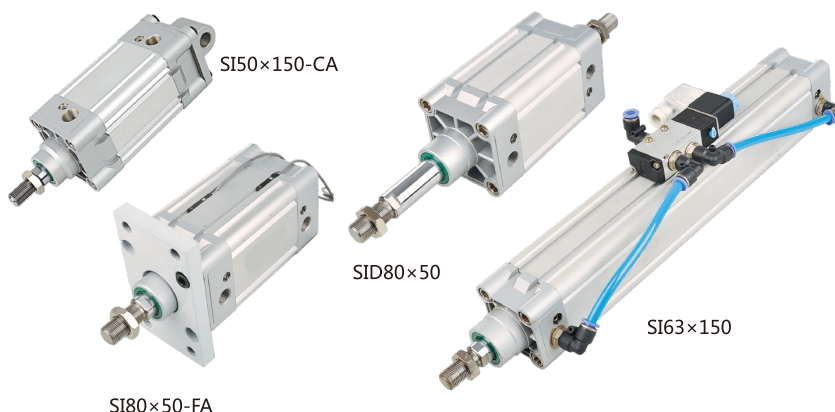


### Features

1. The cylinder is in accordance with the ISO15552.
2. The piston seal adopts two NBR+PA material as Y type one-way sealing structure with compensation function, long service life and low starting pressure.
3. The rod seal uses PU material with the characteristics of high strength, good toughness, wear resistance, oil resistance and aging resistance.
4. The piston rod material is made by 45C Carbon Steel with hard chrome plating on the surface, and the roughness  $Ra < 0.4$ , with good wear resistance and rust resistance.



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

### Ordering Code

| SI                                                                                  | D                                                       | 50                   | 50     | 10                                                                     | S                                       | LB                                                    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------|--------|------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------|
| Series                                                                              | Series Code                                             | Bore                 | Stroke | Adjustable Stroke                                                      | Magnet                                  | Mountings                                             |
| SI: ISO 15552 Standard cylinder                                                     | Blank: Standard double acting<br>D: Double-shaft double | 32<br>40<br>50<br>63 |        | 10: 10mm<br>20: 20mm<br>30: 30mm<br>50: 50mm<br>75: 75mm<br>100: 100mm | S: With magnet<br>Blank: Without magnet | Blank: Basic mountings<br>LB: Front and back mounting |
|  | J: Double-shaft with                                    | 80<br>100<br>125     |        |                                                                        |                                         | FA: Front mounting flange<br>FB: Back mounting flange |
|                                                                                     |                                                         |                      |        |                                                                        |                                         | CA: Back clevis (Single earring)                      |
|                                                                                     |                                                         |                      |        |                                                                        |                                         | CB: Back hinge (Double earring)                       |
|                                                                                     |                                                         |                      |        |                                                                        |                                         | YB: Back hinge                                        |

\* Sensor model JEL-30, please refer to P173 for the specific ordering code.

