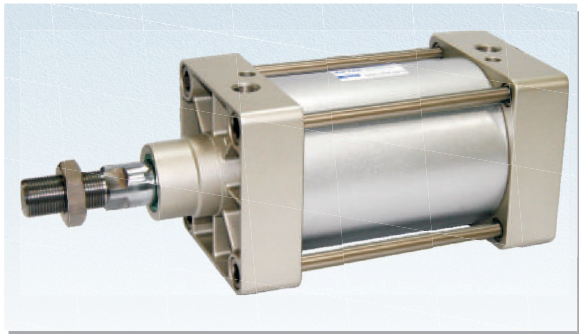
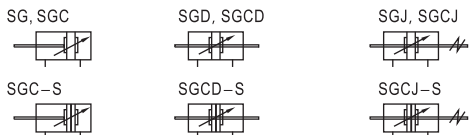


ISO15552 Standard cylinder
SG, SGC Series



Symbol



Product feature

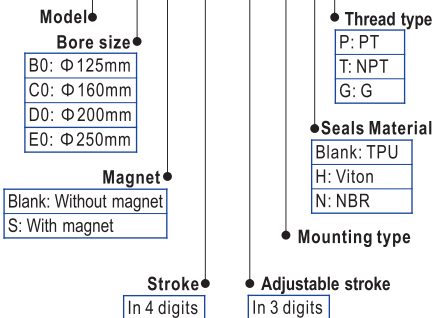
- 1. ISO15552 (original ISO6431) standard cylinder.
- 2. The piston seal is composed of two Y-shape seals of single-direction structure, which has compensation function, long service life and low start-up pressure.
- 3. SG series cylinders are made of stainless steel.
- 4. SGC series cylinders are made of aluminum pipe.
- 5. The buffer adjustment of cylinder is smooth and steady.
- 6. Cylinders and accessories for installation with several specifications are optional.
- 7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

Ordering code

Model can to be changed Ordering code. Example:
Production type: SGCJ
Bore size: 200mm
Stroke: 1200mm
Adjustable stroke: 100mm
Magnet: With magnet
Mounting type: LB
Seals material: NBR
Thread type: NPT

Model: SGCJ-200 x 1200-100-S-N-LB-T

Ordering code: SGCJ D0 S 1200 100 LB N T



Specification

Table with 5 columns: Bore size (mm), Acting type, Fluid, Mounting type, Operating pressure, Proof pressure, Temperature, Speed range, Stroke tolerance, Cushion type, Adjustable cushion stroke, Port size.

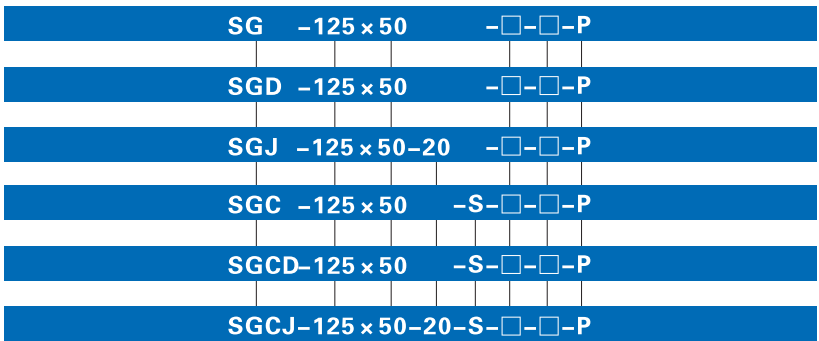
① PT thread, NPT thread and G thread are available. Add) Refer to P403~426 for detail of sensor switch.

Stroke

Table with 3 columns: Bore size (mm), Standard stroke (mm), Max. std. stroke, Max. stroke.

Note) Consult us for non-standard stroke.

Explain of model



Model, Thread type, Seals Material, Bore size, Stroke, Adjustable stroke, Magnet, Mounting type. Includes detailed options and tables for each parameter.

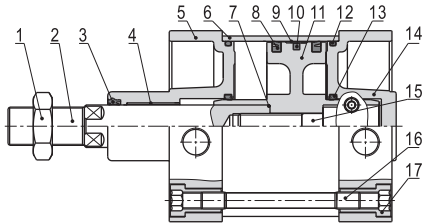
① Please refer to page 198~200 for accessory parts.
② SG, SGD, SGJ series are all without magnet.
③ TPU seals are not available for SGC250.



