | Phenolic resin  | 1        |                    |

| No. | Description           | Material        | Quantity | Remarks       |
|-----|-----------------------|-----------------|----------|---------------|
| ⑬   | Cushion valve         | Carbon steel    | 2        | Nickel plated |
| ⑭   | Cushion seal          | Urethane        | 2        |               |
| ⑮   | Piston gasket         | NBR             | 1        |               |
| ⑯   | Rod seal              | NBR             | 1        |               |
| ⑰   | Piston seal           | NBR             | 1        |               |
| ⑱   | Cushion ring gasket   | NBR             | 2        |               |
| ⑲   | Cushion valve packing | NBR             | 2        |               |
| ⑳   | Rod end nut           | Carbon steel    | 1        | Nickel plated |
| ㉑   | Mounting nut          | Carbon steel    | 1        | Nickel plated |
| ㉒   | Self locking ring     | Stainless steel | 2        |               |
| ㉓   | Steel ball            | Stainless steel | 2        |               |

## Additional information

Catalogue

[C85\\_C75-A\\_EU.pdf](#)