

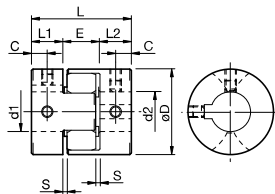
**■ Specification**

| Model     | Torque       |            | Max. permissible misalignment |                          |                         | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Radial displacement [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] | Standard bore processed item price | Pilot bore item price |
|-----------|--------------|------------|-------------------------------|--------------------------|-------------------------|--|-------------------------------|----------------------------|--|-----------|------------------------------------|-----------------------|
|           | Normal [N·m] | Max. [N·m] | Parallel offset [mm]          | Angular misalignment [°] | Axial displacement [mm] |  |                               |                            |  |           |                                    |                       |
| ALS-014-R | 2            | 4          | 0.10                          | 1                        | 0 to + 0.6              | 34100                                    | 21                            | 380                        | 1.91 x 10 <sup>-7</sup>                | 0.007     | -                                  | -                     |
| ALS-020-R | 5            | 10         | 0.10                          | 1                        | 0 to + 0.8              | 23800                                    | 43                            | 400                        | 1.08 x 10 <sup>-6</sup>                | 0.018     | -                                  | -                     |
| ALS-030-R | 12.5         | 25         | 0.10                          | 1                        | 0 to + 1.0              | 15900                                    | 136                           | 650                        | 6.25 x 10 <sup>-6</sup>                | 0.047     | -                                  | -                     |
| ALS-040-R | 17           | 34         | 0.10                          | 1                        | 0 to + 1.2              | 11900                                    | 1550                          | 1700                       | 3.87 x 10 <sup>-5</sup>                | 0.15      | -                                  | -                     |
| ALS-055-R | 60           | 120        | 0.10                          | 1                        | 0 to + 1.4              | 8700                                     | 2000                          | 1350                       | 1.66 x 10 <sup>-4</sup>                | 0.35      | -                                  | -                     |
| ALS-065-R | 160          | 320        | 0.10                          | 1                        | 0 to + 1.5              | 7400                                     | 3100                          | 1400                       | 3.57 x 10 <sup>-4</sup>                | 0.51      | -                                  | -                     |
| ALS-080-R | 325          | 650        | 0.10                          | 1                        | 0 to + 1.8              | 6000                                     | 6000                          | 1710                       | 1.06 x 10 <sup>-3</sup>                | 1.01      | -                                  | -                     |
| ALS-095-R | 450          | 900        | 0.10                          | 1                        | -0.5 to + 2.0           | 5000                                     | 10000                         | 4200                       | 2.24 x 10 <sup>-3</sup>                | 1.50      | -                                  | -                     |
| ALS-105-R | 525          | 1050       | 0.15                          | 1                        | -0.9 to + 2.0           | 4500                                     | 12000                         | 5000                       | 3.72 x 10 <sup>-3</sup>                | 2.05      | -                                  | -                     |

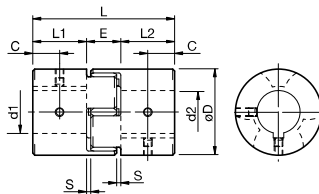
\* The spring constant values are measured at 20°C.  
 \* The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.  
 \* Dynamic balance is not considered for the maximum rotation speed.  
 \* Negative axial displacements of ALS-014 to 080-R are not allowed.

**■ Dimensions**

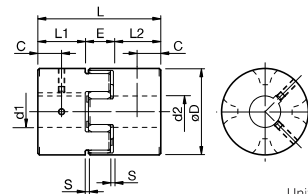
■ALS-014 to 030



■ALS-040



■ALS-055 to 105



Unit [mm]

