

# CAM FOLLOWERS

# STAINLESS STEEL



## Type and Part Code

| Type                                                                                                                    | Applicable axis diameter | Feature                                                                                                                                                                             | Part Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>CFS..MA<br/>compact outer ring</p> | φ 2.5 ~ φ 6              | Built-in very thin needle roller.<br>Enables compact design due to very small outer ring diameter in comparison to stud diameter.                                                   | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage         </p> <p> <b>CFS</b>   <b>6</b>   <b>V</b>   <b>M</b>   <b>A</b> </p> <p>           ↑   ↑   ↑   ↑   ↑<br/>           Type   Stud diameter   <b>Stainless steel</b>   <b>A</b>: With hexagon socket on the stud head         </p>                                                                                                                                                                                                                                                                                                                                                                      |
|  <p>CF..MA<br/>Hexagon hole</p>        | φ 3 ~ φ 30               | Hexagon sockets on the stud head.<br>Easy mounting with hex-wrench.<br>Available with hexagon sockets at the thread side mode (CF-B).<br>(Applicable for shaft diameter 12 or more) | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage         </p> <p> <b>UU</b>: With seal<br/> <b>None</b>: With shield         </p> <p> <b>Option</b> (Dedicated grease nipple : Brass)         </p> <p> <b>CF</b>   <b>16</b>   <b>V</b>   <b>M</b>   <b>UU</b>   <b>R</b>   <b>A</b>   <b>N</b> </p> <p>           ↑   ↑   ↑   ↑   ↑   ↑   ↑<br/>           Type   Stud diameter   <b>Stainless steel</b>   <b>R</b>: Crowned outer ring   <b>A</b>: With hexagon socket on the stud head<br/> <b>None</b>: Cylindrical outer ring   <b>B</b>: With hexagon socket on the thread side.<br/>           (Applicable for shaft diameter 12 or more)         </p> |
|  <p>CF..MAB</p>                      | φ 10 ~ φ 30              | Both of stud head and thread ends have hexagon holes and integrated concave grease nipples.<br>Available for mounting with either hexagon sockets and lubrication from both sides.  | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage         </p> <p> <b>UU</b>: With seal<br/> <b>None</b>: With shield         </p> <p> <b>CF</b>   <b>16</b>   <b>V</b>   <b>M</b>   <b>UU</b>   <b>R</b>   <b>AB</b> </p> <p>           ↑   ↑   ↑   ↑   ↑   ↑   ↑<br/>           Type   Stud diameter   <b>Stainless steel</b>   <b>R</b>: Crowned outer ring   <b>AB</b>: With hexagon socket on both sides.<br/> <b>None</b>: Cylindrical outer ring   (With integrated concave nipple : Stainless steel)         </p>                                                                                                                                      |
|  <p>CF..M</p>                        | φ 5 ~ φ 30               | General purpose cam follower with screwdriver groove on the stud head.                                                                                                              | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage         </p> <p> <b>UU</b>: With seal<br/> <b>None</b>: With shield         </p> <p> <b>CF</b>   <b>16</b>   <b>V</b>   <b>M</b>   <b>UU</b>   <b>R</b>   <b>N</b> </p> <p>           ↑   ↑   ↑   ↑   ↑   ↑   ↑<br/>           Type   Stud diameter   <b>Stainless steel</b>   <b>R</b>: Crowned outer ring   <b>Option</b><br/> <b>None</b>: Cylindrical outer ring   (Dedicated grease nipple : Brass)         </p>                                                                                                                                                                                        |

| Type                                                                                                                           | Applicable axis diameter | Feature                                                                                                                                                                                                                                                                    | Part Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>CFH..MA<br/>Hexagon socket, Eccentric</p> | φ 5 ~ φ 30               | Available for the same mounting hole as general type. Compact and high accuracy eccentric cam followers with integrated structure enables easy fine positioning adjustment simply by rotating stud due to eccentric stud head shifting 0.2 to 1mm from stud mounting axis. | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage<br/> <b>UU</b>: With seal<br/> <b>None</b>: With shield </p> <p> <b>CFH</b> <b>16</b> <b>V</b> <b>M</b> <b>UU</b> <b>R</b> <b>A</b> </p> <p> Type                      Stud diameter                      <b>Stainless steel</b> </p> <p> <b>R</b>: Crowned outer ring<br/> <b>None</b>: Cylindrical outer ring<br/> <b>A</b>: With hexagon socket on the stud head<br/> <b>B</b>: With hexagon socket on the thread side.<br/> (Applicable for shaft diameter 12 or more) </p>                                                                                                                                 |
|  <p>CFH..MAB</p>                              | φ 12 ~ φ 30              | Eccentric cam follower with integrated concave grease nipple on both sides. Available for mounting and lubrication with hexagon holes on both sides.                                                                                                                       | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage<br/> <b>UU</b>: With seal<br/> <b>None</b>: With shield </p> <p> <b>CFH</b> <b>16</b> <b>V</b> <b>M</b> <b>UU</b> <b>R</b> <b>AB</b> </p> <p> Type                      Stud diameter                      <b>Stainless steel</b> </p> <p> <b>R</b>: Crowned outer ring<br/> <b>None</b>: Cylindrical outer ring<br/> <b>AB</b>: With hexagon socket on both sides.<br/> (With integrated concave nipple :<br/> Stainless steel) </p>                                                                                                                                                                           |
|  <p>CFT..M<br/>Lubrication tap hole</p>     | φ 6 ~ φ 30               | Cam follower with tap for piping at stud head and thread of general type. Optimal for location that requires concentrated lubrication piping.                                                                                                                              | <p> <b>V</b>: Full complement<br/> <b>None</b>: With cage<br/> <b>UU</b>: With seal<br/> <b>None</b>: With shield </p> <p> <b>CFT</b> <b>16</b> <b>V</b> <b>M</b> <b>UU</b> <b>R</b> <b>A</b> </p> <p> <b>CFT</b>: Standard type<br/> <b>CFHT</b>: Eccentric type                      Stud diameter                      <b>Stainless steel</b> </p> <p> <b>R</b>: Crowned outer ring<br/> <b>None</b>: Cylindrical outer ring<br/> <b>A</b>: With hexagon socket on the stud head<br/> (Applicable shaft diameter φ 12 ~ φ 30)<br/> <b>B</b>: With hexagon socket on the thread side.<br/> (Applicable shaft diameter φ 12 ~ φ 30)<br/> <b>None</b>: Standard type </p> |