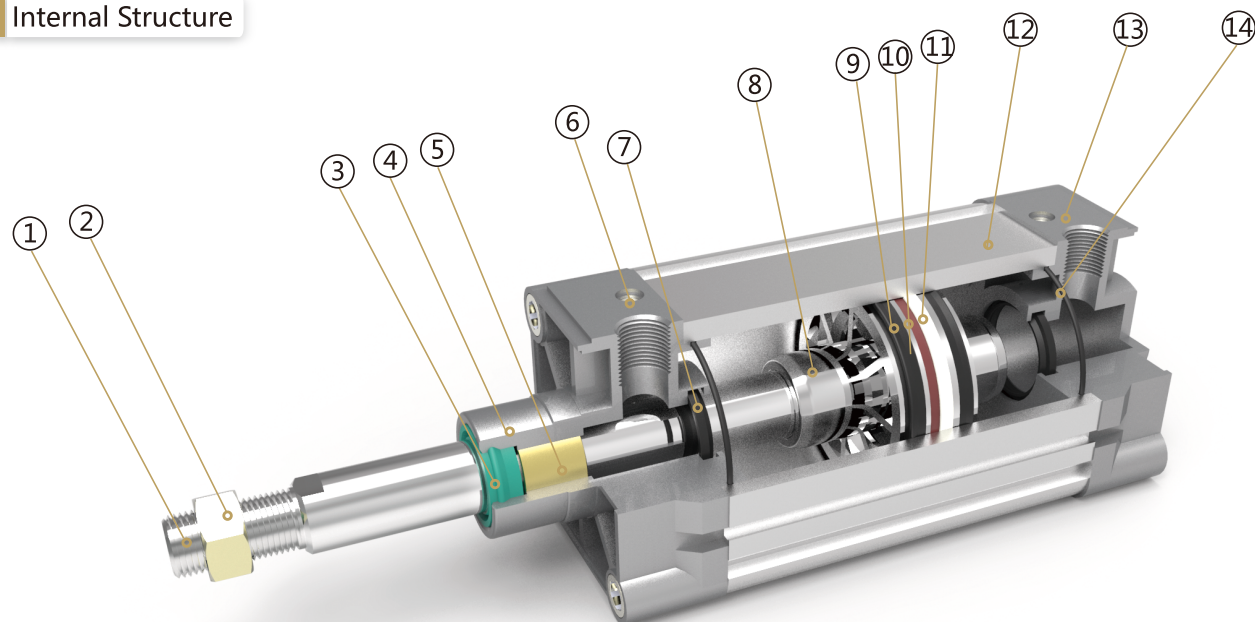
### Specification

| Bore (mm)                   | 32                         | 40    | 50    | 63   | 80    | 100 | 125 |
|-----------------------------|----------------------------|-------|-------|------|-------|-----|-----|
| Operation                   | Double Acting              |       |       |      |       |     |     |
| Working Medium              | Air                        |       |       |      |       |     |     |
| Mountings                   | Basic FA FB CA CB LB YB    |       |       |      |       |     |     |
| Operating Pressure Range    | 1 ~ 9.0 Kg/cm <sup>2</sup> |       |       |      |       |     |     |
| Proof Pressure              | 13.5 Kg/cm <sup>2</sup>    |       |       |      |       |     |     |
| Operating Temperature Range | -20 ~ 80°C                 |       |       |      |       |     |     |
| Operating Speed Range       | 50 ~ 800mm/s               |       |       |      |       |     |     |
| Cushion                     | Adjustable Cushion         |       |       |      |       |     |     |
| Adjustable Cushion Stroke   | 20mm                       |       |       | 26mm |       |     |     |
| Port Size                   | G1/8"                      | G1/4" | G3/8" |      | G1/2" |     |     |

## Stroke

| Bore | Standard Stroke                                                                  | Max. Stroke | Allowable Stroke |
|------|----------------------------------------------------------------------------------|-------------|------------------|
| 32   | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500                      | 1000        | 2000             |
| 40   | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800          | 1200        | 2000             |
| 50   | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1200        | 2000             |
| 63   | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500        | 2000             |
| 80   | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500        | 2000             |
| 100  | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500        | 2000             |
| 125  | 25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000 | 1500        | 2000             |

