

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/

COVPIN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/

MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd

Contr

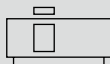
Ending

Rodless cylinder double acting

# SRL3 Series

- Bore size:  $\varnothing 12$ ,  $\varnothing 16$ ,  $\varnothing 20$ ,  $\varnothing 25$ ,  $\varnothing 32$   
 $\varnothing 40$ ,  $\varnothing 50$ ,  $\varnothing 63$ ,  $\varnothing 80$ ,  $\varnothing 100$  or equiv.

JIS symbol



## Specifications

| Item                  | SRL3           |                                                                                                                                             |     |       |                      |       |     |       |                          |       |      |
|-----------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|----------------------|-------|-----|-------|--------------------------|-------|------|
| Bore size             | mm             | ø12                                                                                                                                         | ø16 | ø20   | ø25                  | ø32   | ø40 | ø50   | ø63                      | ø80   | ø100 |
| Actuation             | Double acting  |                                                                                                                                             |     |       |                      |       |     |       |                          |       |      |
| Working fluid         | Compressed air |                                                                                                                                             |     |       |                      |       |     |       |                          |       |      |
| Max. working pressure | MPa            | 0.7 (≈100 psi, 7 bar)                                                                                                                       |     |       |                      |       |     |       |                          |       |      |
| Min. working pressure | MPa            | 0.2 (≈29 psi, 2 bar)                                                                                                                        |     |       | 0.1 (≈15 psi, 1 bar) |       |     |       | 0.05 (≈7.3 psi, 0.5 bar) |       |      |
| Proof pressure        | MPa            | 1.05 (≈150 psi, 10.5 bar)                                                                                                                   |     |       |                      |       |     |       |                          |       |      |
| Ambient temperature   | °C             | 5 (41°F) to 60 (140°F)                                                                                                                      |     |       |                      |       |     |       |                          |       |      |
| Port size             |                | M5                                                                                                                                          |     | Rc1/8 |                      | Rc1/4 |     | Rc3/8 |                          | Rc1/2 |      |
| Stroke tolerance      | mm             | <sup>+2.0</sup> <sub>0</sub> ( to 1000), <sup>+2.5</sup> <sub>0</sub> ( to 3000), <sup>+3.0</sup> <sub>0</sub> ( to 5000)                   |     |       |                      |       |     |       |                          |       |      |
| Working piston speed  | mm/s           | 50 to 2000 (standard piping) (*1)                                                                                                           |     |       |                      |       |     |       |                          |       |      |
| Cushion               |                | Air cushion                                                                                                                                 |     |       |                      |       |     |       |                          |       |      |
| Lubrication           |                | Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication. Once lubricated, the cylinder will need periodic lubrication.) |     |       |                      |       |     |       |                          |       |      |

\*1: For common port piping, the working piston speed varies depending on the stroke length. Contact CKD.

## Allowable absorbed energy

| Bore size<br>(mm)           | Cushioned               |                     | Without cushion         | With shock absorber (initial set point) |                       |
|-----------------------------|-------------------------|---------------------|-------------------------|-----------------------------------------|-----------------------|
|                             | Max absorbed energy (J) | Cushion stroke (mm) | Max absorbed energy (J) | Absorbed energy (J)                     | Effective stroke (mm) |
| $\varnothing 12$ or equiv.  | 0.03                    | 14.5                | 0.003                   | 2.4                                     | 5.5                   |
| $\varnothing 16$ or equiv.  | 0.22                    | 19.2                | 0.007                   | 2.4                                     | 5.5                   |
| $\varnothing 20$ or equiv.  | 0.59                    | 22.2                | 0.010                   | 5.7                                     | 7                     |
| $\varnothing 25$ or equiv.  | 1.40                    | 20.9                | 0.015                   | 10                                      | 9                     |
| $\varnothing 32$ or equiv.  | 2.57                    | 23.5                | 0.030                   | 18                                      | 13                    |
| $\varnothing 40$ or equiv.  | 4.27                    | 23.9                | 0.050                   | 50                                      | 16.5                  |
| $\varnothing 50$ or equiv.  | 9.13                    | 24.9                | 0.072                   | 86                                      | 21                    |
| $\varnothing 63$ or equiv.  | 17.4                    | 29.6                | 0.138                   | 86                                      | 21                    |
| $\varnothing 80$ or equiv.  | 40                      | 45.8                | 0.393                   | 143                                     | 25                    |
| $\varnothing 100$ or equiv. | 67                      | 45.8                | 0.622                   | 143                                     | 25                    |

## Stroke length

| Bore size<br>(mm)                                                                                                                                                                                                                                                                                         | Standard stroke<br>length (mm)                   | Max. stroke length<br>(mm) | Min. stroke length<br>(mm) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|----------------------------|
| $\varnothing 12$ or equiv.<br>$\varnothing 16$ or equiv.<br>$\varnothing 20$ or equiv.<br>$\varnothing 25$ or equiv.<br>$\varnothing 32$ or equiv.<br>$\varnothing 40$ or equiv.<br>$\varnothing 50$ or equiv.<br>$\varnothing 63$ or equiv.<br>$\varnothing 80$ or equiv.<br>$\varnothing 100$ or equiv. | 200/300<br>400/500<br>600/700<br>800/900<br>1000 | 5000                       | 1                          |

\* The custom stroke length is available in 1 mm increments.

## Number of installed M type switches and min. stroke length (mm)

| Switch quantity             | 1   |     | 2   |        | 3   |         | 4   |          | 5   |          | 6   |          |
|-----------------------------|-----|-----|-----|--------|-----|---------|-----|----------|-----|----------|-----|----------|
| Switch model No.            |     |     |     |        |     |         |     |          |     |          |     |          |
| Bore size (mm)              | M*V | M*H | M*V | M*H    | M*V | M*H     | M*V | M*H      | M*V | M*H      | M*V | M*H      |
| $\varnothing 12$ or equiv.  | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| $\varnothing 16$ or equiv.  | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| $\varnothing 20$ or equiv.  | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| $\varnothing 25$ or equiv.  | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| $\varnothing 32$ or equiv.  | 10  | 10  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| $\varnothing 40$ or equiv.  | 10  | 10  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| $\varnothing 50$ or equiv.  | 15  | 15  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| $\varnothing 63$ or equiv.  | 15  | 15  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| $\varnothing 80$ or equiv.  | 25  |     | 50  |        | 100 |         | 150 |          | 200 |          | 250 |          |
| $\varnothing 100$ or equiv. | 25  |     | 50  |        | 100 |         | 150 |          | 200 |          | 250 |          |

Note: Values in ( ) are the min. stroke length with switch of the full stroke length adjustable.

## Number of installed T type switches and min. stroke length (mm)

| Switch quantity             | 1   |     | 2   |        | 3   |          | 4   |          | 5   |          | 6   |          |
|-----------------------------|-----|-----|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|
| Switch model No.            |     |     |     |        |     |          |     |          |     |          |     |          |
| Bore size (mm)              | T*V | T*H | T*V | T*H    | T*V | T*H      | T*V | T*H      | T*V | T*H      | T*V | T*H      |
| $\varnothing 12$ or equiv.  | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| $\varnothing 16$ or equiv.  | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| $\varnothing 20$ or equiv.  | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| $\varnothing 25$ or equiv.  | 10  | 10  | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| $\varnothing 32$ or equiv.  | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| $\varnothing 40$ or equiv.  | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| $\varnothing 50$ or equiv.  | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| $\varnothing 63$ or equiv.  | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| $\varnothing 80$ or equiv.  | 15  | 15  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| $\varnothing 100$ or equiv. | 15  | 15  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |

Note: Values in ( ) are the min. stroke length with switch of the full stroke length adjustable.

### Switch specifications (M type switch)

● 1-color/2-color display

| Item                 | Proximity 2-wire                      |                             | Proximity 3-wire                                                                           |                              |                             |
|----------------------|---------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
|                      | M2V,M2H                               | M2WV<br>(2-color display)   | M3H/M3V                                                                                    | M3PH/M3PV<br>(made to order) | M3WV                        |
| Applications         | Dedicated for programmable controller |                             | For programmable controller, relay, IC circuit, compact solenoid valve                     |                              |                             |
| Output method        | -                                     |                             | NPN output                                                                                 | PNP output                   | NPN output                  |
| Power supply voltage | -                                     |                             | 4.5 to 28 VDC                                                                              |                              | 10 to 28 VDC                |
| Load voltage         | 10 to 30 VDC                          |                             | 30 VDC or less                                                                             |                              |                             |
| Load current         | 5 to 30 mA                            |                             | 100 mA or less                                                                             | 100 mA or less               | 100 mA or less              |
| Indicator lamp       | LED (Lit when ON)                     | Red/green LED (Lit when ON) | LED (Lit when ON)                                                                          | Yellow LED (Lit when ON)     | Red/green LED (Lit when ON) |
| Leakage current      | 1 mA or less                          |                             | 10 μA or less                                                                              | 0.05 mA or less              | 10 μA or less               |
| Weight               | g 1 m:22 3 m:57 5 m:93                |                             |                                                                                            |                              |                             |
| Item                 | Reed 2-wire                           |                             |                                                                                            |                              |                             |
|                      | M0V,M0H                               |                             | M5V,M5H                                                                                    |                              |                             |
| Applications         | Programmable controller, relay        |                             | For programmable controller, relay, IC circuit (without indicator lamp), serial connection |                              |                             |
| Power supply voltage | -                                     |                             | -                                                                                          |                              |                             |
| Load voltage         | 12/24 VDC                             | 110 VAC                     | 5/12/24 VDC                                                                                |                              | 110 VAC or less             |
| Load current         | 5 to 50 mA                            | 7 to 20 mA                  | 50 mA or less                                                                              |                              | 20 mA or less               |
| Indicator lamp       | LED (Lit when ON)                     |                             | Without indicator lamp                                                                     |                              |                             |
| Leakage current      | 0 mA                                  |                             |                                                                                            |                              |                             |
| Weight               | g 1 m:22 3 m:57 5 m:93                |                             |                                                                                            |                              |                             |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

### Switch specifications (T type switch)

● 2-color display

| Item                 | Proximity 2-wire                      |                                | Proximity 3-wire                   |                                |
|----------------------|---------------------------------------|--------------------------------|------------------------------------|--------------------------------|
|                      | T2YH/T2YV                             | T2WH/T2WV                      | T3YH/T3YV                          | T3WH/T3WV                      |
| Applications         | Dedicated for programmable controller |                                | For programmable controller, relay |                                |
| Output method        | -                                     |                                | NPN output                         | NPN output                     |
| Power supply voltage | -                                     |                                | 10 to 28 VDC                       |                                |
| Load voltage         | 10 to 30 VDC                          | 24 VDC ±10%                    | 30 VDC or less                     |                                |
| Load current         | 5 to 20 mA(*3)                        |                                | 50 mA or less                      |                                |
| Indicator lamp       | Red/green LED<br>(Lit when ON)        | Red/green LED<br>(Lit when ON) | Red/green LED<br>(Lit when ON)     | Red/green LED<br>(Lit when ON) |
| Leakage current      | 1 mA or less                          |                                | 10 µA or less                      |                                |
| Weight               | g 1 m:33 3 m:87 5 m:142               |                                | 1 m:33 3 m:87 5 m:142              |                                |
|                      | 1 m:18 3 m:49 5 m:80                  |                                | 1 m:18 3 m:49 5 m:80               |                                |

● For AC magnetic field

| Item                  | Proximity switch                      |
|-----------------------|---------------------------------------|
|                       | T2YD, T2YDT (*4)                      |
| Applications          | Dedicated for programmable controller |
| Indicator lamp        | Red/green LED (Lit when ON)           |
| Load voltage          | 24 VDC ±10%                           |
| Load current          | 5 to 20 mA                            |
| Internal voltage drop | 6V or less                            |
| Leakage current       | 1.0 mA or less                        |
| Weight                | g 1 m:61 3 m:166 5 m:272              |

\*1:Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2:Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3 : The max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*4 : AC magnetic field proof switch (T2YD/T2YDT) cannot be used in DC magnetic field.

### Cylinder weight

Unit: kg

| Bore size (mm) | Weight for 0 mm stroke length |      |       | Switch weight                                              | Mounting bracket weight |        | Additional weight<br>per St = 100mm |
|----------------|-------------------------------|------|-------|------------------------------------------------------------|-------------------------|--------|-------------------------------------|
|                | Basic<br>(00)                 | Foot |       |                                                            | T type                  | M type |                                     |
|                |                               | (LB) | (LB1) |                                                            |                         |        |                                     |
| ø12 or equiv.  | 0.24                          | 0.25 | 0.26  | Refer to<br>the weight<br>in the switch<br>specifications. | 0.005                   | 0.001  | 0.10                                |
| ø16 or equiv.  | 0.32                          | 0.33 | 0.35  |                                                            |                         |        | 0.13                                |
| ø20 or equiv.  | 0.52                          | 0.54 | 0.58  |                                                            |                         |        | 0.18                                |
| ø25 or equiv.  | 1.0                           | 1.1  | 1.1   |                                                            |                         |        | 0.28                                |
| ø32 or equiv.  | 1.5                           | 1.6  | 1.7   |                                                            |                         |        | 0.36                                |
| ø40 or equiv.  | 2.4                           | 2.5  | -     |                                                            |                         |        | 0.53                                |
| ø50 or equiv.  | 3.5                           | 3.6  | -     |                                                            |                         |        | 0.75                                |
| ø63 or equiv.  | 6.1                           | 6.4  | -     |                                                            |                         |        | 1.11                                |
| ø80 or equiv.  | 18.4                          | 19.0 | -     |                                                            |                         |        | 2.32                                |
| ø100 or equiv. | 26.2                          | 27.2 | -     |                                                            |                         |        | 3.38                                |

## How to order

Without switch (built-in magnet for switch)

**SRL3 - 00 - 12 B - 200** — **B**

With switch (built-in magnet for switch)

**SRL3 - 00 - 12 B - 200 - M0H - R - B**

**A** Mounting  
\*1, \*2

**B** Bore size

**C** Port thread

**D** Cushion

**E** Stroke length

**F** Switch  
model No.  
\*4

## ⚠ Precautions for model No. selection

\*1 : Mounting bracket will be shipped assembled with the product.

\*2 : For 12, 16, 20, 25 and 32 bore sizes with option code "R" or "T", the mounting will be "00" or "LB1".  
(Piping with "LB" is not possible for option codes "R" and "T".)

\*3 : Refer to page 1574 for the min. stroke length with switch.

\*4 : Switches other than **(F)** Switch model No. are also available. (Made to order) Refer to Ending Page 1 for details.

\*5 : "\*" of L\* and N\* indicates the number of sets. When more than one set are necessary, specify "L2" (for LB) or "N2" (for LB1). 2 pcs./set

\*6 : For the port and cushion needle position codes, refer to dimensions on pages 1582 to 1587.

\*7 : In the case of the standard with ø12 to ø25, remove the cover, attach a flat nut and install the full stroke length adjusting bracket. A flat nut is attached to option "A3" to enable retrofitting the full stroke length adjusting bracket without removing the cover.

\*8 : In "H", the thread size for ø12 and ø16 will be "M4" and that for ø20 will be "M5".

\*9 : Check the option combinations in "Option selection table" on the next page.

\*10 : Copper and PTFE free as standard. (Except for type with shock absorber)

[Example of model No.]

**SRL3-00-12B-200-M0H-R-B**

Model: Rodless cylinder

**A** Mounting : Basic

**B** Bore size : ø12 mm

**C** Port thread : M5

**D** Cushion : Both sides cushioned

**E** Stroke length : 200 mm

**F** Switch model No. : Reed M0H switch, lead wire 1 m

**G** Switch quantity : 1 on R side

**H** Option : Port position F, cushion needle position B

| Code                 | Description                                                        |                      |               |                          |                                       |        |    |    |    |    |     |
|----------------------|--------------------------------------------------------------------|----------------------|---------------|--------------------------|---------------------------------------|--------|----|----|----|----|-----|
| A Mounting           |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| 00                   | Basic                                                              |                      |               |                          |                                       |        |    |    |    |    |     |
| LB                   | Axial foot                                                         |                      |               |                          |                                       |        |    |    |    |    |     |
| LB1                  | Axial foot (ø12 to ø32 only)                                       |                      |               |                          |                                       |        |    |    |    |    |     |
| B Bore size (mm)     |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| 12                   | ø12                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 16                   | ø16                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 20                   | ø20                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 25                   | ø25                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 32                   | ø32                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 40                   | ø40                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 50                   | ø50                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 63                   | ø63                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 80                   | ø80                                                                |                      |               |                          |                                       |        |    |    |    |    |     |
| 100                  | ø100                                                               |                      |               |                          |                                       |        |    |    |    |    |     |
| C Port thread        |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| Blank                | Rc thread (M5 for ø12 and ø16)                                     |                      |               |                          |                                       |        |    |    |    |    |     |
| N                    | NPT thread (ø20 or more) (made-to-order product)                   |                      |               |                          |                                       |        |    |    |    |    |     |
| G                    | G thread (ø20 or more) (made-to-order product)                     |                      |               |                          |                                       |        |    |    |    |    |     |
| D Cushion            |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| B                    | Both sides cushioned                                               |                      |               |                          |                                       |        |    |    |    |    |     |
| R                    | R side cushioned                                                   |                      |               |                          |                                       |        |    |    |    |    |     |
| L                    | L side cushioned                                                   |                      |               |                          |                                       |        |    |    |    |    |     |
| N                    | Without cushion                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| E Stroke length (mm) |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| Bore size            | Stroke length *3                                                   | Custom stroke length |               |                          |                                       |        |    |    |    |    |     |
| ø12 to ø100          | 1 to 5000                                                          | In 1 mm increments   |               |                          |                                       |        |    |    |    |    |     |
| F Switch model No.   |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| Axial lead wire      | Radial lead wire                                                   | Reed Contact         | Voltage AC DC | Indicator lamp           | Lead wire                             |        |    |    |    |    |     |
| M0H*                 | M0V*                                                               |                      | ● ●           | 1-color display          | 2-wire                                |        |    |    |    |    |     |
| M5H*                 | M5V*                                                               |                      | ● ●           | Without indicator lamp   |                                       |        |    |    |    |    |     |
| M2H*                 | M2V*                                                               |                      | ●             | 1-color display          |                                       |        |    |    |    |    |     |
| -                    | M2WV*                                                              |                      | ●             | 2-color display          | 2-wire                                |        |    |    |    |    |     |
| M3H*                 | M3V*                                                               |                      | ●             | 1-color display          | 3-wire                                |        |    |    |    |    |     |
| -                    | M3WV*                                                              |                      | ●             | 2-color display          |                                       |        |    |    |    |    |     |
| M3PH*                | M3PV*                                                              |                      | ●             | 1-color display (custom) |                                       |        |    |    |    |    |     |
| T2WH*                | T2WV*                                                              |                      | ●             | 2-color display          | 2-wire                                |        |    |    |    |    |     |
| T2YH*                | T2YV*                                                              |                      | ●             |                          | 3-wire                                |        |    |    |    |    |     |
| T3WH*                | T3WV*                                                              |                      | ●             |                          |                                       |        |    |    |    |    |     |
| T3YH*                | T3YV*                                                              |                      | ●             |                          | 2-color display for AC magnetic field | 2-wire |    |    |    |    |     |
| T2YD*                | -                                                                  |                      | ●             |                          |                                       |        |    |    |    |    |     |
| T2YDT*               | -                                                                  |                      | ●             |                          |                                       |        |    |    |    |    |     |
| * Lead wire length   |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| Blank                | 1 m (standard)                                                     |                      |               |                          |                                       |        |    |    |    |    |     |
| 3                    | 3 m (option)                                                       |                      |               |                          |                                       |        |    |    |    |    |     |
| 5                    | 5 m (option)                                                       |                      |               |                          |                                       |        |    |    |    |    |     |
| G Switch quantity    |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| R                    | 1 on R side                                                        |                      |               |                          |                                       |        |    |    |    |    |     |
| L                    | 1 on L side                                                        |                      |               |                          |                                       |        |    |    |    |    |     |
| D                    | 2                                                                  |                      |               |                          |                                       |        |    |    |    |    |     |
| T                    | 3                                                                  |                      |               |                          |                                       |        |    |    |    |    |     |
| 4                    | 4 (when there are more than 4 switches, indicate switch quantity.) |                      |               |                          |                                       |        |    |    |    |    |     |
| H Option             |                                                                    |                      |               |                          |                                       |        |    |    |    |    |     |
| Bore size (ø)        |                                                                    | 12                   | 16            | 20                       | 25                                    | 32     | 40 | 50 | 63 | 80 | 100 |
| A                    | Both-sides full stroke adjustable, shock absorber                  | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| A1                   | R side full stroke adjustable, shock absorber                      | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| A2                   | L side full stroke, adjustable, shock absorber                     | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| A3                   | Full stroke adjustable, adjusting bracket to be added              | ●                    | ●             | ●                        | ●                                     |        |    |    |    |    |     |
| Y                    | Floating fitting                                                   | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| Y1                   | Thin floating fitting                                              | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  |    |     |
| L*                   | Intermediate support bracket (for 00, LB)                          | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| N*                   | Intermediate support bracket (for LB1)                             | ●                    | ●             | ●                        | ●                                     | ●      |    |    |    |    |     |
| H                    | Larger thread for table installation                               | ●                    | ●             | ●                        |                                       |        |    |    |    |    |     |
| U                    | Height adjustment plate                                            | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| Blank                | F (Standard)                                                       | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| R                    | R (Common port)                                                    | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| B                    | F                                                                  | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| T                    | R (Common port)                                                    | ●                    | ●             | ●                        | ●                                     | ●      | ●  | ●  | ●  | ●  | ●   |
| D                    | D                                                                  |                      |               |                          | ●                                     |        |    |    |    |    |     |
| S                    | D                                                                  |                      |               |                          |                                       | ●      | ●  | ●  | ●  | ●  | ●   |
| X                    | F (Common port)                                                    |                      |               |                          |                                       |        |    |    |    | ●  |     |

### Option selection table

● : Available    □ : Not available

| Option | Option |                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|--------|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|        | Code   |                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A      | Both side full stroke length adjustable, with shock absorber           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A1     | R side full stroke length adjustable, with shock absorber              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A2     | L side full stroke length adjustable, with shock absorber              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A3     | Full stroke length adjustable with adjusting bracket to be added later |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Y      | Floating fitting                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Y1     | Thin floating fitting                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | L*     | Intermediate support bracket (for 00, LB)                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | N*     | Intermediate support bracket (for LB1)                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | H      | Larger thread for table installation                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | U      | Height adjustment plate                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Blank  | Port position F, cushion needle position F (standard)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | R      | Port position R, cushion needle position F (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | B      | Port position F, cushion needle position B                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | T      | Port position R, cushion needle position B (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | D      | Port position D, cushion needle position F                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | S      | Port position D, cushion needle position D                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | X      | Port position F, cushion needle position F (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### Specifications for rechargeable battery

(Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

**SRL3 - ..... - P4\***

\*1: Some combinations are not available depending on the bore size. Be sure to check the **H** Option in "How to order" on the previous page.

\*2: LB1 with port position D is not possible. (ø25, ø32)

### Theoretical thrust table

(Unit: N)

| Bore size (mm) | Operating direction | Working pressure MPa   |                        |                        |                        |                        |                        |                        |                        |
|----------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                |                     | 0.05                   | 0.1                    | 0.2                    | 0.3                    | 0.4                    | 0.5                    | 0.6                    | 0.7                    |
| ø12            | Push/Pull           | —                      | —                      | 27.7                   | 41.5                   | 55.3                   | 69.1                   | 83.0                   | 96.8                   |
| ø16            | Push/Pull           | —                      | —                      | 43.2                   | 64.8                   | 86.4                   | 1.08 × 10 <sup>2</sup> | 1.30 × 10 <sup>2</sup> | 1.51 × 10 <sup>2</sup> |
| ø20            | Push/Pull           | —                      | —                      | 62.9                   | 94.4                   | 1.26 × 10 <sup>2</sup> | 1.57 × 10 <sup>2</sup> | 1.89 × 10 <sup>2</sup> | 2.20 × 10 <sup>2</sup> |
| ø25            | Push/Pull           | —                      | 54.2                   | 1.08 × 10 <sup>2</sup> | 1.63 × 10 <sup>2</sup> | 2.17 × 10 <sup>2</sup> | 2.71 × 10 <sup>2</sup> | 3.25 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> |
| ø32            | Push/Pull           | —                      | 81.4                   | 1.63 × 10 <sup>2</sup> | 2.44 × 10 <sup>2</sup> | 3.26 × 10 <sup>2</sup> | 4.07 × 10 <sup>2</sup> | 4.88 × 10 <sup>2</sup> | 5.70 × 10 <sup>2</sup> |
| ø40            | Push/Pull           | —                      | 1.27 × 10 <sup>2</sup> | 2.53 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> | 5.06 × 10 <sup>2</sup> | 6.33 × 10 <sup>2</sup> | 7.60 × 10 <sup>2</sup> | 8.86 × 10 <sup>2</sup> |
| ø50            | Push/Pull           | —                      | 1.99 × 10 <sup>2</sup> | 3.98 × 10 <sup>2</sup> | 5.96 × 10 <sup>2</sup> | 7.95 × 10 <sup>2</sup> | 9.94 × 10 <sup>2</sup> | 1.19 × 10 <sup>3</sup> | 1.39 × 10 <sup>3</sup> |
| ø63            | Push/Pull           | 1.57 × 10 <sup>2</sup> | 3.14 × 10 <sup>2</sup> | 6.27 × 10 <sup>2</sup> | 9.41 × 10 <sup>2</sup> | 1.25 × 10 <sup>3</sup> | 1.57 × 10 <sup>3</sup> | 1.88 × 10 <sup>3</sup> | 2.20 × 10 <sup>3</sup> |
| ø80            | Push/Pull           | 2.53 × 10 <sup>2</sup> | 5.06 × 10 <sup>2</sup> | 1.01 × 10 <sup>3</sup> | 1.52 × 10 <sup>3</sup> | 2.03 × 10 <sup>3</sup> | 2.53 × 10 <sup>3</sup> | 3.04 × 10 <sup>3</sup> | 3.54 × 10 <sup>3</sup> |
| ø100           | Push/Pull           | 3.96 × 10 <sup>2</sup> | 7.91 × 10 <sup>2</sup> | 1.58 × 10 <sup>3</sup> | 2.37 × 10 <sup>3</sup> | 3.16 × 10 <sup>3</sup> | 3.95 × 10 <sup>3</sup> | 4.74 × 10 <sup>3</sup> | 5.53 × 10 <sup>3</sup> |

## How to order switch (For configurations, refer to pages 1624 to 1626)

- Switch body + mounting bracket set (\*1)

**SRL3**

**M0H\***

Switch model No.  
(Item ⑤ on page 1576)

- Switch body only

**SW**

**M0H\***

Switch model No.  
(Item ⑤ on page 1576)

### \* Lead wire length

|       |                |
|-------|----------------|
| Blank | 1 m (standard) |
| 3     | 3 m (option)   |
| 5     | 5 m (option)   |

\* indicates lead wire length.

- Mounting bracket set (\*2)

· M type switch

**SRL3**

**- M**

· T type switch

**SRL3**

**- T**

- Lead wire holder (\*3)

**SRL3**

**- MH**

\*1 : "Switch body + mounting bracket set" does not include lead wire holders.

Order lead wire holders separately if necessary.

\*2 : The mounting bracket is different between the M type switch and T type switch.

\*3 : The quantity of lead wire holders per set is 10.

- How to order discrete shock absorber

**SRL3**

**- 40**

**- NCK**

Bore size  
(Item ⑧ on page 1576)

(One shock absorber, one shock absorber fixing hexagon nut)

(Note) The shock absorber fixing hexagon nut for SRL3-40 is a made-to-order product.

Applicable shock absorber model No.

| Model    | Shock absorber model No. |
|----------|--------------------------|
| SRL3-12  | NCK-00-0.3-C             |
| SRL3-16  | NCK-00-0.3-C             |
| SRL3-20  | NCK-00-0.7-C             |
| SRL3-25  | NCK-00-1.2               |
| SRL3-32  | NCK-00-2.6               |
| SRL3-40  | NCK-00-7                 |
| SRL3-50  | NCK-00-12                |
| SRL3-63  | NCK-00-12                |
| SRL3-80  | NCK-00-20                |
| SRL3-100 | NCK-00-20                |

- How to order floating fitting set

**SRL3**

**- 40**

**- Y**

Bore size  
(Item ⑧ on page 1576)

(Mount, mount base, pin, plain washer, pan head machine screw with spring washer, four mounting bolts)

- How to order discrete intermediate support bracket

For 00/LB

**SRL3**

**- 40**

**- L (2/set)**

Bore size  
(Item ⑧ on page 1576)

For LB1

**SRL3**

**- 32**

**- N (2/set)**

Bore size  
(Item ⑧ on page 1576)

- How to order full stroke length adjusting bracket kit

**SRL3**

**- 40**

**- A1 (1 set)**

Bore size  
(Item ⑧ on page 1576)

(For configurations, refer to "Full stroke length adjusting bracket kit" on page 1625.)

- How to order repair parts

**SRL3**

**- 40**

**K - 200**

Bore size  
(Item ⑧ on page 1576)

Stroke length  
(Item ⑤ on page 1576)

- How to order mounting bracket

**SRL3**

**- LB**

**- 40**

Mounting  
(Item ① on page 1576)

Bore size  
(Item ⑧ on page 1576)

(Bracket x2, mounting bolt x4)

- How to order height adjustment plate set

**SRL3**

**- 40**

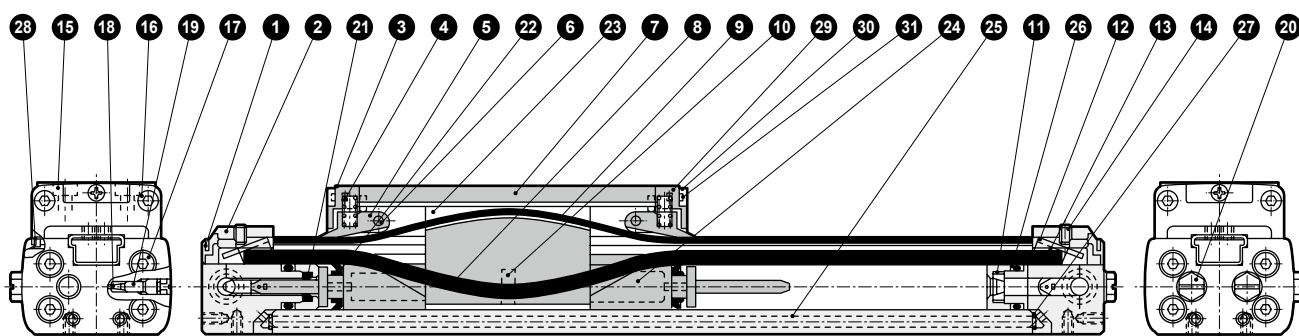
**- U**

Bore size  
(Item ⑧ on page 1576)

(Plate, mounting bolt x4)

## Internal structure and parts list

● ø12 to ø40 equiv.



## Parts list

| No. | Part name                     | Material                         | Remarks       | No. | Part name                    | Material                     | Remarks       |
|-----|-------------------------------|----------------------------------|---------------|-----|------------------------------|------------------------------|---------------|
| 1   | Belt cover                    | Polyamide                        |               | 18  | Needle gasket                | Nitrile rubber               |               |
| 2   | Cover (L)                     | Aluminum alloy                   | Baking finish | 19  | Cushion needle               | Steel                        | Zinc chromate |
| 3   | Table cover                   | Acetal resin                     |               | 20  | Plug (ø12, ø16)              | Copper alloy                 | Nickeling     |
| 4   | Spring                        | Steel                            | Black finish  |     | Plug (ø20 to ø40)            | Steel                        | Zinc chromate |
| 5   | Belt holder                   | Acetal resin                     |               | 21  | Cushion packing              | Urethane rubber              |               |
| 6   | Parallel pin (ø12 to ø20)     | Stainless steel                  |               | 22  | Piston packing               | Nitrile rubber               |               |
|     | Shaft (ø25 to ø40)            | Steel                            | Zinc chromate | 23  | Yoke                         | Aluminum alloy               | Alumite       |
| 7   | Table                         | Aluminum alloy                   | Alumite       | 24  | Piston                       | Acetal resin                 |               |
| 8   | Seal belt                     | Urethane rubber                  |               | 25  | Cylinder tube                | Aluminum alloy               | Alumite       |
| 9   | Dust-proof belt               | Stainless steel + nitrile rubber |               | 26  | Cylinder gasket              | Nitrile rubber               |               |
| 10  | Magnet                        |                                  |               | 27  | O-ring for common port       | Nitrile rubber               |               |
| 11  | Cushion adaptor               | Acetal resin                     |               | 28  | Dust wiper                   | Acetal resin                 |               |
| 12  | Cover (R)                     | Aluminum alloy                   | Baking finish | 29  | Double-sided tape            |                              |               |
| 13  | Belt spacer                   | Steel                            | Zinc chromate | 30  | Plate                        | Stainless steel (ø12 to ø20) |               |
| 14  | Hexagon socket set screw      | Alloy steel                      | Zinc chromate |     |                              | Alloy steel (ø25 to ø40)     | Zinc chromate |
| 15  | Hexagon socket head cap screw | Alloy steel                      | Zinc chromate | 31  | Cross-recessed tapping screw | Stainless steel              |               |
| 16  | Hexagon socket head cap screw | Stainless steel                  |               |     |                              |                              |               |
| 17  | Hexagon socket head cap screw | Alloy steel                      | Zinc chromate |     |                              |                              |               |

## Repair parts list

| Bore size (mm) | Kit No.    | Repair parts No. |
|----------------|------------|------------------|
| ø12 or equiv.  | SRL3-12K-* |                  |
| ø16 or equiv.  | SRL3-16K-* |                  |
| ø20 or equiv.  | SRL3-20K-* | 8 9 18 21        |
| ø25 or equiv.  | SRL3-25K-* | 22 26 27 28      |
| ø32 or equiv.  | SRL3-32K-* |                  |
| ø40 or equiv.  | SRL3-40K-* |                  |

Note: Specify the kit No. when placing an order.

