







Standard cylinder——SU Series

Profile type

Product series

| Series name | Mounting type | | | | | | | Acting type | Bore size | Collocation of sensor switch | | | | | |
|--|---------------|----|----|----|----|----|----|---------------|-----------------------------------|------------------------------|-------|-------|-------|-------|-------|
| | Basic | LB | FA | FB | CA | CB | TC | | | CS1-B | DS1-B | CS1-F | DS1-F | CS1-U | DS1-U |
| Double acting type: SU  | ● | ● | ● | ● | ● | ● | ● | Double acting | 32 40 50 63 80 100 | ● | ● | ● | ● | ● | ● |
| Double rod type: SUD  | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● |
| Adjustable stroke type: SUJ  | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● |
| With lock type: SUL  | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● |
| Page | 202 | | | | | | | | | 403 | | | | | |
| | 206 217 | | | | | | | | | | | | | | |

Installation and application

- When load changes in the work, the cylinder with abundant output capacity shall be selected.
- Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion.
- Necessary protection measure shall be taken in the environment with higher humidity, much dust or water drops, oil dust and welding dregs.
- Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of particles into the cylinder.
- The medium used by cylinder shall be filtered to 40 μm or below.
- Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing.
- The cylinder shall be carried out test run without load before application. Prior to run, buffer shall be turned to the minimum and gradually released to avoid the damage on cylinder caused by excessive impact.
- The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life.
- If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust caps shall be added in air inlet and outlet ports.

Criteria for selection: Cylinder thrust

Unit: Newton(N)

| Bore size (mm) | Rod size (mm) | Acting type | Pressure area (mm ²) | Operating pressure(MPa) | | | | | | | | |
|----------------|---------------|-------------------------|----------------------------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 32 | 12 | Double acting Push side | 804 | 80.4 | 160.8 | 241.2 | 321.6 | 402.0 | 482.4 | 562.8 | 643.2 | 723.6 |
| | | Double acting Pull side | 690 | 69.0 | 138.0 | 207.0 | 276.0 | 345.0 | 414.0 | 483.0 | 552.0 | 621.0 |
| 40 | 16 | Double acting Push side | 1256 | 125.6 | 251.2 | 376.8 | 502.4 | 628.0 | 753.6 | 879.2 | 1004.8 | 1130.4 |
| | | Double acting Pull side | 1055 | 105.5 | 211.0 | 316.5 | 422.0 | 527.5 | 633.0 | 738.5 | 844.0 | 949.5 |
| 50 | 20 | Double acting Push side | 1963 | 196.3 | 392.6 | 588.9 | 785.2 | 981.5 | 1177.8 | 1374.1 | 1570.4 | 1766.7 |
| | | Double acting Pull side | 1649 | 164.9 | 329.8 | 494.7 | 659.6 | 824.5 | 989.4 | 1154.3 | 1319.2 | 1484.1 |
| 63 | 20 | Double acting Push side | 3117 | 311.7 | 623.4 | 935.1 | 1246.8 | 1558.5 | 1870.2 | 2181.9 | 2493.6 | 2805.3 |
| | | Double acting Pull side | 2803 | 280.3 | 560.6 | 840.9 | 1121.2 | 1401.5 | 1681.8 | 1962.1 | 2242.4 | 2522.7 |
| 80 | 25 | Double acting Push side | 5026 | 502.6 | 1005.2 | 1507.8 | 2010.4 | 2513.0 | 3015.6 | 3518.2 | 4020.8 | 4523.4 |
| | | Double acting Pull side | 4536 | 453.6 | 907.2 | 1360.8 | 1814.4 | 2268.0 | 2721.6 | 3175.2 | 3628.8 | 4082.4 |
| 100 | 25 | Double acting Push side | 7853 | 785.3 | 1570.6 | 2355.9 | 3141.2 | 3926.5 | 4711.8 | 5497.1 | 6282.4 | 7067.7 |
| | | Double acting Pull side | 7362 | 736.2 | 1472.4 | 2208.6 | 2944.8 | 3681.0 | 4417.2 | 5153.4 | 5889.6 | 6625.8 |