| Model     | d1-d2      |      |      | D   | L   | L1-L2 | E  | S   | C    | CAD file No. |
|-----------|------------|------|------|-----|-----|-------|----|-----|------|--------------|
|           | Pilot bore | Min. | Max. |     |     |       |    |     |      |              |
| ALS-014-R | 3          | 3    | 6.5  | 14  | 22  | 7     | 8  | 1   | 3.5  | ALS-HH1      |
| ALS-020-R | 4          | 4    | 9.6  | 20  | 30  | 10    | 10 | 1   | 5    | ALS-HH2      |
| ALS-030-R | 5          | 6    | 14   | 30  | 35  | 11    | 13 | 1.5 | 5.5  | ALS-HH3      |
| ALS-040-R | 5          | 8    | 22   | 40  | 66  | 25    | 16 | 2   | 12.5 | ALS-HH4      |
| ALS-055-R | 5          | 10   | 28   | 55  | 78  | 30    | 18 | 2   | 15   | ALS-HH5      |
| ALS-065-R | 5          | 14   | 38   | 65  | 90  | 35    | 20 | 2.5 | 17.5 | ALS-HH6      |
| ALS-080-R | 10         | 19   | 45   | 80  | 114 | 45    | 24 | 3   | 22.5 | ALS-HH7      |
| ALS-095-R | 8          | 19   | 55   | 95  | 126 | 50    | 26 | 3   | 25   | -            |
| ALS-105-R | 10         | 19   | 60   | 105 | 140 | 56    | 28 | 3.5 | 28   | -            |

\* Pilot bore indicates center processing.

**■ Standard bore diameter**

| Model     | Standard bore diameter d1-d2 [mm] |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|-----------------------------------|---|---|---|------|---|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|           | 3                                 | 4 | 5 | 6 | 6.35 | 8 | 9 | 9.525 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 19 | 20 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 50 | 55 | 60 |
| ALS-014-R | *                                 | * | * | * | *    |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-020-R |                                   |   | * | * | *    | * | * | *     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-030-R |                                   |   |   |   |      | * | * | *     | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-040-R |                                   |   |   |   |      |   |   |       | *  | *  | *  | *  | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-055-R |                                   |   |   |   |      |   |   |       |    |    |    | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  |
| ALS-065-R |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  | *  |    |
| ALS-080-R |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    | *  | *  | *  | *  | *  | *  | *  | *  | *  |    |
| ALS-095-R |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    | *  | *  | *  | *  | *  | *  | *  | *  | *  |    |
| ALS-105-R |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    | *  | *  | *  | *  | *  | *  | *  | *  | *  |    |

\* The bore diameters with \* are supported as standard bore diameters.  
 \* Processing with the no keyway is available for ø11 or smaller, and processing for the former JIS, new JIS, and new standard motor is available for ø12 or larger.  
 \* New JIS and processing compatible to new standard motor are set as the only standards for the bore diameters of ALS-095 and 105.

**Ordering Information**

**ALS - 055 - R - 24N - 28H**

Size: 055  
 Element type: R: Hardness 97 JIS A tight fit  
 Bore dia.: d1-d2  
 Blank: Pilot bore item  
 Bore specification: Blank: Previous edition, JIS (Class 2) compliance, H: New JIS compliance, N: New standard motor compliance



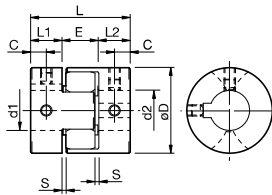
**■ Specification**

| Model     | Torque       |            | Max. permissible misalignment |                          |                         | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Radial displacement [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] | Standard bore processed item price | Pilot bore item price |