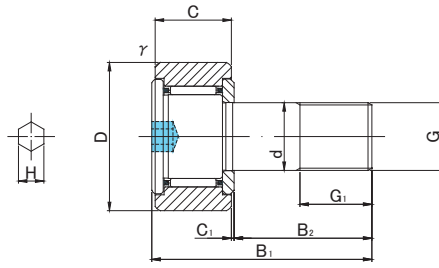
CAM FOLLOWERS  
STAINLESS STEEL  
HEXAGON SOCKET ON STUD HEAD



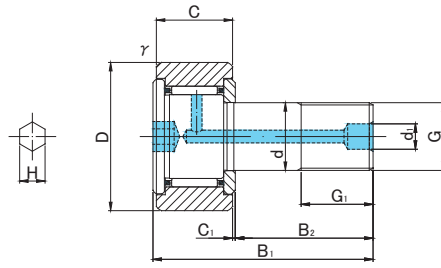
CF..MA



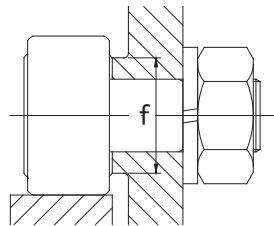
CF..VMA



CF3(V)MA~CF10-1(V)MA



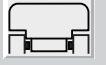
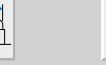
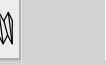
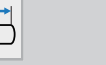
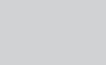
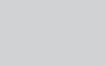
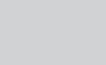
CF10(V)MAK~CF10-1(V)MAK