Standard cylinder(Profile)

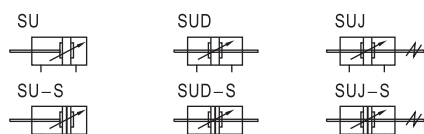


SU Series



SU

Symbol



Product feature

1. Standard cylinder manufactured by our enterprise.
2. The seal of piston adopts heterogeneous two way seal structure. It's dimension is tight and it has the function of oil reservation.
3. It is no tie rod cylinder. The cylinder barrel is "Mickey Mouse" shape, and have good corrosion.
4. Compared with ISO15552 standard cylinder, SU series cylinder with the same bore size is shorter.
5. The buffer adjustment of cylinder is smooth and steady.
6. Mounting accessories are the same as SC series.
7. The seal material with high temperature resistance is adopted to guarantee the normal operation of cylinder at 150°C.

Ordering code

Model can be changed Ordering code. Example:

Production type: SUJ

Bore size: 100mm

Stroke: 500mm

Adjustable stroke: 75mm

Magnet: With magnet

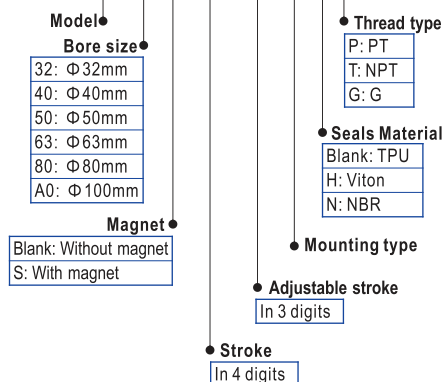
Mounting type: CB

Seals material: NBR

Thread type: NPT

Model: SUJ-100 × 500-75-S-N-CB-T

Ordering code: SUJ A0 S 0500 075 CB N T



Specification

| Bore size(mm) | 32 | 40 | 50 | 63 | 80 | 100 |
|------------------------------|---|------------------------------|---------------------------------------|------|--|------|
| Acting type | Double acting | | | | | |
| Fluid | Air(to be filtered by 40 μm filter element) | | | | | |
| Mounting type | SU | Basic FA FB CA CB LB TC TCM1 | | | | |
| | SUD, SUJ | Basic FA LB TC TCM1 | | | | |
| 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 | | | | | |
| Stroke tolerance | 0~250 ^{+1.0} ₀ | | 251~1000 ^{+1.4} ₀ | | 1001~1500 ^{+1.8} ₀ | |
| Cushion type | Variable cushion | | | | | |
| Adjustable cushion stroke mm | 21 | | | 28 | | 29 |
| | 1/8" | | | 1/4" | | 3/8" |
| Port size ① | 1/8" | | 1/4" | | 3/8" | |

① PT thread, NPT thread and G thread are available.

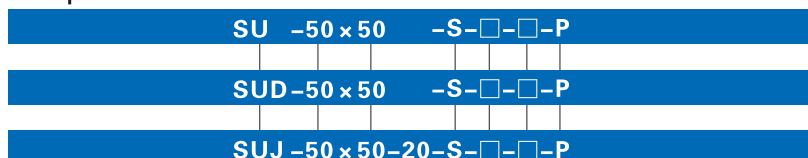
Add) Refer to P403-426 for detail of sensor switch.

Stroke

| Bore size (mm) | Standard stroke (mm) | | | | | | | | | | | | Max. std stroke | Max. stroke | |
|----------------|----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------|-----|
| | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | | 350 |
| 32 | | | | | | | | | | | | | 1000 | 1800 | |
| 40 | | | | | | | | | | | | | 1200 | 1800 | |
| 50 | | | | | | | | | | | | | 1200 | 1800 | |
| 63 | | | | | | | | | | | | | 1500 | 1800 | |
| 80 | | | | | | | | | | | | | 1500 | 1800 | |
| 100 | | | | | | | | | | | | | 1500 | 1800 | |

Note) Consult us for non-standard stroke.