Specify the stroke length for \*.

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

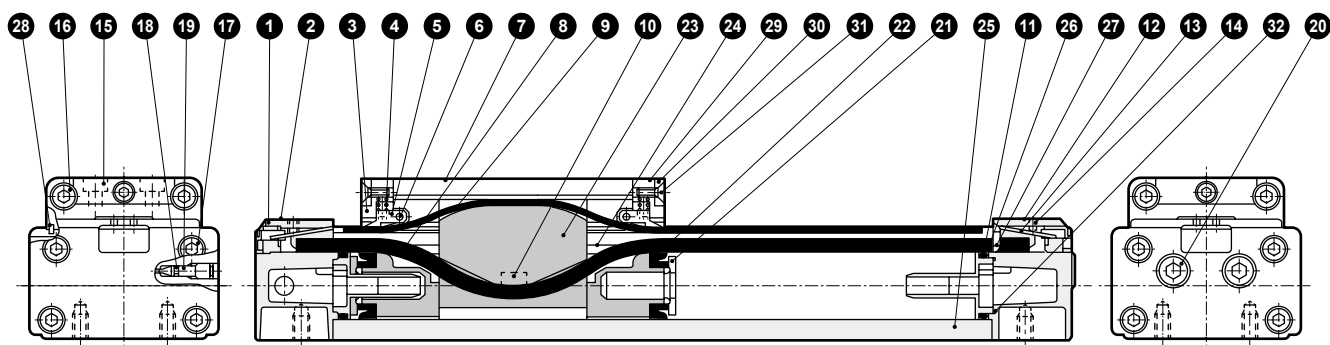
FK

Spd  
Contr

Ending

## Internal structure and parts list

● ø50 to ø63 or equiv.



## Parts list

| No. | Part name                     | Material                         | Remarks       | No. | Part name                     | Material        | Remarks       |
|-----|-------------------------------|----------------------------------|---------------|-----|-------------------------------|-----------------|---------------|
| 1   | Belt cover                    | Polyamide                        |               | 17  | Hexagon socket head cap screw | Alloy steel     | Zinc chromate |
| 2   | Cover (L)                     | Aluminum alloy                   | Baking finish | 18  | Needle gasket                 | Nitrile rubber  |               |
| 3   | Table cover                   | Acetal resin                     |               | 19  | Cushion needle                | Steel           | Zinc chromate |
| 4   | Spring                        | Steel                            | Black finish  | 20  | Plug                          | Steel           | Zinc chromate |
| 5   | Belt holder                   | Acetal resin                     |               | 21  | Cushion packing               | Urethane rubber |               |
| 6   | Shaft                         | Steel                            | Zinc chromate | 22  | Piston packing                | Nitrile rubber  |               |
| 7   | Table                         | Aluminum alloy                   | Alumite       | 23  | Yoke                          | Aluminum alloy  | Alumite       |
| 8   | Seal belt                     | Urethane rubber                  |               | 24  | Piston                        | Acetal resin    |               |
| 9   | Dust-proof belt               | Stainless steel + nitrile rubber |               | 25  | Cylinder tube                 | Aluminum alloy  | Alumite       |
| 10  | Magnet                        |                                  |               | 26  | Cylinder gasket               | Nitrile rubber  |               |
| 11  | Cushion ring                  | Acetal resin                     |               | 27  | O-ring for common port        | Nitrile rubber  |               |
| 12  | Cover (R)                     | Aluminum alloy                   | Baking finish | 28  | Dust wiper                    | Acetal resin    |               |
| 13  | Belt spacer                   | Steel                            | Zinc chromate | 29  | Double-sided tape             |                 |               |
| 14  | Hexagon socket set screw      | Alloy steel                      | Zinc chromate | 30  | Plate                         | Alloy steel     | Zinc chromate |
| 15  | Hexagon socket head cap screw | Alloy steel                      | Zinc chromate | 31  | Cross-recessed tapping screw  | Stainless steel |               |
| 16  | Hexagon socket head cap screw | Stainless steel                  |               | 32  | Cushion ring gasket           | Nitrile rubber  |               |

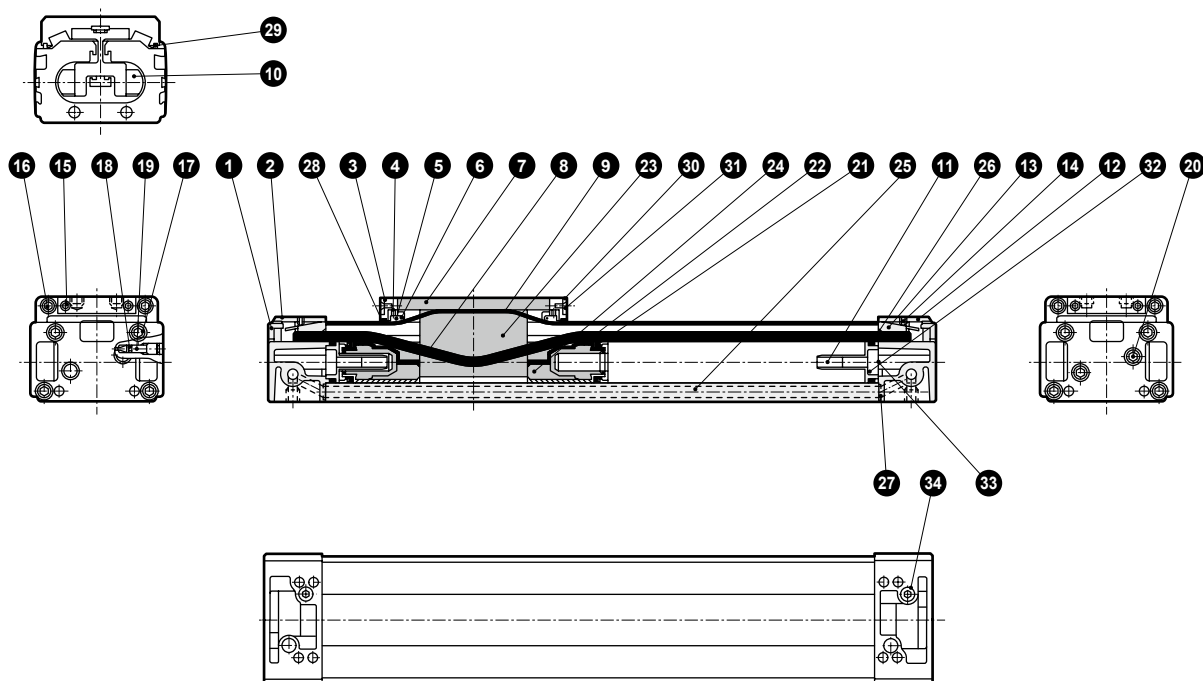
## Repair parts list

| Bore size (mm) | Kit No.    | Repair parts No. |
|----------------|------------|------------------|
| ø50 or equiv.  | SRL3-50K-* | 8 9 18 21 22     |
| ø63 or equiv.  | SRL3-63K-* | 26 27 28 32      |

Note: Specify the kit No. when placing an order. Specify the stroke length for \*.

### Internal structure and parts list

● ø80 to ø100 or equiv.



### Parts list

| No. | Part name                     | Material                         | Remarks       | No. | Part name                    | Material        | Remarks       |
|-----|-------------------------------|----------------------------------|---------------|-----|------------------------------|-----------------|---------------|
| 1   | Belt cover                    | Polyamide                        |               | 18  | Needle gasket                | Nitrile rubber  |               |
| 2   | Cover (L)                     | Aluminum alloy                   | Baking finish | 19  | Cushion needle               | Steel           | Zinc chromate |
| 3   | Table cover                   | Acetal resin                     |               | 20  | Plug                         | Steel           | Zinc chromate |
| 4   | Spring                        | Steel                            | Black finish  | 21  | Cushion packing              | Urethane rubber |               |
| 5   | Belt holder                   | Acetal resin                     |               | 22  | Piston packing               | Nitrile rubber  |               |
| 6   | Shaft                         | Steel                            | Zinc chromate | 23  | Yoke                         | Aluminum alloy  | Alumite       |
| 7   | Table                         | Aluminum alloy                   | Alumite       | 24  | Piston                       | Acetal resin    |               |
| 8   | Seal belt                     | Urethane rubber                  |               | 25  | Cylinder tube                | Aluminum alloy  | Alumite       |
| 9   | Dust-proof belt               | Stainless steel + nitrile rubber |               | 26  | Cylinder gasket              | Nitrile rubber  |               |
| 10  | Magnet                        |                                  |               | 27  | O-ring for common port       | Nitrile rubber  |               |
| 11  | Cushion ring                  | Acetal resin                     |               | 28  | Felt (1)                     | Wool            |               |
| 12  | Cover (R)                     | Aluminum alloy                   | Baking finish | 29  | Felt (2)                     | Wool            |               |
| 13  | Belt spacer                   | Steel                            | Zinc chromate | 30  | Plate                        | Alloy steel     | Zinc chromate |
| 14  | Hexagon socket set screw      | Alloy steel                      | Zinc chromate | 31  | Cross-recessed tapping screw | Stainless steel |               |
| 15  | Hexagon socket head cap screw | Alloy steel                      | Zinc chromate | 32  | Cushion ring gasket (1)      | Nitrile rubber  |               |
| 16  | Hexagon socket head cap screw | Stainless steel                  |               | 33  | Cushion ring gasket (2)      | Nitrile rubber  |               |
| 17  | Hexagon socket head cap screw | Alloy steel                      | Zinc chromate | 34  | Plug                         | Steel           | Zinc chromate |

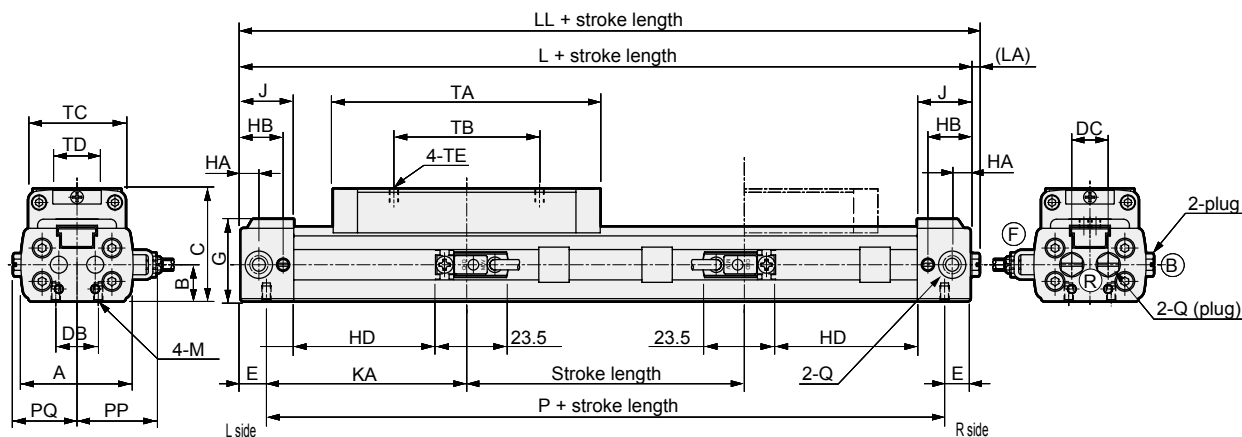
### Repair parts list

| Bore size (mm) | Kit No.     | Repair parts No. |
|----------------|-------------|------------------|
| ø80 or equiv.  | SRL3-80K-*  | 8 9 18 21 22 26  |
| ø100 or equiv. | SRL3-100K-* | 27 28 29 32 33   |

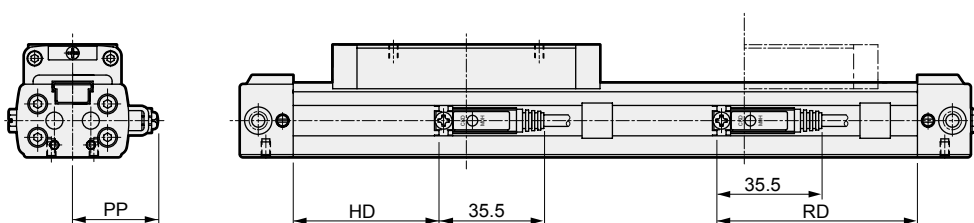
Note: Specify the kit No. when placing an order. Specify the stroke length for \*.

## Dimensions (ø12 to ø20 equiv.)

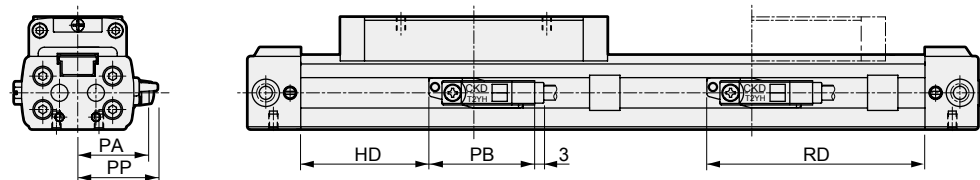
- With cylinder switch SRL3-\*\*-\*\*\*-M\*V\* (lead wire L-shaped)



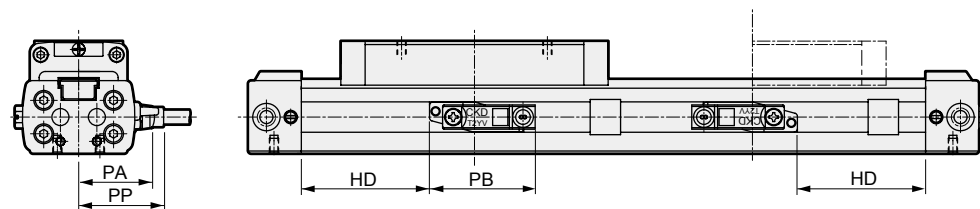
- With cylinder switch SRL3-\*\*-\*\*\*-M\*H\* (lead wire straight)



- With cylinder switch SRL3-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)



- With cylinder switch SRL3-\*\*-\*\*\*-T\*V (T\*W, T\*Y)



RD: Max. sensitivity installation position HD: Max. sensitivity installation position

| Code           | A  | B    | C  | DB | DC | E    | G  | HA  | HB   | J    | KA   | L   | LL    | LA  | M            | P   | PQ   | Q     | TA  | TB | TC | TD | TE         |
|----------------|----|------|----|----|----|------|----|-----|------|------|------|-----|-------|-----|--------------|-----|------|-------|-----|----|----|----|------------|
| Bore size (mm) |    |      |    |    |    |      |    |     |      |      |      |     |       |     |              |     |      |       |     |    |    |    |            |
| ø12 or equiv.  | 33 | 10.5 | 33 | 10 | 11 | 8.5  | 24 | 6   | 14   | 17.5 | 59.5 | 136 | 139   | 3   | M3 depth 5   | 119 | 19   | M5    | 81  | 42 | 29 | 13 | M3 depth 5 |
| ø16 or equiv.  | 37 | 12   | 37 | 14 | 12 | 8.5  | 27 | 6   | 14   | 17.5 | 66   | 149 | 152   | 3   | M3 depth 5   | 132 | 21   | M5    | 88  | 48 | 32 | 15 | M3 depth 5 |
| ø20 or equiv.  | 44 | 14   | 42 | 16 | 16 | 10.5 | 31 | 8.5 | 18.5 | 22   | 74   | 169 | 171.5 | 2.5 | M4 depth 6.5 | 148 | 24.5 | Rc1/8 | 100 | 60 | 38 | 18 | M4 depth 6 |

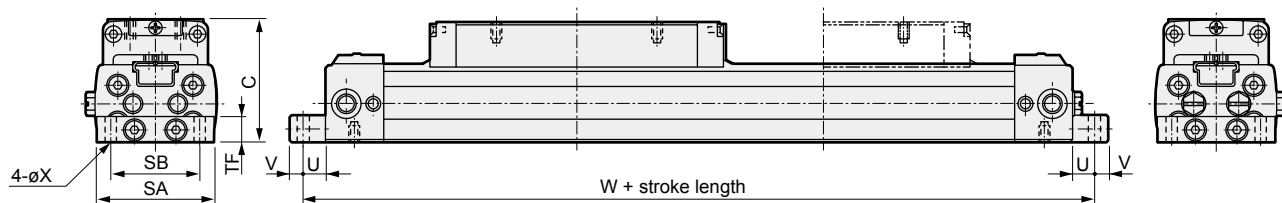
| Code           | With switch |      |     |      |      |     |      |      |      |      |      |      |      |      |      |      |      |
|----------------|-------------|------|-----|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Bore size (mm) | HD          |      |     | RD   |      |     | PA   | PB   |      |      | PP   |      |      |      |      |      |      |
|                | M*          | T*Y* | T*W | M*   | T*Y* | T*W |      | T*Y* | T2YD | T*W* | M*V  | M*H  | T*YV | T*YH | T2YD | T*WV | T*WH |
| ø12 or equiv.  | 40.5        | 36   | 32  | 60.5 | 65   | 69  | 24.3 | 35   | 34   | 33.5 | 24.5 | 24.5 | 26   | 23   | 28.4 | 20.7 | 17.2 |
| ø16 or equiv.  | 47          | 42   | 38  | 67   | 72   | 76  | 26.3 | 35   | 34   | 33.5 | 26.5 | 26.5 | 28   | 25   | 30.4 | 22.7 | 19.2 |
| ø20 or equiv.  | 52.5        | 48   | 44  | 72.5 | 77   | 81  | 29.3 | 35   | 34   | 33.5 | 29.5 | 29.5 | 31   | 28   | 33.4 | 25.7 | 22.2 |

\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

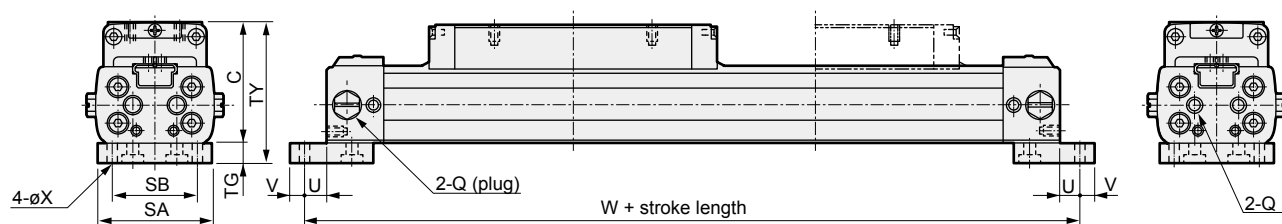
## Dimensions (ø12 to ø20 equiv.)



- With foot bracket SRL3-LB-12 to 20



- With foot bracket SRL3-LB1-12 to 20



| Code           | With foot bracket (LB) |    |    |   |   |     |     | With foot bracket (LB1) |    |    |    |   |   |     |     |
|----------------|------------------------|----|----|---|---|-----|-----|-------------------------|----|----|----|---|---|-----|-----|
| Bore size (mm) | SA                     | SB | TF | U | V | W   | X   | SA                      | SB | TG | TY | U | V | W   | X   |
| ø12 or equiv.  | 32                     | 24 | 8  | 6 | 4 | 148 | 3.4 | 32                      | 24 | 6  | 39 | 6 | 4 | 148 | 3.4 |
| ø16 or equiv.  | 35                     | 26 | 8  | 6 | 4 | 161 | 3.4 | 35                      | 26 | 6  | 43 | 6 | 4 | 161 | 3.4 |
| ø20 or equiv.  | 43                     | 33 | 10 | 6 | 6 | 181 | 4.5 | 43                      | 33 | 8  | 50 | 6 | 6 | 181 | 4.5 |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

**SRL3**

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

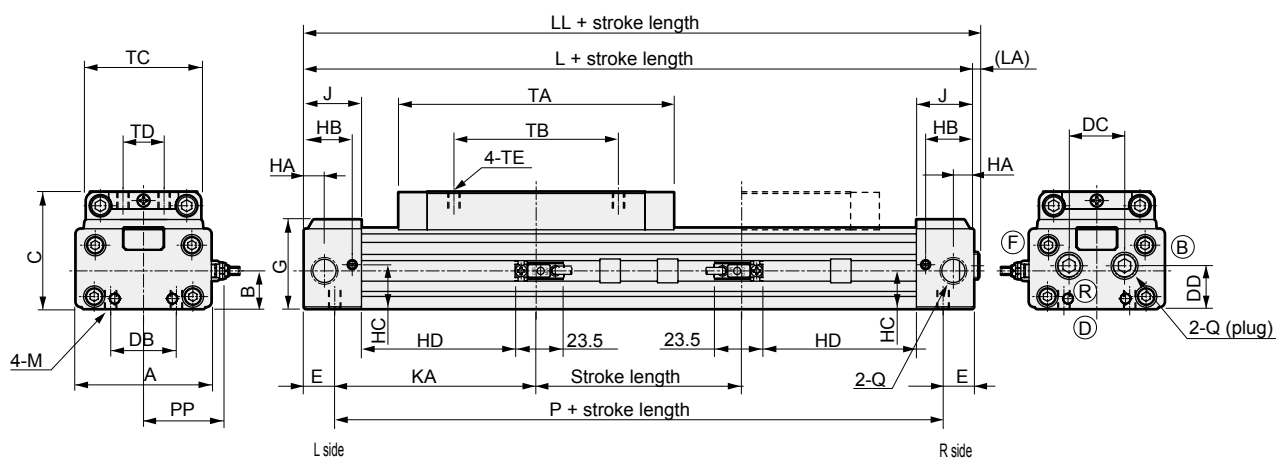
FK

Spd  
Contr

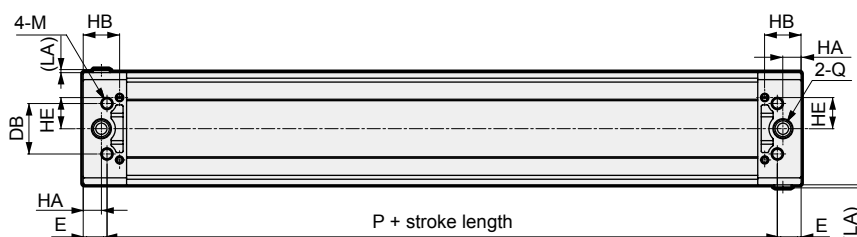
Ending

## Dimensions (ø25 to ø63 equiv.)

● With cylinder switch SRL3-\*\*-\*\*-\*\*M\*V\* (lead wire L-shaped)



● Bottom piping (option code: D/S)



| Code           | A   | B    | C  | DB | DC | DD | E  | G    | HA  | HB   | HC   | HE   | J  | KA  | L   | LL    | LA  | M            | P   | Q     | TA  | TB  | TC  | TD | TE            |
|----------------|-----|------|----|----|----|----|----|------|-----|------|------|------|----|-----|-----|-------|-----|--------------|-----|-------|-----|-----|-----|----|---------------|
| Bore size (mm) |     |      |    |    |    |    |    |      |     |      |      |      |    |     |     |       |     |              |     |       |     |     |     |    |               |
| ø25 or equiv.  | 53  | 17   | 53 | 20 | 26 | 19 | 14 | 40.5 | 7.5 | 20   | 18.9 | -    | 24 | 81  | 190 | 192   | 2   | M6 depth 9   | 162 | Rc1/8 | 122 | 70  | 48  | 20 | M5 depth 6    |
| ø32 or equiv.  | 66  | 18.5 | 57 | 32 | 27 | 21 | 15 | 43.5 | 10  | 23.5 | 21.5 | 17   | 28 | 98  | 226 | 228.5 | 2.5 | M6 depth 9   | 196 | Rc1/4 | 134 | 80  | 56  | 20 | M6 depth 7.5  |
| ø40 or equiv.  | 80  | 22   | 67 | 36 | 35 | 28 | 17 | 51.5 | 13  | 26   | 27   | 22.3 | 31 | 105 | 244 | 246.5 | 2.5 | M8 depth 12  | 210 | Rc1/4 | 148 | 90  | 68  | 30 | M6 depth 9    |
| ø50 or equiv.  | 96  | 28   | 82 | 45 | 35 | 35 | 23 | 61   | 15  | 33   | 35.3 | 11   | 39 | 106 | 258 | 260.5 | 2.5 | M8 depth 12  | 212 | Rc3/8 | 152 | 100 | 80  | 30 | M8 depth 10.5 |
| ø63 or equiv.  | 118 | 35   | 95 | 50 | 39 | 42 | 19 | 74   | 15  | 32   | 43   | 31   | 39 | 129 | 296 | 298.5 | 2.5 | M10 depth 15 | 258 | Rc3/8 | 168 | 110 | 102 | 40 | M8 depth 11.5 |

| Code           | With switch |      |     |     |      |     |      |      |      |      |      |      |      |      |      |      |      |
|----------------|-------------|------|-----|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Bore size (mm) | HD          |      |     | RD  |      |     | PA   | PB   |      |      | PP   |      |      |      |      |      |      |
|                | M*          | T*Y* | T*W | M*  | T*Y* | T*W |      | T*Y* | T2YD | T*W* | M*V  | M*H  | T*YV | T*YH | T2YD | T*WV | T*WH |
| ø25 or equiv.  | 60          | 56   | 52  | 82  | 86   | 90  | 34.3 | 35   | 34   | 33.5 | 34.5 | 34.5 | 36   | 33   | 38.4 | 30.7 | 27.2 |
| ø32 or equiv.  | 74          | 70   | 66  | 96  | 100  | 104 | 41.3 | 35   | 34   | 33.5 | 41.5 | 41.5 | 43   | 40   | 45.4 | 37.7 | 34.2 |
| ø40 or equiv.  | 80          | 76   | 72  | 102 | 106  | 110 | 48.3 | 35   | 34   | 33.5 | 48.5 | 48.5 | 50   | 47   | 52.4 | 44.7 | 41.2 |
| ø50 or equiv.  | 79          | 75   | 71  | 101 | 105  | 109 | 56.3 | 35   | 34   | 33.5 | 56.5 | 56.5 | 58   | 55   | 60.4 | 52.7 | 49.2 |
| ø63 or equiv.  | 98          | 94   | 90  | 120 | 124  | 128 | 67.3 | 35   | 34   | 33.5 | 67.5 | 67.5 | 69   | 66   | 71.4 | 63.7 | 60.2 |

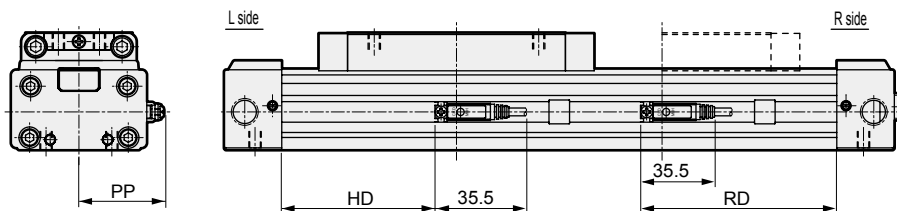
\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

\*2: Option S is not available for ø25.

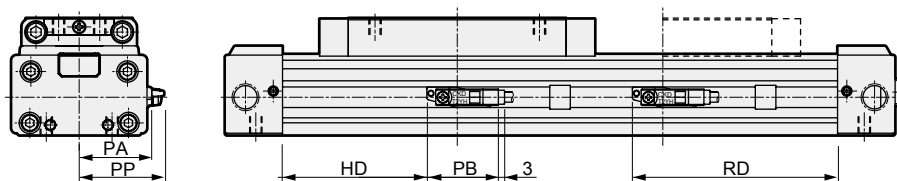
## Dimensions (ø25 to ø63 equiv.)



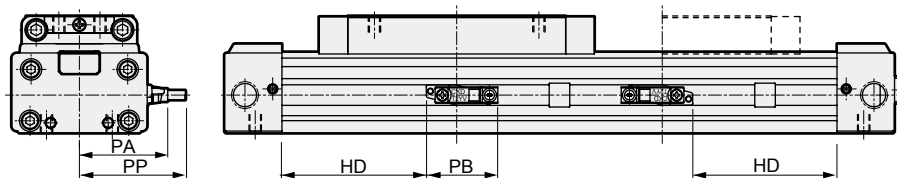
- With cylinder switch SRL3-\*\*-\*\*\*-M\*H\* (lead wire straight)



- With cylinder switch SRL3-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)

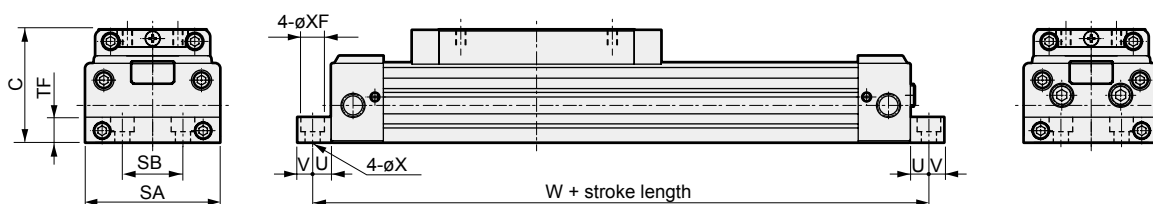


- With cylinder switch SRL3-\*\*-\*\*\*-T\*V (T\*W, T\*Y)

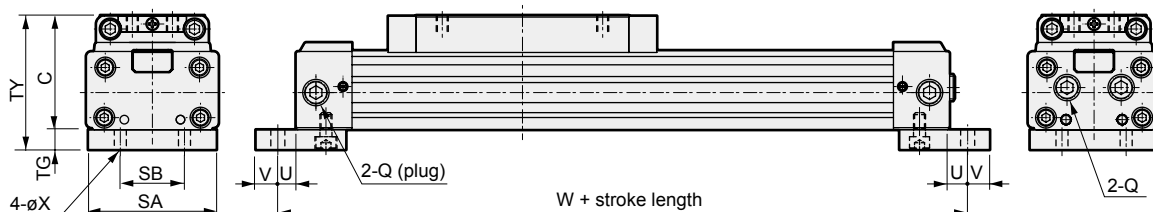


RD: Max. sensitivity installation position HD: Max. sensitivity installation position

- With foot bracket SRL3-LB-25 to 63



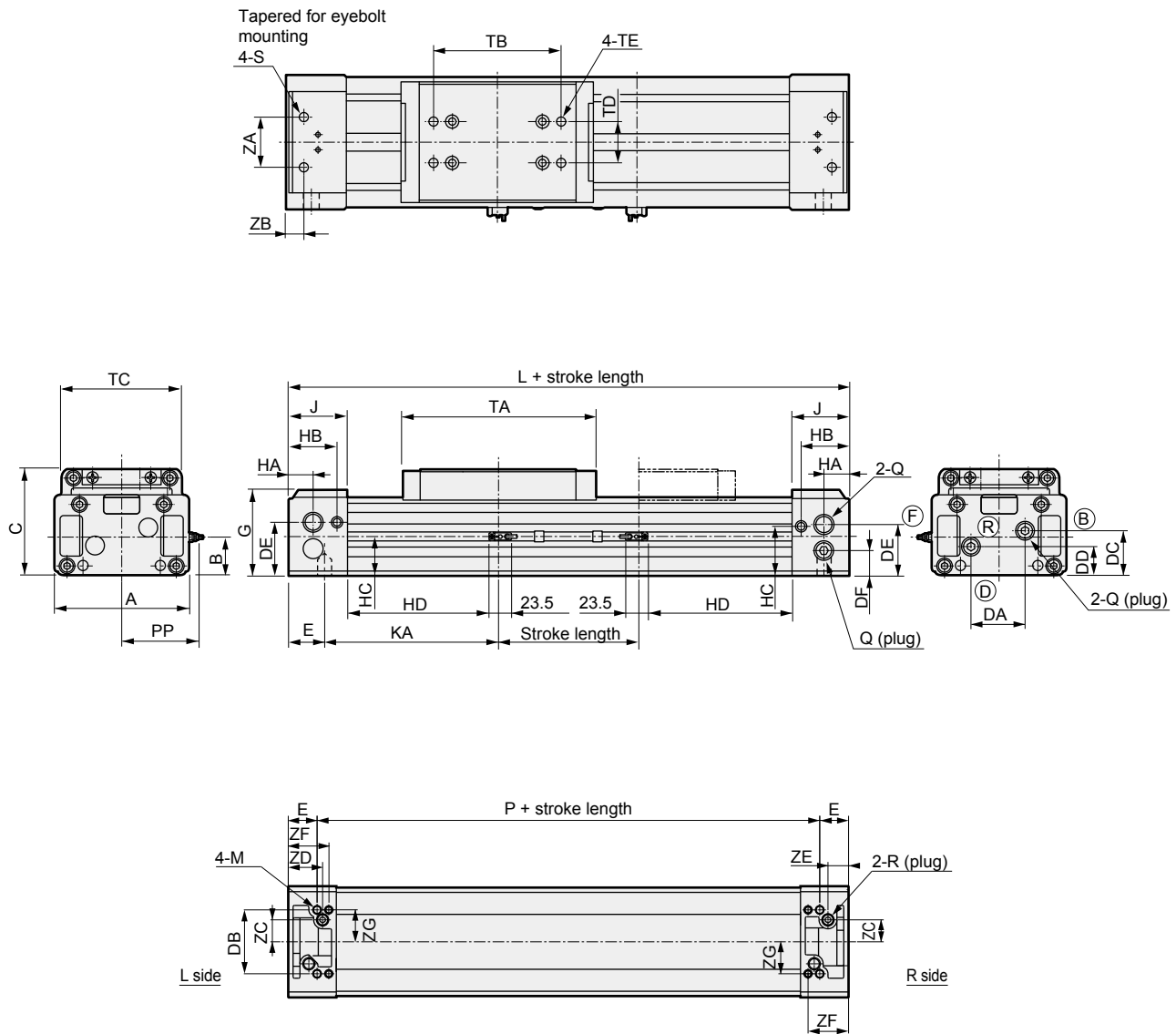
- With foot bracket SRL3-LB1-25, 32 (The mounting LB1 is not available for ø40 to ø63 or equiv.)



| Code           | With foot bracket (LB) |    |    |    |    |     |    |                           | With foot bracket (LB1) |    |    |    |   |    |     |   |
|----------------|------------------------|----|----|----|----|-----|----|---------------------------|-------------------------|----|----|----|---|----|-----|---|
| Bore size (mm) | SA                     | SB | TF | U  | V  | W   | X  | XF                        | SA                      | SB | TG | TY | U | V  | W   | X |
| ø25 or equiv.  | 52                     | 20 | 12 | 9  | 11 | 208 | 7  | -                         | 50                      | 20 | 10 | 63 | 9 | 11 | 208 | 7 |
| ø32 or equiv.  | 64                     | 32 | 12 | 9  | 11 | 244 | 7  | -                         | 64                      | 32 | 10 | 67 | 9 | 11 | 244 | 7 |
| ø40 or equiv.  | 80                     | 36 | 15 | 11 | 9  | 266 | 9  | 14 spot face depth 8.6    | -                       | -  | -  | -  | - | -  | -   | - |
| ø50 or equiv.  | 94                     | 45 | 20 | 11 | 9  | 280 | 9  | 14 spot face depth 8.6    | -                       | -  | -  | -  | - | -  | -   | - |
| ø63 or equiv.  | 116                    | 50 | 25 | 13 | 12 | 322 | 11 | 17.5 spot face depth 10.8 | -                       | -  | -  | -  | - | -  | -   | - |

Dimensions (ø80 to ø100 equiv.)