STAINLESS STEEL

CF..MA TYPE

Prepacked Grease

| Stud diameter<br>(mm) |               | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed *                                                                    | Track load capacity                                                                 |                                                                                     | Max tightening torque | Mass |
|-----------------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|------|
|                       |               | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring<br>R250(CF3 ~ CF5) R500(CF6 ~ CF10-1)                          |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
|                       |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                       |      |
| h7 tolerance          | Without seals | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                 | d                                                                                 | G                                                                                  | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3                                                                                  | C1                                                                                  | d1                                                                                  | d2                                                                                  | H                                                                                   | r's min                                                                             | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N·m                                                                                 | g (approx)                                                                          |                                                                                     |                       |      |
| 3                     | 0<br>-0.010   | CF 3MA                                                                            | CF 3MUUA                                                                          | CF 3MRA                                                                           | CF 3MUURA                                                                         | 10                                                                                | 7                                                                                 | 3                                                                                  | M3×0.5                                                                              | 5                                                                                   | 17                                                                                  | 9                                                                                   | —                                                                                   | 0.5                                                                                 | —                                                                                   | —                                                                                   | 1.5                                                                                 | 0.2                                                                                 | 6.8                                                                                 | 1 350                                                                               | 1 080                                                                               | 360                                                                                 | 47 000                                                                              | 1 370                                                                               | 370                                                                                 | 0.4                                                                                 | 4.5                                                                                 |                       |      |
|                       |               | CF 3VMA                                                                           | CF 3VMUUA                                                                         | CF 3VMRA                                                                          | CF 3VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 2 570                                                                               | 2 300                                                                               | 360                                                                                 | 18 800                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 4                     | 0<br>-0.012   | CF 4MA                                                                            | CF 4MUUA                                                                          | CF 4MRA                                                                           | CF 4MUURA                                                                         | 12                                                                                | 8                                                                                 | 4                                                                                  | M4×0.7                                                                              | 6                                                                                   | 20                                                                                  | 11                                                                                  | —                                                                                   | 0.5                                                                                 | —                                                                                   | —                                                                                   | 2                                                                                   | 0.3                                                                                 | 8.6                                                                                 | 1 890                                                                               | 1 880                                                                               | 780                                                                                 | 37 000                                                                              | 1 760                                                                               | 470                                                                                 | 1                                                                                   | 7.5                                                                                 |                       |      |
|                       |               | CF 4VMA                                                                           | CF 4VMUUA                                                                         | CF 4VMRA                                                                          | CF 4VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 3 680                                                                               | 3 950                                                                               | 780                                                                                 | 14 800                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 5                     | 0<br>-0.012   | CF 5MA                                                                            | CF 5MUUA                                                                          | CF 5MRA                                                                           | CF 5MUURA                                                                         | 13                                                                                | 9                                                                                 | 5                                                                                  | M5×0.8                                                                              | 7.5                                                                                 | 23                                                                                  | 13                                                                                  | —                                                                                   | 0.5                                                                                 | —                                                                                   | —                                                                                   | 2.5                                                                                 | 0.3                                                                                 | 9.7                                                                                 | 2 880                                                                               | 2 540                                                                               | 1 420                                                                               | 29 000                                                                              | 2 250                                                                               | 530                                                                                 | 2                                                                                   | 10.5                                                                                |                       |      |
|                       |               | CF 5VMA                                                                           | CF 5VMUUA                                                                         | CF 5VMRA                                                                          | CF 5VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 4 690                                                                               | 5 060                                                                               | 1 420                                                                               | 11 600                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 6                     | 0<br>-0.012   | CF 6MA                                                                            | CF 6MUUA                                                                          | CF 6MRA                                                                           | CF 6MUURA                                                                         | 16                                                                                | 11                                                                                | 6                                                                                  | M6×1                                                                                | 8                                                                                   | 28                                                                                  | 16                                                                                  | —                                                                                   | 0.6                                                                                 | —                                                                                   | —                                                                                   | 3                                                                                   | 0.3                                                                                 | 11                                                                                  | 3 330                                                                               | 3 330                                                                               | 2 110                                                                               | 25 000                                                                              | 3 430                                                                               | 1 080                                                                               | 3                                                                                   | 18.5                                                                                |                       |      |
|                       |               | CF 6VMA                                                                           | CF 6VMUUA                                                                         | CF 6VMRA                                                                          | CF 6VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 6 400                                                                               | 7 840                                                                               | 2 110                                                                               | 12 000                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 8                     | 0<br>-0.015   | CF 8MA                                                                            | CF 8MUUA                                                                          | CF 8MRA                                                                           | CF 8MUURA                                                                         | 19                                                                                | 11                                                                                | 8                                                                                  | M8×1.25                                                                             | 10                                                                                  | 32                                                                                  | 20                                                                                  | —                                                                                   | 0.6                                                                                 | —                                                                                   | —                                                                                   | 4                                                                                   | 0.3                                                                                 | 13                                                                                  | 3 960                                                                               | 4 330                                                                               | 4 710                                                                               | 20 000                                                                              | 4 020                                                                               | 1 370                                                                               | 8                                                                                   | 28.5                                                                                |                       |      |
|                       |               | CF 8VMA                                                                           | CF 8VMUUA                                                                         | CF 8VMRA                                                                          | CF 8VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 7 470                                                                               | 10 270                                                                              | 4 710                                                                               | 9 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                    | 0<br>-0.015   | CF10MA                                                                            | CF10MUUA                                                                          | CF10MRA                                                                           | CF10MUURA                                                                         | 22                                                                                | 12                                                                                | 10                                                                                 | M10×1.25                                                                            | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | —                                                                                   | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 4 700                                                                               | 1 670                                                                               | 15                                                                                  | 45                                                                                  |                       |      |
|                       |               | CF10VMA                                                                           | CF10VMUUA                                                                         | CF10VMRA                                                                          | CF10VMUURA                                                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                    | 0<br>-0.015   | CF10-1MA                                                                          | CF10-1MUUA                                                                        | CF10-1MRA                                                                         | CF10-1MUURA                                                                       | 26                                                                                | 12                                                                                | 10                                                                                 | M10×1.25                                                                            | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | —                                                                                   | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 5 490                                                                               | 2 060                                                                               | 15                                                                                  | 60                                                                                  |                       |      |
|                       |               | CF10-1VMA                                                                         | CF10-1VMUUA                                                                       | CF10-1VMRA                                                                        | CF10-1VMUURA                                                                      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                    | 0<br>-0.015   | CF10MAK                                                                           | CF10MUUAK                                                                         | CF10MRAK                                                                          | CF10MUURAK                                                                        | 22                                                                                | 12                                                                                | 10                                                                                 | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 4 700                                                                               | 1 670                                                                               | 15                                                                                  | 45                                                                                  |                       |      |
|                       |               | CF10VMAK                                                                          | CF10VMUUAK                                                                        | CF10VMRAK                                                                         | CF10VMUURAK                                                                       |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                    | 0<br>-0.015   | CF10-1MAK                                                                         | CF10-1MUUAK                                                                       | CF10-1MRAK                                                                        | CF10-1MUURAK                                                                      | 26                                                                                | 12                                                                                | 10                                                                                 | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 5 490                                                                               | 2 060                                                                               | 15                                                                                  | 60                                                                                  |                       |      |
|                       |               | CF10-1VMAK                                                                        | CF10-1VMUUAK                                                                      | CF10-1VMRAK                                                                       | CF10-1VMUURAK                                                                     |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

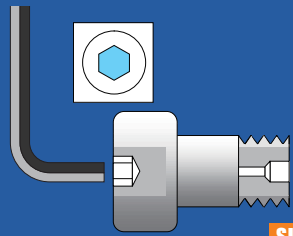
OUTER RINGS TOLERANCE (μm)

| TYPE                        | Cylindrical outer ring | Crowned outer ring |
|-----------------------------|------------------------|--------------------|
| CF3M,CF4M,CF5M,CF6M         | 0/-8                   | 0/-50              |
| CF8M,CF10M,CF10-1M,CF12M    | 0/-9                   | 0/-50              |
| CF12-1M,CF16M,CF18M,CF20-1M | 0/-11                  | 0/-50              |
| CF20M,CF24M,CF24-1M,CF30M   | 0/-13                  | 0/-50              |
| CF30-1M,CF30-2M             | 0/-15                  | 0/-50              |

