

# Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

## Series CM2

◆ How to Order

C D M2 B 40 - 150 A

**Action**

|     |                              |   |                              |
|-----|------------------------------|---|------------------------------|
| Nil | Double acting, single rod    | S | Single acting, spring return |
| T   | Single acting, spring extend |   |                              |

**Cushion**

|     |   |
|-----|---|
| Nil | Rubber bumper   |
| A   | Adjustable air cushion at both ends<br>(only available for double acting) |

**Cylinder stroke**

\* Refer to "Standard stroke" .

**Bore size (mm)**

|    |    |    |    |
|----|----|----|----|
| 20 | 25 | 32 | 40 |
|----|----|----|----|

**Mounting style**

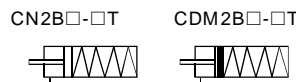
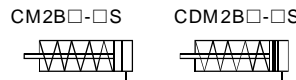
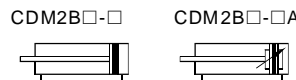
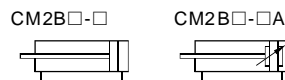
|   |                         |    |                                  |
|---|-------------------------|----|----------------------------------|
| B | Basic style             | T  | Head side trunnion style         |
| L | Axial foot style        | E  | Clevis integrated style          |
| F | Rod side flange style   | BZ | Boss-cut basic style             |
| G | Head side flange style  | FZ | Boss-cut rod side flange style   |
| C | Single clevis style     | UZ | Boss-cut rod side trunnion style |
| D | Double clevis style     |    |                                  |
| U | Rod side trunnion style |    |                                  |

**Magnet**

|     |                |   |                 |
|-----|----------------|---|-----------------|
| Nil | Without magnet | D | Built-in magnet |
|-----|----------------|---|-----------------|



**Symbol**



◆ Standard Stroke

| Bore size(mm) | Double acting, single rod                |                    | Single acting, spring return / extend |
|---------------|--|--------------------|---------------------------------------|
|               | Standard stroke (mm)                     | Maximum stroke(mm) | Standard stroke (mm)                  |
| 20            | 25, 50, 75, 100, 125, 150, 200, 250, 300 | 1000               | 25, 50, 75, 100, 125, 150             |
| 25            |  | 1500               | 25, 50, 75, 100, 125, 150             |
| 32            |  | 2000               | 25, 50, 75, 100, 125, 150, 200        |
| 40            |  | 2000               | 25, 50, 75, 100, 125, 150, 200, 250   |

# Mini Cylinder

## Double Acting, Single Rod; Single Acting, Spring Return / Extend

# Series CM2



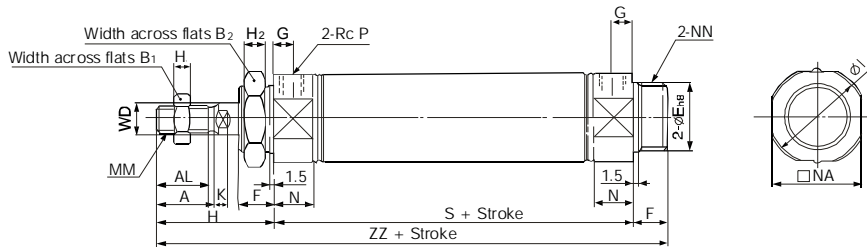
### ◆ Specifications

| Bore size (mm)                |                | 20                                    | 25       | 32 | 40      |
|-------------------------------|----------------|---------------------------------------|----------|----|---------|
| Action                        | C(D)M2B□-□     | Double acting, single rod             |          |    |         |
|                               | C(D)M2B□-□-S/T | Single acting, spring return / extend |          |    |         |
| Fluid                         |                | Filtered compressed air               |          |    |         |
| Proof pressure                |                | 1.5 MPa                               |          |    |         |
| Operating pressure range      | C(D)M2B□-□     | 0.05~1.0 MPa                          |          |    |         |
|                               | C(D)M2B□-□-S   | 0.18~1.0 MPa                          |          |    |         |
|                               | C(D)M2B□-□-T   | 0.23~1.0 MPa                          |          |    |         |
| Ambient and fluid temperature |                | -10~70°C (No freezing)                |          |    |         |
| Port size                     |                | Rc1/8                                 |          |    | Rc1/4   |
| Piston rod thread             |                | M8×1.25                               | M10×1.25 |    | M14×1.5 |
| Cushion                       | C(D)M2B□-□     | Rubber bumper                         |          |    |         |
|                               | C(D)M2B□-□-S/T | Adjustable air cushion at both ends   |          |    |         |
|                               |                | Rubber bumper                         |          |    |         |

Note): Please contact with ANSSION for the mounting accessories.