|-----------|--------------|------------|-------------------------------|--------------------------|-------------------------|--|-------------------------------|----------------------------|--|-----------|------------------------------------|-----------------------|
|           | Normal [N·m] | Max. [N·m] | Parallel offset [mm]          | Angular misalignment [°] | Axial displacement [mm] |  |                               |                            |  |           |                                    |                       |
| ALS-014-Y | 1.2          | 2.4        | 0.10                          | 1                        | 0 to + 0.6              | 34100                                    | 12                            | 200                        | 1.91 x 10 <sup>-7</sup>                | 0.007     | -                                  | -                     |
| ALS-020-Y | 3            | 6          | 0.15                          | 1                        | 0 to + 0.8              | 23800                                    | 24                            | 210                        | 1.08 x 10 <sup>-6</sup>                | 0.018     | -                                  | -                     |
| ALS-030-Y | 7.5          | 15         | 0.15                          | 1                        | 0 to + 1.0              | 15900                                    | 73                            | 330                        | 6.25 x 10 <sup>-6</sup>                | 0.047     | -                                  | -                     |
| ALS-040-Y | 10           | 20         | 0.10                          | 1                        | 0 to + 1.2              | 11900                                    | 760                           | 940                        | 3.87 x 10 <sup>-5</sup>                | 0.15      | -                                  | -                     |
| ALS-055-Y | 35           | 70         | 0.15                          | 1                        | 0 to + 1.4              | 8700                                     | 1400                          | 1160                       | 1.66 x 10 <sup>-4</sup>                | 0.35      | -                                  | -                     |
| ALS-065-Y | 95           | 190        | 0.15                          | 1                        | 0 to + 1.5              | 7400                                     | 2100                          | 1200                       | 3.57 x 10 <sup>-4</sup>                | 0.51      | -                                  | -                     |
| ALS-080-Y | 190          | 380        | 0.15                          | 1                        | 0 to + 1.8              | 6000                                     | 4000                          | 1430                       | 1.06 x 10 <sup>-3</sup>                | 1.01      | -                                  | -                     |
| ALS-095-Y | 265          | 530        | 0.15                          | 1                        | -0.5 to + 2.0           | 5000                                     | 6000                          | 2400                       | 2.24 x 10 <sup>-3</sup>                | 1.50      | -                                  | -                     |
| ALS-105-Y | 310          | 620        | 0.20                          | 1                        | -0.9 to + 2.0           | 4500                                     | 7000                          | 4000                       | 3.72 x 10 <sup>-3</sup>                | 2.05      | -                                  | -                     |