Explain of model



Model

- SU: Double acting type
- SUD: Double rod type
- SUJ: Adjustable stroke type

Bore size

32 40 50 63 80 100

Stroke

Refer to stroke table for details

Adjustable stroke

- 10: 10mm
- 20: 20mm
- 30: 30mm
- 40: 40mm
- 50: 50mm
- 75: 75mm
- 100: 100mm

Magnet

- Blank: Without magnet
- S: With magnet

Thread type

- P: PT
- T: NPT
- G: G

Seals Material

- Blank: TPU
- H: Viton
- N: NBR

Mounting type

| Mounting type | Available series | Memo |
|---------------|------------------|-------------------|
| Blank | SU | |
| LB | SUD SUJ | |
| FA | | |
| FB | | |
| CA | SU | |
| CB | | |
| TC | SU, SUD SUJ | Be used with TCM1 |

① Please refer to page 217-220 for accessory parts.



Standard cylinder(Profile)



SU Series

Inner structure and material of major parts

SU

| NO. | Item | Material |
|-----|---------------------|--|
| 1 | Rod nut | Carbon steel |
| 2 | Piston rod | Carbon steel with 20 μ m chrome plated |
| 3 | Front cover packing | TPU |
| 4 | Bushing | Wear resistant material |
| 5 | Front cover | Aluminum alloy |
| 6 | Cushing O-ring | NBR |
| 7 | Cushion gasket | TPU |
| 8 | Barrel | Aluminum alloy |
| 9 | Piston | Aluminum alloy |
| 10 | Piston rod O-ring | NBR |
| 11 | Piston seal | NBR |
| 12 | Magnet | Plastic |
| 13 | Wear ring | Wear resistant material |
| 14 | Bolt | Carbon steel |
| 15 | Back cover | Aluminum alloy |
| 16 | Tie-rod nut | Carbon steel |

Dimensions

SU

| Bore size\Item | A | B | C | D | E | F | G | H | I | J | K |
|----------------|-----|----|-----|----|----|----|------|----|----|----|----------|
| 32 | 140 | 47 | 93 | 28 | 32 | 15 | 27.5 | 22 | 17 | 6 | M10×1.25 |
| 40 | 142 | 49 | 93 | 32 | 34 | 15 | 27.5 | 24 | 17 | 7 | M12×1.25 |
| 50 | 150 | 57 | 93 | 38 | 42 | 15 | 27.5 | 32 | 23 | 8 | M16×1.5 |
| 63 | 153 | 57 | 96 | 38 | 42 | 15 | 27.5 | 32 | 23 | 8 | M16×1.5 |
| 80 | 182 | 75 | 107 | 47 | 54 | 21 | 33 | 40 | 26 | 10 | M20×1.5 |
| 100 | 188 | 75 | 113 | 47 | 54 | 21 | 33 | 40 | 26 | 10 | M20×1.5 |

| Bore size\Item | L | M | N | O | P | Q | R | S | T | V | W |
|----------------|---------|------|------|------|-----|-----|-----|-----|----|----|----|
| 32 | M6×1.0 | 9.5 | 14 | 1/8" | 5.5 | 6 | 6.5 | 45 | 33 | 12 | 10 |
| 40 | M6×1.0 | 9.5 | 15 | 1/4" | 6 | 5 | 8.5 | 50 | 37 | 16 | 14 |
| 50 | M6×1.0 | 9.5 | 17 | 1/4" | 8.5 | 2.5 | 10 | 62 | 47 | 20 | 17 |
| 63 | M8×1.25 | 9.5 | 15 | 3/8" | 9.5 | 4 | 8.5 | 75 | 56 | 20 | 17 |
| 80 | M10×1.5 | 11.5 | 19.5 | 3/8" | 10 | 4.5 | 14 | 94 | 70 | 25 | 22 |
| 100 | M10×1.5 | 11.5 | 16.5 | 1/2" | 11 | 6.5 | 14 | 112 | 84 | 25 | 22 |