- With cylinder switch SRL3-\*\*-\*\*\*-M\*V\* (lead wire L-shaped)



| Code           | A   | B    | C   | DA | DB  | DC   | DD   | DE   | DF   | E  | G   | HA | HB | HC   | J  | KA  | L   | M            | P   | Q     | R     | S            |
|----------------|-----|------|-----|----|-----|------|------|------|------|----|-----|----|----|------|----|-----|-----|--------------|-----|-------|-------|--------------|
| ø80 or equiv.  | 162 | 49   | 130 | 64 | 93  | 58   | 38   | 65   | 33   | 42 | 106 | 30 | 59 | 64.5 | 70 | 208 | 500 | M12 depth 18 | 416 | Rc1/2 | Rc3/8 | M12 depth 23 |
| ø100 or equiv. | 198 | 61.5 | 150 | 73 | 108 | 71.5 | 47.5 | 81.5 | 41.5 | 43 | 125 | 30 | 69 | 76.5 | 80 | 222 | 530 | M12 depth 18 | 444 | Rc1/2 | Rc1/2 | M12 depth 23 |

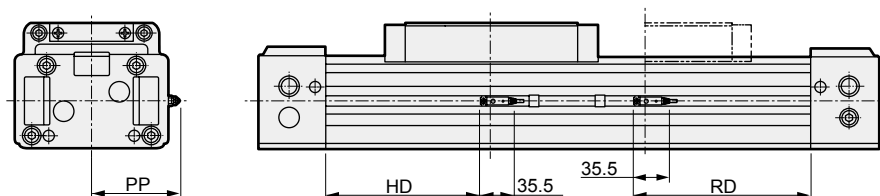
| Code           | TA  | TB  | TC  | TD | TE           | ZA | ZB | ZC   | ZD | ZE | ZF | ZG   | With foot bracket |     |    |    |    |     |    |
|----------------|-----|-----|-----|----|--------------|----|----|------|----|----|----|------|-------------------|-----|----|----|----|-----|----|
| Bore size (mm) |     |     |     |    |              |    |    |      |    |    |    |      | SA                | SB  | TF | U  | V  | W   | X  |
| ø80 or equiv.  | 228 | 150 | 146 | 50 | M12 depth 15 | 60 | 21 | 32   | 50 | 30 | 59 | 46.5 | 162               | 134 | 25 | 13 | 12 | 526 | 14 |
| ø100 or equiv. | 238 | 160 | 170 | 60 | M12 depth 15 | 60 | 21 | 36.5 | 55 | 30 | 69 | 54   | 198               | 160 | 30 | 15 | 15 | 560 | 14 |

\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

## Dimensions (ø80 to ø100 equiv.)

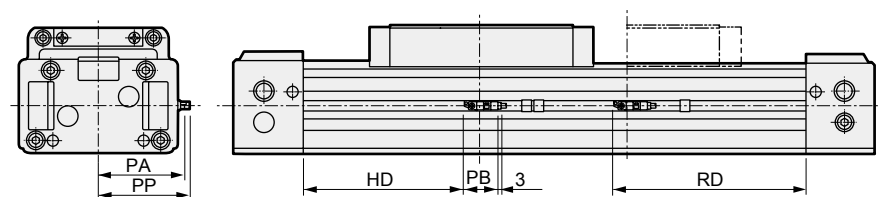


- With cylinder switch SRL3-\*\*-\*\*\*-M\*H\* (lead wire straight)

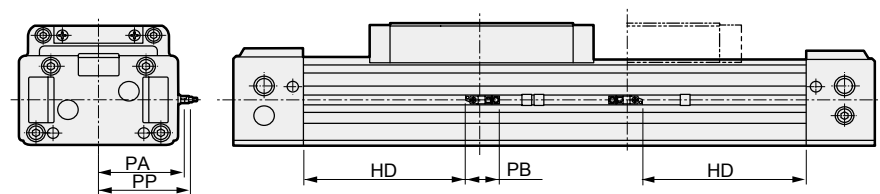


RD: Max. sensitivity mounting position  
HD: Max. sensitivity mounting position

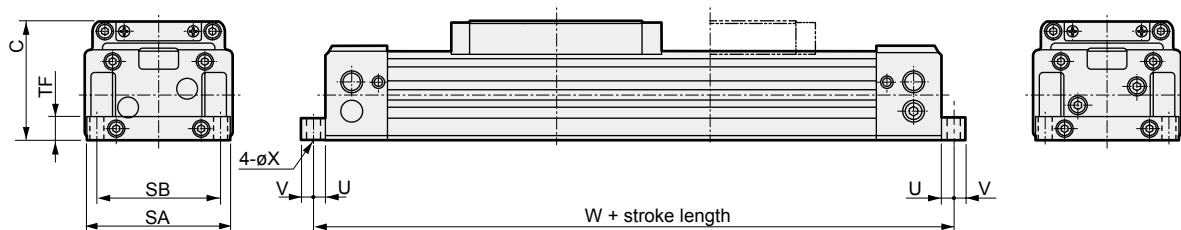
- With cylinder switch SRL3-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)



- With cylinder switch SRL3-\*\*-\*\*\*-T\*V (T\*W, T\*Y)



- With foot bracket SRL3-LB-\*\*-\*\*\*



| Code           | With switch |      |     |     |      |     |       |      |      |      |       |       |      |      |       |       |      |
|----------------|-------------|------|-----|-----|------|-----|-------|------|------|------|-------|-------|------|------|-------|-------|------|
| Bore size (mm) | HD          |      |     | RD  |      |     | PA    | PB   |      |      | PP    |       |      |      |       |       |      |
|                | M*          | T*Y* | T*W | M*  | T*Y* | T*W |       | T*Y* | T2YD | T*W* | M*V   | M*H   | T*YV | T*YH | T2YD  | T*WV  | T*WH |
| ø80 or equiv.  | 170         | 165  | 161 | 190 | 195  | 199 | 87.3  | 35   | 34   | 33.5 | 87.5  | 87.5  | 89   | 86   | 91.4  | 83.7  | 80.2 |
| ø100 or equiv. | 175         | 170  | 166 | 195 | 200  | 204 | 105.3 | 35   | 34   | 33.5 | 105.5 | 105.5 | 107  | 104  | 109.4 | 101.7 | 98.2 |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

**SRL3**

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd  
Contr

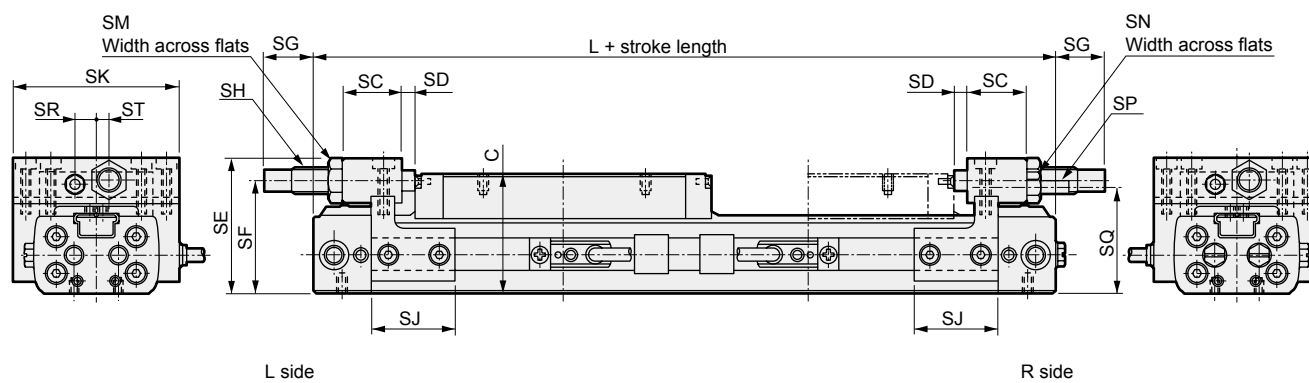
Ending

# SRL3 Series

## SRL3 Series common dimensions

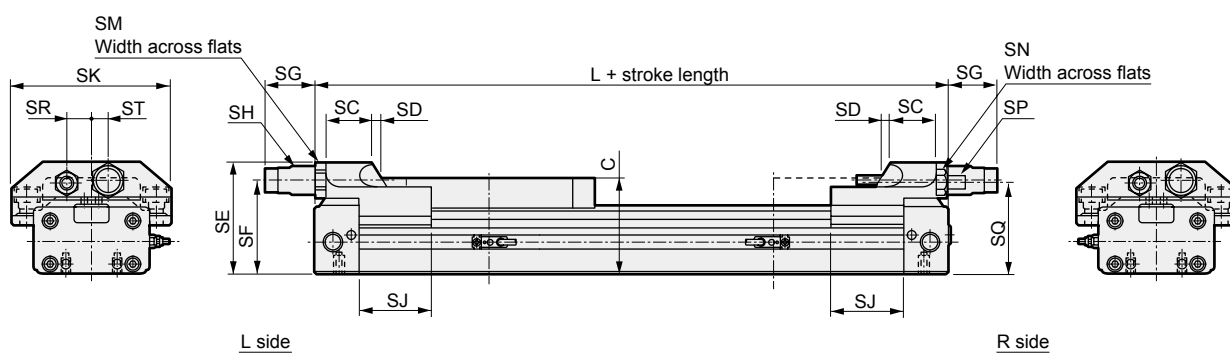
● Full stroke length adjustable with shock absorber (SRL3)

· ø12 to ø25 or equiv.



| Code          | SC   | SD  | SE   | SF   | SG      |         |            | SH          |                          | SJ | SK | SM | SN  | SP | SQ   | SR | ST | C  | L   |
|---------------|------|-----|------|------|---------|---------|------------|-------------|--------------------------|----|----|----|-----|----|------|----|----|----|-----|
|               |      |     |      |      | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |    |    |    |     |    |      |    |    |    |     |
| ø12 or equiv. | 19.5 | 2.5 | 40   | 32   | 17.5    | 7.5     | 10         | M8×0.75     | 3                        | 25 | 45 | 12 | 5.5 | M3 | 30.5 | 6  | 3  | 33 | 136 |
| ø16 or equiv. | 18   | 4   | 42   | 35   | 14.5    | 4.5     | 10         | M8×0.75     | 3                        | 25 | 49 | 12 | 5.5 | M3 | 34   | 6  | 4  | 37 | 149 |
| ø20 or equiv. | 22.5 | 3.5 | 48   | 40   | 14.5    | 4.5     | 10         | M10×1.0     | 7                        | 39 | 57 | 14 | 7   | M4 | 38   | 8  | 5  | 42 | 169 |
| ø25 or equiv. | 20   | 2.5 | 62.5 | 51.5 | 14.5    | 4.5     | 10         | M12×1.0     | 12                       | 50 | 77 | 17 | 10  | M6 | 50   | 12 | 10 | 53 | 190 |

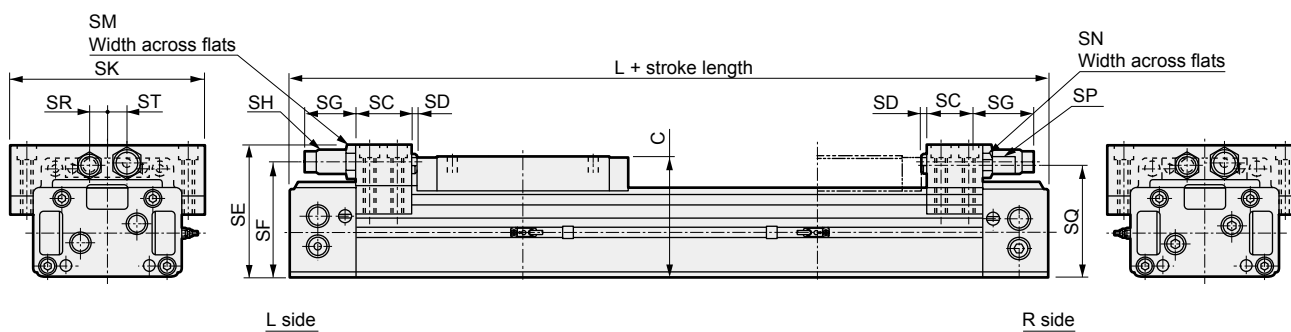
· ø32 to ø63 or equiv.



| Code          | SC | SD | SE   | SF   | SG      |         |            | SH          |                          | SJ | SK  | SM | SN | SP  | SQ   | SR | ST | C  | L   |
|---------------|----|----|------|------|---------|---------|------------|-------------|--------------------------|----|-----|----|----|-----|------|----|----|----|-----|
|               |    |    |      |      | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |    |     |    |    |     |      |    |    |    |     |
| ø32 or equiv. | 22 | 7  | 66.5 | 55.5 | 27      | 17      | 10         | M14×1.5     | 26                       | 46 | 98  | 19 | 13 | M8  | 53.5 | 14 | 12 | 57 | 226 |
| ø40 or equiv. | 32 | 7  | 78.5 | 65.5 | 34      | 24      | 10         | M20×1.5     | 70                       | 51 | 112 | 24 | 17 | M10 | 63.5 | 17 | 12 | 67 | 244 |
| ø50 or equiv. | 38 | 8  | 99   | 80   | 55      | 45      | 10         | M25×1.5     | 120                      | 53 | 136 | 32 | 19 | M12 | 77.5 | 22 | 17 | 82 | 258 |
| ø63 or equiv. | 38 | 8  | 112  | 93.5 | 44      | 34      | 10         | M25×1.5     | 120                      | 64 | 158 | 32 | 24 | M16 | 89   | 25 | 20 | 95 | 296 |

## SRL3 Series common dimensions

- Full stroke length adjustable with shock absorber
  - ø80, ø100 or equiv.



| Code           | SC | SD | SE  | SF    | SG      |         |            | SH          |                          | SK  | SM | SN | SP  | SQ  | SR | ST | C   | L   |
|----------------|----|----|-----|-------|---------|---------|------------|-------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|
| Bore size (mm) |    |    |     |       | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |     |    |    |     |     |    |    |     |     |
| ø80 or equiv.  | 60 | 6  | 145 | 125.5 | 50      | 40      | 10         | M27 × 1.5   | 200                      | 214 | 32 | 27 | M20 | 123 | 20 | 20 | 130 | 500 |
| ø100 or equiv. | 60 | 6  | 164 | 144.5 | 50      | 40      | 10         | M27 × 1.5   | 200                      | 250 | 32 | 27 | M20 | 142 | 20 | 20 | 150 | 530 |

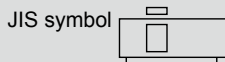
|                  |
|------------------|
| SCP*3            |
| CMK2             |
| CMA2             |
| SCM              |
| SCG              |
| SCA2             |
| SCS2             |
| CKV2             |
| CAV2/<br>COVP/N2 |
| SSD2             |
| SSG              |
| SSD              |
| CAT              |
| MDC2             |
| MVC              |
| SMG              |
| MSD/<br>MSDG     |
| FC*              |
| STK              |
| <b>SRL3</b>      |
| SRG3             |
| SRM3             |
| SRT3             |
| MRL2             |
| MRG2             |
| SM-25            |
| ShkAbs           |
| FJ               |
| FK               |
| Spd<br>Contr     |
| Ending           |



Rodless cylinder resin guide

# SRL3-G Series

- Bore size: ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



## Specifications

| Item                  | SRL3-G |                                                                                                                                                                                          |     |       |                         |       |     |       |                      |       |      |
|-----------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------------------|-------|-----|-------|----------------------|-------|------|
| Bore size             | mm     | ø12                                                                                                                                                                                      | ø16 | ø20   | ø25                     | ø32   | ø40 | ø50   | ø63                  | ø80   | ø100 |
| Actuation             |        | Double acting                                                                                                                                                                            |     |       |                         |       |     |       |                      |       |      |
| Working fluid         |        | Compressed air                                                                                                                                                                           |     |       |                         |       |     |       |                      |       |      |
| Max. working pressure | MPa    | 0.7 (≈100 psi, 7 bar)                                                                                                                                                                    |     |       |                         |       |     |       |                      |       |      |
| Min. working pressure | MPa    | 0.25 (≈36 psi, 2.5 bar)                                                                                                                                                                  |     |       | 0.15 (≈22 psi, 1.5 bar) |       |     |       | 0.1 (≈15 psi, 1 bar) |       |      |
| Proof pressure        | MPa    | 1.05 (≈150 psi, 10.5 bar)                                                                                                                                                                |     |       |                         |       |     |       |                      |       |      |
| Ambient temperature   | °C     | 5 (41°F) to 60 (140°F)                                                                                                                                                                   |     |       |                         |       |     |       |                      |       |      |
| Port size             |        | M5                                                                                                                                                                                       |     | Rc1/8 |                         | Rc1/4 |     | Rc3/8 |                      | Rc1/2 |      |
| Stroke tolerance      | mm     | $\begin{smallmatrix} -2.0 \\ 0 \end{smallmatrix}$ ( to 1000), $\begin{smallmatrix} -2.5 \\ 0 \end{smallmatrix}$ ( to 3000), $\begin{smallmatrix} -3.0 \\ 0 \end{smallmatrix}$ ( to 5000) |     |       |                         |       |     |       |                      |       |      |
| Working piston speed  | mm/s   | 50 to 2000 (standard piping) (*1)                                                                                                                                                        |     |       |                         |       |     |       |                      |       |      |
| Cushion               |        | Air cushion                                                                                                                                                                              |     |       |                         |       |     |       |                      |       |      |
| Lubrication           |        | Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication. Once lubricated, the cylinder will need periodic lubrication.)                                              |     |       |                         |       |     |       |                      |       |      |

\*1: For common port piping, the working piston speed varies depending on the stroke length. Contact CKD.

## Allowable absorbed energy

| Bore size<br>(mm) | Cushioned               |                     | Without cushion         | With shock absorber (initial set point) |                       |
|-------------------|-------------------------|---------------------|-------------------------|-----------------------------------------|-----------------------|
|                   | Max absorbed energy (J) | Cushion stroke (mm) | Max absorbed energy (J) | Absorbed energy (J)                     | Effective stroke (mm) |
| ø12 or equiv.     | 0.03                    | 14.5                | 0.003                   | 2.4                                     | 5.5                   |
| ø16 or equiv.     | 0.22                    | 19.2                | 0.007                   | 2.4                                     | 5.5                   |
| ø20 or equiv.     | 0.59                    | 22.2                | 0.010                   | 5.7                                     | 7                     |
| ø25 or equiv.     | 1.40                    | 20.9                | 0.015                   | 10                                      | 9                     |
| ø32 or equiv.     | 2.57                    | 23.5                | 0.030                   | 18                                      | 13                    |
| ø40 or equiv.     | 4.27                    | 23.9                | 0.050                   | 50                                      | 16.5                  |
| ø50 or equiv.     | 9.13                    | 24.9                | 0.072                   | 86                                      | 21                    |
| ø63 or equiv.     | 17.4                    | 29.6                | 0.138                   | 86                                      | 21                    |
| ø80 or equiv.     | 40                      | 45.8                | 0.393                   | 143                                     | 25                    |
| ø100 or equiv.    | 67                      | 45.8                | 0.622                   | 143                                     | 25                    |

## Stroke length

| Bore size<br>(mm) | Standard stroke<br>length (mm)                   | Max. stroke length<br>(mm) | Min. stroke length<br>(mm) |
|-------------------|--------------------------------------------------|----------------------------|----------------------------|
| ø12 equiv.        | 200/300<br>400/500<br>600/700<br>800/900<br>1000 | 5000                       | 1                          |
| ø16 equiv.        |                                                  |                            |                            |
| ø20 equiv.        |                                                  |                            |                            |
| ø25 equiv.        |                                                  |                            |                            |
| ø32 equiv.        |                                                  |                            |                            |
| ø40 equiv.        |                                                  |                            |                            |
| ø50 equiv.        |                                                  |                            |                            |
| ø63 equiv.        |                                                  |                            |                            |
| ø80 equiv.        |                                                  |                            |                            |
| ø100 equiv.       |                                                  |                            |                            |

\* The custom stroke length is available in 1 mm increments.

## Number of installed M type switches and min. stroke length (mm)

| Switch quantity  | 1   |     | 2   |        | 3   |         | 4   |          | 5   |          | 6   |          |
|------------------|-----|-----|-----|--------|-----|---------|-----|----------|-----|----------|-----|----------|
|                  | M*V | M*H | M*V | M*H    | M*V | M*H     | M*V | M*H      | M*V | M*H      | M*V | M*H      |
| Switch model No. |     |     |     |        |     |         |     |          |     |          |     |          |
| Bore size (mm)   |     |     |     |        |     |         |     |          |     |          |     |          |
| ø12 or equiv.    | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| ø16 or equiv.    | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| ø20 or equiv.    | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| ø25 or equiv.    | 10  | 10  | 30  | 45(70) | 60  | 90(120) | 90  | 135(170) | 120 | 180(220) | 150 | 225(270) |
| ø32 or equiv.    | 10  | 10  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| ø40 or equiv.    | 10  | 10  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| ø50 or equiv.    | 15  | 15  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| ø63 or equiv.    | 15  | 15  | 30  | 45     | 60  | 90      | 90  | 135      | 120 | 180      | 150 | 225      |
| ø80 or equiv.    | 25  |     | 50  |        | 100 |         | 150 |          | 200 |          | 250 |          |
| ø100 or equiv.   | 25  |     | 50  |        | 100 |         | 150 |          | 200 |          | 250 |          |

Note: Values in ( ) are the min. stroke length with switch of the full stroke length adjustable.

## Number of installed T switches and min. stroke length (mm)

| Switch quantity  | 1   |     | 2   |        | 3   |          | 4   |          | 5   |          | 6   |          |
|------------------|-----|-----|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|
|                  | T*V | T*H | T*V | T*H    | T*V | T*H      | T*V | T*H      | T*V | T*H      | T*V | T*H      |
| Switch model No. |     |     |     |        |     |          |     |          |     |          |     |          |
| Bore size (mm)   |     |     |     |        |     |          |     |          |     |          |     |          |
| ø12 or equiv.    | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| ø16 or equiv.    | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| ø20 or equiv.    | 5   | 5   | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| ø25 or equiv.    | 10  | 10  | 45  | 50(70) | 85  | 100(120) | 125 | 150(170) | 165 | 200(220) | 205 | 250(270) |
| ø32 or equiv.    | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| ø40 or equiv.    | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| ø50 or equiv.    | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| ø63 or equiv.    | 10  | 10  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| ø80 or equiv.    | 15  | 15  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |
| ø100 or equiv.   | 15  | 15  | 45  | 50     | 85  | 100      | 125 | 150      | 165 | 200      | 205 | 250      |

Note: Values in ( ) are the min. stroke length with switch of the full stroke length adjustable.

### Switch specifications (M type switch)

● 1-color/2-color display

| Item                 | Proximity 2-wire                      |                             | Proximity 3-wire                                                                           |                              |                             |
|----------------------|---------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
|                      | M2V,M2H                               | M2WV<br>(2-color display)   | M3H/M3V                                                                                    | M3PH/M3PV<br>(made to order) | M3WV                        |
| Applications         | Dedicated for programmable controller |                             | For programmable controller, relay, IC circuit, compact solenoid valve                     |                              |                             |
| Output method        | -                                     |                             | NPN output                                                                                 | PNP output                   | NPN output                  |
| Power supply voltage | -                                     |                             | 4.5 to 28 VDC                                                                              |                              | 10 to 28 VDC                |
| Load voltage         | 10 to 30 VDC                          |                             | 30 VDC or less                                                                             |                              |                             |
| Load current         | 5 to 30 mA                            |                             | 100 mA or less                                                                             | 100 mA or less               | 100 mA or less              |
| Indicator lamp       | LED (Lit when ON)                     | Red/green LED (Lit when ON) | LED (Lit when ON)                                                                          | Yellow LED (Lit when ON)     | Red/green LED (Lit when ON) |
| Leakage current      | 1 mA or less                          |                             | 10 μA or less                                                                              | 0.05 mA or less              | 10 μA or less               |
| Weight               | g                                     | 1 m:22   3 m:57   5 m:93    |                                                                                            |                              |                             |
| Item                 | Reed 2-wire                           |                             |                                                                                            |                              |                             |
|                      | M0V,M0H                               |                             | M5V,M5H                                                                                    |                              |                             |
| Applications         | For programmable controller, relay    |                             | For programmable controller, relay, IC circuit (without indicator lamp), serial connection |                              |                             |
| Power supply voltage | -                                     |                             | -                                                                                          |                              |                             |
| Load voltage         | 12/24 VDC                             | 110 VAC                     | 5/12/24 VDC                                                                                |                              | 110 VAC or less             |
| Load current         | 5 to 50 mA                            | 7 to 20 mA                  | 50 mA or less                                                                              |                              | 20 mA or less               |
| Indicator lamp       | LED (Lit when ON)                     |                             | Without indicator lamp                                                                     |                              |                             |
| Leakage current      | 0 mA                                  |                             |                                                                                            |                              |                             |
| Weight               | g                                     | 1 m:22   3 m:57   5 m:93    |                                                                                            |                              |                             |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

### Switch specifications (T type switch)

● 2-color display

| Item                 | Proximity 2-wire                      |        |                                | Proximity 3-wire                   |            |                                |        |        |        |         |        |        |        |
|----------------------|---------------------------------------|--------|--------------------------------|------------------------------------|------------|--------------------------------|--------|--------|--------|---------|--------|--------|--------|
|                      | T2YH/T2YV                             |        | T2WH/T2WV                      | T3YH/T3YV                          |            | T3WH/T3WV                      |        |        |        |         |        |        |        |
| Applications         | Dedicated for programmable controller |        |                                | For programmable controller, relay |            |                                |        |        |        |         |        |        |        |
| Output method        | -                                     |        |                                | NPN output                         | NPN output |                                |        |        |        |         |        |        |        |
| Power supply voltage | -                                     |        |                                | 10 to 28 VDC                       |            |                                |        |        |        |         |        |        |        |
| Load voltage         | 10 to 30 VDC                          |        | 24 VDC ±10%                    | 30 VDC or less                     |            |                                |        |        |        |         |        |        |        |
| Load current         | 5 to 20 mA (*3)                       |        |                                | 50 mA or less                      |            |                                |        |        |        |         |        |        |        |
| Indicator lamp       | Red/green LED<br>(Lit when ON)        |        | Red/green LED<br>(Lit when ON) | Red/green LED<br>(Lit when ON)     |            | Red/green LED<br>(Lit when ON) |        |        |        |         |        |        |        |
| Leakage current      | 1 mA or less                          |        |                                | 10 μA or less                      |            |                                |        |        |        |         |        |        |        |
| Weight               | g                                     | 1 m:33 | 3 m:87                         | 5 m:142                            | 1 m:18     | 3 m:49                         | 5 m:80 | 1 m:33 | 3 m:87 | 5 m:142 | 1 m:18 | 3 m:49 | 5 m:80 |

● For AC magnetic field

| Item                  | Proximity 2-wire                      |      |
|-----------------------|---------------------------------------|------|
|                       | T2YD, T2YDT                           | (*4) |
| Applications          | Dedicated for programmable controller |      |
| Indicator lamp        | Red/green LED (Lit when ON)           |      |
| Load voltage          | 24 VDC ±10%                           |      |
| Load current          | 5 to 20 mA                            |      |
| Internal voltage drop | 6V or less                            |      |
| Leakage current       | 1.0 mA or less                        |      |
| Weight                | g 1 m:61 3 m:166 5 m:272              |      |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2: Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3: The max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*4: AC magnetic field proof switch (T2YD/T2YDT) cannot be used in DC magnetic field.

### Cylinder weight

Unit: kg

| Bore size (mm) | Weight for 0 mm stroke length |      |       | Switch weight                                               | Mounting bracket weight |        | Additional weight per<br>St = 100mm |
|----------------|-------------------------------|------|-------|-------------------------------------------------------------|-------------------------|--------|-------------------------------------|
|                | Basic<br>(00)                 | Foot |       |                                                             | T type                  | M type |                                     |
|                |                               | (LB) | (LB1) |                                                             |                         |        |                                     |
| ø12 or equiv.  | 0.24                          | 0.25 | 0.26  | Refer to the weight<br><br>in the switch<br>specifications. | 0.005                   | 0.001  | 0.10                                |
| ø16 or equiv.  | 0.32                          | 0.33 | 0.35  |                                                             |                         |        | 0.13                                |
| ø20 or equiv.  | 0.52                          | 0.54 | 0.58  |                                                             |                         |        | 0.18                                |
| ø25 or equiv.  | 1.0                           | 1.1  | 1.1   |                                                             |                         |        | 0.28                                |
| ø32 or equiv.  | 1.5                           | 1.6  | 1.7   |                                                             |                         |        | 0.36                                |
| ø40 or equiv.  | 2.4                           | 2.5  | -     |                                                             |                         |        | 0.53                                |
| ø50 or equiv.  | 3.5                           | 3.6  | -     |                                                             |                         |        | 0.75                                |
| ø63 or equiv.  | 6.1                           | 6.4  | -     |                                                             |                         |        | 1.11                                |
| ø80 or equiv.  | 18.8                          | 19.4 | -     |                                                             |                         |        | 2.32                                |
| ø100 or equiv. | 26.6                          | 27.6 | -     |                                                             |                         |        | 3.38                                |

Refer to the weight in the switch specifications.

# SRL3-G Series

## How to order

Without switch (built-in magnet for switch)

**SRL3-G-00-12-B-200-B**

With switch (built-in magnet for switch)

**SRL3-G-00-12-B-200-M0H-R-B**

**A** Mounting  
\*1, \*2

**B** Bore size

**C** Port thread

**D** Cushion

**E** Stroke length

**F** Switch model No.

## Note on model No. selection

\*1 : Mounting bracket will be shipped assembled with the product.

\*2 : For 12, 16, 20, 25 and 32 bore sizes with option code "R" or "T", the mounting will be "00" or "LB1".  
(Piping with mounting "LB" is not possible for option codes "R" and "T".)

\*3 : Refer to page 1590 for the min. stroke length with switch.

\*4 : Switches other than **F** Switch model No. are also available. (Made to order) Refer to Ending Page 1 for details.