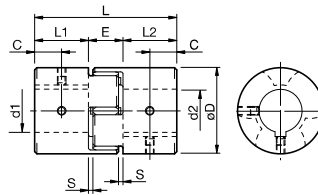
\* The spring constant values are measured at 20°C.  
 \* The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.  
 \* Dynamic balance is not considered for the maximum rotation speed.  
 \* Negative axial displacements of ALS-014 to 080-Y are not allowed.

**■ Dimensions**

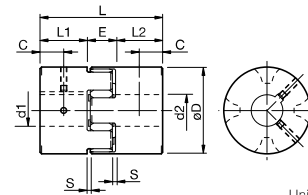
■ALS-014 to 030



■ALS-040



■ALS-055 to 105



Unit [mm]

| Model     | d1·d2      |      |      | D   | L   | L1·L2 | E  | S   | C    | CAD file No. |
|-----------|------------|------|------|-----|-----|-------|----|-----|------|--------------|
|           | Pilot bore | Min. | Max. |     |     |       |    |     |      |              |
| ALS-014-Y | 3          | 3    | 6.5  | 14  | 22  | 7     | 8  | 1   | 3.5  | ALS-HH1      |
| ALS-020-Y | 4          | 4    | 9.6  | 20  | 30  | 10    | 10 | 1   | 5    | ALS-HH2      |
| ALS-030-Y | 5          | 6    | 14   | 30  | 35  | 11    | 13 | 1.5 | 5.5  | ALS-HH3      |
| ALS-040-Y | 5          | 8    | 22   | 40  | 66  | 25    | 16 | 2   | 12.5 | ALS-HH4      |
| ALS-055-Y | 5          | 10   | 28   | 55  | 78  | 30    | 18 | 2   | 15   | ALS-HH5      |
| ALS-065-Y | 5          | 14   | 38   | 65  | 90  | 35    | 20 | 2.5 | 17.5 | ALS-HH6      |
| ALS-080-Y | 10         | 19   | 45   | 80  | 114 | 45    | 24 | 3   | 22.5 | ALS-HH7      |
| ALS-095-Y | 8          | 19   | 55   | 95  | 126 | 50    | 26 | 3   | 25   | -            |
| ALS-105-Y | 10         | 19   | 60   | 105 | 140 | 56    | 28 | 3.5 | 28   | -            |

\* Pilot bore indicates center processing.