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



SUD

SUJ

| Bore size\Item | A1 | A2 | B | C | E | Z | J | K |
|----------------|-----|-------|----|-----|----|------|----|----------|
| 32 | 187 | 182 | 47 | 93 | 32 | 27 | 6 | M10X1.25 |
| 40 | 191 | 185 | 49 | 93 | 34 | 28 | 7 | M12X1.25 |
| 50 | 207 | 194 | 57 | 93 | 42 | 29 | 8 | M16X1.5 |
| 63 | 210 | 197 | 57 | 96 | 42 | 29 | 8 | M16X1.5 |
| 80 | 257 | 238.5 | 75 | 107 | 54 | 35.5 | 10 | M20X1.5 |
| 100 | 263 | 244.5 | 75 | 113 | 54 | 35.5 | 10 | M20X1.5 |

Remark:

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

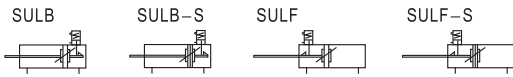
Standard cylinder(Profile)



SUL Series(Lockable type)



Symbol



Product feature

1. Lockable cylinders can be divided into two types: front cover lock type and back cover lock type.
2. Unlock method: automatic and manual.

SUL

Inner structure and material of major parts

SULB-S

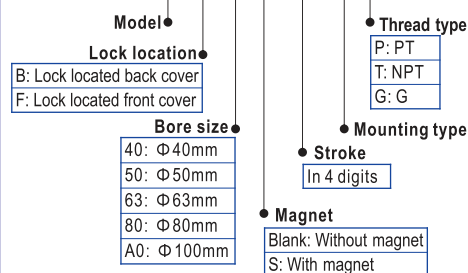
| NO. | Item | Material |
|-----|---------------------|---------------------------------------|
| 1 | Rod nut | Carbon steel |
| 2 | Piston rod | Carbon steel with 20 μm chrome plated |
| 3 | Front cover packing | NBR |
| 4 | Bushing | Wear resistant material |
| 5 | Front cover | Aluminum alloy |
| 6 | Cushing O-ring | NBR |
| 7 | O-ring | NBR |
| 8 | Barrel | Aluminum alloy |
| 9 | Piston rod O-ring | NBR |
| 10 | Magnet holder | Aluminum alloy |
| 11 | Wear ring | Wear resistant material |
| 12 | Magnet | Plastic |
| 13 | O-ring | NBR |
| 14 | Piston seal | NBR |
| 15 | Piston | Aluminum alloy |
| 16 | Lock combination | |
| 17 | Back cover | Aluminum alloy |
| 18 | Bolt | Carbon steel |
| 19 | Tie-rod nut | Carbon steel |

Ordering code

Model can to be changed Ordering code. Example:
 Production type: SUL
 Lock location: Lock located back cover
 Bore size: 100mm
 Stroke: 500mm
 Magnet: With magnet
 Mounting type: FA
 Thread type: NPT

Model: SUL B-100 × 500-S-FA-T

Ordering code: SUL B A0 S 0500 FA T



Specification

| Bore size(mm) | 40 | 50 | 63 | 80 | 100 |
|--------------------------------|---|----|------|----|------|
| Acting type | Double acting | | | | |
| Fluid | Air(to be filtered by 40 μm filter element) | | | | |
| Mounting type | Basic FA FB CA CB LB TC TCM1 | | | | |
| 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 | | | | |
| Stroke tolerance | 0~250 ^{+1.0} ₀ 251~1000 ^{+1.4} ₀ 1001~1500 ^{+1.8} ₀ | | | | |
| Cushion type | Variable cushion | | | | |
| Adjustable cushion stroke (mm) | No lock end | | 24 | | 32 |
| | With lock end | | 13.5 | 15 | 18 |
| Port size ① | 1/4" | | 3/8" | | 1/2" |

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

Stroke

| Bore size (mm) | Standard stroke (mm) | Max. std stroke | Max. stroke |
|----------------|--|-----------------|-------------|
| 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 |

Note) Consult us for non-standard stroke.