## Internal Structure

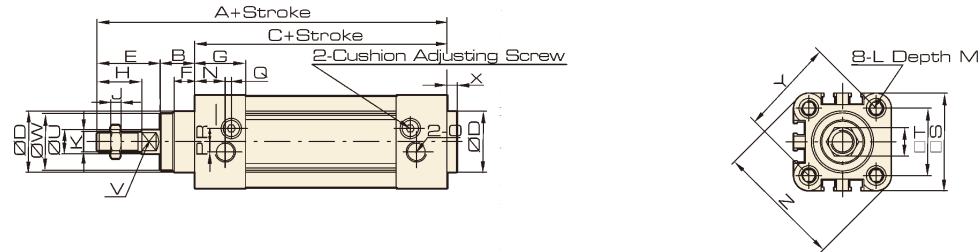


## Parts

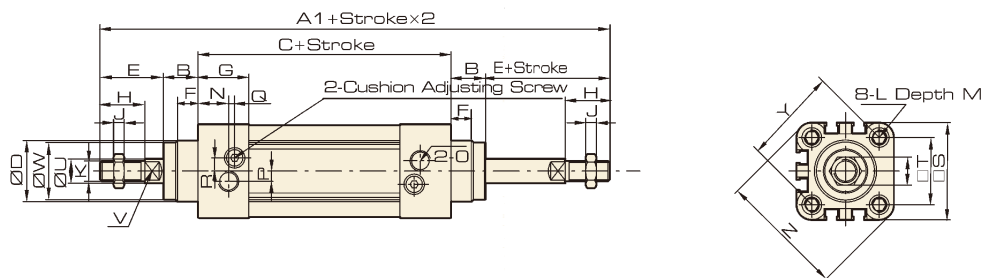
| Number | Name                 | Number | Name               |
|--------|----------------------|--------|--------------------|
| 1      | Piston rod           | 8      | Piston             |
| 2      | Hexagon nut          | 9      | Y ring             |
| 3      | Shaft seal           | 10     | Magnet             |
| 4      | Front cover          | 11     | Anti-friction ring |
| 5      | Copper tube          | 12     | Barrel             |
| 6      | Cushion adjust screw | 13     | Back cover         |
| 7      | Cushion seal         | 14     | O ring             |

### Overall Dimension

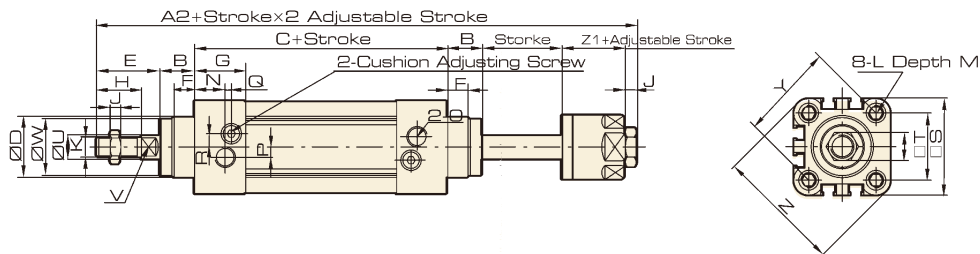
#### SI



#### SID



#### SIJ



### Dimension

| Bore/ Symbol | A   | A1  | A2  | B  | C   | D  | E  | F  | G    | H  | I  | J  | K        | L   |
|--------------|-----|-----|-----|----|-----|----|----|----|------|----|----|----|----------|-----|
| 32           | 143 | 190 | 185 | 16 | 94  | 30 | 33 | 10 | 25   | 22 | 17 | 6  | M10x1.25 | M6  |
| 40           | 159 | 213 | 207 | 20 | 105 | 35 | 34 | 10 | 29.5 | 24 | 17 | 7  | M12x1.25 | M6  |
| 50           | 175 | 244 | 233 | 27 | 107 | 40 | 42 | 10 | 32   | 32 | 23 | 8  | M16x1.5  | M8  |
| 63           | 190 | 258 | 247 | 26 | 122 | 45 | 42 | 10 | 36   | 32 | 23 | 8  | M16x1.5  | M8  |
| 80           | 214 | 301 | 288 | 35 | 126 | 45 | 53 | 10 | 37   | 40 | 26 | 10 | M20x1.5  | M10 |
| 100          | 229 | 321 | 308 | 40 | 137 | 55 | 52 | 10 | 39   | 40 | 26 | 10 | M20x1.5  | M10 |
| 125          | 279 | 394 | 378 | 47 | 160 | 60 | 72 | 10 | 43   | 54 | 40 | 12 | M27x2    | M12 |