**■ Standard bore diameter**

| Model     | Standard bore diameter d1·d2 [mm] |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|-----------------------------------|---|---|---|------|---|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|           | 3                                 | 4 | 5 | 6 | 6.35 | 8 | 9 | 9.525 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 19 | 20 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 50 | 55 | 60 |
| ALS-014-Y | +                                 | + | + | + | +    |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-020-Y |                                   |   | + | + | +    | + | + | +     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-030-Y |                                   |   |   |   |      | + | + | +     | +  | +  | +  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-040-Y |                                   |   |   |   |      |   |   |       |    | +  | +  | +  | +  | +  | +  | +  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ALS-055-Y |                                   |   |   |   |      |   |   |       |    |    |    |    | +  | +  | +  | +  | +  | +  | +  |    |    |    |    |    |    |    |    |    |    |    |
| ALS-065-Y |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    | +  | +  | +  |    |    |    |    |    |    |    |
| ALS-080-Y |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    | +  | +  | +  | +  | +  | +  | +  |    |    |
| ALS-095-Y |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | +  | +  | +  | +  | +  | +  |
| ALS-105-Y |                                   |   |   |   |      |   |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | +  | +  | +  | +  | +  | +  |

\* The bore diameters with + are supported as standard bore diameters.  
 \* Processing with no keyway is available for ø11 or smaller, and processing for the former JIS, new JIS, and new standard motor is available for ø12 or larger.  
 \* New JIS and processing compatible to new standard motor are set as the only standards for the bore diameters of ALS-095 and 105.

**Ordering Information**

**ALS - 055 - Y - 24N - 28H**

Size: 055  
 Element type: Y  
 Hardness: 97 JIS A tight fit  
 Bore dia.: d1-d2  
 Blank: Pilot bore item  
 Bore specification: N  
 Blank: Previous edition  
 JIS (Class 2) compliance  
 H: New JIS compliance  
 N: New standard motor compliance

SERVO FLEX  
SFC

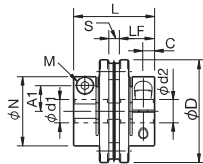
## ■ Specification

| Model      | Permissible torque [N·m] | Max. permissible misalignment |                          |                         | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Radial displacement [N/mm] | Shape TYPE | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] | Price |
|------------|--------------------------|-------------------------------|--------------------------|-------------------------|--|-------------------------------|----------------------------|------------|--|-----------|-------|
|            |                          | Parallel offset [mm]          | Angular misalignment [°] | Axial displacement [mm] |  |                               |                            |            |  |           |       |
| SFC-005SA2 | 0.6                      | 0.02                          | 0.5                      | ±0.05                   | 10000                                    | 500                           | 140                        | C          | 0.25×10 <sup>-6</sup>                  | 0.007     | -     |
| SFC-010SA2 | 1.0                      | 0.02                          | 1                        | ±0.1                    | 10000                                    | 1400                          | 140                        | C          | 0.58×10 <sup>-6</sup>                  | 0.011     | -     |
| SFC-020SA2 | 2.0                      | 0.02                          | 1                        | ±0.15                   | 10000                                    | 3700                          | 64                         | C          | 2.36×10 <sup>-6</sup>                  | 0.025     | -     |
| SFC-030SA2 | 5.0                      | 0.02                          | 1                        | ±0.2                    | 10000                                    | 8000                          | 64                         | A          | 4.00×10 <sup>-6</sup>                  | 0.033     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 6.06×10 <sup>-6</sup>                  | 0.041     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 8.12×10 <sup>-6</sup>                  | 0.049     | -     |
| SFC-035SA2 | 8.0                      | 0.02                          | 1                        | ±0.25                   | 10000                                    | 18000                         | 112                        | C          | 18.43×10 <sup>-6</sup>                 | 0.084     | -     |
| SFC-040SA2 | 10                       | 0.02                          | 1                        | ±0.3                    | 10000                                    | 20000                         | 80                         | A          | 16.42×10 <sup>-6</sup>                 | 0.076     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 22.98×10 <sup>-6</sup>                 | 0.090     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 29.53×10 <sup>-6</sup>                 | 0.105     | -     |
| SFC-050SA2 | 25                       | 0.02                          | 1                        | ±0.4                    | 10000                                    | 32000                         | 48                         | A          | 54.88×10 <sup>-6</sup>                 | 0.156     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 77.10×10 <sup>-6</sup>                 | 0.185     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 99.33×10 <sup>-6</sup>                 | 0.214     | -     |
| SFC-060SA2 | 60                       | 0.02                          | 1                        | ±0.45                   | 10000                                    | 70000                         | 76.4                       | A          | 143.7×10 <sup>-6</sup>                 | 0.279     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 206.1×10 <sup>-6</sup>                 | 0.337     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 268.5×10 <sup>-6</sup>                 | 0.396     | -     |
| SFC-080SA2 | 100                      | 0.02                          | 1                        | ±0.55                   | 10000                                    | 140000                        | 128                        | C          | 709.3×10 <sup>-6</sup>                 | 0.727     | -     |
| SFC-090SA2 | 180                      | 0.02                          | 1                        | ±0.65                   | 10000                                    | 100000                        | 108                        | C          | 1227×10 <sup>-6</sup>                  | 0.959     | -     |
| SFC-100SA2 | 250                      | 0.02                          | 1                        | ±0.74                   | 10000                                    | 120000                        | 111                        | C          | 1858×10 <sup>-6</sup>                  | 1.181     | -     |