ACCESSORIES

| TYPE                                              |              |              |          |
|---------------------------------------------------|--------------|--------------|----------|
| CF3M/CF4M/CF5M/CF6M/CF8M/CF10M/CF10-1M            | —            | —            | Attached |
| CF10MK/CF10-1MK                                   | φ 4 Attached | φ 4 Attached | Attached |
| CF12M/CF12-1M/CF16M/CF18M                         | φ 6 Attached | φ 6 Attached | Attached |
| CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M | φ 8 Attached | φ 8 Attached | Attached |

CAM FOLLOWERS  
STAINLESS STEEL  
HEXAGON SOCKET ON STUD HEAD



SUS/INOX

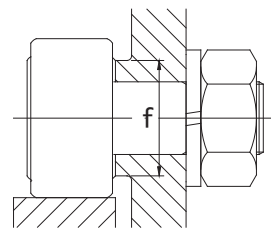
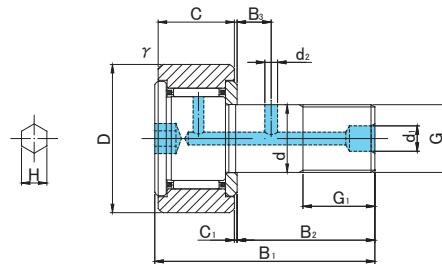
STAINLESS STEEL