\*5 : "\*" of L\* and N\* indicates the number of sets. When more than one set are necessary, specify "L2" (for LB) or "N2" (for LB1).  
2 pcs./set

\*6 : For the port and cushion needle position codes, refer to dimensions on pages 1598 to 1603.  
\*7 : In the case of the standard with ø12 to ø25, remove the cover, attach a flat nut and install the full stroke length adjusting bracket.

A flat nut is attached to option "A3" to enable retrofitting the full stroke length adjusting bracket without removing the cover.

\*8 : In "H", the thread size for ø12 and ø16 will be "M4" and that for ø20 will be "M5".

\*9 : Check the option combinations in "Option selection table".

\*10 : Copper and PTFE free as standard. (except for type with shock absorber)

[Example of model No.]

**SRL3-G-00-12B-200-M0H-R-B**

Model: Rodless cylinder resin guide type

- A** Mounting : Basic
- B** Bore size : ø12 mm
- C** Port thread : M5
- D** Cushion : Both sides cushioned
- E** Stroke length : 200 mm
- F** Switch model No. : Reed M0H switch, lead wire 1 m
- G** Switch quantity : 1 on R side
- H** Option : Port position F, cushion needle position B

| Code                 | Description                                                        |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
|----------------------|--------------------------------------------------------------------|------------------|--|--------------|-------------------------|----------------------|---------------------------------------|----|-----------|----|----|----|----|-----|
| A Mounting           |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 00                   | Basic                                                              |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| LB                   | Axial foot                                                         |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| LB1                  | Axial foot (ø12 to ø32 only)                                       |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| B Bore size (mm)     |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 12                   | ø12                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 16                   | ø16                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 20                   | ø20                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 25                   | ø25                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 32                   | ø32                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 40                   | ø40                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 50                   | ø50                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 63                   | ø63                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 80                   | ø80                                                                |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 100                  | ø100                                                               |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| C Port thread        |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| Blank                | Rc thread (M5 for ø12 and ø16)                                     |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| N                    | NPT thread (ø20 or more) (made-to-order product)                   |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| G                    | G thread (ø20 or more) (made-to-order product)                     |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| D Cushion            |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| B                    | Both sides cushioned                                               |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| R                    | R side cushioned                                                   |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| L                    | L side cushioned                                                   |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| N                    | Without cushion                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| E Stroke length (mm) |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| Bore size            |                                                                    | Stroke length *3 |  |              |                         | Custom stroke length |                                       |    |           |    |    |    |    |     |
| ø12 to ø100          |                                                                    | 1 to 5000        |  |              |                         | In 1 mm increments   |                                       |    |           |    |    |    |    |     |
| F Switch model No.   |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| Axial lead wire      |                                                                    | Radial lead wire |  | Reed Contact | Voltage                 |                      | Indicator lamp                        |    | Lead wire |    |    |    |    |     |
|                      |                                                                    |                  |  |              | AC DC                   |                      |                                       |    |           |    |    |    |    |     |
| M0H*                 |                                                                    | M0V*             |  | Proximity    | ●                       | ●                    | 1-color display                       |    | 2-wire    |    |    |    |    |     |
| M5H*                 |                                                                    | M5V*             |  |              | ●                       | ●                    | Without indicator lamp                |    |           |    |    |    |    |     |
| M2H*                 |                                                                    | M2V*             |  |              |                         | ●                    | 1-color display                       |    | 2-wire    |    |    |    |    |     |
| -                    |                                                                    | M2WV*            |  |              |                         | ●                    | 2-color display                       |    |           |    |    |    |    |     |
| M3H*                 |                                                                    | M3V*             |  |              |                         | ●                    | 1-color display                       |    | 3-wire    |    |    |    |    |     |
| -                    |                                                                    | M3WV*            |  |              |                         | ●                    | 2-color display                       |    |           |    |    |    |    |     |
| M3PH*                |                                                                    | M3PV*            |  |              |                         | ●                    | 1-color display (custom)              |    | 3-wire    |    |    |    |    |     |
| T2WH*                |                                                                    | T2WV*            |  |              |                         | ●                    | 2-color display                       |    |           |    |    |    |    |     |
| T2YH*                |                                                                    | T2YV*            |  |              |                         | ●                    |                                       |    |           |    |    |    |    |     |
| T3WH*                |                                                                    | T3WV*            |  |              |                         | ●                    |                                       |    |           |    |    |    |    |     |
| T3YH*                |                                                                    | T3YV*            |  |              |                         | ●                    |                                       |    |           |    |    |    |    |     |
| T2YD*                |                                                                    | -                |  |              |                         | ●                    | 2-color display for AC magnetic field |    | 2-wire    |    |    |    |    |     |
| T2YDT*               |                                                                    | -                |  |              | ●                       |                      |                                       |    |           |    |    |    |    |     |
| * Lead wire length   |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| Blank                | 1 m (standard)                                                     |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 3                    | 3 m (option)                                                       |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 5                    | 5 m (option)                                                       |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| G Switch quantity    |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| R                    | 1 on R side                                                        |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| L                    | 1 on L side                                                        |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| D                    | 2                                                                  |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| T                    | 3                                                                  |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| 4                    | 4 (when there are more than 4 switches, indicate switch quantity.) |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| H Option             |                                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    |    |     |
| Bore size (ø)        |                                                                    |                  |  |              | 12                      | 16                   | 20                                    | 25 | 32        | 40 | 50 | 63 | 80 | 100 |
| A                    | Both-sides full stroke adjustable, shock absorber                  |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         | ●  | ●  | ●  | ●  | ●   |
| A1                   | R side full stroke adjustable, shock absorber                      |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         | ●  | ●  | ●  | ●  | ●   |
| A2                   | L side full stroke, adjustable, shock absorber                     |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         | ●  | ●  | ●  | ●  | ●   |
| A3                   | Full stroke adjustable, adjusting bracket to be added              |                  |  |              | ●                       | ●                    | ●                                     | ●  |           |    |    |    |    |     |
| L*                   | Intermediate support bracket (for 00, LB)                          |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         | ●  | ●  | ●  | ●  | ●   |
| N*                   | Intermediate support bracket (for LB1)                             |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         |    |    |    |    |     |
| H                    | Larger thread for table installation                               |                  |  |              | ●                       | ●                    | ●                                     |    |           |    |    |    |    |     |
| U                    | Height adjustment plate                                            |                  |  |              | ●                       | ●                    | ●                                     | ●  | ●         | ●  | ●  | ●  | ●  | ●   |
| Blank                | Port position                                                      | F (Standard)     |  |              | Cushion needle position | F (Standard)         |                                       |    |           |    |    |    |    |     |
|                      |                                                                    | R (Common port)  |  |              |                         | F                    |                                       |    | ●         | ●  | ●  | ●  | ●  | ●   |
|                      |                                                                    | B                |  |              |                         | B                    |                                       |    | ●         | ●  | ●  | ●  | ●  | ●   |
|                      |                                                                    | T (Common port)  |  |              |                         | B                    |                                       |    | ●         | ●  | ●  | ●  | ●  | ●   |
|                      |                                                                    | D                |  |              |                         | F                    |                                       |    |           |    |    | ●  | ●  | ●   |
|                      |                                                                    | S                |  |              |                         | D                    |                                       |    |           |    |    |    | ●  | ●   |
| X                    | F (Common port)                                                    |                  |  |              |                         |                      |                                       |    |           |    |    |    | ●  | ●   |

Option selection table

● : Available    □ : Not available

| Option |       | Option |                                                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|--------|-------|--------|------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------------------------------------|
|        |       | Code   |                                                                        |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|        | A     |        | Both side full stroke length adjustable, with shock absorber           |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|        | A1    |        | R side full stroke length adjustable, with shock absorber              |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|        | A2    |        | L side full stroke length adjustable, with shock absorber              |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|        | A3    |        | Full stroke length adjustable with adjusting bracket to be added later |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                          |
|        | L*    |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Intermediate support bracket (for 00, LB)                |
|        | N*    |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Intermediate support bracket (for LB1)                   |
|        | H     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Larger thread for table installation                     |
|        | U     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Height adjustment plate                                  |
|        | Blank |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position F, cushion needle position F (standard)    |
|        | R     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position R, cushion needle position F (common port) |
|        | B     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position F, cushion needle position B               |
|        | T     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position R, cushion needle position B (common port) |
|        | D     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position D, cushion needle position F               |
|        | S     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position D, cushion needle position D               |
|        | X     |        | ●                                                                      | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | Port position F, cushion needle position F (common port) |

\*1: Some combinations are not available depending on the bore size. Be sure to check the **H** Option in "How to order" on the previous page.

\*2: LB1 with port position D is not possible. (ø25, ø32)

Theoretical thrust table

(Unit: N)

| Bore size<br>(mm) | Operating<br>direction | Working pressure MPa   |                        |                        |                        |                        |                        |                        |                        |                        |
|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                   |                        | 0.1                    | 0.15                   | 0.2                    | 0.25                   | 0.3                    | 0.4                    | 0.5                    | 0.6                    | 0.7                    |
| ø12               | Push/Pull              | —                      | —                      | —                      | 34.6                   | 41.5                   | 55.3                   | 69.1                   | 83.0                   | 96.8                   |
| ø16               | Push/Pull              | —                      | —                      | —                      | 54.0                   | 64.8                   | 86.4                   | 1.08 × 10 <sup>2</sup> | 1.30 × 10 <sup>2</sup> | 1.51 × 10 <sup>2</sup> |
| ø20               | Push/Pull              | —                      | —                      | —                      | 78.6                   | 94.4                   | 1.26 × 10 <sup>2</sup> | 1.57 × 10 <sup>2</sup> | 1.89 × 10 <sup>2</sup> | 2.20 × 10 <sup>2</sup> |
| ø25               | Push/Pull              | —                      | 81.4                   | 1.08 × 10 <sup>2</sup> | 1.35 × 10 <sup>2</sup> | 1.63 × 10 <sup>2</sup> | 2.17 × 10 <sup>2</sup> | 2.71 × 10 <sup>2</sup> | 3.25 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> |
| ø32               | Push/Pull              | —                      | 1.22 × 10 <sup>2</sup> | 1.63 × 10 <sup>2</sup> | 2.04 × 10 <sup>2</sup> | 2.44 × 10 <sup>2</sup> | 3.26 × 10 <sup>2</sup> | 4.07 × 10 <sup>2</sup> | 4.88 × 10 <sup>2</sup> | 5.70 × 10 <sup>2</sup> |
| ø40               | Push/Pull              | —                      | 1.90 × 10 <sup>2</sup> | 2.53 × 10 <sup>2</sup> | 3.16 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> | 5.06 × 10 <sup>2</sup> | 6.33 × 10 <sup>2</sup> | 7.60 × 10 <sup>2</sup> | 8.86 × 10 <sup>2</sup> |
| ø50               | Push/Pull              | —                      | 2.98 × 10 <sup>2</sup> | 3.98 × 10 <sup>2</sup> | 4.98 × 10 <sup>2</sup> | 5.96 × 10 <sup>2</sup> | 7.95 × 10 <sup>2</sup> | 9.94 × 10 <sup>2</sup> | 1.19 × 10 <sup>3</sup> | 1.39 × 10 <sup>3</sup> |
| ø63               | Push/Pull              | 3.14 × 10 <sup>2</sup> | 4.70 × 10 <sup>2</sup> | 6.27 × 10 <sup>2</sup> | 7.84 × 10 <sup>2</sup> | 9.41 × 10 <sup>2</sup> | 1.25 × 10 <sup>3</sup> | 1.57 × 10 <sup>3</sup> | 1.88 × 10 <sup>3</sup> | 2.20 × 10 <sup>3</sup> |
| ø80               | Push/Pull              | 5.06 × 10 <sup>2</sup> | 7.60 × 10 <sup>2</sup> | 1.01 × 10 <sup>3</sup> | 1.26 × 10 <sup>3</sup> | 1.52 × 10 <sup>3</sup> | 2.03 × 10 <sup>3</sup> | 2.53 × 10 <sup>3</sup> | 3.04 × 10 <sup>3</sup> | 3.54 × 10 <sup>3</sup> |
| ø100              | Push/Pull              | 7.91 × 10 <sup>2</sup> | 1.19 × 10 <sup>3</sup> | 1.58 × 10 <sup>3</sup> | 1.98 × 10 <sup>3</sup> | 2.37 × 10 <sup>3</sup> | 3.16 × 10 <sup>3</sup> | 3.95 × 10 <sup>3</sup> | 4.74 × 10 <sup>3</sup> | 5.53 × 10 <sup>3</sup> |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd  
Contr

Ending

## How to order switch (For configurations, refer to pages 1624 to 1626)

- Switch body + mounting bracket set (\*1)

**SRL3 - M0H\***

Switch model No.  
(Item ⑥ on page 1592)

- Switch body only

**SW - M0H\***

Switch model No.  
(Item ⑥ on page 1592)

### \* Lead wire length

|       |                |
|-------|----------------|
| Blank | 1 m (standard) |
| 3     | 3 m (option)   |
| 5     | 5 m (option)   |

\* indicates lead wire length.

- Mounting bracket set (\*2)

· M type switch

**SRL3 - M**

· T type switch

**SRL3 - T**

- Lead wire holder (\*3)

**SRL3 - MH**

\*1: "Switch body + mounting bracket set" does not include lead wire holders. Order lead wire holders separately if necessary.

\*2: The mounting bracket is different between the M type switch and T type switch.

\*3: The quantity of lead wire holders per set is 10.

- How to order discrete shock absorber

**SRL3 - 40 - NCK**

Bore size  
(Item ⑧ on page 1592)

(One shock absorber, one shock absorber fixing hexagon nut)

(Note) The shock absorber fixing hexagon nut for SRL3-40 is a made-to-order product.

Applicable shock absorber model No.

| Model    | Shock absorber model No. |
|----------|--------------------------|
| SRL3-12  | NCK-00-0.3-C             |
| SRL3-16  | NCK-00-0.3-C             |
| SRL3-20  | NCK-00-0.7-C             |
| SRL3-25  | NCK-00-1.2               |
| SRL3-32  | NCK-00-2.6               |
| SRL3-40  | NCK-00-7                 |
| SRL3-50  | NCK-00-12                |
| SRL3-63  | NCK-00-12                |
| SRL3-80  | NCK-00-20                |
| SRL3-100 | NCK-00-20                |

- How to order discrete intermediate support bracket

For 00/LB

**SRL3 - 40 - L (2/set)**

Bore size  
(Item ⑧ on page 1592)

For LB1

**SRL3 - 32 - N (2/set)**

Bore size  
(Item ⑧ on page 1592)

- How to order full stroke length adjusting bracket kit

**SRL3 - 40 - A1 (1 set)**

Bore size  
(Item ⑧ on page 1592)

(For configurations, refer to "Full stroke length adjusting bracket kit" on page 1625.)

- How to order repair parts

**SRL3-G - 40 K - 200**

Bore size (Item ⑧ on page 1592)      Stroke length (Item ⑨ on page 1592)

- How to order mounting bracket

**SRL3 - LB - 40**

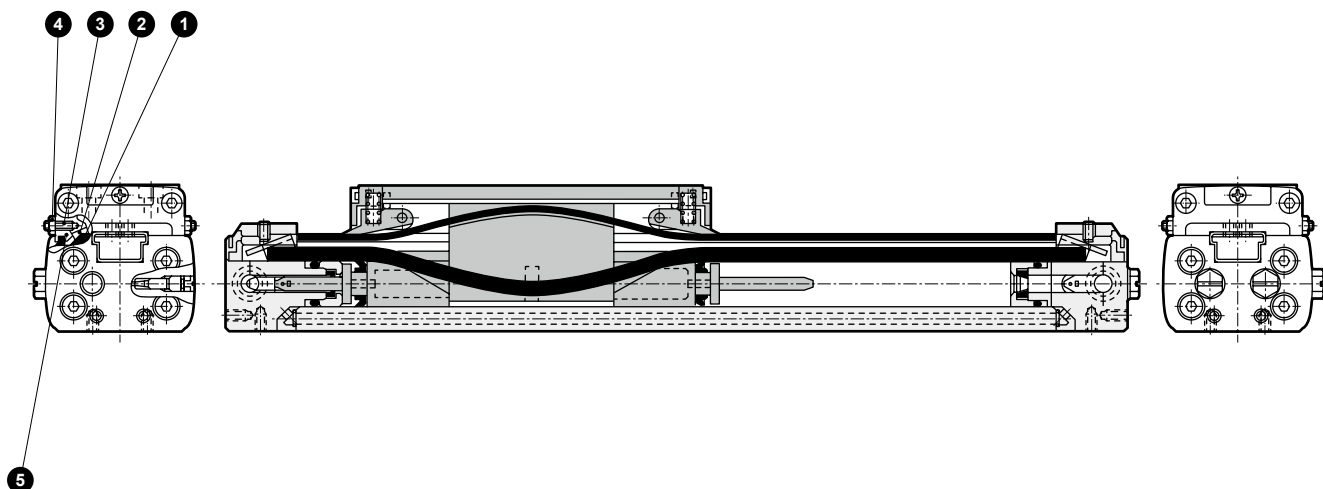
Mounting (Item ① on page 1592)      Bore size (Item ⑧ on page 1592)  
(Bracket x2, mounting bolt x4)

- How to order height adjustment plate set

**SRL3 - 40 - U**

Bore size  
(Item ⑧ on page 1592)  
(Plate, mounting bolt x4)

### Internal structure and parts list (ø12 to ø40 equiv.)



### Parts list

| No. | Part name       | Material     | Remarks       | No. | Part name  | Material     | Remarks       |
|-----|-----------------|--------------|---------------|-----|------------|--------------|---------------|
| 1   | Slider          | Acetal resin |               | 4   | Nut        | Steel        | Zinc chromate |
| 2   | Slider plate    | Steel        |               | 5   | Dust wiper | Acetal resin |               |
| 3   | Adjusting screw | Alloy steel  | Zinc chromate |     |            |              |               |

### Repair parts list

| Bore size (mm) | Kit No.      | Repair parts No. |
|----------------|--------------|------------------|
| ø12 or equiv.  | SRL3-G-12K-* |                  |
| ø16 or equiv.  | SRL3-G-16K-* |                  |
| ø20 or equiv.  | SRL3-G-20K-* | 1 5 8 9          |
| ø25 or equiv.  | SRL3-G-25K-* | 18 21 22 26      |
| ø32 or equiv.  | SRL3-G-32K-* | 27               |
| ø40 or equiv.  | SRL3-G-40K-* |                  |

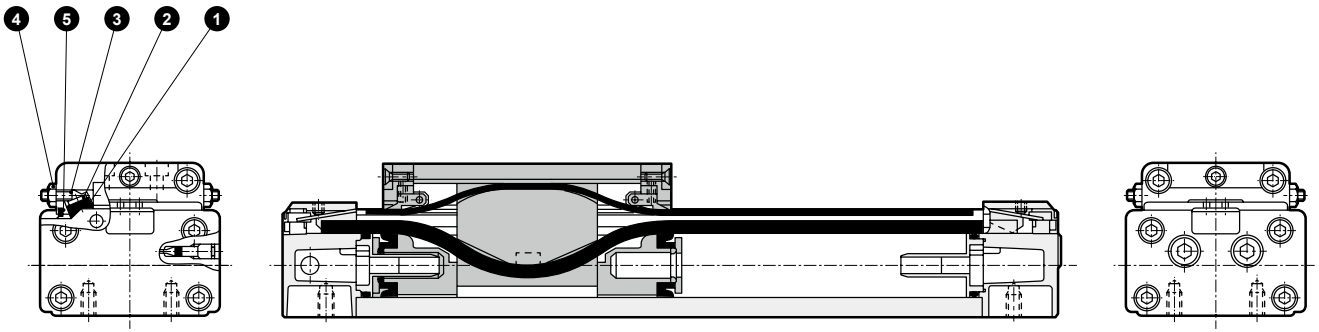
\*1 : Specify the kit No. when placing an order. Specify the stroke length for \*.

\*2: Part numbers (8)(9)(18)(21)(22)(26)(27) are the same as those on page 1579.

SCP\*3  
CMK2  
CMA2  
SCM  
SCG  
SCA2  
SCS2  
CKV2  
CAV2/  
COVP/IN2  
SSD2  
SSG  
SSD  
CAT  
MDC2  
MVC  
SMG  
MSD/  
MSDG  
FC\*  
STK  
SRL3  
SRG3  
SRM3  
SRT3  
MRL2  
MRG2  
SM-25  
ShkAbs  
FJ  
FK  
Spd  
Contr  
Ending

# SRL3-G Series

## Internal structure and parts list (ø50, ø63 equiv.)



### Parts list

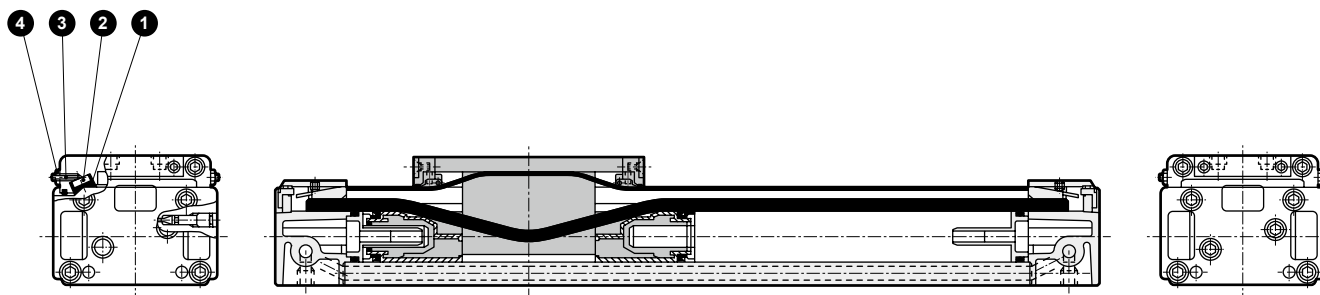
| No. | Part name       | Material     | Remarks       | No. | Part name  | Material     | Remarks       |
|-----|-----------------|--------------|---------------|-----|------------|--------------|---------------|
| 1   | Slider          | Acetal resin |               | 4   | Nut        | Steel        | Zinc chromate |
| 2   | Slider plate    | Steel        | Zinc chromate | 5   | Dust wiper | Acetal resin |               |
| 3   | Adjusting screw | Alloy steel  | Zinc chromate |     |            |              |               |

### Repair parts list

| Bore size (mm) | Kit No.      | Repair parts No. |
|----------------|--------------|------------------|
| ø50 or equiv.  | SRL3-G-50K-* | 1 5 8 9 18       |
| ø63 or equiv.  | SRL3-G-63K-* | 21 22 26 27 32   |

\*1 :Specify the kit No. when placing an order. Specify the stroke length for \*.  
\*2:Part numbers 8 9 18 21 22 26 27 32 are the same as those on page 1580.

### Internal structure and parts list (ø80, ø100 equiv.)



### Parts list

| No. | Part name    | Material     | Remarks       | No. | Part name       | Material    | Remarks       |
|-----|--------------|--------------|---------------|-----|-----------------|-------------|---------------|
| 1   | Slider       | Acetal resin |               | 3   | Adjusting screw | Alloy steel | Zinc chromate |
| 2   | Slider plate | Steel        | Zinc chromate | 4   | Nut             | Steel       | Zinc chromate |

### Repair parts list

| Bore size (mm) | Kit No.       | Repair parts No.       |
|----------------|---------------|------------------------|
| ø80 or equiv.  | SRL3-G-80K-*  | ① ⑧ ⑨ ⑱ ㉑<br>㉒ ㉔ ㉕ ㉘ ㉙ |
| ø100 or equiv. | SRL3-G-100K-* | ㉚ ㉛                    |

\*1 : Specify the kit No. when placing an order. Specify the stroke length for \*.

\*2: Part numbers ⑧ ⑨ ⑱ ㉑ ㉒ ㉔ ㉕ ㉘ ㉙ ㉚ ㉛ are the same as those on page 1581.

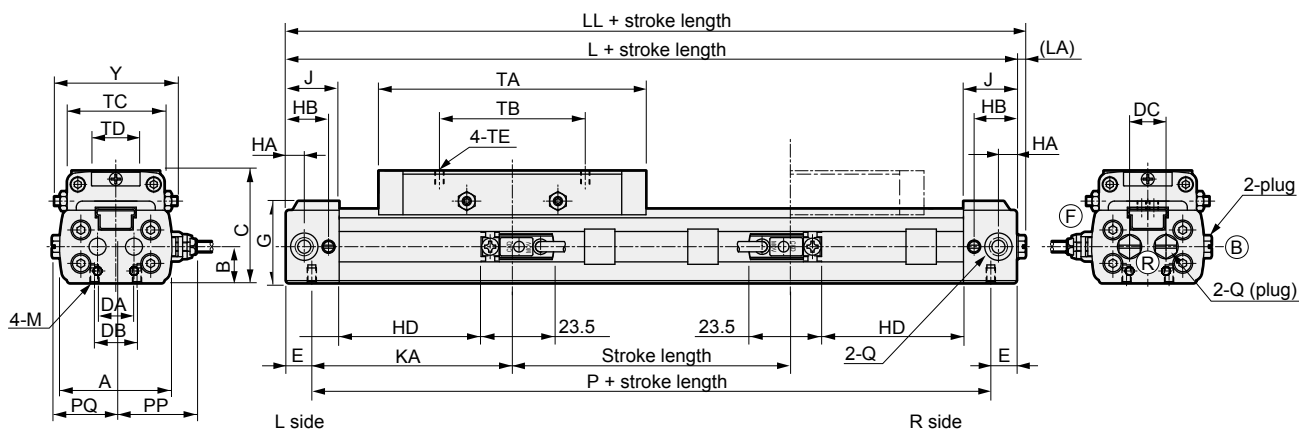
SCP\*3  
CMK2  
CMA2  
SCM  
SCG  
SCA2  
SCS2  
CKV2  
CAV2/  
COVP/N2  
SSD2  
SSG  
SSD  
CAT  
MDC2  
MVC  
SMG  
MSD/  
MSDG  
FC\*  
STK  
SRL3  
SRG3  
SRM3  
SRT3  
MRL2  
MRG2  
SM-25  
ShkAbs  
FJ  
FK  
Spd  
Contr  
Ending

# SRL3-G Series

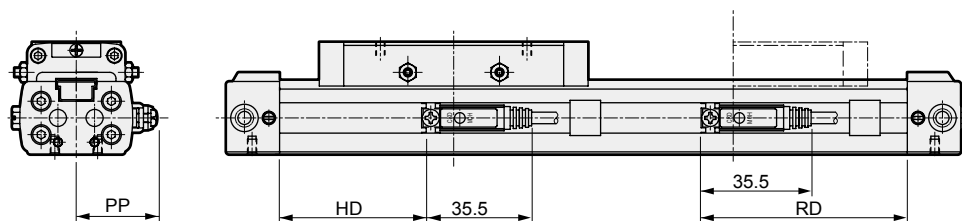


## Dimensions (ø12 to ø20 equiv.)

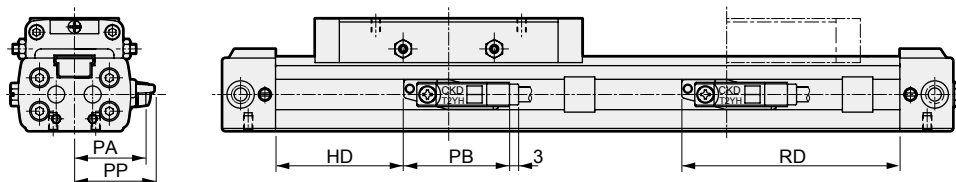
- With cylinder switch SRL3-G-\*\*-\*\*\*-M\*V\*  
(lead wire L-shaped)



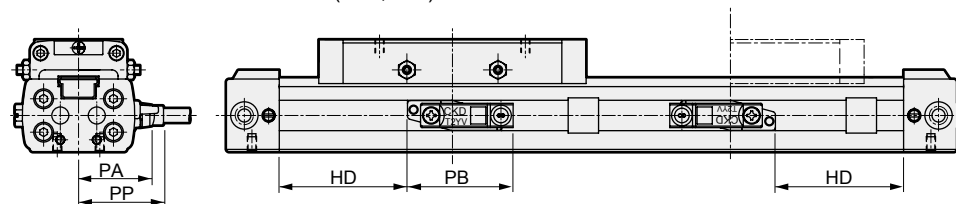
- With cylinder switch SRL3-G-\*\*-\*\*\*-M\*H\*  
(lead wire straight)



- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)



- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*V (T\*W, T\*Y)



RD: Max. sensitivity installation position HD: Max. sensitivity installation position

| Code           | A  | B    | C  | DA | DB | DC | E    | G  | HA  | HB   | J    | KA   | L   | LL    | LA  | M            | P   | PQ   | Q     | TA  | TB | TC | TD | TE         | Y        |
|----------------|----|------|----|----|----|----|------|----|-----|------|------|------|-----|-------|-----|--------------|-----|------|-------|-----|----|----|----|------------|----------|
| Bore size (mm) |    |      |    |    |    |    |      |    |     |      |      |      |     |       |     |              |     |      |       |     |    |    |    |            |          |
| ø12 or equiv.  | 33 | 10.5 | 33 | 8  | 10 | 11 | 8.5  | 24 | 6   | 14   | 17.5 | 59.5 | 136 | 139   | 3   | M3 depth 5   | 119 | 19   | M5    | 81  | 42 | 29 | 13 | M3 depth 5 | 36 to 38 |
| ø16 or equiv.  | 37 | 12   | 37 | 12 | 14 | 12 | 8.5  | 27 | 6   | 14   | 17.5 | 66   | 149 | 152   | 3   | M3 depth 5   | 132 | 21   | M5    | 88  | 48 | 32 | 15 | M3 depth 5 | 39 to 41 |
| ø20 or equiv.  | 44 | 14   | 42 | 16 | 16 | 16 | 10.5 | 31 | 8.5 | 18.5 | 22   | 74   | 169 | 171.5 | 2.5 | M4 depth 6.5 | 148 | 24.5 | Rc1/8 | 100 | 60 | 38 | 18 | M4 depth 6 | 43 to 45 |

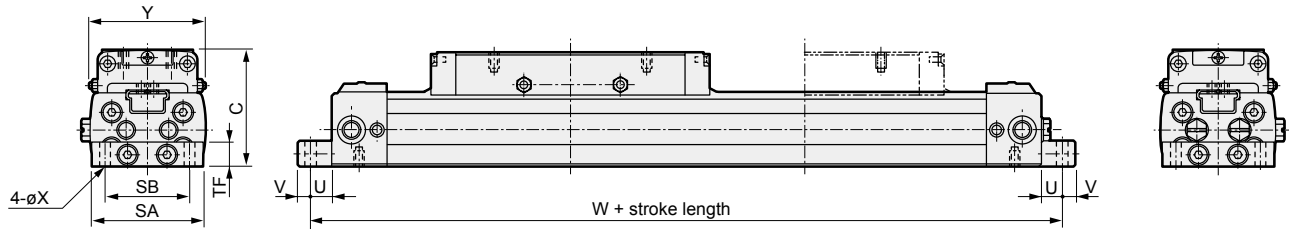
| Code           | With switch |      |     |      |      |     |      |      |      |      |      |     |      |      |      |      |      |
|----------------|-------------|------|-----|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|
| Bore size (mm) | HD          |      |     | RD   |      |     | PA   | PB   |      |      | PP   |     |      |      |      |      |      |
|                | M*          | T*Y* | T*W | M*   | T*Y* | T*W |      | T*Y* | T2YD | T*W* | M*V  | M*H | T*YV | T*YH | T2YD | T*WV | T*WH |
| ø12 or equiv.  | 40.5        | 36   | 32  | 60.5 | 65   | 69  | 24.3 | 35   | 34   | 33.5 | 24.5 | 23  | 26   | 23   | 28.4 | 20.7 | 17.2 |
| ø16 or equiv.  | 47          | 42   | 38  | 67   | 72   | 76  | 26.3 | 35   | 34   | 33.5 | 26.5 | 25  | 28   | 25   | 30.4 | 22.7 | 19.2 |
| ø20 or equiv.  | 52.5        | 48   | 44  | 72.5 | 77   | 81  | 29.3 | 35   | 34   | 33.5 | 29.5 | 28  | 31   | 28   | 33.4 | 25.7 | 22.2 |

\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

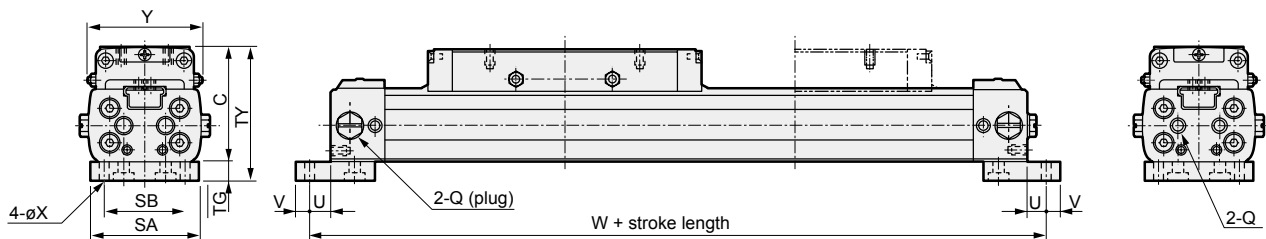
## Dimensions (ø12 to ø20 equiv.)