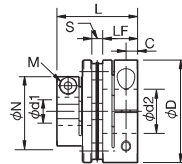
\* The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.  
\* The torsional stiffness indicates the actual measurement value of element.

## ■ Dimensions

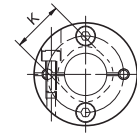
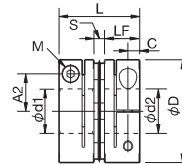
■ TYPE A



■ TYPE B



■ TYPE C



Unit [mm]

| Model      | d1 <sup>*1</sup> |      | d2 <sup>*1</sup> |      | D   | N    | L     | LF    | S    | A1   | A2                | C    | K    | M                    | Tightening torque [N·m]  | Shape TYPE | CAD file No. |      |   |          |
|------------|------------------|------|------------------|------|-----|------|-------|-------|------|------|-------------------|------|------|----------------------|--------------------------|------------|--------------|------|---|----------|
|            | Min.             | Max. | Min.             | Max. |     |      |       |       |      |      |                   |      |      |                      |                          |            |              |      |   |          |
| SFC-005SA2 | 4                | 6    | 4                | 6    | 16  | -    | 16.7  | 7.85  | 1.0  | -    | 4.8               | 2.5  | 6.5  | 2-M2                 | 0.4 to 0.5               | C          | C005S2B1     |      |   |          |
| SFC-010SA2 | 4                | 8    | 4                | 8    | 19  | -    | 19.35 | 9.15  | 1.05 | -    | 5.8 <sup>*2</sup> | 3.15 | 8.5  | 2-M2.5 <sup>*3</sup> | 1.0 to 1.1 <sup>*3</sup> | C          | C010S2B1     |      |   |          |
| SFC-020SA2 | 5                | 10   | 5                | 10   | 26  | -    | 23.15 | 10.75 | 1.65 | -    | 9.5               | 3.3  | 10.6 | 2-M2.5               | 1.0 to 1.1               | C          | C020S2B1     |      |   |          |
| SFC-030SA2 | 5                | 10   | 5                | 10   | 34  | 21.6 | 27.3  | 12.4  | 2.5  | 8    | -                 | 3.75 | 14.5 | 2-M3                 | 1.5 to 1.9               | A          | C030S2B1     |      |   |          |
|            | 5                | 10   | Over10           | 14   |     |      |       |       |      |      |                   |      |      |                      |                          |            | 8            | 12.5 | B | C030S2B2 |
|            | Over 10          | 14   | Over10           | 14   |     |      |       |       |      |      |                   |      |      |                      |                          |            | -            | 12.5 | C | C030S2B3 |
| SFC-035SA2 | 8                | 16   | 8                | 16   | 39  | -    | 34.0  | 15.5  | 3.0  | -    | 14.0              | 4.5  | 17   | 2-M4                 | 3.4 to 4.1               | C          | C035S2B1     |      |   |          |
| SFC-040SA2 | 8                | 15   | 8                | 15   | 44  | 29.6 | 34.0  | 15.5  | 3.0  | 11   | -                 | 4.5  | 19.5 | 2-M4                 | 3.4 to 4.1               | A          | C040S2B1     |      |   |          |
|            | 8                | 15   | Over 15          | 19   |     |      |       |       |      |      |                   |      |      |                      |                          |            | 11           | 17.0 | B | C040S2B2 |
|            | Over 15          | 19   | Over 15          | 19   |     |      |       |       |      |      |                   |      |      |                      |                          |            | -            | 17.0 | C | C040S2B3 |
| SFC-050SA2 | 10               | 19   | 10               | 19   | 56  | 38   | 43.4  | 20.5  | 2.4  | 14.5 | -                 | 6    | 26   | 2-M5                 | 7.0 to 8.5               | A          | C050S2B1     |      |   |          |
|            | 10               | 19   | Over 19          | 25   |     |      |       |       |      |      |                   |      |      |                      |                          |            | 14.5         | 22.0 | B | C050S2B2 |
|            | Over 19          | 25   | Over 19          | 25   |     |      |       |       |      |      |                   |      |      |                      |                          |            | -            | 22.0 | C | C050S2B3 |
| SFC-060SA2 | 12               | 24   | 12               | 24   | 68  | 46   | 53.6  | 25.2  | 3.2  | 17.5 | -                 | 7.75 | 31   | 2-M6                 | 14 to 15                 | A          | C060S2B1     |      |   |          |
|            | 12               | 24   | Over 24          | 30   |     |      |       |       |      |      |                   |      |      |                      |                          |            | 17.5         | 26.5 | B | C060S2B2 |
|            | Over 24          | 30   | Over 24          | 30   |     |      |       |       |      |      |                   |      |      |                      |                          |            | -            | 26.5 | C | C060S2B3 |
| SFC-080SA2 | 20               | 35   | 20               | 35   | 82  | -    | 68    | 30    | 8    | -    | 28                | 9    | 38   | 2-M8                 | 27 to 30                 | C          | C080S2B1     |      |   |          |
| SFC-090SA2 | 25               | 40   | 25               | 40   | 94  | -    | 68.3  | 30    | 8.3  | -    | 34                | 9    | 42   | 2-M8                 | 27 to 30                 | C          | C090S2B1     |      |   |          |
| SFC-100SA2 | 35               | 45   | 35               | 45   | 104 | -    | 69.8  | 30    | 9.8  | -    | 39                | 9    | 48   | 2-M8                 | 27 to 30                 | C          | C100S2B1     |      |   |          |