CF..MA



CF..VMA



CF..MA TYPE

Prepacked Grease

| Stud diameter<br>(mm)                                                             | Designation                                                                                                 |               |                                                                                                                                             |               |                                                                                   | Dimensions (mm)                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | Basic dynamic load rating | Basic static load rating | Largest permissible load | Limiting speed *<br> | Track load capacity                                                                 |                            | Max tightening torque<br> | Mass<br> |     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|---------|----|-----|-------------------------------------------------------------------------------------|----|-----|----|----|-----------|-----------|-------------------------------------------------------------------------------------|---------------------------|--------------------------|--------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   | Cylindrical outer ring<br> |               | Crowned outer ring<br>R500(CF12 ~ CF18) R1000(CF20 ≤ )<br> |               |  |  | d  |  | G1      | B1 | B2  |  | C1 | d1  | d2 | H  | rs<br>min | f<br>min  |  |                           |                          |                          |                                                                                                         |  | N                          |                                                                                                              |                                                                                             | rpm |  |  |
|                                                                                   | Without seals                                                                                               | With seals    | Without seals                                                                                                                               | With seals    |                                                                                   |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     |                           |                          |                          |                                                                                                         |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
|  | h7<br>tolerance                                                                                             | Without seals | With seals                                                                                                                                  | Without seals | With seals                                                                        | D                                                                                  | C  | d                                                                                   | G       | G1 | B1  | B2                                                                                  | B3 | C1  | d1 | d2 | H         | rs<br>min | f<br>min                                                                            | Cr<br>N                   | Cor<br>N                 | N                        | rpm                                                                                                     | Cylindrical<br>outer ring<br>N                                                      | Crowned<br>outer ring<br>N | N·m                                                                                                          | g<br>(approx)                                                                               |     |                                                                                     |                                                                                     |
| 12                                                                                | 0<br>-0.018                                                                                                 | CF12MA        | CF12MUUA                                                                                                                                    | CF12MRA       | CF12MUURA                                                                         | 30                                                                                 | 14 | 12                                                                                  | M12×1.5 | 13 | 40  | 25                                                                                  | 6  | 0.6 | 6  | 3  | 6         | 0.6       | 20                                                                                  | 7 300                     | 9 010                    | 9 800                    | 14 000                                                                                                  | 7 060                                                                               | 2 450                      | 22                                                                                                           | 95                                                                                          |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF12VMA       | CF12VMUUA                                                                                                                                   | CF12VMRA      | CF12VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 12 350                    | 18 120                   | 11 270                   | 6 000                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 12                                                                                | 0<br>-0.018                                                                                                 | CF12-1MA      | CF12-1MUUA                                                                                                                                  | CF12-1MRA     | CF12-1MUURA                                                                       | 32                                                                                 | 14 | 12                                                                                  | M12×1.5 | 13 | 40  | 25                                                                                  | 6  | 0.6 | 6  | 3  | 6         | 0.6       | 20                                                                                  | 7 300                     | 9 010                    | 9 800                    | 14 000                                                                                                  | 7 450                                                                               | 2 740                      | 22                                                                                                           | 105                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF12-1VMA     | CF12-1VMUUA                                                                                                                                 | CF12-1VMRA    | CF12-1VMUURA                                                                      |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 12 350                    | 18 120                   | 11 270                   | 6 000                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 16                                                                                | 0<br>-0.018                                                                                                 | CF16MA        | CF16MUUA                                                                                                                                    | CF16MRA       | CF16MUURA                                                                         | 35                                                                                 | 18 | 16                                                                                  | M16×1.5 | 17 | 52  | 32.5                                                                                | 8  | 0.8 | 6  | 3  | 6         | 0.6       | 24                                                                                  | 11 080                    | 16 860                   | 18 330                   | 10 000                                                                                                  | 11 200                                                                              | 3 140                      | 58                                                                                                           | 170                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF16VMA       | CF16VMUUA                                                                                                                                   | CF16VMRA      | CF16VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 19 020                    | 34 610                   | 19 800                   | 4 500                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 18                                                                                | 0<br>-0.018                                                                                                 | CF18MA        | CF18MUUA                                                                                                                                    | CF18MRA       | CF18MUURA                                                                         | 40                                                                                 | 20 | 18                                                                                  | M18×1.5 | 19 | 58  | 36.5                                                                                | 8  | 0.8 | 6  | 3  | 6         | 1         | 26                                                                                  | 13 520                    | 23 180                   | 25 200                   | 8 500                                                                                                   | 14 400                                                                              | 3 720                      | 87                                                                                                           | 250                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF18VMA       | CF18VMUUA                                                                                                                                   | CF18VMRA      | CF18VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 23 250                    | 47 240                   | 26 560                   | 3 500                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 20                                                                                | 0<br>-0.021                                                                                                 | CF20MA        | CF20MUUA                                                                                                                                    | CF20MRA       | CF20MUURA                                                                         | 52                                                                                 | 24 | 20                                                                                  | M20×1.5 | 21 | 66  | 40.5                                                                                | 9  | 0.8 | 8  | 4  | 8         | 1         | 36                                                                                  | 19 020                    | 31 830                   | 32 140                   | 7 000                                                                                                   | 23 200                                                                              | 8 230                      | 120                                                                                                          | 460                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF20VMA       | CF20VMUUA                                                                                                                                   | CF20VMRA      | CF20VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 30 470                    | 59 320                   | 32 140                   | 3 500                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 20                                                                                | 0<br>-0.021                                                                                                 | CF20-1MA      | CF20-1MUUA                                                                                                                                  | CF20-1MRA     | CF20-1MUURA                                                                       | 47                                                                                 | 24 | 20                                                                                  | M20×1.5 | 21 | 66  | 40.5                                                                                | 9  | 0.8 | 8  | 4  | 8         | 1         | 36                                                                                  | 19 020                    | 31 830                   | 32 140                   | 7 000                                                                                                   | 21 000                                                                              | 7 150                      | 120                                                                                                          | 385                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF20-1VMA     | CF20-1VMUUA                                                                                                                                 | CF20-1VMRA    | CF20-1VMUURA                                                                      |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 30 470                    | 59 320                   | 32 140                   | 3 500                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 24                                                                                | 0<br>-0.021                                                                                                 | CF24MA        | CF24MUUA                                                                                                                                    | CF24MRA       | CF24MUURA                                                                         | 62                                                                                 | 29 | 24                                                                                  | M24×1.5 | 25 | 80  | 49.5                                                                                | 11 | 0.8 | 8  | 4  | 8         | 1         | 40                                                                                  | 28 040                    | 48 410                   | 49 500                   | 6 500                                                                                                   | 34 200                                                                              | 10 500                     | 220                                                                                                          | 815                                                                                         |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF24VMA       | CF24VMUUA                                                                                                                                   | CF24VMRA      | CF24VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 42 820                    | 84 650                   | 49 500                   | 3 000                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 24                                                                                | 0<br>-0.021                                                                                                 | CF24-1MA      | CF24-1MUUA                                                                                                                                  | CF24-1MRA     | CF24-1MUURA                                                                       | 72                                                                                 | 29 | 24                                                                                  | M24×1.5 | 25 | 80  | 49.5                                                                                | 11 | 0.8 | 8  | 4  | 8         | 1         | 40                                                                                  | 28 040                    | 48 410                   | 49 500                   | 6 500                                                                                                   | 39 800                                                                              | 12 900                     | 220                                                                                                          | 1 140                                                                                       |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF24-1VMA     | CF24-1VMUUA                                                                                                                                 | CF24-1VMRA    | CF24-1VMUURA                                                                      |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 42 820                    | 84 650                   | 49 500                   | 3 000                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 30                                                                                | 0<br>-0.021                                                                                                 | CF30MA        | CF30MUUA                                                                                                                                    | CF30MRA       | CF30MUURA                                                                         | 80                                                                                 | 35 | 30                                                                                  | M30×1.5 | 32 | 100 | 63                                                                                  | 15 | 1   | 8  | 4  | 8         | 1         | 46                                                                                  | 41 740                    | 78 250                   | 73 700                   | 5 000                                                                                                   | 52 600                                                                              | 14 900                     | 450                                                                                                          | 1 870                                                                                       |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF30VMA       | CF30VMUUA                                                                                                                                   | CF30VMRA      | CF30VMUURA                                                                        |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 62 210                    | 132 530                  | 73 700                   | 2 200                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 30                                                                                | 0<br>-0.021                                                                                                 | CF30-1MA      | CF30-1MUUA                                                                                                                                  | CF30-1MRA     | CF30-1MUURA                                                                       | 85                                                                                 | 35 | 30                                                                                  | M30×1.5 | 32 | 100 | 63                                                                                  | 15 | 1   | 8  | 4  | 8         | 1         | 46                                                                                  | 41 740                    | 78 250                   | 73 700                   | 5 000                                                                                                   | 56 000                                                                              | 16 100                     | 450                                                                                                          | 2 030                                                                                       |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF30-1VMA     | CF30-1VMUUA                                                                                                                                 | CF30-1VMRA    | CF30-1VMUURA                                                                      |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 62 210                    | 132 530                  | 73 700                   | 2 200                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |
| 30                                                                                | 0<br>-0.021                                                                                                 | CF30-2MA      | CF30-2MUUA                                                                                                                                  | CF30-2MRA     | CF30-2MUURA                                                                       | 90                                                                                 | 35 | 30                                                                                  | M30×1.5 | 32 | 100 | 63                                                                                  | 15 | 1   | 8  | 4  | 8         | 1         | 46                                                                                  | 41 740                    | 78 250                   | 73 700                   | 5 000                                                                                                   | 59 300                                                                              | 17 300                     | 450                                                                                                          | 2 220                                                                                       |     |                                                                                     |                                                                                     |
|                                                                                   |                                                                                                             | CF30-2VMA     | CF30-2VMUUA                                                                                                                                 | CF30-2VMRA    | CF30-2VMUURA                                                                      |                                                                                    |    |                                                                                     |         |    |     |                                                                                     |    |     |    |    |           |           |                                                                                     | 62 210                    | 132 530                  | 73 700                   | 2 200                                                                                                   |                                                                                     |                            |                                                                                                              |                                                                                             |     |                                                                                     |                                                                                     |