| Bore/ Symbol | M  | N    | O    | P  | Q | R   | S   | T    | U  | V  | W    | X | Y     | Z     | Z1   |
|--------------|----|------|------|----|---|-----|-----|------|----|----|------|---|-------|-------|------|
| 32           | 12 | 15   | G1/8 | 5  | 3 | 6.5 | 45  | 32.5 | 12 | 10 | 28   | 4 | 46    | 58.7  | 21   |
| 40           | 12 | 17.5 | G1/4 | 7  | 3 | 7   | 52  | 38   | 16 | 13 | 33   | 4 | 53.7  | 68    | 21   |
| 50           | 12 | 20   | G1/4 | 7  | 3 | 9   | 65  | 46.5 | 20 | 17 | 38   | 4 | 65.8  | 84.5  | 23   |
| 63           | 12 | 22   | G3/8 | 8  | 5 | 9   | 76  | 56.5 | 20 | 17 | 38   | 4 | 79.9  | 99.6  | 23   |
| 80           | 15 | 23   | G3/8 | 10 | 5 | 12  | 94  | 72   | 25 | 22 | 43.5 | 4 | 101.8 | 123.8 | 29   |
| 100          | 15 | 26   | G1/2 | 10 | 5 | 14  | 112 | 89   | 25 | 22 | 47   | 4 | 125.9 | 148.9 | 29   |
| 125          | 20 | 29   | G1/2 | 10 | 5 | 14  | 134 | 110  | 32 | 27 | 53   | 6 | 156.9 | 179.6 | 40.5 |

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

# SI Series

## Standard Cylinder Accessory

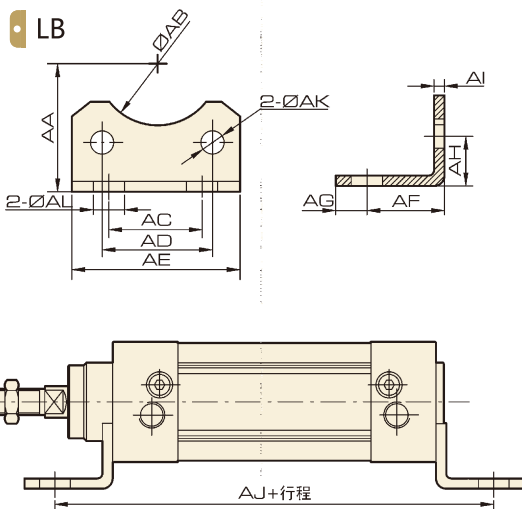
(ISO15552 Standard)



Cylinder  
Calculation  
SI  
SI A.  
SIB  
SQ  
DNT  
SC/SU  
SCT  
SC A.  
DN  
DSN  
DN/DSN A.  
MA  
MAC  
MA/MAC A.  
MAL  
MALC  
MAL/MALC A.  
SDA  
CQ2  
TCQ2  
ADN  
TADN  
PPRM  
JHL2  
JHF2  
JHZ2  
JHY2  
JHC2  
JXH  
JXQ  
JXS  
TN  
JGP  
JSQB  
Sensor