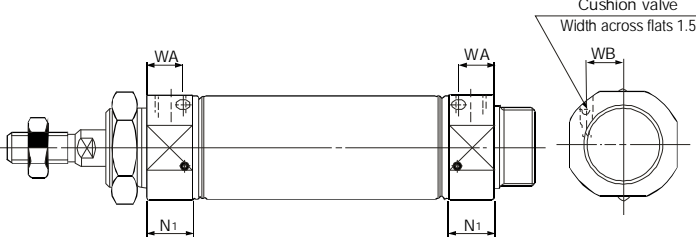
### ◆ Dimensions

#### C(D)M2B□-□ (Basic style)

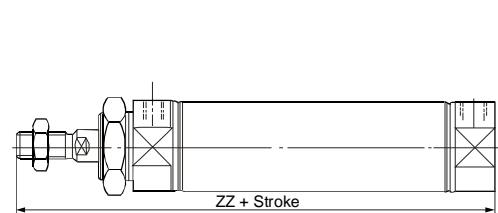


Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

#### With air cushion



#### Boss-cut style



| Bore size(mm) | A  | AL   | B <sub>1</sub> | B <sub>2</sub> | D  | E                                 | F  | G  | H  | H <sub>1</sub> | H <sub>2</sub> | I    | K   | MM       | N    | NA   | NN      | P     | S  | ZZ  |
|---------------|----|------|----------------|----------------|----|-----------------------------------|----|----|----|----------------|----------------|------|-----|----------|------|------|---------|-------|----|-----|
| 20            | 18 | 15.5 | 13             | 26             | 8  | 20 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 41 | 5              | 8              | 28   | 5   | M8×1.25  | 15   | 24   | M20×1.5 | Rc1/8 | 62 | 116 |
| 25            | 22 | 19.5 | 17             | 32             | 10 | 26 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 45 | 6              | 8              | 33.5 | 5.5 | M10×1.25 | 15   | 30   | M26×1.5 | Rc1/8 | 62 | 120 |
| 32            | 22 | 19.5 | 17             | 32             | 12 | 26 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 45 | 6              | 8              | 37.5 | 5.5 | M10×1.25 | 15   | 34.5 | M26×1.5 | Rc1/8 | 64 | 122 |
| 40            | 24 | 21   | 22             | 41             | 14 | 32 <sup>0</sup> <sub>-0.039</sub> | 16 | 11 | 50 | 8              | 10             | 46.5 | 7   | M14×1.5  | 21.5 | 42.5 | M32×2.0 | Rc1/4 | 88 | 154 |

#### With Air Cushion

| Bore size(mm) | N <sub>1</sub> | WA | WB   |
|---------------|----------------|----|------|
| 20            | 17.5           | 13 | 8.5  |
| 25            | 17.5           | 13 | 10.5 |
| 32            | 17.5           | 13 | 11.5 |
| 40            | 21.5           | 16 | 15   |

#### Boss-cut Style

| Bore size(mm) | ZZ  |
|---------------|-----|
| 20            | 103 |
| 25            | 107 |
| 32            | 109 |
| 40            | 138 |