- With foot bracket SRL3-G-LB-12 to 20



- With foot bracket SRL3-G-LB1-12 to 20



| Code           | With foot bracket (LB) |    |    |   |   |     |     | With foot bracket (LB1) |    |    |    |   |   |     |     |
|----------------|------------------------|----|----|---|---|-----|-----|-------------------------|----|----|----|---|---|-----|-----|
| Bore size (mm) | SA                     | SB | TF | U | V | W   | X   | SA                      | SB | TG | TY | U | V | W   | X   |
| ø12 or equiv.  | 32                     | 24 | 8  | 6 | 4 | 148 | 3.4 | 32                      | 24 | 6  | 39 | 6 | 4 | 148 | 3.4 |
| ø16 or equiv.  | 35                     | 26 | 8  | 6 | 4 | 161 | 3.4 | 35                      | 26 | 6  | 43 | 6 | 4 | 161 | 3.4 |
| ø20 or equiv.  | 43                     | 33 | 10 | 6 | 6 | 181 | 4.5 | 43                      | 33 | 8  | 50 | 6 | 6 | 181 | 4.5 |

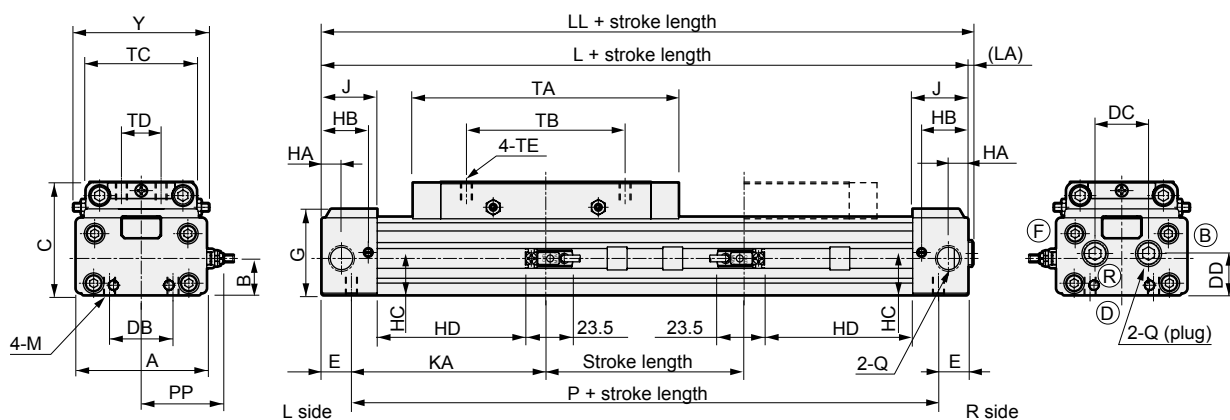
|                  |
|------------------|
| SCP*3            |
| CMK2             |
| CMA2             |
| SCM              |
| SCG              |
| SCA2             |
| SCS2             |
| CKV2             |
| CAV2/<br>COVP/N2 |
| SSD2             |
| SSG              |
| SSD              |
| CAT              |
| MDC2             |
| MVC              |
| SMG              |
| MSD/<br>MSDG     |
| FC*              |
| STK              |
| <b>SRL3</b>      |
| SRG3             |
| SRM3             |
| SRT3             |
| MRL2             |
| MRG2             |
| SM-25            |
| ShkAbs           |
| FJ               |
| FK               |
| Spd<br>Contr     |
| Ending           |

# SRL3-G Series

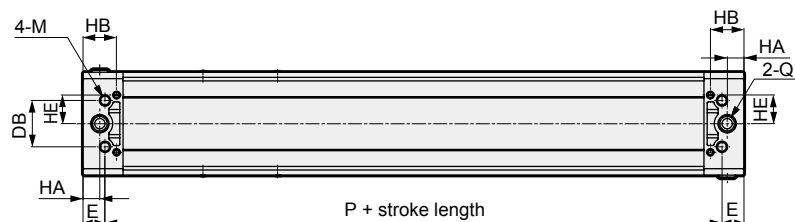


## Dimensions (ø25 to ø63 equiv.)

- With cylinder switch SRL3-G-\*\*-\*\*-M\*V\*  
(lead wire L-shaped)



- Bottom piping (option code: D/S)



| Code           | A   | B    | C  | DB | DC | DD | E  | G    | HA  | HB   | HC   | HE   | J  | KA  | L   | LL    | LA  | M            | P   | Q     | TA  | TB  | TC  | TD | TE            | Y          |
|----------------|-----|------|----|----|----|----|----|------|-----|------|------|------|----|-----|-----|-------|-----|--------------|-----|-------|-----|-----|-----|----|---------------|------------|
| Bore size (mm) |     |      |    |    |    |    |    |      |     |      |      |      |    |     |     |       |     |              |     |       |     |     |     |    |               |            |
| ø25 or equiv.  | 53  | 17   | 53 | 20 | 26 | 19 | 14 | 40.5 | 7.5 | 20   | 18.9 | -    | 24 | 81  | 190 | 192   | 2   | M6 depth 9   | 162 | Rc1/8 | 122 | 70  | 48  | 20 | M5 depth 6    | 58 to 61   |
| ø32 or equiv.  | 66  | 18.5 | 57 | 32 | 27 | 21 | 15 | 43.5 | 10  | 23.5 | 21.5 | 17   | 28 | 98  | 226 | 228.5 | 2.5 | M6 depth 9   | 196 | Rc1/4 | 134 | 80  | 56  | 20 | M6 depth 7.5  | 65 to 69   |
| ø40 or equiv.  | 80  | 22   | 67 | 36 | 35 | 28 | 17 | 51.5 | 13  | 26   | 27   | 22.3 | 31 | 105 | 244 | 246.5 | 2.5 | M8 depth 12  | 210 | Rc1/4 | 148 | 90  | 68  | 30 | M6 depth 9    | 77 to 81   |
| ø50 or equiv.  | 96  | 28   | 82 | 45 | 35 | 35 | 23 | 61   | 15  | 33   | 35.3 | 11   | 39 | 106 | 258 | 260.5 | 2.5 | M8 depth 12  | 212 | Rc3/8 | 152 | 100 | 80  | 30 | M8 depth 10.5 | 92 to 96   |
| ø63 or equiv.  | 118 | 35   | 95 | 50 | 39 | 42 | 19 | 74   | 15  | 32   | 43   | 31   | 39 | 129 | 296 | 298.5 | 2.5 | M10 depth 15 | 258 | Rc3/8 | 168 | 110 | 102 | 40 | M8 depth 11.5 | 114 to 118 |

| Code           | With switch |      |     |     |      |     |      |      |      |      |      |     |      |      |      |      |      |
|----------------|-------------|------|-----|-----|------|-----|------|------|------|------|------|-----|------|------|------|------|------|
| Bore size (mm) | HD          |      |     | RD  |      |     | PA   | PB   |      |      | PP   |     |      |      |      |      |      |
|                | M*          | T*Y* | T*W | M*  | T*Y* | T*W |      | T*Y* | T2YD | T*W* | M*V  | M*H | T*YV | T*YH | T2YD | T*WV | T*WH |
| ø25 or equiv.  | 60          | 56   | 52  | 82  | 86   | 90  | 34.3 | 35   | 34   | 33.5 | 34.5 | 33  | 36   | 33   | 38.4 | 30.7 | 27.2 |
| ø32 or equiv.  | 74          | 70   | 66  | 96  | 100  | 104 | 41.3 | 35   | 34   | 33.5 | 41.5 | 40  | 43   | 40   | 45.4 | 37.7 | 34.2 |
| ø40 or equiv.  | 80          | 76   | 72  | 102 | 106  | 110 | 48.3 | 35   | 34   | 33.5 | 48.5 | 47  | 50   | 47   | 52.4 | 44.7 | 41.2 |
| ø50 or equiv.  | 79          | 75   | 71  | 101 | 105  | 109 | 56.3 | 35   | 34   | 33.5 | 56.5 | 55  | 58   | 55   | 60.4 | 52.7 | 49.2 |
| ø63 or equiv.  | 98          | 94   | 90  | 120 | 124  | 128 | 67.3 | 35   | 34   | 33.5 | 67.5 | 66  | 69   | 66   | 71.4 | 63.7 | 60.2 |

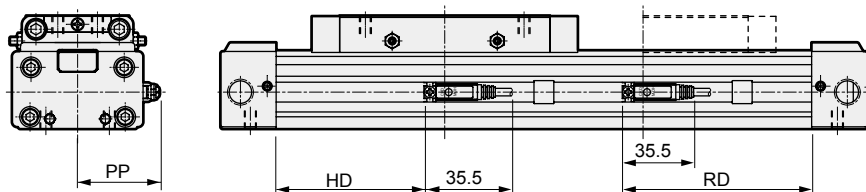
\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

\*2: Bottom piping is not available for ø25.

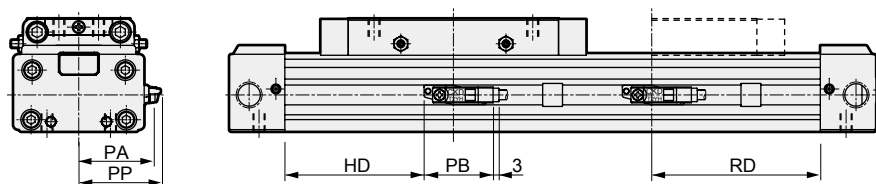
### Dimensions (ø25 to ø63 equiv.)



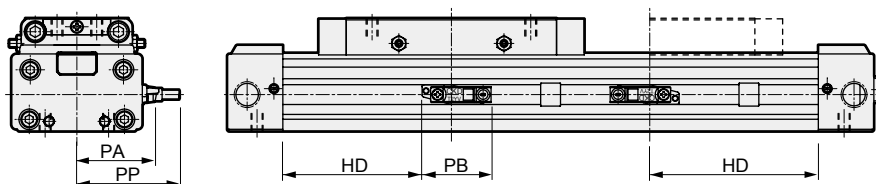
- With cylinder switch SRL3-G-\*\*-\*\*\*-M\*H\* (lead wire straight)



- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)

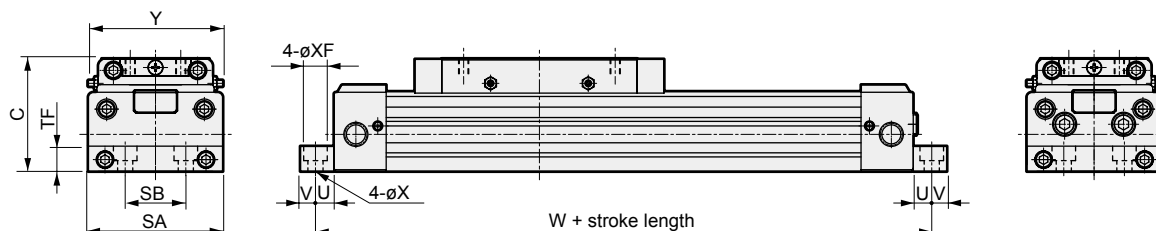


- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*V (T\*W, T\*Y)

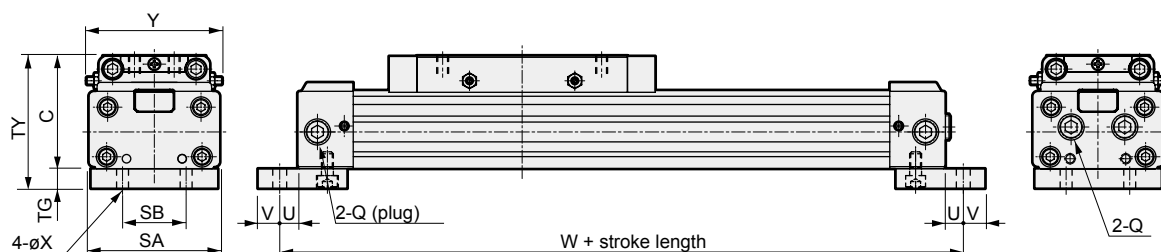


RD: Max. sensitivity installation position HD: Max. sensitivity installation position

- With foot bracket SRL3-G-LB-25 to 63



- With foot bracket SRL3-G-LB1-25, 32 (The mounting LB1 is not available for ø40 to ø63 or equiv.)



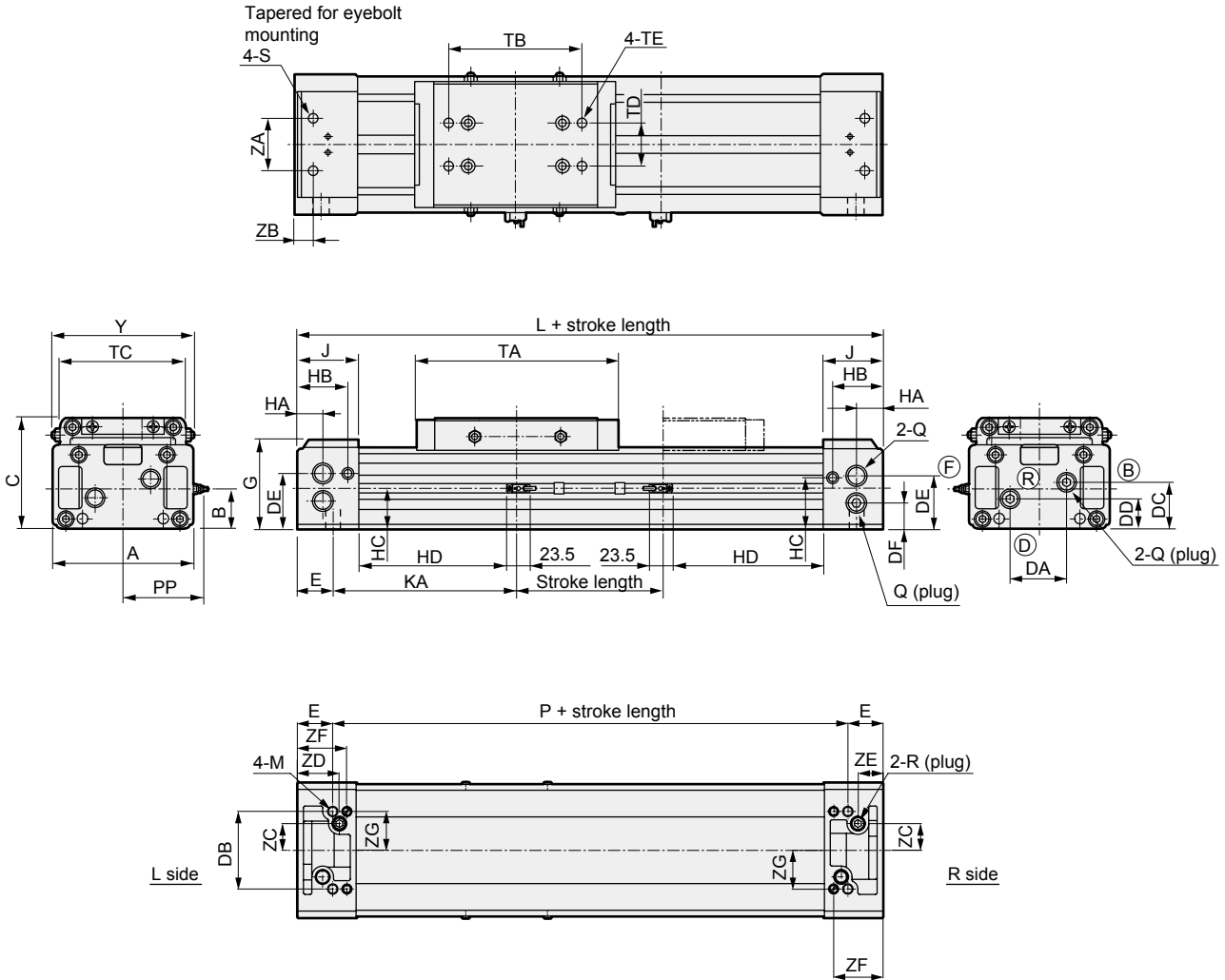
| Code           | With foot bracket (LB) |    |    |    |    |     |    |                           | With foot bracket (LB1) |    |    |    |   |    |     |   |
|----------------|------------------------|----|----|----|----|-----|----|---------------------------|-------------------------|----|----|----|---|----|-----|---|
| Bore size (mm) | SA                     | SB | TF | U  | V  | W   | X  | XF                        | SA                      | SB | TG | TY | U | V  | W   | X |
| ø25 or equiv.  | 52                     | 20 | 12 | 9  | 11 | 208 | 7  | -                         | 50                      | 20 | 10 | 63 | 9 | 11 | 208 | 7 |
| ø32 or equiv.  | 64                     | 32 | 12 | 9  | 11 | 244 | 7  | -                         | 64                      | 32 | 10 | 67 | 9 | 11 | 244 | 7 |
| ø40 or equiv.  | 80                     | 36 | 15 | 11 | 9  | 266 | 9  | 14 spot face depth 8.6    | -                       | -  | -  | -  | - | -  | -   | - |
| ø50 or equiv.  | 94                     | 45 | 20 | 11 | 9  | 280 | 9  | 14 spot face depth 8.6    | -                       | -  | -  | -  | - | -  | -   | - |
| ø63 or equiv.  | 116                    | 50 | 25 | 13 | 12 | 322 | 11 | 17.5 spot face depth 10.8 | -                       | -  | -  | -  | - | -  | -   | - |

# SRL3-G Series

## Dimensions (ø80 to ø100 equiv.)



● With cylinder switch SRL3-G-\*\*-\*\*\*-M\*V\*  
(lead wire L-shaped)



| Code           | A   | B    | C   | DA | DB  | DC   | DD   | DE   | DF   | E  | G   | HA | HB | HC   | J  | KA  | L   | M            | P   | Q     | R     | S            |
|----------------|-----|------|-----|----|-----|------|------|------|------|----|-----|----|----|------|----|-----|-----|--------------|-----|-------|-------|--------------|
| Bore size (mm) |     |      |     |    |     |      |      |      |      |    |     |    |    |      |    |     |     |              |     |       |       |              |
| ø80 or equiv.  | 162 | 49   | 130 | 64 | 93  | 58   | 38   | 65   | 33   | 42 | 106 | 30 | 59 | 64.5 | 70 | 208 | 500 | M12 depth 18 | 416 | Rc1/2 | Rc3/8 | M12 depth 23 |
| ø100 or equiv. | 198 | 61.5 | 150 | 73 | 108 | 71.5 | 47.5 | 81.5 | 41.5 | 43 | 125 | 30 | 69 | 76.5 | 80 | 222 | 530 | M12 depth 18 | 444 | Rc1/2 | Rc1/2 | M12 depth 23 |

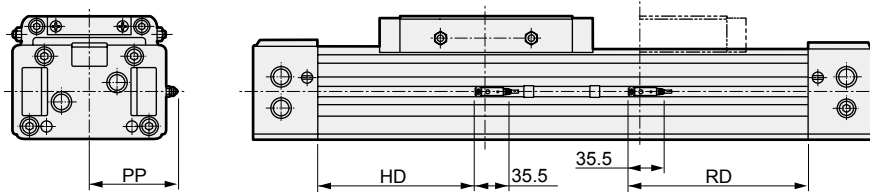
| Code           | TA  | TB  | TC  | TD | TE           | Y          | ZA | ZB | ZC | ZD | ZE | ZF | ZG   | With foot bracket |     |    |    |    |     |    |
|----------------|-----|-----|-----|----|--------------|------------|----|----|----|----|----|----|------|-------------------|-----|----|----|----|-----|----|
| Bore size (mm) |     |     |     |    |              |            |    |    |    |    |    |    |      | SA                | SB  | TF | U  | V  | W   | X  |
| ø80 or equiv.  | 228 | 150 | 146 | 50 | M12 depth 15 | 157 to 164 | 60 | 21 | 64 | 50 | 30 | 59 | 46.5 | 162               | 134 | 25 | 13 | 12 | 526 | 14 |
| ø100 or equiv. | 238 | 160 | 170 | 60 | M12 depth 15 | 183 to 190 | 60 | 21 | 73 | 55 | 30 | 69 | 54   | 198               | 160 | 30 | 15 | 15 | 560 | 14 |

\*1: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

## Dimensions (ø80 to ø100 equiv.)

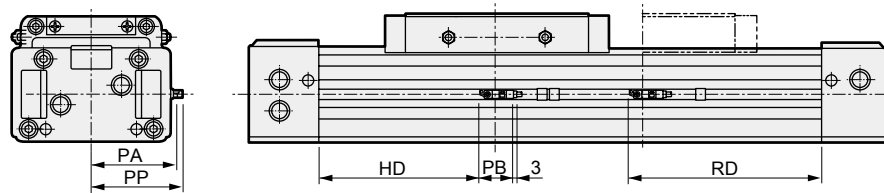


- With cylinder switch SRL3-G-\*\*-\*\*\*-M\*H\*  
(Axial lead wire)

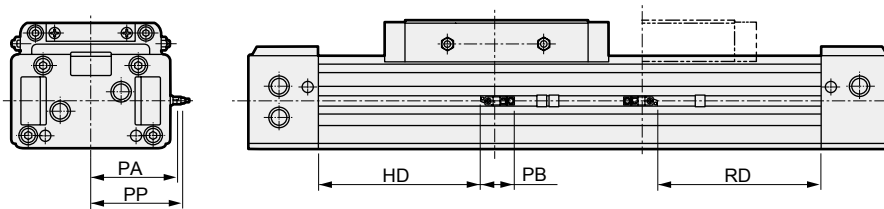


RD: Max. sensitivity  
mounting position  
HD: Max. sensitivity  
mounting position

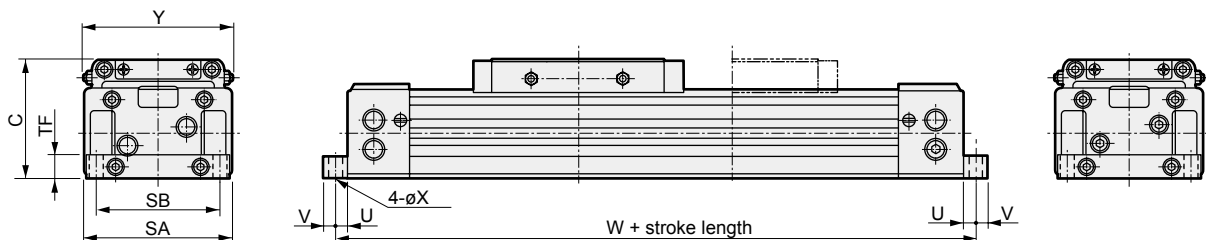
- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*H (T\*W, T\*Y, T2YD)



- With cylinder switch SRL3-G-\*\*-\*\*\*-T\*V (T\*T\*W, T\*Y)



- With foot bracket SRL3-G-LB-\*\*-\*\*\*



| Code           | With switch |      |     |     |      |     |       |      |      |      |       |     |      |      |       |
|----------------|-------------|------|-----|-----|------|-----|-------|------|------|------|-------|-----|------|------|-------|
| Bore size (mm) | HD          |      |     | RD  |      |     | PA    | PB   |      |      | PP    |     |      |      |       |
|                | M*          | T*Y* | T*W | M*  | T*Y* | T*W |       | T*Y* | T2YD | T*W* | M*V   | M*H | T*YV | T*YH | T2YD  |
| ø80 or equiv.  | 170         | 165  | 161 | 190 | 195  | 199 | 87.3  | 35   | 34   | 33.5 | 87.5  | 86  | 89   | 86   | 91.4  |
| ø100 or equiv. | 175         | 170  | 166 | 195 | 200  | 204 | 105.3 | 35   | 34   | 33.5 | 105.5 | 104 | 107  | 104  | 109.4 |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

**SRL3**

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd  
Contr

Ending

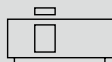


Rodless cylinder double acting/position locking

# SRL3-Q Series

● Bore size: ø12, ø16, ø20, ø25, ø32  
ø40, ø50, ø63, ø80, ø100

JIS symbol



## Specifications

| Item                       |                       | SRL3-Q                                                                                                                                      |     |       |                         |                                         |     |                                         |                      |       |      |
|----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------------------|-----------------------------------------|-----|-----------------------------------------|----------------------|-------|------|
| Bore size                  | mm                    | ø12                                                                                                                                         | ø16 | ø20   | ø25                     | ø32                                     | ø40 | ø50                                     | ø63                  | ø80   | ø100 |
| Actuation                  |                       | Double acting                                                                                                                               |     |       |                         |                                         |     |                                         |                      |       |      |
| Working fluid              |                       | Compressed air                                                                                                                              |     |       |                         |                                         |     |                                         |                      |       |      |
| Max. working pressure MPa  |                       | 0.7 (≈100 psi, 7 bar)                                                                                                                       |     |       |                         |                                         |     |                                         |                      |       |      |
| Min. working pressure MPa  |                       | 0.2 (≈29 psi, 2 bar)                                                                                                                        |     |       | 0.15 (≈22 psi, 1.5 bar) |                                         |     |                                         | 0.1 (≈15 psi, 1 bar) |       |      |
| Proof pressure MPa         |                       | 1.05 (≈150 psi, 10.5 bar)                                                                                                                   |     |       |                         |                                         |     |                                         |                      |       |      |
| Ambient temperature °C     |                       | 5 (41°F) to 60 (140°F)                                                                                                                      |     |       |                         |                                         |     |                                         |                      |       |      |
| Port size                  | Cylinder              | M5                                                                                                                                          |     | Rc1/8 |                         | Rc1/4                                   |     | Rc3/8                                   |                      | Rc1/2 |      |
|                            | Position locking part | M5                                                                                                                                          |     | Rc1/8 |                         |                                         |     |                                         |                      |       |      |
| Stroke tolerance mm        |                       | <sup>+2.0</sup> <sub>0</sub> ( to 1000)                                                                                                     |     |       |                         | <sup>+2.5</sup> <sub>0</sub> ( to 3000) |     | <sup>+3.0</sup> <sub>0</sub> ( to 5000) |                      |       |      |
| Working piston speed mm/s  |                       | 50 to 2000 (standard piping) (*1)                                                                                                           |     |       |                         |                                         |     |                                         |                      |       |      |
| Cushion                    |                       | Air cushion                                                                                                                                 |     |       |                         |                                         |     |                                         |                      |       |      |
| Lubrication                |                       | Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication. Once lubricated, the cylinder will need periodic lubrication.) |     |       |                         |                                         |     |                                         |                      |       |      |
| Position locking mechanism |                       | Attached to R side of cover                                                                                                                 |     |       |                         |                                         |     |                                         |                      |       |      |
| Holding force N            |                       | Max. thrust x 0.7                                                                                                                           |     |       |                         |                                         |     |                                         |                      |       |      |

- \*1: (1) When the piston moves at 500 to 2000 mm/s, reduce the speed when entering the position locking mechanism to 500 mm/s or less. For common port piping, the working piston speed varies depending on the stroke length. Contact CKD.  
(2) To reduce the speed, add an external shock absorber or deceleration circuit.  
(3) Apply grease regularly to the sliding part of the lock lever.

## Allowable absorbed energy

| Bore size (mm) | Cushioned               |                     | Without cushion         | With shock absorber (initial set point) |                       |
|----------------|-------------------------|---------------------|-------------------------|-----------------------------------------|-----------------------|
|                | Max absorbed energy (J) | Cushion stroke (mm) | Max absorbed energy (J) | Absorbed energy (J)                     | Effective stroke (mm) |
| ø12 or equiv.  | 0.03                    | 14.5                | 0.003                   | 2.4                                     | 5.5                   |
| ø16 or equiv.  | 0.22                    | 19.2                | 0.007                   | 2.4                                     | 5.5                   |
| ø20 or equiv.  | 0.59                    | 22.2                | 0.010                   | 5.7                                     | 7                     |
| ø25 or equiv.  | 1.40                    | 20.9                | 0.015                   | 10                                      | 9                     |
| ø32 or equiv.  | 2.57                    | 23.5                | 0.030                   | 18                                      | 13                    |
| ø40 or equiv.  | 4.27                    | 23.9                | 0.050                   | 50                                      | 16.5                  |
| ø50 or equiv.  | 9.13                    | 24.9                | 0.072                   | 86                                      | 21                    |
| ø63 or equiv.  | 17.4                    | 29.6                | 0.138                   | 86                                      | 21                    |
| ø80 or equiv.  | 40                      | 45.8                | 0.393                   | 143                                     | 25                    |
| ø100 or equiv. | 67                      | 45.8                | 0.622                   | 143                                     | 25                    |

## Stroke length

| Bore size (mm) | Standard stroke length (mm)                      | Max. stroke length (mm) | Min. stroke length (mm) |
|----------------|--------------------------------------------------|-------------------------|-------------------------|
| ø12 equiv.     | 200/300<br>400/500<br>600/700<br>800/900<br>1000 | 5000                    | 5                       |
| ø16 equiv.     |                                                  |                         |                         |
| ø20 equiv.     |                                                  |                         |                         |
| ø25 equiv.     |                                                  |                         |                         |
| ø32 equiv.     |                                                  |                         |                         |
| ø40 equiv.     |                                                  |                         |                         |
| ø50 equiv.     |                                                  |                         |                         |
| ø63 equiv.     |                                                  |                         |                         |
| ø80 equiv.     |                                                  |                         |                         |
| ø100 equiv.    |                                                  |                         |                         |

## Number of installed M type switches and min. stroke length (mm)

\* The custom stroke length is available in 1 mm increments.

| Switch quantity  | 1   |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Switch model No. | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H |
| Bore size (mm)   |     |     |     |     |     |     |     |     |     |     |     |     |
| ø12 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø16 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø20 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø25 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø32 or equiv.    | 10  | 10  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø40 or equiv.    | 10  | 10  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø50 or equiv.    | 15  | 15  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø63 or equiv.    | 15  | 15  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø80 or equiv.    | 25  |     | 50  |     | 100 |     | 150 |     | 200 |     | 250 |     |
| ø100 or equiv.   | 25  |     | 50  |     | 100 |     | 150 |     | 200 |     | 250 |     |

## Number of installed T type switches and min. stroke length (mm)

| Switch quantity  | 1   |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Switch model No. | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H |
| Bore size (mm)   |     |     |     |     |     |     |     |     |     |     |     |     |
| ø12 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø16 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø20 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø25 or equiv.    | 10  | 10  | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø32 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø40 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø50 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø63 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø80 or equiv.    | 15  | 15  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø100 or equiv.   | 15  | 15  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |



Be sure to read the Safety Precautions for (Position locking) on pages 1639 and 1642 to 1644 before use.

## Switch specifications (M type switch)

## ● 1-color/2-color display

| Item                 | Proximity 2-wire                      |                             | Proximity 3-wire                                                       |                              |                             |
|----------------------|---------------------------------------|-----------------------------|------------------------------------------------------------------------|------------------------------|-----------------------------|
|                      | M2V,M2H                               | M2WV<br>(2-color display)   | M3H/M3V                                                                | M3PH/M3PV<br>(made to order) | M3WV                        |
| Applications         | Dedicated for programmable controller |                             | For programmable controller, relay, IC circuit, compact solenoid valve |                              |                             |
| Output method        | -                                     |                             | NPN output                                                             | PNP output                   | NPN output                  |
| Power supply voltage | -                                     |                             | 4.5 to 28 VDC                                                          |                              | 10 to 28 VDC                |
| Load voltage         | 10 to 30 VDC                          |                             | 30 VDC or less                                                         |                              |                             |
| Load current         | 5 to 30 mA                            |                             | 100 mA or less                                                         | 100 mA or less               | 100 mA or less              |
| Indicator lamp       | LED (Lit when ON)                     | Red/green LED (Lit when ON) | LED (Lit when ON)                                                      | Yellow LED (Lit when ON)     | Red/green LED (Lit when ON) |
| Leakage current      | 1 mA or less                          |                             | 10 μA or less                                                          | 0.05 mA or less              | 10 μA or less               |
| Weight               | g 1 m:22 3 m:57 5 m:93                |                             |                                                                        |                              |                             |

| Item                 | Reed 2-wire                        |            |                                                                                            |  |
|----------------------|------------------------------------|------------|--------------------------------------------------------------------------------------------|--|
|                      | M0V,M0H                            |            | M5V,M5H                                                                                    |  |
| Applications         | For programmable controller, relay |            | For programmable controller, relay, IC circuit (without indicator lamp), serial connection |  |
| Power supply voltage | -                                  |            | -                                                                                          |  |
| Load voltage         | 12/24 VDC                          | 110 VAC    | 5/12/24 VDC 110 VAC or less                                                                |  |
| Load current         | 5 to 50 mA                         | 7 to 20 mA | 50 mA or less 20 mA or less                                                                |  |
| Indicator lamp       | LED (Lit when ON)                  |            | Without indicator lamp                                                                     |  |
| Leakage current      | 0 mA                               |            |                                                                                            |  |
| Weight               | g 1 m:22 3 m:57 5 m:93             |            |                                                                                            |  |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

## Switch specifications (T type switch)

## ● 2-color display

| Item                 | Proximity 2-wire                      |                                | Proximity 3-wire                   |                                |
|----------------------|---------------------------------------|--------------------------------|------------------------------------|--------------------------------|
|                      | T2YH/T2YV                             | T2WH/T2WV                      | T3YH/T3YV                          | T3WH/T3WV                      |
| Applications         | Dedicated for programmable controller |                                | For programmable controller, relay |                                |
| Output method        | -                                     |                                | NPN output                         | NPN output                     |
| Power supply voltage | -                                     |                                | 10 to 28 VDC                       |                                |
| Load voltage         | 10 to 30 VDC                          | 24 VDC ±10%                    | 30 VDC or less                     |                                |
| Load current         | 5 to 20 mA                            |                                | 50 mA or less                      |                                |
| Indicator lamp       | Red/green LED<br>(Lit when ON)        | Red/green LED<br>(Lit when ON) | Red/green LED<br>(Lit when ON)     | Red/green LED<br>(Lit when ON) |
| Leakage current      | 1 mA or less                          |                                | 10 µA or less                      |                                |
| Weight               | g 1 m:33 3 m:87 5 m:142               |                                | 1 m:33 3 m:87 5 m:142              |                                |
|                      | 1 m:18 3 m:49 5 m:80                  |                                | 1 m:18 3 m:49 5 m:80               |                                |

## ● For AC magnetic field

| Item                  | Proximity 2-wire                      |      |
|-----------------------|---------------------------------------|------|
|                       | T2YD,T2YDT                            | (*4) |
| Applications          | Dedicated for programmable controller |      |
| Indicator lamp        | Red/green LED (Lit when ON)           |      |
| Load voltage          | 24 VDC ±10%                           |      |
| Load current          | 5 to 20 mA                            |      |
| Internal voltage drop | 6V or less                            |      |
| Leakage current       | 1.0 mA or less                        |      |
| Weight                | g 1 m:61 3 m:166 5 m:272              |      |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2: Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3: The max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*4: AC magnetic field proof switch (T2YD/T2YDT) cannot be used in DC magnetic field.