## LB Foot

### Overall Dimension



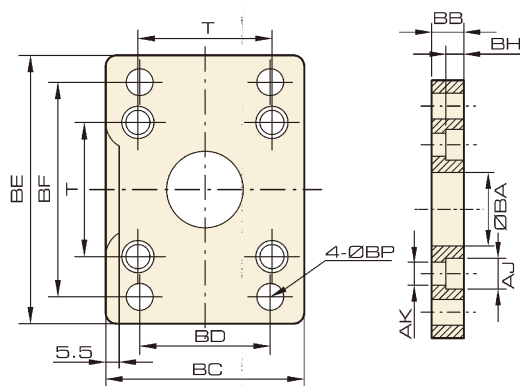
### Dimension

| Bore/Symbol | 32   | 40  | 50   | 63   | 80  | 100  | 125  |
|-------------|------|-----|------|------|-----|------|------|
| AA          | 32   | 36  | 45   | 50   | 63  | 71   | 90   |
| AB          | 30   | 35  | 40   | 45   | 45  | 55   | 60   |
| AC          | 32   | 36  | 45   | 50   | 63  | 75   | 90   |
| AD          | 32.5 | 38  | 46.5 | 56.5 | 72  | 89   | 110  |
| AE          | 45   | 52  | 65   | 75   | 95  | 115  | 140  |
| AF          | 24   | 28  | 32   | 32   | 41  | 41   | 45   |
| AG          | 11   | 8   | 15   | 13   | 14  | 16   | 18   |
| AH          | 15.8 | 17  | 21.8 | 21.8 | 27  | 26.5 | 35   |
| AI          | 4    | 4   | 5    | 5    | 6   | 6    | 7    |
| AJ          | 142  | 161 | 170  | 186  | 208 | 219  | 250  |
| AK          | 7    | 7   | 9    | 9    | 11  | 11   | 12.5 |
| AL          | 7    | 10  | 10   | 10   | 12  | 14.5 | 16.5 |

## FA / FB Flange

### Overall Dimension

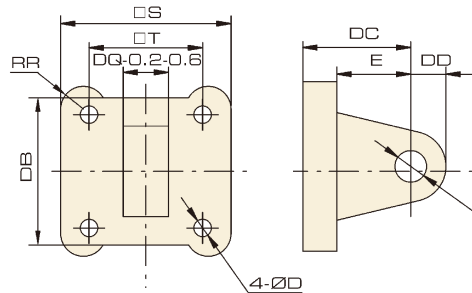
### FA, FB



| Bore/Symbol | 32   | 40   | 50   | 63   | 80   | 100  | 125  |
|-------------|------|------|------|------|------|------|------|
| BA          | 30.3 | 35.3 | 40.3 | 45.3 | 45.3 | 55.3 | 60.3 |
| BB          | 10   | 10   | 12   | 12   | 16   | 16   | 20   |
| BC          | 45   | 52   | 65   | 76   | 94   | 112  | 140  |
| BD          | 32   | 36   | 45   | 50   | 63   | 75   | 90   |
| BE          | 80   | 90   | 110  | 120  | 150  | 175  | 224  |
| BF          | 64   | 72   | 90   | 100  | 126  | 150  | 180  |
| BH          | 6.5  | 6.5  | 8.5  | 8.5  | 10.5 | 10.5 | 15   |
| AJ          | 10.5 | 10.5 | 13.5 | 13.5 | 16.5 | 16.5 | 19   |
| AK          | 6.5  | 6.5  | 8.5  | 8.5  | 10.5 | 10.5 | 12.5 |
| BP          | 7    | 9    | 9    | 9    | 12   | 14   | 16   |
| T           | 32.5 | 38   | 46.5 | 56.5 | 72   | 89   | 110  |