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

| TYPE                        | Cylindrical outer ring | Crowned outer ring |
|-----------------------------|------------------------|--------------------|
| CF3M,CF4M,CF5M,CF6M         | 0/-8                   | 0/-50              |
| CF8M,CF10M,CF10-1M,CF12M    | 0/-9                   | 0/-50              |
| CF12-1M,CF16M,CF18M,CF20-1M | 0/-11                  | 0/-50              |
| CF20M,CF24M,CF24-1M,CF30M   | 0/-13                  | 0/-50              |
| CF30-1M,CF30-2M             | 0/-15                  | 0/-50              |

ACCESSORIES

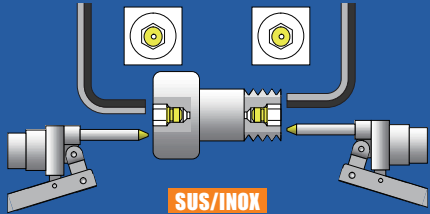
| TYPE                                              | STOP PLUG    | RESIN PLUG   | NUT      |
|---------------------------------------------------|--------------|--------------|----------|
| CF3M/CF4M/CF5M/CF6M/CF8M/CF10M/CF10-1M            | —            | —            | Attached |
| CF10MK/CF10-1MK                                   | φ 4 Attached | φ 4 Attached | Attached |
| CF12M/CF12-1M/CF16M/CF18M                         | φ 6 Attached | φ 6 Attached | Attached |
| CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M | φ 8 Attached | φ 8 Attached | Attached |

