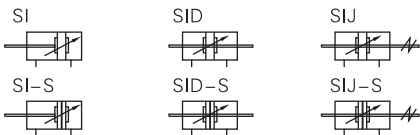


ISO15552 Standard cylinder

SI Series



Symbol



Product feature

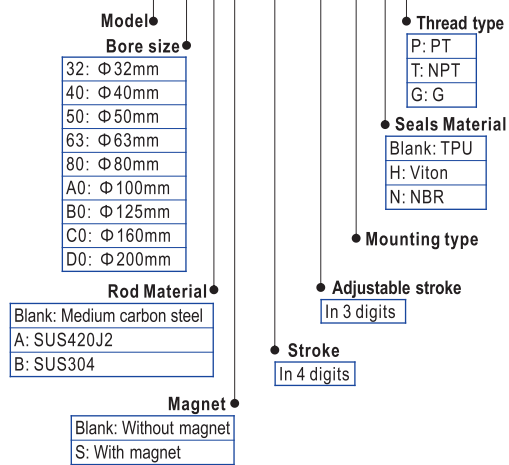
- 1. ISO15552 (original ISO6431) standard cylinder;
- 2. The piston seal is composed of two Y-shape one-way seal structure, which has compensation function, long service life and low start-up pressure;
- 3. The 米-shaped aluminum pipe without tie rod has good corrosion resistance;
- 4. The buffer adjustment of cylinder is smooth and steady;
- 5. Cylinders and accessories for installation with several specifications are optional.

Ordering code

Model can to be changed Ordering code. Example:  
Production type: SIJ  
Bore size: 160mm  
Rod material: SUS420J2  
Stroke: 500mm  
Adjustable stroke: 75mm  
Magnet: With magnet  
Mounting type: LB  
Seals material: NBR  
Thread type: NPT

Model: SIJ-160A x 500-75-S-N-LB-T

Ordering code: SIJ C0 A S 0500 075 LB N T



Specification

| Bore size(mm)                |         | 32                                                                                                              | 40 | 50   | 63 | 80   | 100 | 125    | 160 | 200  |
|------------------------------|---------|-----------------------------------------------------------------------------------------------------------------|----|------|----|------|-----|--------|-----|------|
| Acting type                  |         | Double acting                                                                                                   |    |      |    |      |     |        |     |      |
| Fluid                        |         | Air(to be filtered by 40 μ m filter element)                                                                    |    |      |    |      |     |        |     |      |
| Mounting type                | SI      | Basic FA FB CA CB CR LB TC FTC TCM1 TCM2                                                                        |    |      |    |      |     |        |     |      |
|                              | SID、SIJ | Basic FA LB TC FTC TCM1 TCM2                                                                                    |    |      |    |      |     |        |     |      |
| Operating pressure           |         | 0.1~1.0MPa(15~145psi)(1.0~10.0bar)                                                                              |    |      |    |      |     |        |     |      |
| Proof pressure               |         | 1.5MPa(215psi)(15bar)                                                                                           |    |      |    |      |     |        |     |      |
| Temperature °C               |         | -20~80                                                                                                          |    |      |    |      |     |        |     |      |
| Speed range mm/s             |         | 30~800                                                                                                          |    |      |    |      |     | 30~500 |     |      |
| Stroke tolerance             |         | 0~250 <sup>+1.0</sup> <sub>0</sub> 251~1000 <sup>+1.4</sup> <sub>0</sub> 1001~1500 <sup>+1.8</sup> <sub>0</sub> |    |      |    |      |     |        |     |      |
| Cushion type                 |         | Variable cushion                                                                                                |    |      |    |      |     |        |     |      |
| Adjustable cushion stroke mm |         | 27                                                                                                              |    | 30   |    | 36   |     | 40     |     | 50   |
| Port size ①                  |         | 1/8"                                                                                                            |    | 1/4" |    | 3/8" |     | 1/2"   |     | 3/4" |