### Overall Dimension

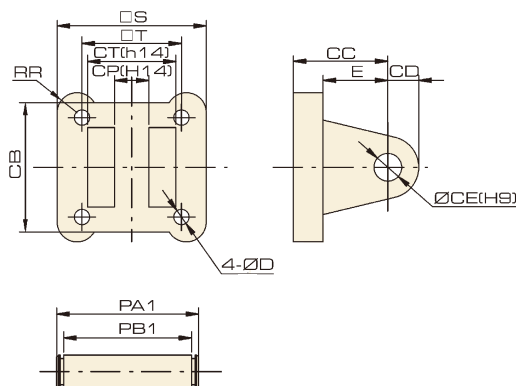
#### CA



### Dimension

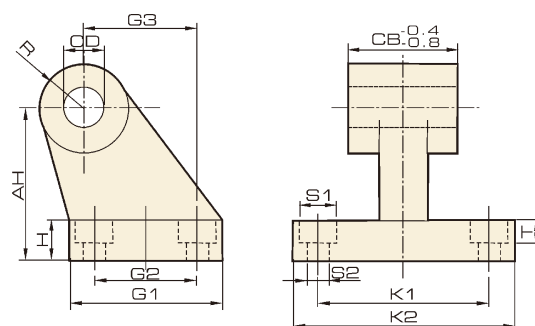
| Bore/Symbol | 32   | 40  | 50   | 63   | 80   | 100  | 125  |
|-------------|------|-----|------|------|------|------|------|
| S           | 45   | 52  | 65   | 76   | 94   | 112  | 140  |
| T           | 32.5 | 38  | 46.5 | 56.5 | 72   | 89   | 110  |
| RR          | 6.5  | 6.5 | 9    | 9.5  | 11   | 11.5 | 12   |
| DB          | 34   | 41  | 54   | 65   | 83   | 101  | 123  |
| DC          | 22   | 25  | 27   | 32   | 36   | 41   | 50   |
| DD          | 10   | 11  | 13   | 16   | 16   | 20   | 25   |
| DE          | 10   | 12  | 12   | 16   | 16   | 20   | 25   |
| DQ          | 26   | 28  | 32   | 40   | 50   | 60   | 70   |
| D           | 6.5  | 6.5 | 8.5  | 8.5  | 10.5 | 10.5 | 12.5 |
| E           | 14   | 17  | 17   | 22   | 24   | 25   | 30   |

#### CB



| Bore/Symbol | 32   | 40   | 50   | 63   | 80   | 100   | 125   |
|-------------|------|------|------|------|------|-------|-------|
| S           | 45   | 52   | 65   | 76   | 94   | 112   | 140   |
| T           | 32.5 | 38   | 46.5 | 56.5 | 72   | 89    | 110   |
| D           | 6.5  | 6.5  | 8.5  | 8.5  | 10.5 | 10.5  | 12.5  |
| E           | 14   | 17   | 17   | 22   | 24   | 25    | 30    |
| RR          | 6.5  | 6.5  | 9    | 9.5  | 11   | 11.5  | 12    |
| CB          | 34   | 41   | 54   | 65   | 83   | 101   | 123   |
| CC          | 22   | 25   | 27   | 32   | 36   | 41    | 50    |
| CD          | 10   | 11   | 13   | 16   | 16   | 20    | 25    |
| CE          | 10   | 12   | 12   | 16   | 16   | 20    | 25    |
| CP          | 26   | 28   | 32   | 40   | 50   | 60    | 70    |
| CT          | 45   | 52   | 60   | 70   | 90   | 110   | 120   |
| PA1         | 53   | 60   | 68   | 78   | 100  | 120   | 130   |
| PB1         | 46.5 | 53.5 | 61.5 | 71.5 | 91.5 | 111.5 | 121.5 |

#### YB



| Bore/Symbol | 32  | 40  | 50 | 63 | 80 | 100 |
|-------------|-----|-----|----|----|----|-----|
| AH          | 32  | 36  | 45 | 50 | 63 | 71  |
| H           | 8   | 10  | 12 | 12 | 14 | 15  |
| CD          | 10  | 12  | 12 | 16 | 16 | 20  |
| G1          | 31  | 35  | 45 | 50 | 60 | 70  |
| G2          | 18  | 22  | 30 | 35 | 40 | 50  |
| G3          | 21  | 24  | 33 | 37 | 47 | 55  |
| CB          | 26  | 28  | 32 | 40 | 50 | 60  |
| K1          | 38  | 41  | 50 | 52 | 66 | 76  |
| K2          | 51  | 54  | 65 | 67 | 86 | 96  |
| S2          | 6.6 | 6.6 | 9  | 9  | 11 | 11  |
| R           | 10  | 11  | 13 | 15 | 15 | 19  |