CAM FOLLOWERS

STAINLESS STEEL

HEXAGON SOCKET ON BOTH SIDES

GREASE NIPPLE INSTALLED



SUS/INOX

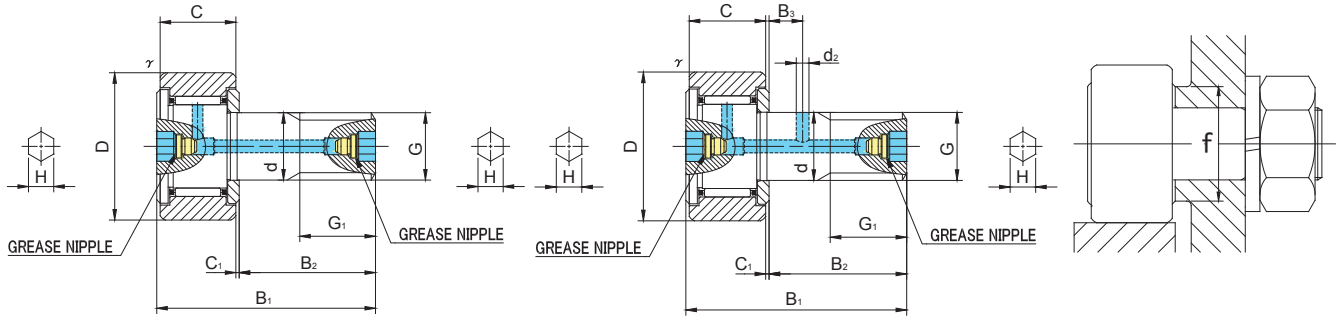
STAINLESS STEEL



CF..MAB



CF..VMAB



CF10(V)MABK~CF10-1(V)MABK

CF12(V)MAB~CF18(V)MAB

CF..MAB TYPE

Prepacked Grease

| Stud diameter<br>(mm)                                                             |              | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed *                                                                    | Track load capacity                                                                 |                                                                                     | Max tightening torque                                                               | Mass                                                                                |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--|--|--|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |              | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring<br>R500(CF10 ~ CF18)                                           |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  |              |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | h7 tolerance | Without seals                                                                     | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                  | d                                                                                   | G                                                                                   | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3 |  |  |  |  | C1                                                                                  | d2                                                                                  | H                                                                                   | rs min                                                                              | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N·m                                                                                 | g (approx)                                                                          |                                                                                     |
| 10                                                                                | 0<br>-0.015  | CF10MABK                                                                          | CF10MUUABK                                                                        | CF10MRABK                                                                         | CF10MUURABK                                                                       | 22                                                                                | 12                                                                                 | 10                                                                                  | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  |    |  |  |  |  | —                                                                                   | 0.6                                                                                 | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 4 700                                                                               | 1 670                                                                               | 15                                                                                  | 45                                                                                  |
|                                                                                   |              | CF10VMABK                                                                         | CF10VMUUABK                                                                       | CF10VMRABK                                                                        | CF10VMUURABK                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 10                                                                                | 0<br>-0.015  | CF10-1MABK                                                                        | CF10-1MUUABK                                                                      | CF10-1MRABK                                                                       | CF10-1MUURABK                                                                     | 26                                                                                | 12                                                                                 | 10                                                                                  | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  |    |  |  |  |  | —                                                                                   | 0.6                                                                                 | —                                                                                   | 5                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 5 490                                                                               | 2 060                                                                               | 15                                                                                  | 60                                                                                  |
|                                                                                   |              | CF10-1VMABK                                                                       | CF10-1VMUUABK                                                                     | CF10-1VMRABK                                                                      | CF10-1VMUURABK                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 12                                                                                | 0<br>-0.018  | CF12MAB                                                                           | CF12MUUAB                                                                         | CF12MRAB                                                                          | CF12MUURAB                                                                        | 30                                                                                | 14                                                                                 | 12                                                                                  | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  |    |  |  |  |  | 6                                                                                   | 0.6                                                                                 | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 060                                                                               | 2 450                                                                               | 22                                                                                  | 95                                                                                  |
|                                                                                   |              | CF12VMAB                                                                          | CF12VMUUAB                                                                        | CF12VMRAB                                                                         | CF12VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 12                                                                                | 0<br>-0.018  | CF12-1MAB                                                                         | CF12-1MUUAB                                                                       | CF12-1MRAB                                                                        | CF12-1MUURAB                                                                      | 32                                                                                | 14                                                                                 | 12                                                                                  | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  |    |  |  |  |  | 6                                                                                   | 0.6                                                                                 | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 450                                                                               | 2 740                                                                               | 22                                                                                  | 105                                                                                 |
|                                                                                   |              | CF12-1VMAB                                                                        | CF12-1VMUUAB                                                                      | CF12-1VMRAB                                                                       | CF12-1VMUURAB                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 16                                                                                | 0<br>-0.018  | CF16MAB                                                                           | CF16MUUAB                                                                         | CF16MRAB                                                                          | CF16MUURAB                                                                        | 35                                                                                | 18                                                                                 | 16                                                                                  | M16×1.5                                                                             | 17                                                                                  | 52                                                                                  | 32.5                                                                                |    |  |  |  |  | 8                                                                                   | 0.8                                                                                 | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 24                                                                                  | 11 080                                                                              | 16 860                                                                              | 18 330                                                                              | 10 000                                                                              | 11 200                                                                              | 3 140                                                                               | 58                                                                                  | 170                                                                                 |
|                                                                                   |              | CF16VMAB                                                                          | CF16VMUUAB                                                                        | CF16VMRAB                                                                         | CF16VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 19 020                                                                              | 34 610                                                                              | 19 800                                                                              | 4 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 18                                                                                | 0<br>-0.018  | CF18MAB                                                                           | CF18MUUAB                                                                         | CF18MRAB                                                                          | CF18MUURAB                                                                        | 40                                                                                | 20                                                                                 | 18                                                                                  | M18×1.5                                                                             | 19                                                                                  | 58                                                                                  | 36.5                                                                                |    |  |  |  |  | 8                                                                                   | 0.8                                                                                 | 3                                                                                   | 6                                                                                   | 1                                                                                   | 26                                                                                  | 13 520                                                                              | 23 180                                                                              | 25 200                                                                              | 8 500                                                                               | 14 400                                                                              | 3 720                                                                               | 87                                                                                  | 250                                                                                 |
|                                                                                   |              | CF18VMAB                                                                          | CF18VMUUAB                                                                        | CF18VMRAB                                                                         | CF18VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |    |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 23 250                                                                              | 47 240                                                                              | 26 560                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

CF..MAB TYPE has oil holes (grease nipple) which are prepared in the stud head and thread side, also an oil hole is prepared outer surface of stud.

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

| TYPE                    | Cylindrical outer ring | Crowned outer ring |
|-------------------------|------------------------|--------------------|
| CF10,CF10-1,CF12        | 0/-9                   | 0/-50              |
| CF12-1,CF16,CF18,CF20-1 | 0/-11                  | 0/-50              |
| CF20,CF24,CF24-1,CF30   | 0/-13                  | 0/-50              |
| CF30-1,CF30-2           | 0/-15                  | 0/-50              |

ACCESSORIES

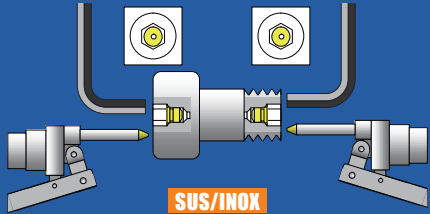
| TYPE      |  |  |
|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| All types | Installed                                                                             | Attached                                                                              |

CAM FOLLOWERS

STAINLESS STEEL

HEXAGON SOCKET ON BOTH SIDES

GREASE NIPPLE INSTALLED



SUS/INOX

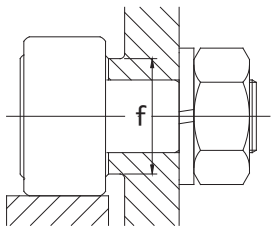
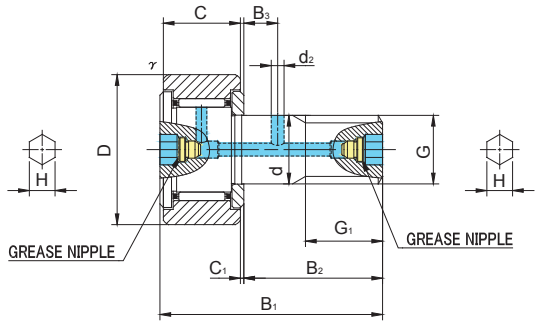
STAINLESS STEEL