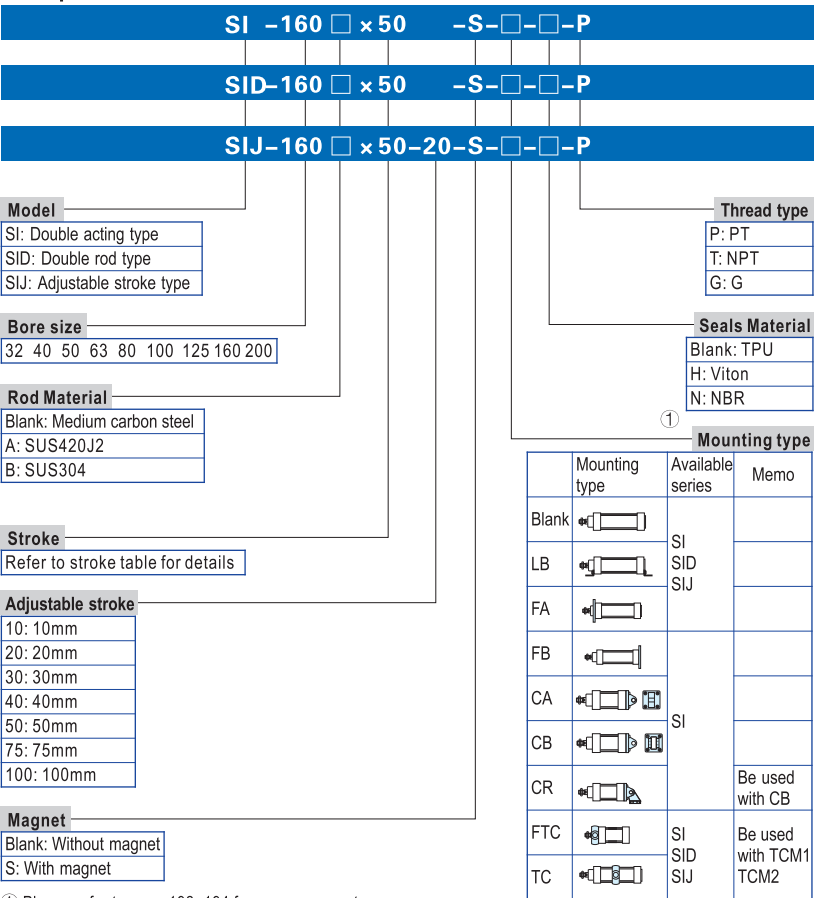
① PT thread, NPT thread and G thread are available.  
Add) Refer to P403~426 for detail of sensor switch.

Stroke

| Bore size<br>(mm) | Standard stroke (mm) |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     | Max. std<br>stroke | Max.<br>stroke |     |      |      |      |      |
|-------------------|----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|----------------|-----|------|------|------|------|
| 32                | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 1000               | 1800           |     |      |      |      |      |
| 40                | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 1200 | 1800 |      |      |
| 50                | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1200 | 1800 |
| 63                | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 1800 |
| 80                | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 1800 |
| 100               | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 1800 |
| 125               | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 1800 |
| 160               | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 2000 |
| 200               | 25                   | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600                | 700            | 800 | 900  | 1000 | 1500 | 2000 |

Note) Consult us for non-standard stroke.

Explain of model



① Please refer to page 192~194 for accessory parts.