## Cylinder weight

Unit: kg

| Bore size (mm) | Weight for 0 mm stroke length |      |       | Mounting bracket weight                                     |        | Additional weight<br>per St = 100mm |        |
|----------------|-------------------------------|------|-------|-------------------------------------------------------------|--------|-------------------------------------|--------|
|                | Basic<br>(00)                 | Foot |       | Switch weight                                               | T type |                                     | M type |
|                |                               | (LB) | (LB1) |                                                             |        |                                     |        |
| ø12 or equiv.  | 0.38                          | 0.39 | 0.40  | Refer to the weight<br><br>in the switch<br>specifications. | 0.005  | 0.001                               | 0.10   |
| ø16 or equiv.  | 0.47                          | 0.48 | 0.50  |                                                             |        |                                     | 0.13   |
| ø20 or equiv.  | 0.74                          | 0.76 | 0.80  |                                                             |        |                                     | 0.18   |
| ø25 or equiv.  | 1.5                           | 1.6  | 1.6   |                                                             |        |                                     | 0.28   |
| ø32 or equiv.  | 2.4                           | 2.5  | 2.6   |                                                             |        |                                     | 0.36   |
| ø40 or equiv.  | 3.6                           | 3.7  | -     |                                                             |        |                                     | 0.53   |
| ø50 or equiv.  | 6.0                           | 6.1  | -     |                                                             |        |                                     | 0.75   |
| ø63 or equiv.  | 8.8                           | 9.1  | -     |                                                             |        |                                     | 1.11   |
| ø80 or equiv.  | 22.4                          | 23.0 | -     |                                                             |        |                                     | 2.32   |
| ø100 or equiv. | 30.5                          | 31.5 | -     |                                                             |        |                                     | 3.38   |

Refer to the weight  
in the switch  
specifications.

# SRL3-Q Series

## How to order

Without switch (built-in magnet for switch)

**SRL3-Q-00-12B-200-B**

With switch (built-in magnet for switch)

**SRL3-Q-00-12B-200-M0H-R-B**

**A** Mounting  
\*1, \*2

**B** Bore size

**C** Port thread

**D** Cushion

**E** Stroke length

**F** Switch model No.

\*4

**G** Switch quantity

**H** Option

\*5, \*6

\*7, \*8

\*9, \*10

## ⚠ Precautions for model No. selection

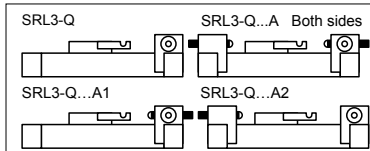
\*1 : Mounting bracket will be shipped assembled with the product.

\*2 : For 12, 16, 20, 25 and 32 bore sizes with option code "R" or "T", the mounting will be "00" or "LB1". (Piping with "LB" is not possible for option codes "R" and "T".)

\*3 : Refer to page 1604 for the min. stroke length with switch.

\*4 : Switches other than (F) Switch model No. are also available. (Made to order) Refer to Ending Page 1 for details.

\*5 : The full stroke length adjusting bracket on R side is provided as standard for the position locking. Therefore, if "A1" is selected, a shock absorber only is added to R side. In the case of "A", R side is position locking and full stroke length adjustable with shock absorber, and L side is full stroke length adjustable with shock absorber. (Figure below)



\*6 : "\*" of L\* and N\* indicates the number of sets. When more than one set are necessary, specify "L2" (for LB) or "N2" (for LB1).

2 pcs./set

\*7 : For the port and cushion needle position codes, refer to dimensions on pages 1582 to 1587.

\*8 : In the case of the standard with ø12 to ø25, remove the cover, attach a flat nut and install the full stroke length adjusting bracket. A flat nut is attached to option "A3" to enable retrofitting the full stroke length adjusting bracket without removing the cover.

\*9 : In "H", the thread size for ø12 and ø16 will be "M4" and that for ø20 will be "M5".

\*10 : Check the option combinations in "Option selection table" on the next page.

\*11 : Copper and PTFE free as standard. (except for type with shock absorber)

## [Example of model No.]

**SRL3-Q-00-12B-200-M0H-R-B**

Model: Rodless cylinder position locking

**A** Mounting : Basic

**B** Bore size : ø12 mm

**C** Port thread : M5

**D** Cushion : Both sides cushioned

**E** Stroke length : 200 mm

**F** Switch model No. : Reed M0H switch, lead wire 1 m

**G** Switch quantity : 1 on R side

**H** Option : Port position F, cushion needle position B

| Code                 | Description                                                        |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
|----------------------|--------------------------------------------------------------------|----------------------|-------------------------|----------------|---------------------------------------|--------|--------|----|----|----|-----|---|---|
| A Mounting           |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 00                   | Basic                                                              |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| LB                   | Axial foot                                                         |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| LB1                  | Axial foot (ø12 to ø32 only)                                       |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| B Bore size (mm)     |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 12                   | ø12                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 16                   | ø16                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 20                   | ø20                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 25                   | ø25                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 32                   | ø32                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 40                   | ø40                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 50                   | ø50                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 63                   | ø63                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 80                   | ø80                                                                |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 100                  | ø100                                                               |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| C Port thread        |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| Blank                | Rc thread (M5 for ø12 and ø16)                                     |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| N                    | NPT thread (ø20 or more) (made-to-order product)                   |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| G                    | G thread (ø20 or more) (made-to-order product)                     |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| D Cushion            |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| B                    | Both sides cushioned                                               |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| R                    | R side cushioned                                                   |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| L                    | L side cushioned                                                   |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| N                    | Without cushion                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| E Stroke length (mm) |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| Bore size            | Stroke length *3                                                   | Custom stroke length |                         |                |                                       |        |        |    |    |    |     |   |   |
| ø12 to ø100          | 5 to 5000                                                          | In 1 mm increments   |                         |                |                                       |        |        |    |    |    |     |   |   |
| F Switch model No.   |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| Axial lead wire      | Radial lead wire                                                   | Contact              | Voltage AC DC           | Indicator lamp | Lead wire                             |        |        |    |    |    |     |   |   |
| M0H*                 | M0V*                                                               | Reed                 | ●                       | ●              | 1-color display                       | 2-wire |        |    |    |    |     |   |   |
| M5H*                 | M5V*                                                               |                      | ●                       | ●              | Without indicator lamp                |        |        |    |    |    |     |   |   |
| M2H*                 | M2V*                                                               |                      |                         | ●              | 1-color display                       |        |        |    |    |    |     |   |   |
| -                    | M2WV*                                                              | Proximity            |                         | ●              | 2-color display                       | 2-wire |        |    |    |    |     |   |   |
| M3H*                 | M3V*                                                               |                      |                         | ●              | 1-color display                       |        |        |    |    |    |     |   |   |
| -                    | M3WV*                                                              |                      |                         | ●              | 2-color display                       | 3-wire |        |    |    |    |     |   |   |
| M3PH*                | M3PV*                                                              |                      |                         | ●              | 1-color display (custom)              |        | 3-wire |    |    |    |     |   |   |
| T2WH*                | T2WV*                                                              |                      |                         | ●              | 2-color display                       | 2-wire |        |    |    |    |     |   |   |
| T2YH*                | T2YV*                                                              |                      |                         | ●              |                                       |        |        |    |    |    |     |   |   |
| T3WH*                | T3WV*                                                              |                      |                         | ●              |                                       |        |        |    |    |    |     |   |   |
| T3YH*                | T3YV*                                                              |                      |                         | ●              | 2-color display for AC magnetic field | 2-wire |        |    |    |    |     |   |   |
| T2YD*                | -                                                                  |                      |                         | ●              |                                       |        |        |    |    |    |     |   |   |
| T2YDT*               | -                                                                  |                      |                         | ●              |                                       |        |        |    |    |    |     |   |   |
| * Lead wire length   |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| Blank                | 1 m (standard)                                                     |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 3                    | 3 m (option)                                                       |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 5                    | 5 m (option)                                                       |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| G Switch quantity    |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| R                    | 1 on R side                                                        |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| L                    | 1 on L side                                                        |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| D                    | 2                                                                  |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| T                    | 3                                                                  |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| 4                    | 4 (when there are more than 4 switches, indicate switch quantity.) |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| H Option             |                                                                    |                      |                         |                |                                       |        |        |    |    |    |     |   |   |
| Bore size (ø)        |                                                                    | 12                   | 16                      | 20             | 25                                    | 32     | 40     | 50 | 63 | 80 | 100 |   |   |
| A                    | Both-sides full stroke adjustable, shock absorber                  |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| A1                   | R side full stroke adjustable, shock absorber                      |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| A2                   | L side full stroke adjustable, shock absorber                      |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| A3                   | Full stroke adjustable, adjusting bracket to be added              |                      | ●                       | ●              | ●                                     | ●      |        |    |    |    |     |   |   |
| Y                    | Floating fitting                                                   |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| Y1                   | Thin floating fitting                                              |                      | ●                       | ●              | ●                                     | ●      |        |    |    |    |     |   |   |
| L*                   | Intermediate support bracket (for 00, LB)                          |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| N*                   | Intermediate support bracket (for LB1)                             |                      | ●                       | ●              | ●                                     | ●      | ●      |    |    |    |     |   |   |
| H                    | Larger thread for table installation                               |                      | ●                       | ●              | ●                                     |        |        |    |    |    |     |   |   |
| U                    | Height adjustment plate                                            |                      | ●                       | ●              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| Blank                | Port position                                                      | F (Standard)         | Cushion needle position | F (Standard)   | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   |   |   |
| R                    |                                                                    | R (Common port)      |                         | F              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   | ● |   |
| B                    |                                                                    | F                    |                         | B              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   | ● |   |
| T                    |                                                                    | R (Common port)      |                         | B              | ●                                     | ●      | ●      | ●  | ●  | ●  | ●   | ● |   |
| D                    |                                                                    | D                    |                         | F              |                                       |        |        | ●  | ●  | ●  | ●   | ● |   |
| S                    |                                                                    | D                    |                         | D              |                                       |        |        |    | ●  | ●  | ●   | ● | ● |
| X                    |                                                                    | F (Common port)      |                         | F              |                                       |        |        |    |    |    |     | ● | ● |

## Option selection table

● : Available    ■ : Not available

| Option | Option |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  |                                                                        |
|--------|--------|--|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|------------------------------------------------------------------------|
|        | Code   |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  |                                                                        |
|        | A      |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  | Both side full stroke length adjustable, with shock absorber           |
|        | A1     |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  | R side full stroke length adjustable, with shock absorber              |
|        | A2     |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  | L side full stroke length adjustable, with shock absorber              |
|        | A3     |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  | Full stroke length adjustable with adjusting bracket to be added later |
|        | Y      |  |  |  |  | ● |  |  |   |  |  |  |  |  |  |  |  | Floating fitting                                                       |
|        | Y1     |  |  |  |  | ● |  |  |   |  |  |  |  |  |  |  |  | Thin floating fitting                                                  |
|        | L*     |  |  |  |  | ● |  |  |   |  |  |  |  |  |  |  |  | Intermediate support bracket (for 00, LB)                              |
|        | N*     |  |  |  |  | ● |  |  |   |  |  |  |  |  |  |  |  | Intermediate support bracket (for LB1)                                 |
|        | H      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Larger thread for table installation                                   |
|        | U      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Height adjustment plate                                                |
|        | Blank  |  |  |  |  |   |  |  |   |  |  |  |  |  |  |  |  | Port position F, cushion needle position F (standard)                  |
|        | R      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position R, cushion needle position F (common port)               |
|        | B      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position F, cushion needle position B                             |
|        | T      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position R, cushion needle position B (common port)               |
|        | D      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position D, cushion needle position F                             |
|        | S      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position D, cushion needle position D                             |
|        | X      |  |  |  |  |   |  |  | ● |  |  |  |  |  |  |  |  | Port position F, cushion needle position F (common port)               |

## Specifications for rechargeable battery (Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

SRL3 - Q - ..... - P4\*

\*1: Some combinations are not available depending on the bore size. Be sure to check the (H) Option in "How to order" on the previous page.

\*2: LB1 with port position D is not possible. (ø25, ø32)

## Theoretical thrust table

(Unit: N)

| Bore size (mm) | Operating direction | Working pressure MPa |                    |                    |                    |                    |                    |                    |                    |
|----------------|---------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                |                     | 0.1                  | 0.15               | 0.2                | 0.3                | 0.4                | 0.5                | 0.6                | 0.7                |
| ø12            | Push/Pull           | -                    | -                  | 27.7               | 41.5               | 55.3               | 69.1               | 83.0               | 96.8               |
| ø16            | Push/Pull           | -                    | -                  | 43.2               | 64.8               | 86.4               | $1.08 \times 10^2$ | $1.30 \times 10^2$ | $1.51 \times 10^2$ |
| ø20            | Push/Pull           | -                    | -                  | 62.9               | 94.4               | $1.26 \times 10^2$ | $1.57 \times 10^2$ | $1.89 \times 10^2$ | $2.20 \times 10^2$ |
| ø25            | Push/Pull           | -                    | 81.4               | $1.08 \times 10^2$ | $1.63 \times 10^2$ | $2.17 \times 10^2$ | $2.71 \times 10^2$ | $3.25 \times 10^2$ | $3.80 \times 10^2$ |
| ø32            | Push/Pull           | -                    | $1.22 \times 10^2$ | $1.63 \times 10^2$ | $2.44 \times 10^2$ | $3.26 \times 10^2$ | $4.07 \times 10^2$ | $4.88 \times 10^2$ | $5.70 \times 10^2$ |
| ø40            | Push/Pull           | -                    | $1.90 \times 10^2$ | $2.53 \times 10^2$ | $3.80 \times 10^2$ | $5.06 \times 10^2$ | $6.33 \times 10^2$ | $7.60 \times 10^2$ | $8.86 \times 10^2$ |
| ø50            | Push/Pull           | -                    | $2.98 \times 10^2$ | $3.98 \times 10^2$ | $5.96 \times 10^2$ | $7.95 \times 10^2$ | $9.94 \times 10^2$ | $1.19 \times 10^3$ | $1.39 \times 10^3$ |
| ø63            | Push/Pull           | $3.14 \times 10^2$   | $4.70 \times 10^2$ | $6.27 \times 10^2$ | $9.41 \times 10^2$ | $1.25 \times 10^3$ | $1.57 \times 10^3$ | $1.88 \times 10^3$ | $2.20 \times 10^3$ |
| ø80            | Push/Pull           | $5.06 \times 10^2$   | $7.60 \times 10^2$ | $1.01 \times 10^3$ | $1.52 \times 10^3$ | $2.03 \times 10^3$ | $2.53 \times 10^3$ | $3.04 \times 10^3$ | $3.54 \times 10^3$ |
| ø100           | Push/Pull           | $7.91 \times 10^2$   | $1.19 \times 10^3$ | $1.58 \times 10^3$ | $2.37 \times 10^3$ | $3.16 \times 10^3$ | $3.95 \times 10^3$ | $4.74 \times 10^3$ | $5.53 \times 10^3$ |

## How to order switch (For configurations, refer to pages 1624 to 1626)

- Switch body + mounting bracket set (\*1)

**SRL3 - M0H\***

Switch model No.  
(Item ⑤ on page 1606)

- Switch body only

**SW - M0H\***

Switch model No.  
(Item ⑤ on page 1606)

### \* Lead wire length

| Blank | 1 m (standard) |
|-------|----------------|
| 3     | 3 m (option)   |
| 5     | 5 m (option)   |

\* indicates lead wire length.

- Mounting bracket set (\*2)

· M type switch

**SRL3 - M**

· T type switch

**SRL3 - T**

- Lead wire holder (\*3)

**SRL3 - MH**

\*1: "Switch body + mounting bracket set" does not include lead wire holders. Order lead wire holders separately if necessary.

\*2: The mounting bracket is different between the M type switch and T type switch.

\*3: The quantity of lead wire holders per set is 10.

- How to order discrete shock absorber

**SRL3 - 40 - NCK**

Bore size  
(Item ⑤ on page 1606)

(One shock absorber, one shock absorber fixing hexagon nut)

(Note) The shock absorber fixing hexagon nut for SRL3-40 is a made-to-order product.

Applicable shock absorber model No.

| Model    | Shock absorber model No. |
|----------|--------------------------|
| SRL3-12  | NCK-00-0.3-C             |
| SRL3-16  | NCK-00-0.3-C             |
| SRL3-20  | NCK-00-0.7-C             |
| SRL3-25  | NCK-00-1.2               |
| SRL3-32  | NCK-00-2.6               |
| SRL3-40  | NCK-00-7                 |
| SRL3-50  | NCK-00-12                |
| SRL3-63  | NCK-00-12                |
| SRL3-80  | NCK-00-20                |
| SRL3-100 | NCK-00-20                |

- How to order floating fitting set

**SRL3 - 40 - Y**

Bore size  
(Item ⑤ on page 1606)

(Mount, mount base, pin, plain washer, pan head machine screw with spring washer)

- How to order discrete intermediate support bracket

For 00/LB

**SRL3 - 40 - L (2/set)**

Bore size  
(Item ⑤ on page 1606)

For LB1

**SRL3 - 32 - N (2/set)**

Bore size  
(Item ⑤ on page 1606)

- How to order full stroke length adjusting bracket kit

**SRL3 - 40 - A1 (1 set)**

Bore size  
(Item ⑤ on page 1606)

(For configurations, refer to "Full stroke length adjusting bracket kit" on page 1625.)

- How to order repair parts

**SRL3-Q - 40 K - 200**

Bore size  
(Item ⑤ on page 1606) Stroke length  
(Item ⑤ on page 1606)

- How to order mounting bracket

**SRL3 - LB - 40**

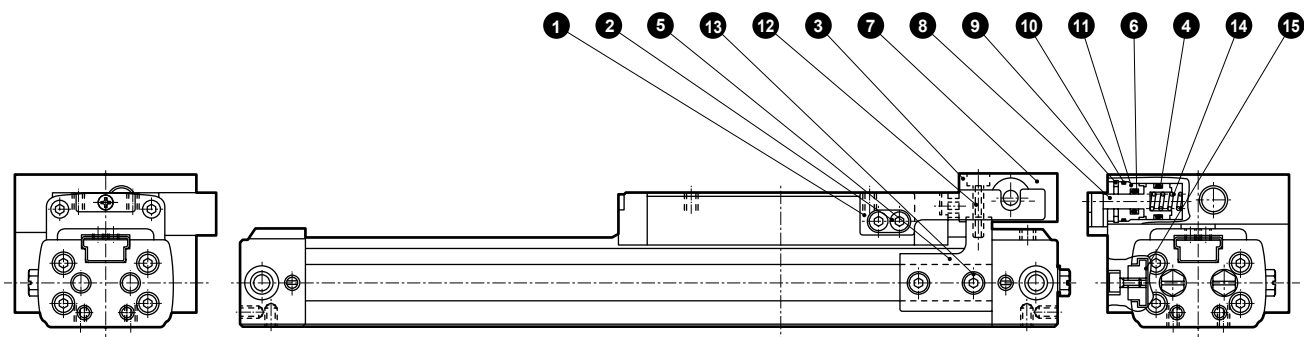
Mounting  
(Item ⑤ on page 1606) Bore size  
(Item ⑤ on page 1606)  
(Bracket x2, mounting bolt x4)

- How to order height adjustment plate set

**SRL3 - 40 - U**

Bore size  
(Item ⑤ on page 1606)  
(Plate, mounting bolt x4)

### Internal structure and parts list (ø12 to ø25 equiv.)



### Parts list

| No. | Part name                     | Material       | Remarks        | No. | Part name                     | Material       | Remarks           |
|-----|-------------------------------|----------------|----------------|-----|-------------------------------|----------------|-------------------|
| 1   | Lock lever                    | Alloy steel    | Chrome plating | 9   | C type snap ring for hole     | Steel          |                   |
| 2   | Hexagon socket head cap screw | Alloy steel    | Zinc chromate  | 10  | Gasket                        | Nitrile rubber |                   |
| 3   | Stopper                       | Steel          | Black finish   | 11  | Rod cover                     | Aluminum alloy | Alumite           |
| 4   | Piston packing                | Nitrile rubber |                | 12  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate     |
| 5   | Adaptor                       | Steel          | Zinc chromate  | 13  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate     |
| 6   | Rod packing                   | Nitrile rubber |                | 14  | Spring                        | Steel          | Electrodeposition |
| 7   | Position locking mechanism    | Aluminum alloy | Alumite        | 15  | Flat nut                      | Alloy steel    | Black finish      |
| 8   | Lock pin (stopper piston)     | Alloy steel    | Chrome plating |     |                               |                |                   |

### Repair parts list

| Bore size (mm) | Kit No.      | Repair parts No.                                                                                          |
|----------------|--------------|-----------------------------------------------------------------------------------------------------------|
| ø12 or equiv.  | SRL3-Q-12K-* |                                                                                                           |
| ø16 or equiv.  | SRL3-Q-16K-* | <div> <div>4</div> <div>6</div> <div>10</div> </div> <div> <div>8</div> <div>9</div> <div>18</div> </div> |
| ø20 or equiv.  | SRL3-Q-20K-* | <div> <div>21</div> <div>22</div> <div>26</div> </div> <div> <div>27</div> <div>28</div> </div>           |
| ø25 or equiv.  | SRL3-Q-25K-* |                                                                                                           |

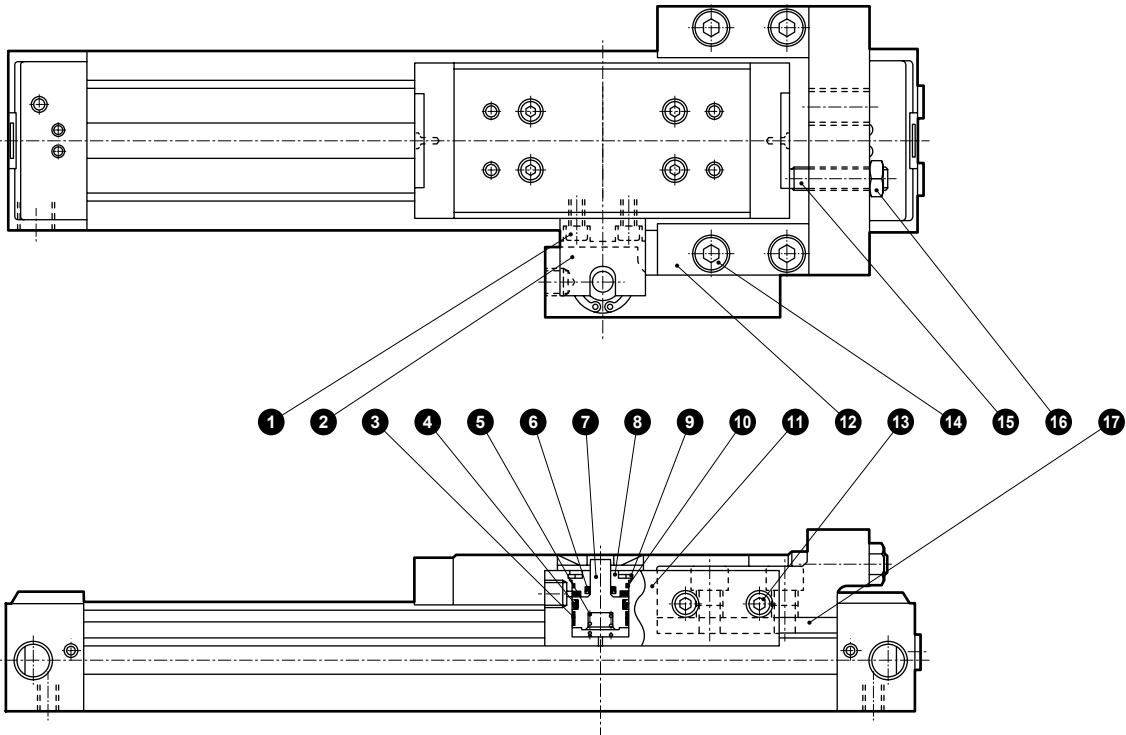
\*1 : Specify the kit No. when placing an order. Specify the stroke length for \*.

\*2: Part numbers (8)(9)(18)(21)(22)(26)(27)(28) are the same as those on page 1579.

SCP\*3  
CMK2  
CMA2  
SCM  
SCG  
SCA2  
SCS2  
CKV2  
CAV2/  
COVP/IN2  
SSD2  
SSG  
SSD  
CAT  
MDC2  
MVC  
SMG  
MSD/  
MSDG  
FC\*  
STK  
SRL3  
SRG3  
SRM3  
SRT3  
MRL2  
MRG2  
SM-25  
ShkAbs  
FJ  
FK  
Spd  
Contr  
Ending

# SRL3-Q Series

## Internal structure and parts list (ø32 to ø63 equiv.)



### Parts list

| No. | Part name                     | Material       | Remarks           | No. | Part name                     | Material       | Remarks       |
|-----|-------------------------------|----------------|-------------------|-----|-------------------------------|----------------|---------------|
| 1   | Hexagon socket head cap screw | Alloy steel    | Zinc chromate     | 10  | Gasket                        | Nitrile rubber |               |
| 2   | Lock lever                    | Alloy steel    | Zinc chromate     | 11  | Position locking mechanism    | Aluminum alloy | Alumite       |
| 3   | Wear ring                     | Acetal resin   |                   | 12  | Adaptor                       | Steel          | Zinc chromate |
| 4   | Piston packing                | Nitrile rubber |                   | 13  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate |
| 5   | Spring                        | Steel          | Electrodeposition | 14  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate |
| 6   | Rod packing                   | Nitrile rubber |                   | 15  | Hexagon socket set screw      | Alloy steel    | Zinc chromate |
| 7   | Lock pin                      | Alloy steel    | Chrome plating    | 16  | Hexagon nut                   | Steel          | Zinc chromate |
| 8   | Rod cover                     | Aluminum alloy | Alumite           | 17  | Adaptor nut                   | Alloy steel    | Zinc chromate |
| 9   | C type snap ring for hole     | Steel          |                   |     |                               |                |               |

### Repair parts list

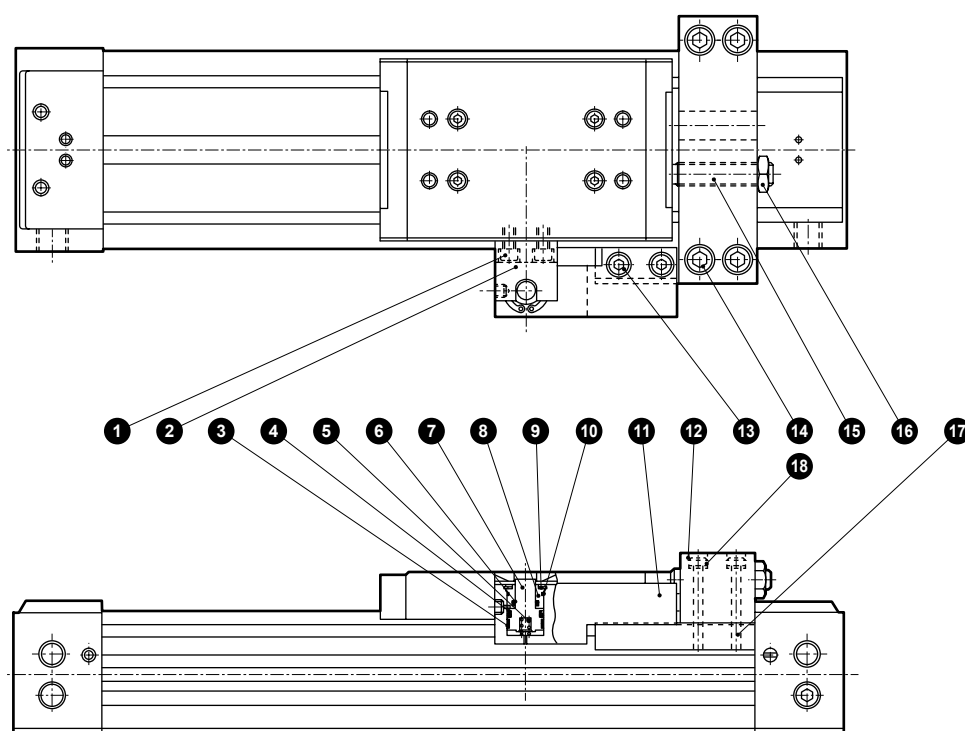
| Bore size (mm) | Kit No.      | Repair parts No. |
|----------------|--------------|------------------|
| ø32 or equiv.  | SRL3-Q-32K-* | 3 4 6            |
| ø40 or equiv.  | SRL3-Q-40K-* | 10 8 9           |
|                |              | 18 21 22         |
| ø50 or equiv.  | SRL3-Q-50K-* | 26 27 28         |
|                |              | (32) *3          |
| ø63 or equiv.  | SRL3-Q-63K-* |                  |

\*1 : Specify the kit No. when placing an order. Specify the stroke length for \*.

\*2 : Part numbers (8)(9)(18)(21)(22)(26)(27)(28)(32) are the same as those on pages 1579 and 1580.

\*3 : (32) is only applicable to ø50 equiv./ø63 equiv.

## Internal structure and parts list (ø80, ø100 equiv.)



## Parts list

| No. | Part name                     | Material       | Remarks           | No. | Part name                     | Material       | Remarks       |
|-----|-------------------------------|----------------|-------------------|-----|-------------------------------|----------------|---------------|
| 1   | Hexagon socket head cap screw | Alloy steel    | Zinc chromate     | 10  | Gasket                        | Nitrile rubber |               |
| 2   | Lock lever                    | Alloy steel    | Zinc chromate     | 11  | Position locking mechanism    | Aluminum alloy | Alumite       |
| 3   | Wear ring                     | Acetal resin   |                   | 12  | Adaptor                       | Steel          | Zinc chromate |
| 4   | Piston packing                | Nitrile rubber |                   | 13  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate |
| 5   | Spring                        | Steel          | Electrodeposition | 14  | Hexagon socket head cap screw | Alloy steel    | Zinc chromate |
| 6   | Rod packing                   | Nitrile rubber |                   | 15  | Hexagon socket set screw      | Alloy steel    | Zinc chromate |
| 7   | Lock pin                      | Alloy steel    | Chrome plating    | 16  | Hexagon nut                   | Steel          | Zinc chromate |
| 8   | Rod cover                     | Aluminum alloy | Alumite           | 17  | Adaptor nut                   | Alloy steel    | Zinc chromate |
| 9   | C type snap ring for hole     | Steel          |                   | 18  | Conical spring washer         | Steel          |               |

## Repair parts list

| Bore size (mm) | Kit No.       | Repair parts No.                                 |
|----------------|---------------|--------------------------------------------------|
| ø80 or equiv.  | SRL3-Q-80K-*  | 3 4 6 10<br>8 9 18 21<br>22 26 27 28<br>29 32 33 |
| ø100 or equiv. | SRL3-Q-100K-* |                                                  |

\*1 : Specify the kit No. when placing an order. Specify the stroke length for \*.

\*2: Part numbers (8)(9)(18)(21)(22)(26)(27)(28)(29)(32)(33) are the same as those on page 1581.