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

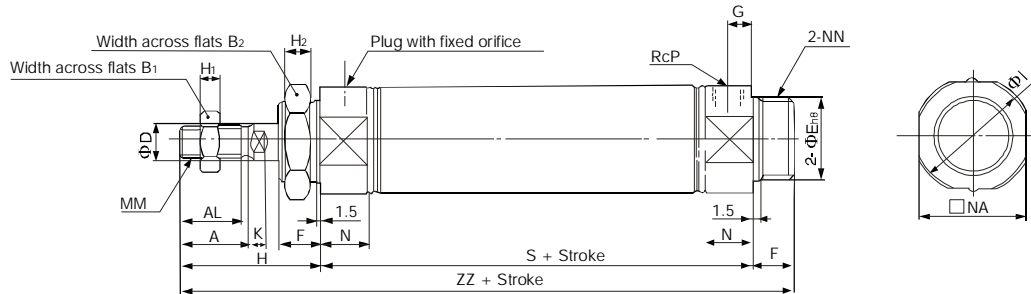
RBQ

# Mini Cylinder

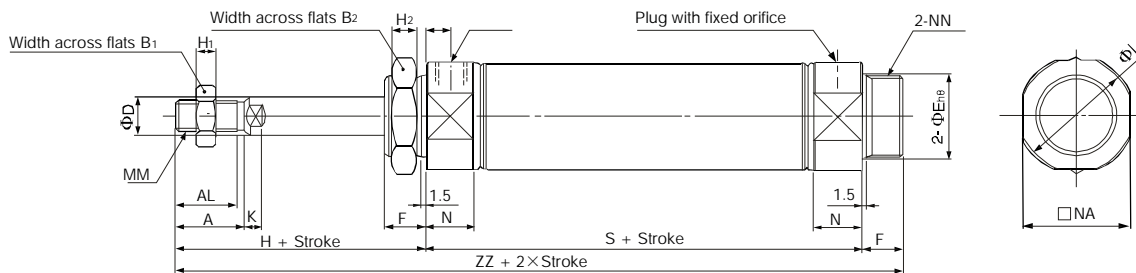
Double Acting, Single Rod; Single Acting, Spring Return / Extend  
**Series CM2**

## ◆ Dimensions

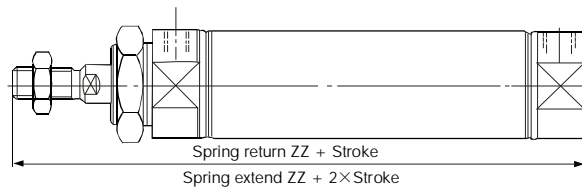
### CM2B□-□S (Spring return style)



### CM2B□-□T (Spring extend style)



### Boss-cut style



| Bore size(mm) | A  | AL   | B <sub>1</sub> | B <sub>2</sub> | D  | E                                 | F  | G  | H  | H <sub>1</sub> | H <sub>2</sub> | I    | K   | MM       | N    | NA   | NN      | P     |
|---------------|----|------|----------------|----------------|----|-----------------------------------|----|----|----|----------------|----------------|------|-----|----------|------|------|---------|-------|
| 20            | 18 | 15.5 | 13             | 26             | 8  | 20 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 41 | 5              | 8              | 28   | 5   | M8×1.25  | 15   | 24   | M20×1.5 | Rc1/8 |
| 25            | 22 | 19.5 | 17             | 32             | 10 | 26 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 45 | 6              | 8              | 33.5 | 5.5 | M10×1.25 | 15   | 30   | M26×1.5 | Rc1/8 |
| 32            | 22 | 19.5 | 17             | 32             | 12 | 26 <sup>0</sup> <sub>-0.033</sub> | 13 | 8  | 45 | 6              | 8              | 37.5 | 5.5 | M10×1.25 | 15   | 34.5 | M26×1.5 | Rc1/8 |
| 40            | 24 | 21   | 22             | 41             | 14 | 32 <sup>0</sup> <sub>-0.039</sub> | 16 | 11 | 50 | 8              | 10             | 46.5 | 7   | M14×1.5  | 21.5 | 42.5 | M32×2.0 | Rc1/4 |

### Dimensions by Stroke

| Bore size (mm) | 1 to 50 |     | 51 to 100 |     | 101 to 150 |     | 151 to 200 |     | 201 to 250 |     |
|----------------|---------|-----|-----------|-----|------------|-----|------------|-----|------------|-----|
|                | S       | ZZ  | S         | ZZ  | S          | ZZ  | S          | ZZ  | S          | ZZ  |
| 20             | 87      | 141 | 112       | 166 | 137        | 191 | -          | -   | -          | -   |
| 25             | 87      | 145 | 112       | 170 | 137        | 195 | -          | -   | -          | -   |
| 32             | 89      | 147 | 114       | 172 | 139        | 197 | 164        | 222 | -          | -   |
| 40             | 113     | 179 | 138       | 204 | 163        | 229 | 188        | 254 | 213        | 279 |

### Boss-cut Style

| Bore size (mm) | 1 to 50 |     | 51 to 100 |     | 101 to 150 |    | 151 to 200 |    | 201 to 250 |  |
|----------------|---------|-----|-----------|-----|------------|----|------------|----|------------|--|
|                | ZZ      | ZZ  | ZZ        | ZZ  | ZZ         | ZZ | ZZ         | ZZ | ZZ         |  |
| 20             | 128     | 153 | 178       | -   | -          | -  | -          | -  | -          |  |
| 25             | 132     | 157 | 182       | -   | -          | -  | -          | -  | -          |  |
| 32             | 134     | 159 | 184       | 209 | -          | -  | -          | -  | -          |  |
| 40             | 163     | 188 | 213       | 238 | 263        | -  | -          | -  | -          |  |