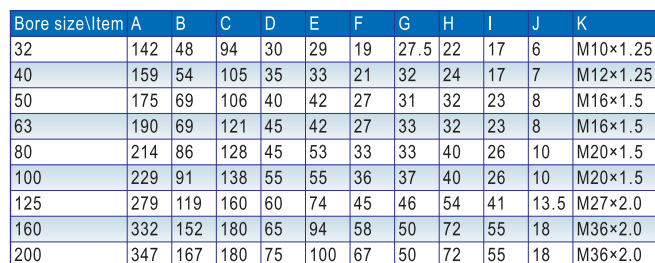


**AirTAC**

- Inner structure and material of major parts



### ■ Dimensions



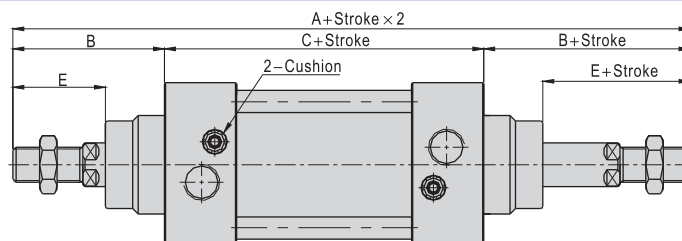
| Bore size\Item | L   | N    | O    | P   | Q   | R    | S   | T    | V  | W  | X   | Y  |
|----------------|-----|------|------|-----|-----|------|-----|------|----|----|-----|----|
| 32             | M6  | 13   | 1/8" | 5.5 | 6   | 6    | 47  | 32.5 | 12 | 10 | 3   | 30 |
| 40             | M6  | 17   | 1/4" | 6   | 7.5 | 8.5  | 53  | 38   | 16 | 13 | 3.5 | 35 |
| 50             | M8  | 15.5 | 1/4" | 7.5 | 6.5 | 9.5  | 65  | 46.5 | 20 | 17 | 3.5 | 40 |
| 63             | M8  | 16.5 | 3/8" | 7.5 | 7.5 | 11.5 | 75  | 56.5 | 20 | 17 | 4   | 45 |
| 80             | M10 | 16.5 | 3/8" | 9   | 7.5 | 13.5 | 95  | 72   | 25 | 22 | 4   | 45 |
| 100            | M10 | 18.5 | 1/2" | 9.5 | 8.5 | 13.5 | 115 | 89   | 25 | 22 | 4   | 55 |
| 125            | M12 | 23   | 1/2" | 14  | 12  | 14   | 140 | 110  | 32 | 27 | 4   | 60 |
| 160            | M16 | 25   | 3/4" | 15  | 12  | 20   | 180 | 140  | 40 | 36 | 4   | 65 |
| 200            | M16 | 25   | 3/4" | 15  | 12  | 20   | 220 | 175  | 40 | 36 | 5   | 75 |

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

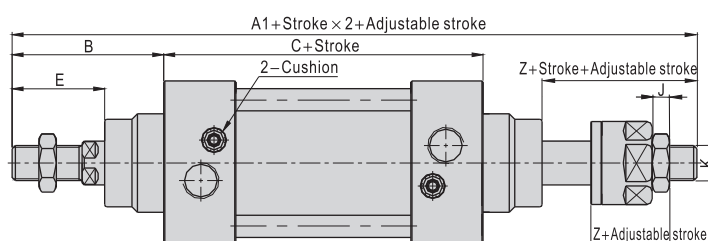
Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.



## SID



## SIJ



| Bore size\Item A | A1  | B     | C   | E   | Z   | J    | K    |          |
|------------------|-----|-------|-----|-----|-----|------|------|----------|
| 32               | 190 | 188   | 48  | 94  | 29  | 27   | 6    | M10X1.25 |
| 40               | 213 | 208   | 54  | 105 | 33  | 28   | 7    | M12X1.25 |
| 50               | 244 | 231   | 69  | 106 | 42  | 29   | 8    | M16X1.5  |
| 63               | 259 | 246   | 69  | 121 | 42  | 29   | 8    | M16X1.5  |
| 80               | 300 | 282.5 | 86  | 128 | 53  | 35.5 | 10   | M20X1.5  |
| 100              | 320 | 300.5 | 91  | 138 | 55  | 35.5 | 10   | M20X1.5  |
| 125              | 398 | 366.5 | 119 | 160 | 74  | 42.5 | 13.5 | M27X2.0  |
| 160              | 484 | 458   | 152 | 180 | 94  | 68   | 18   | M36X2.0  |
| 200              | 514 | 482   | 167 | 180 | 100 | 68   | 18   | M36X2.0  |

Remark:

1. The dimensions of magnet type cylinder are the same as non-magnet type cylinder.
2. The unmarked dimension is the same as SI standard type.