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd  
Contr

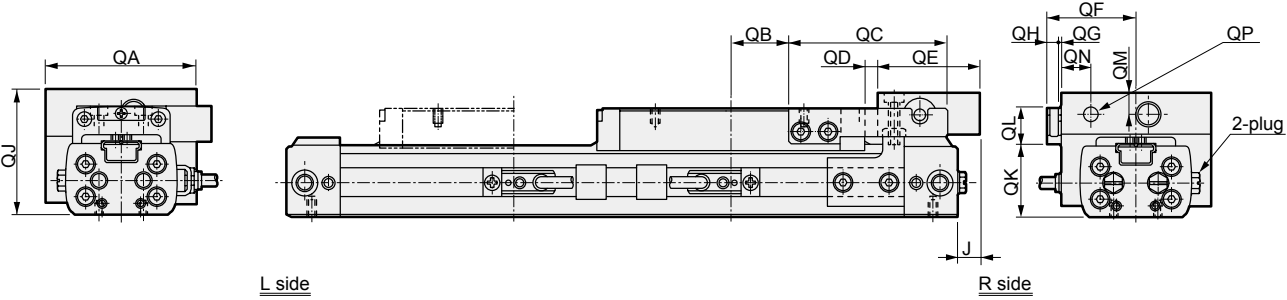
Ending

# SRL3-Q Series

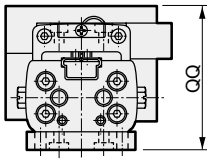
SCP\*3  
CMK2  
CMA2  
SCM  
SCG  
SCA2  
SCS2  
CKV2  
CAV2/  
COVPIN2  
SSD2  
SSG  
SSD  
CAT  
MDC2  
MVC  
SMG  
MSD/  
MSDG  
FC\*  
STK  
SRL3  
SRG3  
SRM3  
SRT3  
MRL2  
MRG2  
SM-25  
ShkAbs  
FJ  
FK  
Spd  
Contr  
Ending

Dimensions (ø12 to ø25 equiv.)  \*1: For dimensions other than those below, refer to pages 1582 to 1585.  
\*2: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

● SRL3-Q



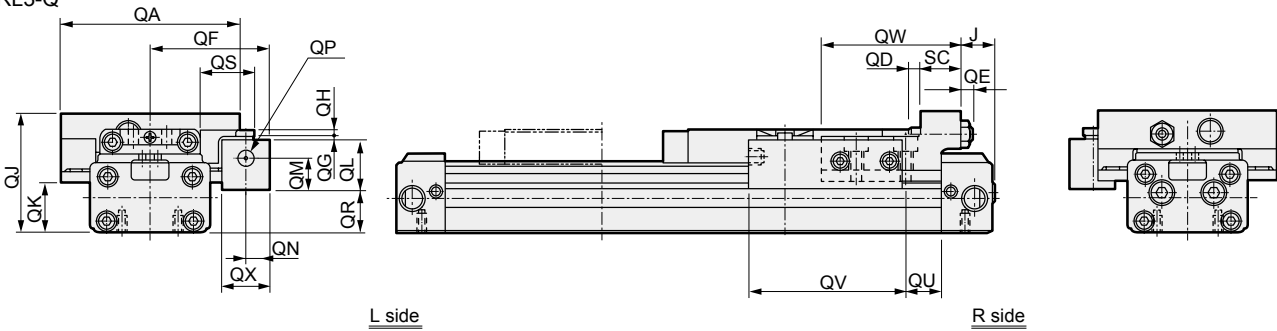
● With foot bracket SRL3-Q-LB1-\*\*-\*\*\*



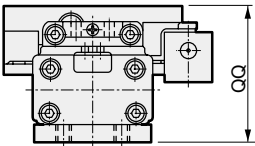
| Code           | J   | QA | QB | QC   | QD  | QE | QF   | QG | QH | QJ   | QK   | QL   | QM | QN   | QP    | QQ   |
|----------------|-----|----|----|------|-----|----|------|----|----|------|------|------|----|------|-------|------|
| Bore size (mm) |     |    |    |      |     |    |      |    |    |      |      |      |    |      |       |      |
| ø12 or equiv.  | 0   | 45 | 19 | 46   | 2.5 | 25 | 27.5 | 1  | 4  | 40   | 21.5 | 12.5 | 7  | 9.5  | M5    | 46   |
| ø16 or equiv.  | 0   | 49 | 19 | 52   | 2.5 | 28 | 29.5 | 1  | 4  | 42   | 25   | 12   | 7  | 9.5  | M5    | 48   |
| ø20 or equiv.  | -1  | 57 | 24 | 53   | 2.5 | 31 | 33.5 | 1  | 4  | 48   | 29   | 13   | 8  | 10.5 | Rc1/8 | 56   |
| ø25 or equiv.  | 5.5 | 77 | 26 | 67.5 | 2.5 | 37 | 43.5 | 1  | 4  | 62.5 | 36   | 17   | 8  | 10.5 | Rc1/8 | 72.5 |

Dimensions (ø32 to ø63 equiv.)  \*1: For dimensions other than those below, refer to pages 1584 and 1585.  
\*2: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

● SRL3-Q



● With foot bracket SRL3-Q-LB1-32-\*\*\*



| Code           | J    | QA  | QD | QE | QF | QG | QH | QJ   | QK | QL   | QM   | QN | QP    | QQ   | QR   | QS | QU   | QV  | QW  | QX | SC |
|----------------|------|-----|----|----|----|----|----|------|----|------|------|----|-------|------|------|----|------|-----|-----|----|----|
| Bore size (mm) |      |     |    |    |    |    |    |      |    |      |      |    |       |      |      |    |      |     |     |    |    |
| ø32 or equiv.  | 19.5 | 98  | 7  | 6  | 65 | 2  | 4  | 66.5 | 28 | 27.5 | 18   | 13 | Rc1/8 | 88.5 | 23.5 | 29 | 21   | 84  | 76  | 26 | 22 |
| ø40 or equiv.  | 11.5 | 112 | 7  | 11 | 72 | 2  | 4  | 78.5 | 34 | 27.5 | 18   | 13 | Rc1/8 | -    | 31.5 | 29 | 27   | 84  | 87  | 26 | 32 |
| ø50 or equiv.  | 9.5  | 136 | 8  | 9  | 84 | 2  | 5  | 99   | 40 | 33   | 21.5 | 15 | Rc1/8 | -    | 42   | 36 | 12.5 | 100 | 102 | 30 | 38 |
| ø63 or equiv.  | 20.5 | 158 | 8  | 14 | 95 | 2  | 5  | 112  | 50 | 33   | 21.5 | 15 | Rc1/8 | -    | 55   | 36 | 31.5 | 100 | 91  | 30 | 38 |

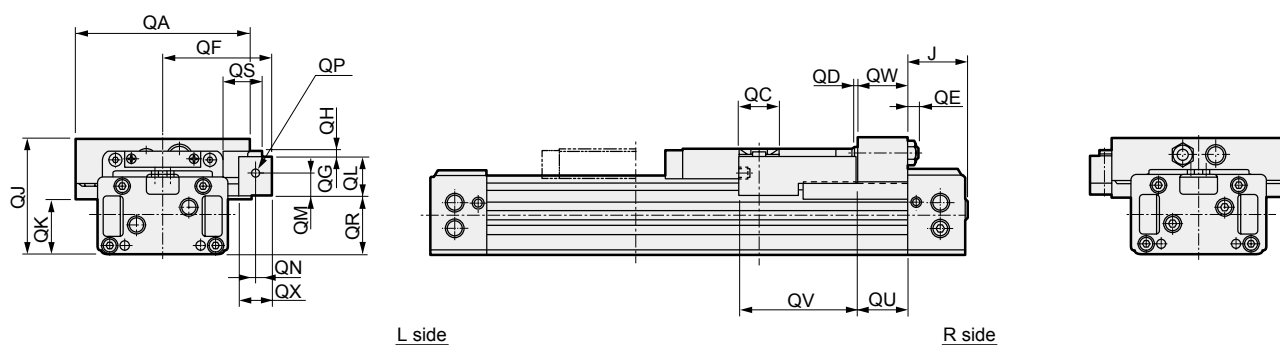
Dimensions (ø80, ø100 equiv.)



\*1: For dimensions other than those below, refer to pages 1586 and 1587.

\*2: For dimensions with options and dimensions of accessories, refer to pages 1588, 1589, 1622 and 1623.

● SRL3-Q



| Code           | J  | QA  | QC | QD | QE | QF  | QG | QH | QJ  | QK | QL   | QM | QN | QP    | QR   | QS | QU | QV  | QW | QX |
|----------------|----|-----|----|----|----|-----|----|----|-----|----|------|----|----|-------|------|----|----|-----|----|----|
| Bore size (mm) |    |     |    |    |    |     |    |    |     |    |      |    |    |       |      |    |    |     |    |    |
| ø80 or equiv.  | 70 | 214 | 50 | 6  | 14 | 133 | 2  | 7  | 145 | 69 | 47.5 | 29 | 20 | Rc1/8 | 73.5 | 48 | 62 | 143 | 60 | 40 |
| ø100 or equiv. | 80 | 250 | 50 | 6  | 14 | 145 | 2  | 7  | 164 | 88 | 47.5 | 29 | 20 | Rc1/8 | 92.5 | 48 | 62 | 148 | 60 | 40 |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/IN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

**SRL3**

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

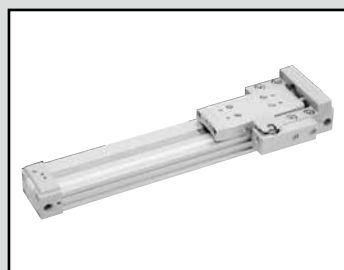
ShkAbs

FJ

FK

Spd  
Contr

Ending

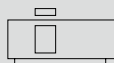


Rodless cylinder double acting/resin guide/position locking

# SRL3-GQ Series

- Bore size: ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

JIS symbol



## Specifications

| Item                         |                       | SRL3-GQ                                                                                                                                     |       |     |                         |     |       |     |                      |     |      |
|------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-------------------------|-----|-------|-----|----------------------|-----|------|
| Bore size           mm       |                       | ø12                                                                                                                                         | ø16   | ø20 | ø25                     | ø32 | ø40   | ø50 | ø63                  | ø80 | ø100 |
| Actuation                    |                       | Double acting                                                                                                                               |       |     |                         |     |       |     |                      |     |      |
| Working fluid                |                       | Compressed air                                                                                                                              |       |     |                         |     |       |     |                      |     |      |
| Max. working pressure   MPa  |                       | 0.7 (≈100 psi, 7 bar)                                                                                                                       |       |     |                         |     |       |     |                      |     |      |
| Min. working pressure   MPa  |                       | 0.25 (≈36 psi, 2.5 bar)                                                                                                                     |       |     | 0.15 (≈22 psi, 1.5 bar) |     |       |     | 0.1 (≈15 psi, 1 bar) |     |      |
| Proof pressure           MPa |                       | 1.05 (≈150 psi, 10.5 bar)                                                                                                                   |       |     |                         |     |       |     |                      |     |      |
| Ambient temperature   °C     |                       | 5 (41°F) to 60 (140°F)                                                                                                                      |       |     |                         |     |       |     |                      |     |      |
| Port size                    | Cylinder              | M5                                                                                                                                          | Rc1/8 |     | Rc1/4                   |     | Rc3/8 |     | Rc1/2                |     |      |
|                              | Position locking part | M5                                                                                                                                          | Rc1/8 |     |                         |     |       |     |                      |     |      |
| Stroke tolerance       mm    |                       | $^{+2.0}_{-0}$ ( to 1000), $^{+2.5}_{-0}$ ( to 3000), $^{+3.0}_{-0}$ ( to 5000)                                                             |       |     |                         |     |       |     |                      |     |      |
| Working piston speed   mm/s  |                       | 50 to 2000 (standard piping) (*1)                                                                                                           |       |     |                         |     |       |     |                      |     |      |
| Cushion                      |                       | Air cushion                                                                                                                                 |       |     |                         |     |       |     |                      |     |      |
| Lubrication                  |                       | Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication. Once lubricated, the cylinder will need periodic lubrication.) |       |     |                         |     |       |     |                      |     |      |
| Position locking mechanism   |                       | Attached to R side of cover                                                                                                                 |       |     |                         |     |       |     |                      |     |      |
| Holding force           N    |                       | Max. thrust x 0.7                                                                                                                           |       |     |                         |     |       |     |                      |     |      |

- \*1: (1) When the piston moves at 500 to 2000 mm/s, reduce the speed when entering the position locking mechanism to 500 mm/s or less. For common port piping, the working piston speed varies depending on the stroke length. Contact CKD.
- (2) To reduce the speed, add an external shock absorber or deceleration circuit.
- (3) Apply grease regularly to the sliding part of the lock lever.

## Allowable absorbed energy

| Bore size (mm) | Cushioned               |                     | Without cushion         | With shock absorber (initial set point) |                       |
|----------------|-------------------------|---------------------|-------------------------|-----------------------------------------|-----------------------|
|                | Max absorbed energy (J) | Cushion stroke (mm) | Max absorbed energy (J) | Absorbed energy (J)                     | Effective stroke (mm) |
| ø12 or equiv.  | 0.03                    | 14.5                | 0.003                   | 2.4                                     | 5.5                   |
| ø16 or equiv.  | 0.22                    | 19.2                | 0.007                   | 2.4                                     | 5.5                   |
| ø20 or equiv.  | 0.59                    | 22.2                | 0.010                   | 5.7                                     | 7                     |
| ø25 or equiv.  | 1.40                    | 20.9                | 0.015                   | 10                                      | 9                     |
| ø32 or equiv.  | 2.57                    | 23.5                | 0.030                   | 18                                      | 13                    |
| ø40 or equiv.  | 4.27                    | 23.9                | 0.050                   | 50                                      | 16.5                  |
| ø50 or equiv.  | 9.13                    | 24.9                | 0.072                   | 86                                      | 21                    |
| ø63 or equiv.  | 17.4                    | 29.6                | 0.138                   | 86                                      | 21                    |
| ø80 or equiv.  | 40                      | 45.8                | 0.393                   | 143                                     | 25                    |
| ø100 or equiv. | 67                      | 45.8                | 0.622                   | 143                                     | 25                    |

## Stroke length

| Bore size (mm) | Standard stroke length (mm)                      | Max. stroke length (mm) | Min. stroke length (mm) |
|----------------|--------------------------------------------------|-------------------------|-------------------------|
| ø12 equiv.     | 200/300<br>400/500<br>600/700<br>800/900<br>1000 | 5000                    | 5                       |
| ø16 equiv.     |                                                  |                         |                         |
| ø20 equiv.     |                                                  |                         |                         |
| ø25 equiv.     |                                                  |                         |                         |
| ø32 equiv.     |                                                  |                         |                         |
| ø40 equiv.     |                                                  |                         |                         |
| ø50 equiv.     |                                                  |                         |                         |
| ø63 equiv.     |                                                  |                         |                         |
| ø80 equiv.     |                                                  |                         |                         |
| ø100 equiv.    |                                                  |                         |                         |

Number of installed M type switches and min. stroke length (mm) \* The custom stroke length is available in 1 mm increments.

| Switch quantity  | 1   |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Switch model No. | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H |
| Bore size (mm)   | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H | M*V | M*H |
| ø12 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø16 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø20 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø25 or equiv.    | 10  | 10  | 30  | 70  | 60  | 120 | 90  | 170 | 120 | 220 | 150 | 270 |
| ø32 or equiv.    | 10  | 10  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø40 or equiv.    | 10  | 10  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø50 or equiv.    | 15  | 15  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø63 or equiv.    | 15  | 15  | 30  | 45  | 60  | 90  | 90  | 135 | 120 | 180 | 150 | 225 |
| ø80 or equiv.    | 25  |     | 50  |     | 100 |     | 150 |     | 200 |     | 250 |     |
| ø100 or equiv.   | 25  |     | 50  |     | 100 |     | 150 |     | 200 |     | 250 |     |

Number of installed T type switches and min. stroke length (mm)

| Switch quantity  | 1   |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Switch model No. | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H | T*V | T*H |
| Bore size (mm)   |     |     |     |     |     |     |     |     |     |     |     |     |
| ø12 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø16 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø20 or equiv.    | 5   | 5   | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø25 or equiv.    | 10  | 10  | 45  | 70  | 85  | 120 | 125 | 170 | 165 | 220 | 205 | 270 |
| ø32 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø40 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø50 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø63 or equiv.    | 10  | 10  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø80 or equiv.    | 15  | 15  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |
| ø100 or equiv.   | 15  | 15  | 45  | 50  | 85  | 100 | 125 | 150 | 165 | 200 | 205 | 250 |

⚠ Be sure to read the Safety Precautions for **Position locking** on pages 1639 and 1642 to 1644 before use.

### Switch specifications (M type switch)

- 1-color/2-color display

| Item                 | Proximity 2-wire                      |                             | Proximity 3-wire                                                                           |                              |                             |
|----------------------|---------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
|                      | M2V,M2H                               | M2WV<br>(2-color display)   | M3H/M3V                                                                                    | M3PH/M3PV<br>(made to order) | M3WV                        |
| Applications         | Dedicated for programmable controller |                             | For programmable controller, relay, IC circuit, compact solenoid valve                     |                              |                             |
| Output method        | -                                     |                             | NPN output                                                                                 | PNP output                   | NPN output                  |
| Power supply voltage | -                                     |                             | 4.5 to 28 VDC                                                                              |                              | 10 to 28 VDC                |
| Load voltage         | 10 to 30 VDC                          |                             | 30 VDC or less                                                                             |                              |                             |
| Load current         | 5 to 30 mA                            |                             | 100 mA or less                                                                             | 100 mA or less               | 100 mA or less              |
| Indicator lamp       | LED (Lit when ON)                     | Red/green LED (Lit when ON) | LED (Lit when ON)                                                                          | Yellow LED (Lit when ON)     | Red/green LED (Lit when ON) |
| Leakage current      | 1 mA or less                          |                             | 10 μA or less                                                                              | 0.05mA or less               | 10 μA or less               |
| Weight               | g 1 m:22 3 m:57 5 m:93                |                             |                                                                                            |                              |                             |
| Item                 | Reed 2-wire                           |                             |                                                                                            |                              |                             |
|                      | M0V, M0H                              |                             | M5V, M5H                                                                                   |                              |                             |
| Applications         | Programmable controller, relay        |                             | For programmable controller, relay, IC circuit (without indicator lamp), serial connection |                              |                             |
| Power supply voltage | -                                     |                             | -                                                                                          |                              |                             |
| Load voltage         | 12/24 VDC                             | 110 VAC                     | 5/12/24 VDC                                                                                |                              | 110 VAC or less             |
| Load current         | 5 to 50 mA                            | 7 to 20 mA                  | 50 mA or less                                                                              |                              | 20 mA or less               |
| Indicator lamp       | LED (Lit when ON)                     |                             | Without indicator lamp                                                                     |                              |                             |
| Leakage current      | 0 mA                                  |                             |                                                                                            |                              |                             |
| Weight               | g 1 m:22 3 m:57 5 m:93                |                             |                                                                                            |                              |                             |

\*1: Refer to Ending Page 1 for detailed switch specifications and dimensions.

### Switch specifications (T type switch)

- 2-color display

| Item                 | Proximity 2-wire                      |                                | Proximity 3-wire                   |                                |
|----------------------|---------------------------------------|--------------------------------|------------------------------------|--------------------------------|
|                      | T2YH/T2YV                             | T2WH/T2WV                      | T3YH/T3YV                          | T3WH/T3WV                      |
| Applications         | Dedicated for programmable controller |                                | For programmable controller, relay |                                |
| Output method        | -                                     |                                | NPN output                         | NPN output                     |
| Power supply voltage | -                                     |                                | 10 to 28 VDC                       |                                |
| Load voltage         | 10 to 30 VDC                          | 24 VDC ±10%                    | 30 VDC or less                     |                                |
| Load current         | 5 to 20 mA (*1)                       |                                | 50 mA or less                      |                                |
| Indicator lamp       | Red/green LED<br>(Lit when ON)        | Red/green LED<br>(Lit when ON) | Red/green LED<br>(Lit when ON)     | Red/green LED<br>(Lit when ON) |
| Leakage current      | 1 mA or less                          |                                | 10 µA or less                      |                                |
| Weight               | g 1 m:33 3 m:87 5 m:142               |                                | 1 m:33 3 m:87 5 m:142              |                                |
|                      | 1 m:18 3 m:49 5 m:80                  |                                | 1 m:18 3 m:49 5 m:80               |                                |

- For AC magnetic field

| Item                  | Proximity 2-wire                      |
|-----------------------|---------------------------------------|
|                       | T2YD,T2YDT (*4)                       |
| Applications          | Dedicated for programmable controller |
| Indicator lamp        | Red/green LED (Lit when ON)           |
| Load voltage          | 24 VDC ±10%                           |
| Load current          | 5 to 20 mA                            |
| Internal voltage drop | 6V or less                            |
| Leakage current       | 1.0 mA or less                        |
| Weight                | g 1 m:61 3 m:166 5 m:272              |

\*1:Refer to Ending Page 1 for detailed switch specifications and dimensions.

\*2:Switches other than the above models, such as switches with connectors, are also available. Refer to Ending Page 1.

\*3 : The max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*4 : AC magnetic field proof switch (T2YD/T2YDT) cannot be used in DC magnetic field.

### Cylinder weight

Unit: kg

| Bore size (mm) | Weight for 0 mm stroke length |      |       |                                                         | Mounting bracket weight |        | Additional weight per<br>St = 100 mm |
|----------------|-------------------------------|------|-------|---------------------------------------------------------|-------------------------|--------|--------------------------------------|
|                | Basic<br>(00)                 | Foot |       | Switch weight                                           | T type                  | M type |                                      |
|                |                               | (LB) | (LB1) |                                                         |                         |        |                                      |
| ø12 or equiv.  | 0.38                          | 0.39 | 0.40  | Refer to the weight<br>in the switch<br>specifications. | 0.005                   | 0.001  | 0.10                                 |
| ø16 or equiv.  | 0.47                          | 0.48 | 0.50  |                                                         |                         |        | 0.13                                 |
| ø20 or equiv.  | 0.74                          | 0.76 | 0.80  |                                                         |                         |        | 0.18                                 |
| ø25 or equiv.  | 1.5                           | 1.6  | 1.6   |                                                         |                         |        | 0.28                                 |
| ø32 or equiv.  | 2.4                           | 2.5  | 2.6   |                                                         |                         |        | 0.36                                 |
| ø40 or equiv.  | 3.6                           | 3.7  | -     |                                                         |                         |        | 0.53                                 |
| ø50 or equiv.  | 6.0                           | 6.1  | -     |                                                         |                         |        | 0.75                                 |
| ø63 or equiv.  | 8.8                           | 9.1  | -     |                                                         |                         |        | 1.11                                 |
| ø80 or equiv.  | 22.4                          | 23.0 | -     |                                                         |                         |        | 2.32                                 |
| ø100 or equiv. | 30.5                          | 31.5 | -     |                                                         |                         |        | 3.38                                 |

# SRL3-GQ Series

## How to order

Without switch (built-in magnet for switch)

**SRL3-GQ-00-12-B-200-B**

With switch (built-in magnet for switch)

**SRL3-GQ-00-12-B-200-M0H-R-B**

**A** Mounting  
\*1, \*2

**B** Bore size

**C** Port thread

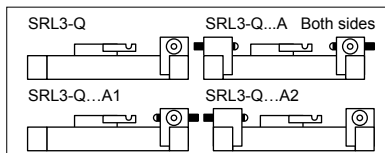
**D** Cushion

**E** Stroke length

**F** Switch model No.

## Precautions for model No. selection

- \*1 : Mounting bracket will be shipped assembled with the product.
- \*2 : For 12, 16, 20, 25 and 32 bore sizes with option code "R" or "T", the mounting will be "00" or "LB1".  
(Piping with "LB" is not possible for option codes "R" and "T".)
- \*3 : Refer to page 1614 for the min. stroke length with switch.
- \*4 : Switches other than **F** Switch model No. are also available. (Made to order) Refer to Ending Page 1 for details.
- \*5 : The full stroke length adjusting bracket on R side is provided as standard for the position locking. Therefore, if "A1" is selected, a shock absorber only is added to R side. In the case of "A", R side is position locking and full stroke length adjustable with shock absorber, and L side is full stroke length adjustable with shock absorber. (Figure below)



- \*6 : "\*" of L\* and N\* indicates the number of sets. When more than one set are necessary, specify "L2" (for LB) or "N2" (for LB1). 2 pcs./set
- \*7 : For the port and cushion needle position codes, refer to dimensions on pages 1598 to 1603.
- \*8 : In the case of the standard with ø12 to ø25, remove the cover, attach a flat nut and install the full stroke length adjusting bracket. A flat nut is attached to option "A3" to enable retrofitting the full stroke length adjusting bracket without removing the cover.
- \*9 : In "H", the thread size for ø12 and ø16 will be "M4" and that for ø20 will be "M5".
- \*10 : Check the option combinations in "Option selection table" on the next page.
- \*11 : Copper and PTFE free as standard. (except for type with shock absorber)

[Example of model No.]

**SRL3-GQ-00-12B-200-M0H-R-B**

Model: Rodless cylinder Resin guide/position locking

- A** Mounting : Basic
- B** Bore size : ø12 mm
- C** Port thread : M5
- D** Cushion : Both sides cushioned
- E** Stroke length : 200 mm
- F** Switch model No. : Reed M0H switch, lead wire 1 m
- G** Switch quantity : 1 on R side
- H** Option : Port position F, cushion needle position B

| Code                 | Description                                                        |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
|----------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|------------------|----------------|--------------------------|--------|----|----|----|----|----|-----|---|---|
| A Mounting           |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 00                   | Basic                                                              |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| LB                   | Axial foot                                                         |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| LB1                  | Axial foot (ø12 to ø32 only)                                       |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| B Bore size (mm)     |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 12                   | ø12                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 16                   | ø16                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 20                   | ø20                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 25                   | ø25                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 32                   | ø32                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 40                   | ø40                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 50                   | ø50                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 63                   | ø63                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 80                   | ø80                                                                |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 100                  | ø100                                                               |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| C Port thread        |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| Blank                | Rc thread (M5 for ø12 and ø16)                                     |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| N                    | NPT thread (ø20 or more) (made-to-order product)                   |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| G                    | G thread (ø20 or more) (made-to-order product)                     |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| D Cushion            |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| B                    | Both sides cushioned                                               |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| R                    | R side cushioned                                                   |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| L                    | L side cushioned                                                   |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| N                    | Without cushion                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| E Stroke length (mm) |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| Bore size            | Stroke length *3                                                   | Custom stroke length                                                |                  |                |                          |        |    |    |    |    |    |     |   |   |
| ø12 to ø100          | 5 to 5000                                                          | In 1 mm increments                                                  |                  |                |                          |        |    |    |    |    |    |     |   |   |
| F Switch model No.   |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| Axial lead wire      | Radial lead wire                                                   | Reed Contact                                                        | Voltage          | Indicator lamp | Lead wire                |        |    |    |    |    |    |     |   |   |
|                      |                                                                    |                                                                     | AC               | DC             |                          |        |    |    |    |    |    |     |   |   |
| M0H*                 | M0V*                                                               | Proximity                                                           | ●                | ●              | 1-color display          | 2-wire |    |    |    |    |    |     |   |   |
| M5H*                 | M5V*                                                               |                                                                     | ●                | ●              | Without indicator lamp   |        |    |    |    |    |    |     |   |   |
| M2H*                 | M2V*                                                               |                                                                     |                  | ●              | 1-color display          | 2-wire |    |    |    |    |    |     |   |   |
| -                    | M2WV*                                                              |                                                                     |                  | ●              | 2-color display          |        |    |    |    |    |    |     |   |   |
| M3H*                 | M3V*                                                               |                                                                     |                  | ●              | 1-color display          | 3-wire |    |    |    |    |    |     |   |   |
| -                    | M3WV*                                                              |                                                                     |                  | ●              | 2-color display          |        |    |    |    |    |    |     |   |   |
| M3PH*                | M3PV*                                                              |                                                                     |                  | ●              | 1-color display (custom) | 3-wire |    |    |    |    |    |     |   |   |
| T2WH*                | T2WV*                                                              |                                                                     |                  | ●              | 2-color display          |        |    |    |    |    |    |     |   |   |
| T2YH*                | T2YV*                                                              |                                                                     |                  | ●              |                          |        |    |    |    |    |    |     |   |   |
| T3WH*                | T3WV*                                                              |                                                                     |                  | ●              |                          |        |    |    |    |    |    |     |   |   |
| T3YH*                | T3YV*                                                              |                                                                     |                  | ●              |                          |        |    |    |    |    |    |     |   |   |
| T2YD*                | -                                                                  |                                                                     |                  | ●              | 2-color display          | 2-wire |    |    |    |    |    |     |   |   |
| T2YDT*               | -                                                                  |                                                                     |                  | ●              | AC magnetic field        |        |    |    |    |    |    |     |   |   |
| * Lead wire length   |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| Blank                | 1 m (standard)                                                     |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 3                    | 3 m (option)                                                       |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 5                    | 5 m (option)                                                       |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| G Switch quantity    |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| R                    | 1 on R side                                                        |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| L                    | 1 on L side                                                        |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| D                    | 2                                                                  |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| T                    | 3                                                                  |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| 4                    | 4 (when there are more than 4 switches, indicate switch quantity.) |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| H Option             |                                                                    |                                                                     |                  |                |                          |        |    |    |    |    |    |     |   |   |
| Bore size (ø)        |                                                                    |                                                                     | 12               | 16             | 20                       | 25     | 32 | 40 | 50 | 63 | 80 | 100 |   |   |
| A                    | Both-sides full stroke adjustable, shock absorber                  |                                                                     | ●                | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| A1                   | R side full stroke adjustable, shock absorber                      |                                                                     | ●                | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| A2                   | L side full stroke, adjustable, shock absorber                     |                                                                     | ●                | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| A3                   | Full stroke adjustable, adjusting bracket to be added              |                                                                     | ●                | ●              | ●                        | ●      |    |    |    |    |    |     |   |   |
| L*                   | Intermediate support bracket (for 00, LB)                          |                                                                     | ●                | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| N*                   | Intermediate support bracket (for LB1)                             |                                                                     | ●                | ●              | ●                        | ●      | ●  |    |    |    |    |     |   |   |
| H                    | Larger thread for table installation                               |                                                                     | ●                | ●              | ●                        |        |    |    |    |    |    |     |   |   |
| U                    | Height adjustment plate                                            |                                                                     | ●                | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| Blank                | Port position<br>:F (Standard)<br>:R (Common port)                 | Adjustment needle position<br>:F (Standard)<br>:B<br>:D<br>:S<br>:X | :F (Standard)    | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   |   |   |
| R                    |                                                                    |                                                                     | :R (Common port) | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   | ● |   |
| B                    |                                                                    |                                                                     | :F               | ●              | ●                        | ●      | ●  | ●  | ●  | ●  | ●  | ●   | ● |   |
| T                    |                                                                    |                                                                     | :R (Common port) | ●              | ●                        | ●      |    | ●  | ●  | ●  | ●  | ●   | ● |   |
| D                    |                                                                    |                                                                     | :D               |                |                          |        | ●  |    |    |    |    |     |   |   |
| S                    |                                                                    |                                                                     | :D               |                |                          |        |    | ●  | ●  | ●  | ●  | ●   | ● |   |
| X                    |                                                                    |                                                                     | :F (Common port) |                |                          |        |    |    |    |    |    |     | ● | ● |
|                      |                                                                    |                                                                     |                  |                | :F                       |        |    |    |    |    |    |     |   |   |

Option selection table

●: Available    □: Not available

| Option | Option |                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|--------|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|        | Code   |                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A      | Both side full stroke length adjustable, with shock absorber           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A1     | R side full stroke length adjustable, with shock absorber              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A2     | L side full stroke length adjustable, with shock absorber              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | A3     | Full stroke length adjustable with adjusting bracket to be added later |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | L*     | Intermediate support bracket (for 00, LB)                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | N*     | Intermediate support bracket (for LB1)                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | H      | Larger thread for table installation                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | U      | Height adjustment plate                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Blank  | Port position F, cushion needle position F (standard)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | R      | Port position R, cushion needle position F (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | B      | Port position F, cushion needle position B                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | T      | Port position R, cushion needle position B (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | D      | Port position D, cushion needle position F                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | S      | Port position D, cushion needle position D                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        | X      | Port position F, cushion needle position F (common port)               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\*1: Some combinations are not available depending on the bore size. Be sure to check the **H** Option in "How to order" on the previous page.