Explain of model

SUL B-50 × 50-S-□-P

Model: SUL: Double acting with lock type

Lock location: B: Lock located back cover, F: Lock located front cover

Bore size: 40 50 63 80 100

Stroke: Refer to stroke table for details

Magnet: Blank: Without magnet, S: With magnet

Thread type: P: PT, T: NPT, G: G

Mounting type:

| Mounting type | Available series | Memo |
|---------------|------------------|-------------------|
| Blank | SULB SULF | |
| LB | | |
| FA | | |
| FB | | |
| CA | | |
| CB | | |
| TC | | Be used with TCM1 |

① Please refer to page 217-220 for accessory parts.

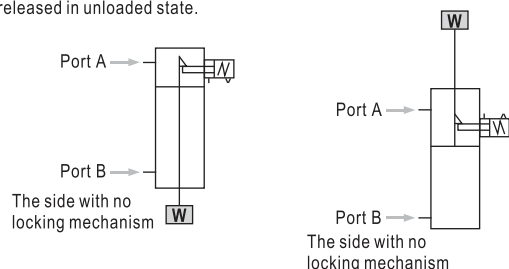


Standard cylinder(Profile)

SUL Series(With lock type)

The Operation Manual and Maintenance

1. In locked state, if pressure is supplied to the port A when both ports are under no force, either the lock's not being released or being released abruptly may cause the flying out of the piston rod. Before the lock being released, please make sure pressure is supplied to the port B and the locking mechanism is released in unloaded state.



2. If a quick exhaust valve is used to accelerate the descending speed, the cylinder body may move earlier than the lock pin, and the lock will not be released normally. Therefore, the lockable cylinder can not be used with a quick exhaust valve.

3. Please do not integrate with 3 port solenoid valve:
Please do not integrate with 3 port solenoid valve (especially with metal mid-sealing style). The lock will not work if there is pressure in the port on the lock mechanism side. In addition, even if the cylinder is locked temporarily, the air leaking out of the solenoid valve will enter the cylinder and the lock mechanism is released.

4. The lock may be released if locking mechanism side bears back pressure. Therefore, it is recommended to use an individual exhaust type manifold or individual valves.

5. Regarding an adjustable buffered cylinder, the piston may be restrained at the end of the stroke and cause damage to the lock mechanism if the needle of the cushion valve is over used. Therefore, the needle valve should be adjusted so that the piston may not be restrained.

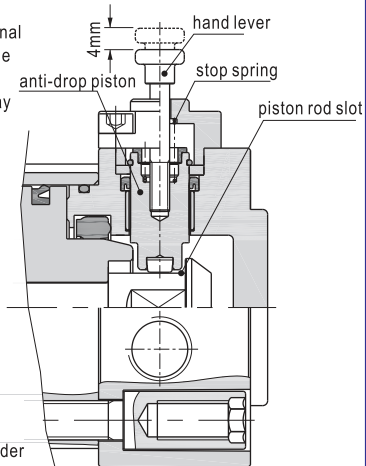
6. When manual operation to the lock mechanism is over, make sure the manual operation device is placed to the root position. In addition, it is dangerous to proceed the manual operation beyond adjustment time.

7. Release the lock before installation and adjustment of the cylinder:
Operations like installation under locked state may cause damage of locking part.

8. Do not use more than one cylinder:
One workpiece cannot be drove by 2 or more than 2 lockable cylinders because the other locks may not be released.

9. Please use speed control valve in exhaust throttle controlling state:
The lock may not be released in air suction and throttle controlling.

10. Make sure the stroke terminal of the cylinder is used on the locking mechanism side:
The locking mechanism may not work or released if the piston does not reach the stroke terminal.