\*<sup>1</sup> The torque permitted could be limited depending on the bore diameter. Refer to the "Standard bore diameter" on page 15.

\*<sup>2</sup> 2 indicates the value when d1 or d2 is ø4 to ø7. It will be 0.6 if d1 or d2 is ø8.

\*<sup>3</sup> 3 indicates the value when d1 or d2 is ø4 to ø7. It will be M2 if d1 or d2 is ø8. The tightening torque of M2 is 0.4 to 0.5N·m.

\* The dimensional tolerance of the target shaft is h7. However, for a shaft diameter of ø35, the tolerance is  $\begin{smallmatrix} -0.012 \\ -0.025 \end{smallmatrix}$ . Contact us for tolerances other than h7.

SERVO FLEX  
SFC

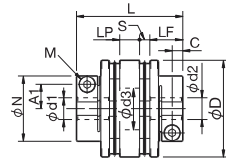
■ **Specification**

| Model      | Permissible torque [N·m] | Max. permissible misalignment |                          |                         | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Radial displacement [N/mm] | Shape TYPE | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] | Price |
|------------|--------------------------|-------------------------------|--------------------------|-------------------------|--|-------------------------------|----------------------------|------------|--|-----------|-------|
|            |                          | Parallel offset [mm]          | Angular misalignment [°] | Axial displacement [mm] |  |                               |                            |            |  |           |       |
| SFC-005DA2 | 0.6                      | 0.05                          | 0.5 (one side)           | ±0.1                    | 10000                                    | 250                           | 70                         | C          | 0.36×10 <sup>-6</sup>                  | 0.010     | -     |
| SFC-010DA2 | 1.0                      | 0.11                          | 1 (one side)             | ±0.2                    | 10000                                    | 700                           | 70                         | C          | 0.79×10 <sup>-6</sup>                  | 0.015     | -     |
| SFC-020DA2 | 2.0                      | 0.15                          | 1 (one side)             | ±0.33                   | 10000                                    | 1850                          | 32                         | C          | 3.40×10 <sup>-6</sup>                  | 0.035     | -     |
| SFC-030DA2 | 5.0                      | 0.18                          | 1 (one side)             | ±0.4                    | 10000                                    | 4000                          | 32                         | A          | 7.33×10 <sup>-6</sup>                  | 0.053     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 9.39×10 <sup>-6</sup>                  | 0.061     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 11.45×10 <sup>-6</sup>                 | 0.069     | -     |
| SFC-035DA2 | 8.0                      | 0.24                          | 1 (one side)             | ±0.5                    | 10000                                    | 9000                          | 56                         | C          | 26.78×10 <sup>-6</sup>                 | 0.123     | -     |
| SFC-040DA2 | 10                       | 0.24                          | 1 (one side)             | ±0.6                    | 10000                                    | 10000                         | 40                         | A          | 29.49×10 <sup>-6</sup>                 | 0.122     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 36.05×10 <sup>-6</sup>                 | 0.136     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 42.61×10 <sup>-6</sup>                 | 0.151     | -     |
| SFC-050DA2 | 25                       | 0.28                          | 1 (one side)             | ±0.8                    | 10000                                    | 16000                         | 24                         | A          | 96.94×10 <sup>-6</sup>                 | 0.246     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 119.2×10 <sup>-6</sup>                 | 0.275     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 141.4×10 <sup>-6</sup>                 | 0.304     | -     |
| SFC-060DA2 | 60                       | 0.34                          | 1 (one side)             | ±0.9                    | 10000                                    | 35000                         | 38.2                       | A          | 252.4×10 <sup>-6</sup>                 | 0.440     | -     |
|            |                          |                               |                          |                         |  |                               |                            | B          | 314.8×10 <sup>-6</sup>                 | 0.498     | -     |
|            |                          |                               |                          |                         |  |                               |                            | C          | 377.3×10 <sup>-6</sup>                 | 0.556     | -     |
| SFC-080DA2 | 100                      | 0.52                          | 1 (one side)             | ±1.10                   | 10000                                    | 70000                         | 64                         | C          | 1034×10 <sup>-6</sup>                  | 1.051     | -     |
| SFC-090DA2 | 180                      | 0.52                          | 1 (one side)             | ±1.30                   | 10000                                    | 50000                         | 54                         | C          | 1776×10 <sup>-6</sup>                  | 1.373     | -     |
| SFC-100DA2 | 250                      | 0.52                          | 1 (one side)             | ±1.48                   | 10000                                    | 60000                         | 55.5                       | C          | 2704×10 <sup>-6</sup>                  | 1.707     | -     |

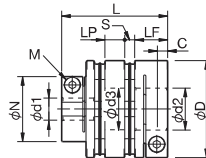
\* The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.  
\* The torsional stiffness indicates the actual measurement value of element.

■ **Dimensions**

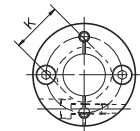
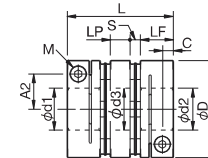
■ TYPE A



■ TYPE B



■ TYPE C



Unit [mm]