\*2: LB1 with port position D is not possible. (ø25, ø32)

Theoretical thrust table

(Unit: N)

| Bore size (mm) | Operating direction | Working pressure MPa   |                        |                        |                        |                        |                        |                        |                        |                        |
|----------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                |                     | 0.1                    | 0.15                   | 0.2                    | 0.25                   | 0.3                    | 0.4                    | 0.5                    | 0.6                    | 0.7                    |
| ø12            | Push/Pull           | —                      | —                      | —                      | 34.6                   | 41.5                   | 55.3                   | 69.1                   | 83.0                   | 96.8                   |
| ø16            | Push/Pull           | —                      | —                      | —                      | 54.0                   | 64.8                   | 86.4                   | 1.08 × 10 <sup>2</sup> | 1.30 × 10 <sup>2</sup> | 1.51 × 10 <sup>2</sup> |
| ø20            | Push/Pull           | —                      | —                      | —                      | 78.6                   | 94.4                   | 1.26 × 10 <sup>2</sup> | 1.57 × 10 <sup>2</sup> | 1.89 × 10 <sup>2</sup> | 2.20 × 10 <sup>2</sup> |
| ø25            | Push/Pull           | —                      | 81.4                   | 1.08 × 10 <sup>2</sup> | 1.35 × 10 <sup>2</sup> | 1.63 × 10 <sup>2</sup> | 2.17 × 10 <sup>2</sup> | 2.71 × 10 <sup>2</sup> | 3.25 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> |
| ø32            | Push/Pull           | —                      | 1.22 × 10 <sup>2</sup> | 1.63 × 10 <sup>2</sup> | 2.04 × 10 <sup>2</sup> | 2.44 × 10 <sup>2</sup> | 3.26 × 10 <sup>2</sup> | 4.07 × 10 <sup>2</sup> | 4.88 × 10 <sup>2</sup> | 5.70 × 10 <sup>2</sup> |
| ø40            | Push/Pull           | —                      | 1.90 × 10 <sup>2</sup> | 2.53 × 10 <sup>2</sup> | 3.16 × 10 <sup>2</sup> | 3.80 × 10 <sup>2</sup> | 5.06 × 10 <sup>2</sup> | 6.33 × 10 <sup>2</sup> | 7.60 × 10 <sup>2</sup> | 8.86 × 10 <sup>2</sup> |
| ø50            | Push/Pull           | —                      | 2.98 × 10 <sup>2</sup> | 3.98 × 10 <sup>2</sup> | 4.94 × 10 <sup>2</sup> | 5.96 × 10 <sup>2</sup> | 7.95 × 10 <sup>2</sup> | 9.94 × 10 <sup>2</sup> | 1.19 × 10 <sup>3</sup> | 1.39 × 10 <sup>3</sup> |
| ø63            | Push/Pull           | 3.14 × 10 <sup>2</sup> | 4.70 × 10 <sup>2</sup> | 6.27 × 10 <sup>2</sup> | 7.84 × 10 <sup>2</sup> | 9.41 × 10 <sup>2</sup> | 1.25 × 10 <sup>3</sup> | 1.57 × 10 <sup>3</sup> | 1.88 × 10 <sup>3</sup> | 2.20 × 10 <sup>3</sup> |
| ø80            | Push/Pull           | 5.06 × 10 <sup>2</sup> | 7.60 × 10 <sup>2</sup> | 1.01 × 10 <sup>3</sup> | 1.26 × 10 <sup>3</sup> | 1.52 × 10 <sup>3</sup> | 2.03 × 10 <sup>3</sup> | 2.53 × 10 <sup>3</sup> | 3.04 × 10 <sup>3</sup> | 3.54 × 10 <sup>3</sup> |
| ø100           | Push/Pull           | 7.91 × 10 <sup>2</sup> | 1.19 × 10 <sup>3</sup> | 1.58 × 10 <sup>3</sup> | 1.98 × 10 <sup>3</sup> | 2.37 × 10 <sup>3</sup> | 3.16 × 10 <sup>3</sup> | 3.95 × 10 <sup>3</sup> | 4.74 × 10 <sup>3</sup> | 5.53 × 10 <sup>3</sup> |

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

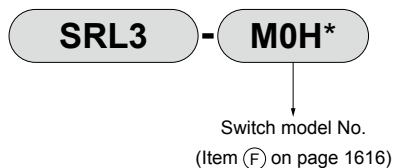
FK

Spd  
Contr

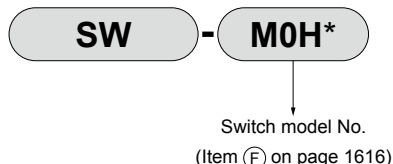
Ending

## How to order switch (For configurations, refer to pages 1624 to 1626)

- Switch body + mounting bracket set (\*1)



- Switch body only



| * Lead wire length |                |
|--------------------|----------------|
| Blank              | 1 m (standard) |
| 3                  | 3 m (option)   |
| 5                  | 5 m (option)   |

\* indicates lead wire length.

- Mounting bracket set (\*2)

· M type switch



· T type switch



Note: The mounting bracket is different between the M type switch and T type switch.

- Lead wire holder (\*3)

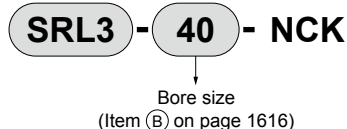


\*1: "Switch body + mounting bracket set" does not include lead wire holders. Order lead wire holders separately if necessary.

\*2: The mounting bracket is different between the M type switch and T type switch.

\*3: The quantity of lead wire holders per set is 10.

- How to order discrete shock absorber



(One shock absorber, one shock absorber fixing hexagon nut)

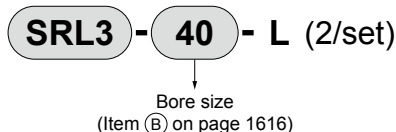
(Note) The shock absorber fixing hexagon nut for SRL3-40 is a made-to-order product.

Applicable shock absorber model No.

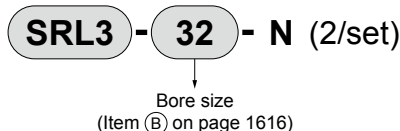
| Model    | Shock absorber model No. |
|----------|--------------------------|
| SRL3-12  | NCK-00-0.3-C             |
| SRL3-16  | NCK-00-0.3-C             |
| SRL3-20  | NCK-00-0.7-C             |
| SRL3-25  | NCK-00-1.2               |
| SRL3-32  | NCK-00-2.6               |
| SRL3-40  | NCK-00-7                 |
| SRL3-50  | NCK-00-12                |
| SRL3-63  | NCK-00-12                |
| SRL3-80  | NCK-00-20                |
| SRL3-100 | NCK-00-20                |

- How to order discrete intermediate support bracket

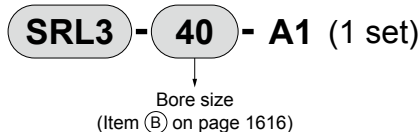
For 00/LB



For LB1

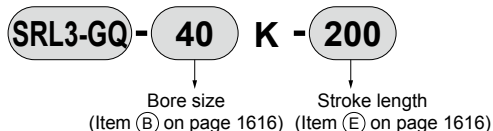


- How to order full stroke length adjusting bracket kit

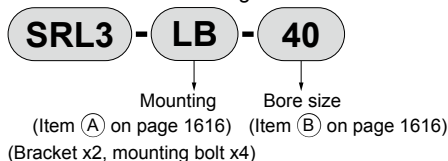


(For configurations, refer to "Full stroke length adjusting bracket kit" on page 1625.)

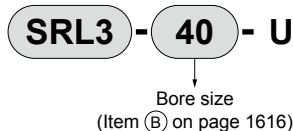
- How to order repair parts



- How to order mounting bracket



- How to order height adjustment plate set



(Plate, mounting bolt x4)

### Internal structure and parts list

For the internal structure and parts list, refer to:

SRL3 Series Pages 1579 to 1581

SRL3-G Series Pages 1595 to 1597

SRL3-Q Series Pages 1609 to 1611.

### Repair parts list

| Bore size (mm) | Kit No.        | Repair parts No.                         |                                          |                                          |
|----------------|----------------|------------------------------------------|------------------------------------------|------------------------------------------|
| ø12 or equiv.  | SRL3-GQ-12K-*  | 8 9 18 21 22 26                          | 4 6 10                                   | 1 5                                      |
| ø16 or equiv.  | SRL3-GQ-16K-*  | 27                                       |                                          |                                          |
| ø20 or equiv.  | SRL3-GQ-20K-*  | (The same as part numbers on page 1579.) | (The same as part numbers on page 1609.) | (The same as part numbers on page 1595.) |
| ø25 or equiv.  | SRL3-GQ-25K-*  |                                          |                                          |                                          |
| ø32 or equiv.  | SRL3-GQ-32K-*  | 8 9 18 21 22 26                          | 3 4 6 10                                 | 1 5                                      |
| ø40 or equiv.  | SRL3-GQ-40K-*  | 27                                       |                                          |                                          |
| ø50 or equiv.  | SRL3-GQ-50K-*  | (The same as part numbers on page 1579.) | (The same as part numbers on page 1610.) | (The same as part numbers on page 1595.) |
| ø63 or equiv.  | SRL3-GQ-63K-*  | 8 9 18 21 22 26                          | 3 4 6 10                                 | 1 5                                      |
| ø80 or equiv.  | SRL3-GQ-80K-*  | 27 32                                    |                                          |                                          |
| ø100 or equiv. | SRL3-GQ-100K-* | (The same as part numbers on page 1580.) | (The same as part numbers on page 1610.) | (The same as part numbers on page 1596.) |
|                |                | 8 9 18 21 22 26                          | 3 4 6 10                                 | 1                                        |
|                |                | 27 28 29 32 33                           |                                          |                                          |
|                |                | (The same as part numbers on page 1581.) | (The same as part numbers on page 1611.) | (The same as part numbers on page 1597.) |

### Dimensions

SRL3 Series Pages 1582 to 1587

SRL3-G Series Pages 1598 to 1603

SRL3-Q Series Pages 1612 and 1613.

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/COVP/IN2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/MSDG

FC\*

STK

**SRL3**

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd Contr

Ending

# SRL3-Q Series

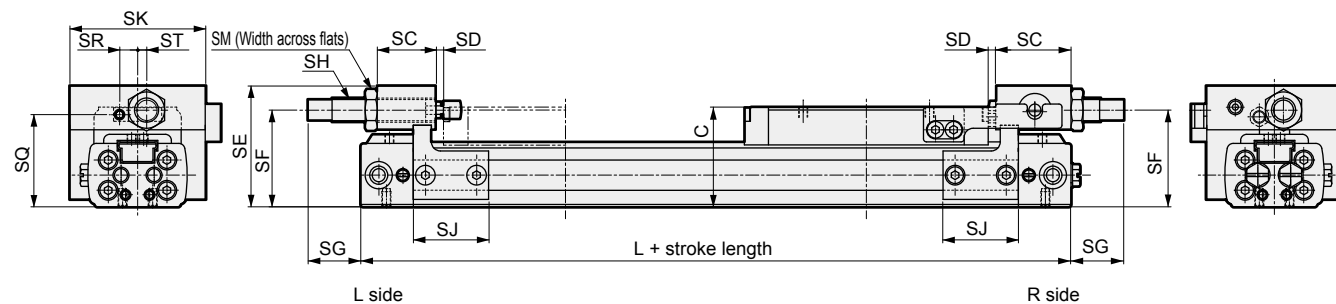
## SRL3-Q Series common dimensions

### ● Full stroke length adjustable with shock absorber

Note: In the case of option A or A1, adjust the stroke length on the position locking side by adjusting the stroke length of the entire unit. Do not perform fine adjustment using the shock absorber and hexagon socket set screw.

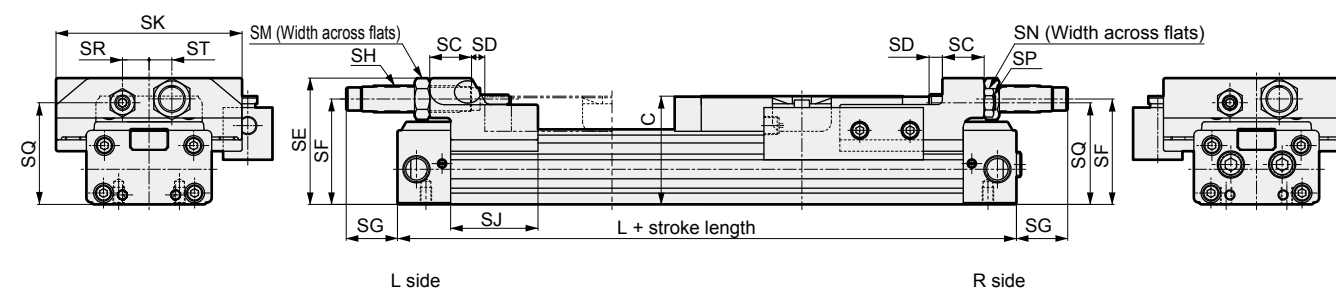
Fine adjustment with the shock absorber and hexagon socket set screw will cause the lock lever and the position locking mechanism to be misaligned, which prevents secure locking.

·ø12 to ø25 or equiv.



| Code           | SC   | SD  | SE   | SF   | SG      |         |            | SH          |                          | SJ | SK | SM | SN  | SP | SQ   | SR | ST | C  | L   |
|----------------|------|-----|------|------|---------|---------|------------|-------------|--------------------------|----|----|----|-----|----|------|----|----|----|-----|
| Bore size (mm) |      |     |      |      | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |    |    |    |     |    |      |    |    |    |     |
| ø12 or equiv.  | 19.5 | 2.5 | 40   | 32   | 17.5    | 7.5     | 10         | M8×0.75     | 3                        | 25 | 45 | 12 | 5.5 | M3 | 30.5 | 6  | 3  | 33 | 136 |
| ø16 or equiv.  | 18   | 4   | 42   | 35   | 14.5    | 4.5     | 10         | M8×0.75     | 3                        | 25 | 49 | 12 | 5.5 | M3 | 34   | 6  | 4  | 37 | 149 |
| ø20 or equiv.  | 22.5 | 3.5 | 48   | 40   | 14.5    | 4.5     | 10         | M10×1.0     | 7                        | 39 | 57 | 14 | 7   | M4 | 38   | 8  | 5  | 42 | 169 |
| ø25 or equiv.  | 20   | 2.5 | 62.5 | 51.5 | 14.5    | 4.5     | 10         | M12×1.0     | 12                       | 50 | 77 | 17 | 10  | M6 | 50   | 12 | 10 | 53 | 190 |

·ø32 to ø63 or equiv.



| Code           | SC | SD | SE   | SF   | SG      |         |            | SH          |                          | SJ | SK  | SM | SN | SP  | SQ   | SR | ST | C  | L   |
|----------------|----|----|------|------|---------|---------|------------|-------------|--------------------------|----|-----|----|----|-----|------|----|----|----|-----|
| Bore size (mm) |    |    |      |      | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |    |     |    |    |     |      |    |    |    |     |
| ø32 or equiv.  | 22 | 7  | 66.5 | 55.5 | 27      | 17      | 10         | M14×1.5     | 26                       | 46 | 98  | 19 | 13 | M8  | 53.5 | 14 | 12 | 57 | 226 |
| ø40 or equiv.  | 32 | 7  | 78.5 | 65.5 | 34      | 24      | 10         | M20×1.5     | 70                       | 51 | 112 | 24 | 17 | M10 | 63.5 | 17 | 12 | 67 | 244 |
| ø50 or equiv.  | 38 | 8  | 99   | 80   | 55      | 45      | 10         | M25×1.5     | 120                      | 53 | 136 | 32 | 19 | M12 | 77.5 | 22 | 17 | 82 | 258 |
| ø63 or equiv.  | 38 | 8  | 112  | 93.5 | 44      | 34      | 10         | M25×1.5     | 120                      | 64 | 158 | 32 | 24 | M16 | 89   | 25 | 20 | 95 | 296 |

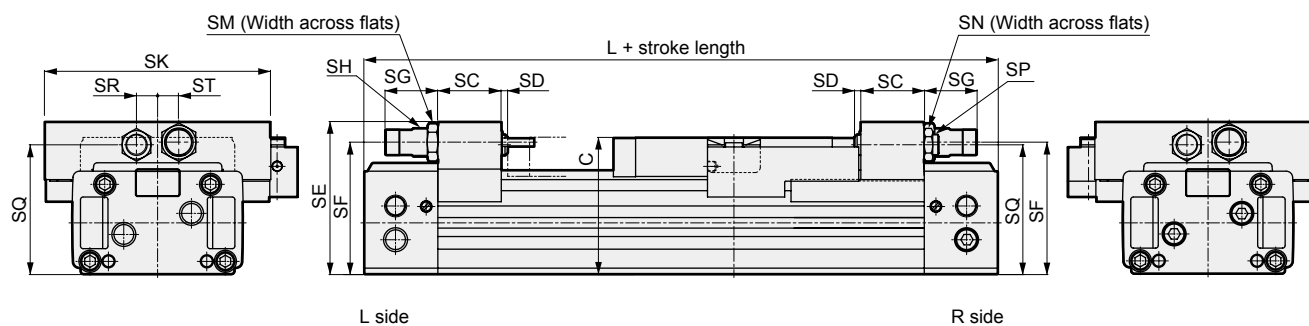
## SRL3-Q Series common dimensions

### ● Full stroke length adjustable with shock absorber

Note: In the case of option A or A1, adjust the stroke length on the position locking side by adjusting the stroke length of the entire unit. Do not perform fine adjustment using the shock absorber and hexagon socket set screw.

Fine adjustment with the shock absorber and hexagon socket set screw will cause the lock lever and the position locking mechanism to be misaligned, which prevents secure locking.

·ø80 to ø100 or equiv.

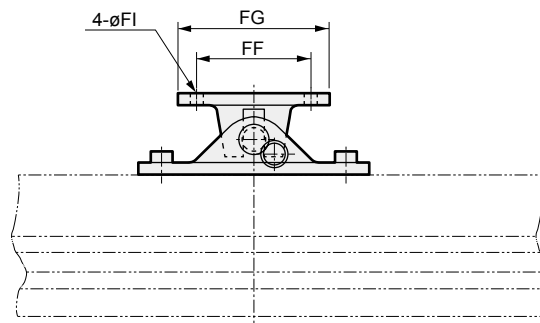
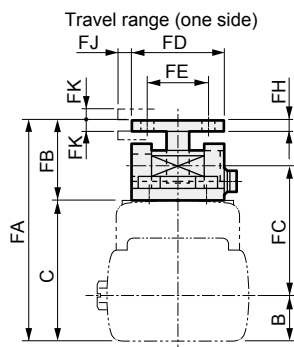
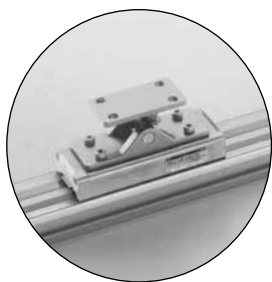


| Code           | SC | SD | SE  | SF    | SG      |         |            | SH          |                          | SK  | SM | SN | SP  | SQ  | SR | ST | C   | L   |
|----------------|----|----|-----|-------|---------|---------|------------|-------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|
| Bore size (mm) |    |    |     |       | At max. | At min. | Adj. range | Thread size | Max. absorbed energy (J) |     |    |    |     |     |    |    |     |     |
| ø80 or equiv.  | 60 | 6  | 145 | 125.5 | 50      | 40      | 10         | M27×1.5     | 200                      | 214 | 32 | 27 | M20 | 123 | 20 | 20 | 130 | 500 |
| ø100 or equiv. | 60 | 6  | 164 | 144.5 | 50      | 40      | 10         | M27×1.5     | 200                      | 250 | 32 | 27 | M20 | 142 | 20 | 20 | 150 | 530 |

## SRL3 Series common option dimensions

### ● Floating fitting (Y)

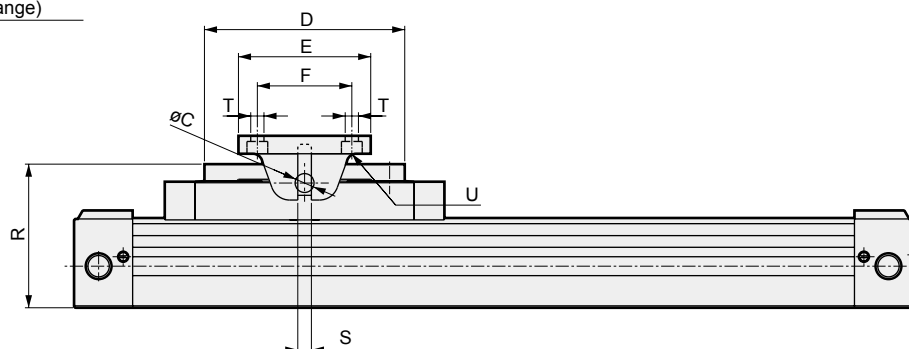
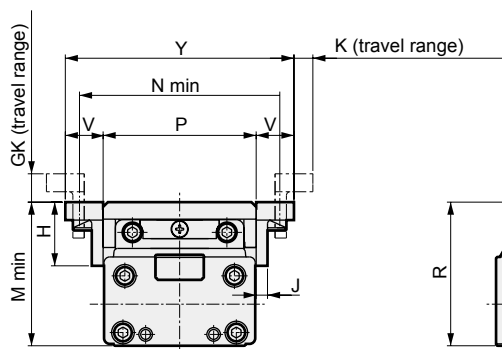
Material: Steel  
Zinc chromate treatment



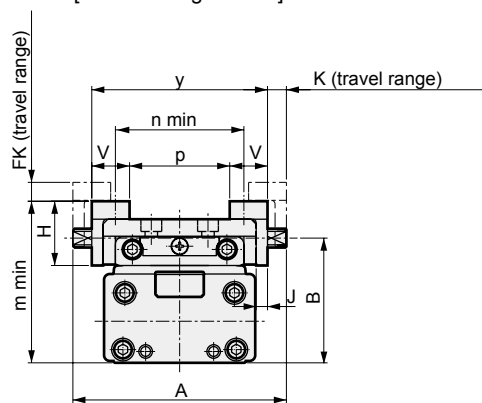
| Code           | FA | FB | FC   | FD | FE | FF | FG | FH | FI  | FJ | FK | B    | C  |
|----------------|----|----|------|----|----|----|----|----|-----|----|----|------|----|
| Bore size (mm) |    |    |      |    |    |    |    |    |     |    |    |      |    |
| ø12 or equiv.  | 54 | 21 | 31.5 | 24 | 16 | 30 | 40 | 3  | 3.4 | 3  | 3  | 10.5 | 33 |
| ø16 or equiv.  | 58 | 21 | 34   | 24 | 16 | 30 | 40 | 3  | 3.4 | 3  | 3  | 12   | 37 |
| ø20 or equiv.  | 67 | 25 | 39   | 30 | 20 | 40 | 56 | 4  | 4.5 | 3  | 3  | 14   | 42 |
| ø25 or equiv.  | 78 | 25 | 47   | 30 | 20 | 40 | 56 | 4  | 6   | 3  | 3  | 17   | 53 |
| ø32 or equiv.  | 95 | 38 | 55.5 | 45 | 30 | 50 | 70 | 6  | 7   | 5  | 5  | 18.5 | 57 |

| Code           | FA  | FB | FC    | FD | FE | FF  | FG  | FH | FI | FJ | FK | B    | C   |
|----------------|-----|----|-------|----|----|-----|-----|----|----|----|----|------|-----|
| Bore size (mm) |     |    |       |    |    |     |     |    |    |    |    |      |     |
| ø40 or equiv.  | 105 | 38 | 62    | 45 | 30 | 50  | 70  | 6  | 7  | 5  | 5  | 22   | 67  |
| ø50 or equiv.  | 126 | 44 | 73    | 60 | 40 | 70  | 90  | 8  | 9  | 5  | 5  | 28   | 82  |
| ø63 or equiv.  | 139 | 44 | 79    | 60 | 40 | 70  | 90  | 8  | 9  | 5  | 5  | 35   | 95  |
| ø80 or equiv.  | 188 | 58 | 107   | 80 | 50 | 90  | 120 | 11 | 14 | 10 | 5  | 49   | 130 |
| ø100 or equiv. | 220 | 70 | 120.5 | 90 | 60 | 110 | 140 | 13 | 14 | 10 | 5  | 61.5 | 150 |

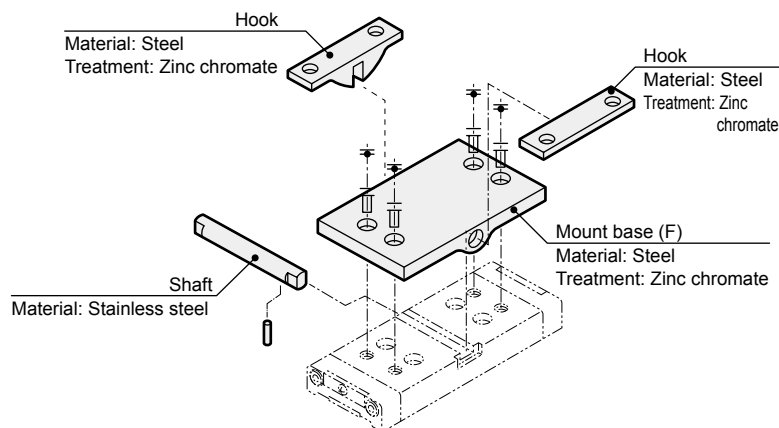
### ● Thin floating fitting (Y1) ø12 to ø63



[Hooks facing outside]



[Hooks facing inside]



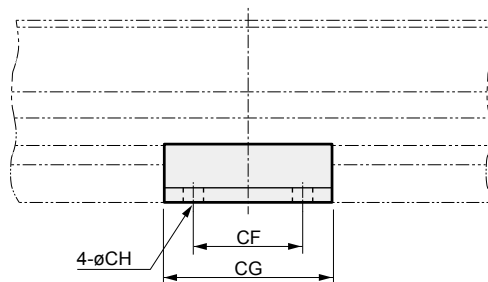
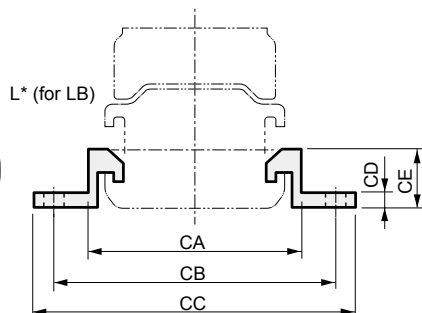
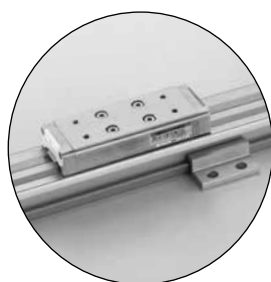
| Code      | A   | B    | C  | D   | E  | F  | H    | J | K  | FK | GK | M min | m min | N min | n min | P   | p  | R    | S   | V  | Y   | y   | T    | U                        |
|-----------|-----|------|----|-----|----|----|------|---|----|----|----|-------|-------|-------|-------|-----|----|------|-----|----|-----|-----|------|--------------------------|
| Bore size |     |      |    |     |    |    |      |   |    |    |    |       |       |       |       |     |    |      |     |    |     |     |      |                          |
| ø12       | 52  | 32   | 5  | 60  | 40 | 30 | 20   | 3 | 6  | 6  | 9  | 38    | 43    | 47.5  | 26.5  | 34  | 16 | 38   | 3.5 | 12 | 58  | 40  | ø3.4 | ø6.5 spot face depth 3.3 |
| ø16       | 56  | 36.5 | 5  | 60  | 40 | 30 | 20   | 3 | 6  | 6  | 9  | 42    | 47    | 51.5  | 30.5  | 38  | 20 | 42   | 3.5 | 12 | 62  | 44  | ø3.4 | ø6.5 spot face depth 3.3 |
| ø20       | 64  | 41   | 6  | 84  | 56 | 40 | 24.5 | 4 | 6  | 6  | 9  | 48.5  | 56.5  | 62    | 34    | 44  | 22 | 48.5 | 4   | 15 | 74  | 52  | ø4.5 | ø8 spot face depth 4.4   |
| ø25       | 74  | 53   | 6  | 84  | 56 | 40 | 24.5 | 4 | 6  | 6  | 9  | 60.5  | 68.5  | 72    | 44    | 54  | 32 | 60.5 | 4   | 15 | 84  | 62  | ø5.5 | ø9.5 spot face depth 5.4 |
| ø32       | 99  | 56.5 | 8  | 106 | 70 | 50 | 34   | 6 | 10 | 10 | 15 | 66    | 75.5  | 92    | 54    | 67  | 39 | 66   | 5.5 | 20 | 107 | 79  | ø6.6 | ø11 spot face depth 6.5  |
| ø40       | 113 | 66   | 10 | 116 | 70 | 50 | 34   | 6 | 10 | 10 | 15 | 76    | 85.5  | 106   | 68    | 81  | 53 | 76   | 7   | 20 | 121 | 93  | ø6.6 | ø11 spot face depth 6.5  |
| ø50       | 133 | 81   | 12 | 120 | 90 | 70 | 43   | 8 | 10 | 10 | 15 | 93    | 106   | 129   | 81    | 97  | 63 | 93   | 8.5 | 25 | 147 | 113 | ø9   | ø14 spot face depth 8.6  |
| ø63       | 155 | 94   | 14 | 136 | 90 | 70 | 43   | 8 | 10 | 10 | 15 | 108   | 120   | 151   | 103   | 119 | 85 | 107  | 10  | 25 | 169 | 135 | ø9   | ø14 spot face depth 8.6  |

### SRL3 Series common option dimensions



- Intermediate support bracket (L\*N\*)  
(auxiliary bracket for preventing sag)

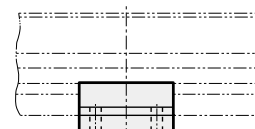
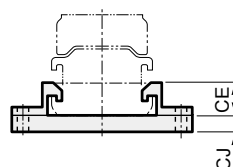
Material: Aluminum alloy  
Alumite treatment



| Code           | CA  | CB  | CC  | CD | CE   | CF | CG  | CH | CJ |
|----------------|-----|-----|-----|----|------|----|-----|----|----|
| Bore size (mm) |     |     |     |    |      |    |     |    |    |
| ø12 or equiv.  | 38  | 52  | 60  | 3  | 11   | 16 | 30  | 4  | 6  |
| ø16 or equiv.  | 42  | 56  | 64  | 3  | 12   | 20 | 35  | 4  | 6  |
| ø20 or equiv.  | 49  | 64  | 75  | 4  | 14   | 20 | 38  | 5  | 8  |
| ø25 or equiv.  | 60  | 76  | 88  | 6  | 19.5 | 20 | 40  | 7  | 10 |
| ø32 or equiv.  | 74  | 88  | 100 | 6  | 21.5 | 20 | 40  | 7  | 10 |
| ø40 or equiv.  | 90  | 108 | 124 | 6  | 24.5 | 30 | 60  | 9  | -  |
| ø50 or equiv.  | 106 | 124 | 140 | 8  | 30.5 | 30 | 60  | 9  | -  |
| ø63 or equiv.  | 130 | 152 | 172 | 10 | 38.5 | 50 | 90  | 11 | -  |
| ø80 or equiv.  | 172 | 210 | 236 | 12 | 32   | 60 | 110 | 14 | -  |
| ø100 or equiv. | 208 | 246 | 272 | 12 | 32   | 60 | 110 | 14 | -  |

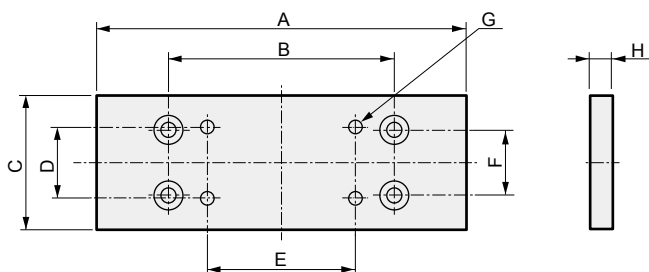
L\* (for 00/LB)N\* (for LB1)

N\* (for LB1)



- Height adjustment plate (U)

Material: Aluminum alloy  
Alumite treatment



| Code      | A   | B   | C   | D  | E   | F  | G             | H    |
|-----------|-----|-----|-----|----|-----|----|---------------|------|
| Bore size |     |     |     |    |     |    |               |      |
| ø 12      | 80  | 42  | 29  | 16 | 30  | 13 | 4-M3 through  | 8    |
| ø 16      | 87  | 48  | 32  | 16 | 30  | 15 | 4-M3 through  | 6    |
| ø 20      | 99  | 60  | 38  | 20 | 40  | 18 | 4-M4 through  | 7    |
| ø 25      | 121 | 70  | 48  | 20 | 40  | 20 | 4-M5 through  | 10.5 |
| ø 32      | 134 | 80  | 56  | 30 | 50  | 20 | 4-M6 through  | 10.5 |
| ø 40      | 147 | 90  | 68  | 30 | 50  | 30 | 4-M6 through  | 12.5 |
| ø 50      | 151 | 100 | 80  | 40 | 70  | 30 | 4-M8 through  | 18   |
| ø 63      | 167 | 110 | 102 | 40 | 70  | 40 | 4-M8 through  | 18   |
| ø 80      | 227 | 150 | 146 | 50 | 90  | 50 | 4-M12 through | 18   |
| ø100      | 237 | 160 | 170 | 60 | 110 | 60 | 4-M12 through | 18   |

|                  |
|------------------|
| SCP*3            |
| CMK2             |
| CMA2             |
| SCM              |
| SCG              |
| SCA2             |
| SCS2             |
| CKV2             |
| CAV2/<br>COVP/N2 |
| SSD2             |
| SSG              |
| SSD              |
| CAT              |
| MDC2             |
| MVC              |
| SMG              |
| MSD/<br>MSDG     |
| FC*              |
| STK              |
| <b>SRL3</b>      |
| SRG3             |
| SRM3             |
| SRT3             |
| MRL2             |
| MRG2             |
| SM-25            |
| ShkAbs           |
| FJ               |
| FK               |
| Spd<br>Contr     |
| Ending           |