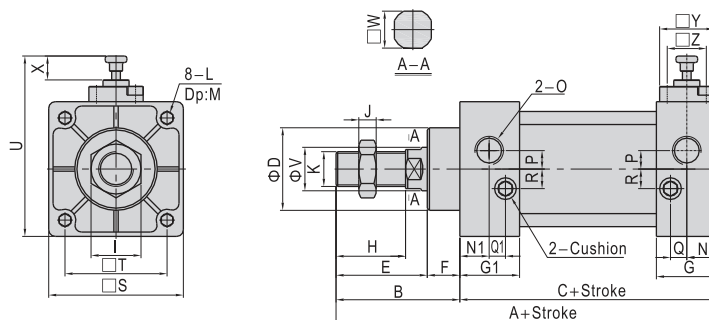


11. Ways to manually alter the unlocked state:

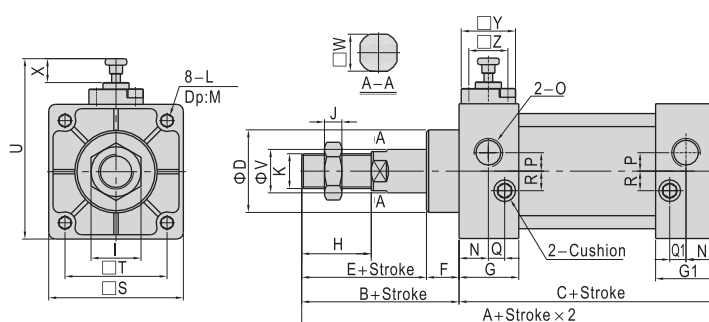
Screw the hand lever into the anti-drop piston and pull out the bolt of 4mm with a force more than 20N, the lock can be released after the movement of the anti-drop piston. The piston will be in locked state when the cylinder is installed horizontally with no load or forcing against the opposite port or the anti-drop piston replaced to the root position and enter into the piston rod slot with the function of stop spring.

Dimensions

SULB



SULF



| Bore size\Item | A | B | C | D | E | F | G | G1 | H | I | J | K | L |
|----------------|-------|----|------|----|----|----|------|------|----|----|----|----------|---------|
| 40 | 144.5 | 49 | 95.5 | 32 | 34 | 15 | 30 | 27.5 | 24 | 17 | 7 | M12×1.25 | M6×1.0 |
| 50 | 152.5 | 57 | 95.5 | 38 | 42 | 15 | 30 | 27.5 | 32 | 23 | 8 | M16×1.5 | M6×1.0 |
| 63 | 157 | 57 | 100 | 38 | 42 | 15 | 31.5 | 27.5 | 32 | 23 | 8 | M16×1.5 | M8×1.25 |
| 80 | 188 | 75 | 113 | 47 | 54 | 21 | 39 | 33 | 40 | 26 | 10 | M20×1.5 | M10×1.5 |
| 100 | 194 | 75 | 119 | 47 | 54 | 21 | 39 | 33 | 40 | 26 | 10 | M20×1.5 | M10×1.5 |

| Bore size\Item | M | N | N1 | O | P | Q | Q1 | R | S | T | U | V | W | X | Y | Z |
|----------------|------|------|------|------|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|
| 40 | 9.5 | 16 | 13.5 | 1/4" | 6 | 8.2 | 8.2 | 9 | 50 | 37 | 71 | 16 | 14 | 10 | 25 | 18 |
| 50 | 9.5 | 16 | 13.5 | 1/4" | 8.5 | 7.5 | 7.5 | 9 | 62 | 47 | 83 | 20 | 17 | 10 | 25 | 18 |
| 63 | 9.5 | 16.5 | 13.5 | 3/8" | 7 | 8.5 | 7.5 | 8.5 | 75 | 56 | 96 | 20 | 17 | 8 | 30 | 21 |
| 80 | 11.5 | 19 | 16.5 | 3/8" | 10 | 13 | 9.5 | 14 | 94 | 70 | 116 | 25 | 22 | 8 | 33 | 24 |
| 100 | 11.5 | 19 | 16.5 | 1/2" | 11 | 13 | 9.5 | 14 | 112 | 84 | 134 | 25 | 22 | 8 | 33 | 24 |

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



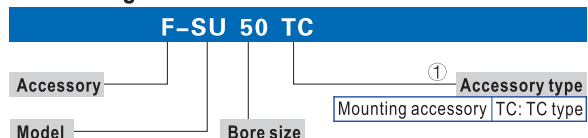
SUL

Standard cylinder(Profile)



Accessories

Ordering code



① The listed accessories are for SU cylinder. Accessories that are adaptable to other cylinders are not shown. Please refer to accessory list for selection and ordering information.