| Model      | d1 <sup>*1</sup> |      | d2 <sup>*1</sup> |      | D   | N    | L     | LF    | LP   | S    | A1   | A2                | C    | d3   | K    | M                    | Tightening torque [N·m]  | Shape TYPE | CAD file No. |
|------------|------------------|------|------------------|------|-----|------|-------|-------|------|------|------|-------------------|------|------|------|----------------------|--------------------------|------------|--------------|
|            | Min.             | Max. | Min.             | Max. |     |      |       |       |      |      |      |                   |      |      |      |                      |                          |            |              |
| SFC-005DA2 | 4                | 6    | 4                | 6    | 16  | -    | 23.2  | 7.85  | 5.5  | 1.0  | -    | 4.8               | 2.5  | 6.5  | 6.5  | 2-M2                 | 0.4 to 0.5               | C          | C005D2B1     |
| SFC-010DA2 | 4                | 8    | 4                | 8    | 19  | -    | 25.9  | 9.15  | 5.5  | 1.05 | -    | 5.8 <sup>*2</sup> | 3.15 | 8.5  | 8.5  | 2-M2.5 <sup>*3</sup> | 1.0 to 1.1 <sup>*3</sup> | C          | C010D2B1     |
| SFC-020DA2 | 5                | 10   | 5                | 10   | 26  | -    | 32.3  | 10.75 | 7.5  | 1.65 | -    | 9.5               | 3.3  | 10.6 | 10.6 | 2-M2.5               | 1.0 to 1.1               | C          | C020D2B1     |
|            | 5                | 10   | 5                | 10   | 34  | 21.6 | 37.8  | 12.4  | 8    | 2.5  | 8    | -                 | 3.75 | 15   | 14.5 | 2-M3                 | 1.5 to 1.9               | A          | C030D2B1     |
| SFC-030DA2 | 5                | 10   | Over 10          | 14   | 34  | -    | 37.8  | 12.4  | 8    | 2.5  | 8    | 12.5              | 3.75 | 15   | 14.5 | 2-M3                 | 1.5 to 1.9               | B          | C030D2B2     |
|            | Over 10          | 14   | Over 10          | 14   |     |      |       |       |      |      | -    | 12.5              |      |      |      |                      |                          | C          | C030D2B3     |
|            | Over 10          | 14   | Over 10          | 14   |     |      |       |       |      |      | -    | 12.5              |      |      |      |                      |                          |            |              |
| SFC-035DA2 | 8                | 16   | 8                | 16   | 39  | -    | 48    | 15.5  | 11   | 3    | -    | 14.0              | 4.5  | 17   | 17   | 2-M4                 | 3.4 to 4.1               | C          | C035D2B1     |
| SFC-040DA2 | 8                | 15   | 8                | 15   | 44  | 29.6 | 48    | 15.5  | 11   | 3    | 11   | -                 | 4.5  | 20   | 19.5 | 2-M4                 | 3.4 to 4.1               | A          | C040D2B1     |
|            | 8                | 15   | Over 15          | 19   |     |      |       |       |      |      | 11   | 17.0              |      |      |      |                      |                          | B          | C040D2B2     |
|            | Over 15          | 19   | Over 15          | 19   |     |      |       |       |      |      | -    | 17.0              |      |      |      |                      |                          | C          | C040D2B3     |
| SFC-050DA2 | 10               | 19   | 10               | 19   | 56  | 38   | 59.8  | 20.5  | 14   | 2.4  | 14.5 | -                 | 6    | 26   | 26   | 2-M5                 | 7.0 to 8.5               | A          | C050D2B1     |
|            | 10               | 19   | Over 19          | 25   |     |      |       |       |      |      | 14.5 | 22.0              |      |      |      |                      |                          | B          | C050D2B2     |
|            | Over 19          | 25   | Over 19          | 25   |     |      |       |       |      |      | -    | 22.0              |      |      |      |                      |                          | C          | C050D2B3     |
| SFC-060DA2 | 12               | 24   | 12               | 24   | 68  | 46   | 73.3  | 25.2  | 16.5 | 3.2  | 17.5 | -                 | 7.75 | 31   | 31   | 2-M6                 | 14 to 15                 | A          | C060D2B1     |
|            | 12               | 24   | Over 24          | 30   |     |      |       |       |      |      | 17.5 | 26.5              |      |      |      |                      |                          | B          | C060D2B2     |
|            | Over 24          | 30   | Over 24          | 30   |     |      |       |       |      |      | -    | 26.5              |      |      |      |                      |                          | C          | C060D2B3     |
| SFC-080DA2 | 20               | 35   | 20               | 35   | 82  | -    | 98    | 30    | 22   | 8    | -    | 28                | 9    | 40   | 38   | 2-M8                 | 27 to 30                 | C          | C080D2B1     |
| SFC-090DA2 | 25               | 40   | 25               | 40   | 94  | -    | 98.6  | 30    | 22   | 8.3  | -    | 34                | 9    | 47   | 42   | 2-M8                 | 27 to 30                 | C          | C090D2B1     |
| SFC-100DA2 | 35               | 45   | 35               | 45   | 104 | -    | 101.6 | 30    | 22   | 9.8  | -    | 39                | 9    | 50   | 48   | 2-M8                 | 27 to 30                 | C          | C100D2B1     |

\*1 Permissible torque could be limited depending on the bore diameter. Refer to the "Standard bore diameter" on page 17.

\*2 indicates the value when d1 or d2 is ø4 to ø7. It will be 6.0 if d1 or d2 is ø8.

\*3 indicates the value when d1 or d2 is ø4 to ø7. It will be M2 if d1 or d2 is ø8. The tightening torque of M2 is 0.4 to 0.5N·m.

\* The dimensional tolerance of the target shaft is h7. However, for a shaft diameter of ø35, the tolerance is <sup>h7</sup>±0.035. Contact us for tolerances other than h7.