ISO15552 Standard cylinder  
SG, SGC Series



Inner structure and material of major parts

| SG, SGC                                                                           |                     |                                        |
|-----------------------------------------------------------------------------------|---------------------|----------------------------------------|
|  |                     |                                        |
| NO.                                                                               | Item                | Material                               |
| 1                                                                                 | Rod nut             | Carbon steel                           |
| 2                                                                                 | Piston rod          | Carbon steel with 20 μ m chrome plated |
| 3                                                                                 | Front cover packing | NBR(SGC250,SG)\TPU(Other)              |
| 4                                                                                 | Bushing             | Wear resistant material                |
| 5                                                                                 | Front cover         | Aluminum alloy                         |
| 6                                                                                 | Aluminum pipe       | Aluminum alloy\Carbon steel            |
| 7                                                                                 | O-ring              | NBR                                    |
| 8                                                                                 | Piston seal         | NBR                                    |
| 9                                                                                 | Wear ring           | Wear resistant material                |
| 10                                                                                | Magnet              | Rubber(SGC)\No(SG)                     |
| 11                                                                                | Piston              | Aluminum alloy                         |
| 12                                                                                | O-ring              | NBR                                    |
| 13                                                                                | Cushion O-ring      | NBR(SGC250,SG)\TPU(Other)              |
| 14                                                                                | Back cover          | Aluminum alloy                         |
| 15                                                                                | Screw               | Carbon steel                           |
| 16                                                                                | Tie-rod             | Carbon steel                           |
| 17                                                                                | Tie-rod nut         | Carbon steel                           |

Dimensions

SG, SGC

Technical drawing of the SG, SGC cylinder. The front view shows a square flange with 8 mounting holes (8-L) and a central bore. Dimensions include S (flange thickness), T (flange width), I (flange hole diameter), and L (flange hole pitch circle diameter). The side view shows the cylinder body with dimensions A+Stroke, B, C+Stroke, E, F, G, H, J, K, W, 4-sides, ØV, ØD, 2-Cushion, 2-O, N, Q, R, P, X, Y.

| Bore size\Item | A   | B   | C   | D  | E   | F  | G  | H  | I  | J    | K       |
|----------------|-----|-----|-----|----|-----|----|----|----|----|------|---------|
| 125            | 279 | 119 | 160 | 60 | 74  | 45 | 46 | 54 | 41 | 13.5 | M27×2.0 |
| 160            | 332 | 152 | 180 | 65 | 94  | 58 | 50 | 72 | 55 | 18   | M36×2.0 |
| 200            | 347 | 167 | 180 | 75 | 100 | 67 | 50 | 72 | 55 | 18   | M36×2.0 |
| 250            | 389 | 189 | 200 | 90 | 111 | 78 | 58 | 84 | 65 | 21   | M42×2.0 |

| Bore size\Item | L   | N  | O    | P  | Q  | R  | S   | T   | V  | W  | X | Y  |
|----------------|-----|----|------|----|----|----|-----|-----|----|----|---|----|
| 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 |
| 250            | M20 | 31 | 1"   | 22 | 13 | 20 | 282 | 220 | 50 | 46 | 8 | 90 |

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

SGD,SGCD

Technical drawing of the SGD,SGCD cylinder showing the side view. Dimensions include A+Stroke × 2, B, C+Stroke, B+Stroke, E, and E+Stroke.

SGJ,SGCJ

Technical drawing of the SGJ,SGCJ cylinder showing the side view. Dimensions include A1+Stroke × 2+Adjustable stroke, B, C+Stroke, Z+Stroke+Adjustable stroke, E, J, K, and Z+Adjustable stroke.

| Bore size\Item | A   | A1    | B   | C   | E   | Z    | J    | K       |
|----------------|-----|-------|-----|-----|-----|------|------|---------|
| 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 |
| 250            | 578 | 547   | 189 | 200 | 111 | 80   | 21   | M42X2.0 |

Remark:

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

2. The unmarked dimension is the same as SG standard type.