Accessory selection

| Cylinder model | SU, SUL | SUD | SUJ |
|--------------------|----------------------|----------------------|----------------------|
| Accessories | Standard With magnet | Standard With magnet | Standard With magnet |
| Mounting accessory | | | |
| LB | ● | ● | ● |
| FA | ● | ● | ● |
| FB | ● | × | × |
| CA | ● | × | × |
| CB | ● | × | × |
| TC | ● | ● | ● |
| TCM1 | ● | ● | ● |
| Knuckle | | | |
| I | ● | ● | ● |
| Y | ● | ● | ● |
| U | ● | ● | ● |
| ① F | ● | ● | ● |
| Sensor switch② | | | |
| CS1-B | × | ● | ● |
| DS1-B | × | ● | ● |
| CS1-F | × | ● | ● |
| DS1-F | × | ● | ● |
| CS1-U | × | ● | ● |
| DS1-U | × | ● | ● |

① Please refer to P397-402 for knuckle detail.
② Please refer to P403-426 for detail of sensor switch.

Material of accessories

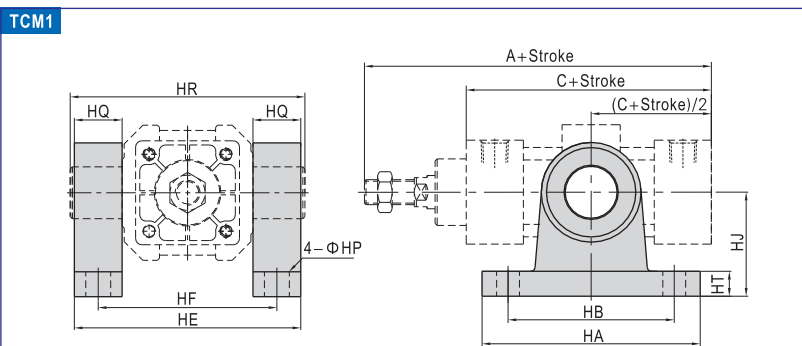
| Accessories | Mounting accessories | Knuckle |
|-------------|--------------------------------|---------|
| Bore size | LB FA FB CA CB TC TCM1 I Y F U | I Y F U |
| 32~100 | □ ● ● ◇ ◇ ◇ ◇ □ □ □ □ | □ □ □ □ |

●—Aluminum alloy, ◇—Cast steel, □—Carbon steel.

List for ordering code of accessories

| Accessories | Mounting accessory | | | | | |
|-------------|--------------------|--------------|--------------|--------------|-------|-------|
| Bore size | LB | FA | FB | CA | | |
| 32 | F-SC32LB | F-SC32FA | F-SC32FB | F-SC32CA | | |
| 40 | F-SC40LB | F-SC40FA | F-SC40FB | F-SC40CA | | |
| 50 | F-SC50LB | F-SC50FA | F-SC50FB | F-SC50CA | | |
| 63 | F-SC63LB | F-SC63FA | F-SC63FB | F-SC63CA | | |
| 80 | F-SC80LB | F-SC80FA | F-SC80FB | F-SC80CA | | |
| 100 | F-SC100LB | F-SC100FA | F-SC100FB | F-SC100CA | | |
| Accessories | Mounting accessory | | | | | |
| Bore size | CB | TC | TCM1 | | | |
| 32 | F-SC32CB | F-SU32TC | F-SI32TCM1 | | | |
| 40 | F-SC40CB | F-SU40TC | F-SC40TCM1 | | | |
| 50 | F-SC50CB | F-SU50TC | F-SC40TCM1 | | | |
| 63 | F-SC63CB | F-SU63TC | F-SC40TCM1 | | | |
| 80 | F-SC80CB | F-SU80TC | F-SC80TCM1 | | | |
| 100 | F-SC100CB | F-SU100TC | F-SC80TCM1 | | | |
| Accessories | Knuckle | | | | | |
| Bore size | I: I Knuckle | Y: Y Knuckle | F: F Knuckle | U: U Knuckle | | |
| 32 | F-M10125I | F-M10125Y | F-M10125F | F-M10125U | | |
| 40 | F-M12125I | F-M12125Y | F-M12125F | F-M12125U | | |
| 50 | F-M16150I | F-M16150Y | F-M16150F | F-M16150U | | |
| 63 | F-M16150I | F-M16150Y | F-M16150F | F-M16150U | | |
| 80 | F-M20150I | F-M20150Y | F-M20150F | F-M20150U | | |
| 100 | F-M20150I | F-M20150Y | F-M20150F | F-M20150U | | |
| Accessories | Sensor switch | | | | | |
| Bore size | CS1-B | DS1-B | CS1-F | DS1-F | CS1-U | DS1-U |
| 32 | CS1-B1 | DS1-B1 | | | | |
| 40 | CS1-B1 | DS1-B1 | | | | |
| 50 | CS1-B1 | DS1-B1 | | | | |
| 63 | CS1-B2 | DS1-B2 | CS1-F | DS1-F | CS1-U | DS1-U |
| 80 | CS1-B3 | DS1-B3 | | | | |
| 100 | CS1-B4 | DS1-B4 | | | | |

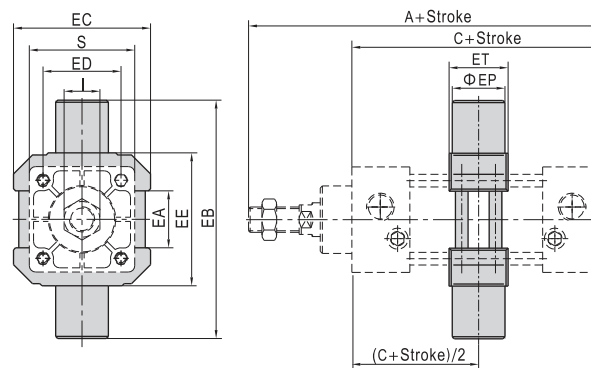
Dimensions



| Bore size\Item | A | C | HA | HB | HE | HF | HP | HQ | HR | HT | HJ |
|----------------|-----|-----|-----|----|-----|-----|----|----|-----|----|----|
| 32 | 140 | 93 | 80 | 60 | 72 | 62 | 9 | 12 | 74 | 11 | 40 |
| 40 | 142 | 93 | 103 | 80 | 109 | 86 | 11 | 23 | 113 | 12 | 50 |
| 50 | 150 | 93 | 103 | 80 | 122 | 99 | 11 | 23 | 126 | 12 | 50 |
| 63 | 153 | 96 | 103 | 80 | 134 | 111 | 11 | 23 | 138 | 12 | 50 |
| 80 | 182 | 107 | 110 | 85 | 160 | 137 | 13 | 23 | 164 | 12 | 70 |
| 100 | 188 | 113 | 110 | 85 | 178 | 155 | 13 | 23 | 182 | 12 | 70 |

Note) The installation position of the accessories can not be adjusted arbitrarily.

TC



| Bore size\Item | A | C | EA | EB | EC | ED | EE | EP | ET | I | S |
|----------------|-----|-----|----|-----|-----|----|-----|----|----|----|-----|
| 32 | 140 | 93 | 20 | 74 | 52 | 33 | 50 | 12 | 22 | 17 | 45 |
| 40 | 142 | 93 | 27 | 113 | 65 | 37 | 63 | 25 | 28 | 17 | 50 |
| 50 | 150 | 93 | 31 | 126 | 75 | 47 | 76 | 25 | 28 | 23 | 62 |
| 63 | 153 | 96 | 42 | 138 | 90 | 56 | 88 | 25 | 30 | 23 | 75 |
| 80 | 182 | 107 | 54 | 164 | 112 | 70 | 114 | 25 | 32 | 26 | 94 |
| 100 | 188 | 113 | 68 | 182 | 135 | 84 | 132 | 25 | 38 | 26 | 112 |

Note) The installation position of the accessories can not be adjusted arbitrarily.

The others accessories are the same as SC series's accessories, please refer to P217-220 for details.