CF..MAB



CF..VMAB



CF..MAB TYPE

Prepacked Grease

| Stud diameter<br>(mm)                                                             |              | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed *                                                                    | Track load capacity                                                                 |                                                                                     | Max tightening torque | Mass |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|------|
|                                                                                   |              | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring<br>R1000(CF20 ≤ )                                              |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
|  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                       |      |
|                                                                                   | h7 tolerance | Without seals                                                                     | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                  | d                                                                                   | G                                                                                   | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3                                                                                  | C1                                                                                  | d2                                                                                  | H                                                                                   | rs min                                                                              | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N·m                                                                                 | g (approx)                                                                          |                       |      |
| 20                                                                                | 0<br>-0.021  | CF20MAB                                                                           | CF20MUUAB                                                                         | CF20MRAB                                                                          | CF20MUURAB                                                                        | 52                                                                                | 24                                                                                 | 20                                                                                  | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 4                                                                                   | 8                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 23 200                                                                              | 8 230                                                                               | 120                                                                                 | 460                                                                                 |                       |      |
|                                                                                   |              | CF20VMAB                                                                          | CF20VMUUAB                                                                        | CF20VMRAB                                                                         | CF20VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 20                                                                                | 0<br>-0.021  | CF20-1MAB                                                                         | CF20-1MUUAB                                                                       | CF20-1MRAB                                                                        | CF20-1MUURAB                                                                      | 47                                                                                | 24                                                                                 | 20                                                                                  | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 4                                                                                   | 8                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 21 000                                                                              | 7 150                                                                               | 120                                                                                 | 385                                                                                 |                       |      |
|                                                                                   |              | CF20-1VMAB                                                                        | CF20-1VMUUAB                                                                      | CF20-1VMRAB                                                                       | CF20-1VMUURAB                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 24                                                                                | 0<br>-0.021  | CF24MAB                                                                           | CF24MUUAB                                                                         | CF24MRAB                                                                          | CF24MUURAB                                                                        | 62                                                                                | 29                                                                                 | 24                                                                                  | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 4                                                                                   | 8                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 34 200                                                                              | 10 500                                                                              | 220                                                                                 | 815                                                                                 |                       |      |
|                                                                                   |              | CF24VMAB                                                                          | CF24VMUUAB                                                                        | CF24VMRAB                                                                         | CF24VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 24                                                                                | 0<br>-0.021  | CF24-1MAB                                                                         | CF24-1MUUAB                                                                       | CF24-1MRAB                                                                        | CF24-1MUURAB                                                                      | 72                                                                                | 29                                                                                 | 24                                                                                  | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 4                                                                                   | 8                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 39 800                                                                              | 12 900                                                                              | 220                                                                                 | 1 140                                                                               |                       |      |
|                                                                                   |              | CF24-1VMAB                                                                        | CF24-1VMUUAB                                                                      | CF24-1VMRAB                                                                       | CF24-1VMUURAB                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                                                                                | 0<br>-0.021  | CF30MAB                                                                           | CF30MUUAB                                                                         | CF30MRAB                                                                          | CF30MUURAB                                                                        | 80                                                                                | 35                                                                                 | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 52 600                                                                              | 14 900                                                                              | 450                                                                                 | 1 870                                                                               |                       |      |
|                                                                                   |              | CF30VMAB                                                                          | CF30VMUUAB                                                                        | CF30VMRAB                                                                         | CF30VMUURAB                                                                       |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                                                                                | 0<br>-0.021  | CF30-1MAB                                                                         | CF30-1MUUAB                                                                       | CF30-1MRAB                                                                        | CF30-1MUURAB                                                                      | 85                                                                                | 35                                                                                 | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 56 000                                                                              | 16 100                                                                              | 450                                                                                 | 2 030                                                                               |                       |      |
|                                                                                   |              | CF30-1VMAB                                                                        | CF30-1VMUUAB                                                                      | CF30-1VMRAB                                                                       | CF30-1VMUURAB                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                                                                                | 0<br>-0.021  | CF30-2MAB                                                                         | CF30-2MUUAB                                                                       | CF30-2MRAB                                                                        | CF30-2MUURAB                                                                      | 90                                                                                | 35                                                                                 | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 59 300                                                                              | 17 300                                                                              | 450                                                                                 | 2 220                                                                               |                       |      |
|                                                                                   |              | CF30-2VMAB                                                                        | CF30-2VMUUAB                                                                      | CF30-2VMRAB                                                                       | CF30-2VMUURAB                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |

CF..MAB TYPE has oil holes (grease nipple) which are prepared in the stud head and thread side, also an oil hole is prepared outer surface of stud.

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

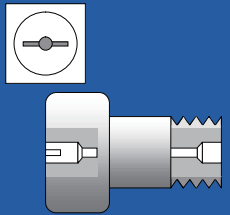
OUTER RINGS TOLERANCE (μm)

| TYPE                    | Cylindrical outer ring | Crowned outer ring |
|-------------------------|------------------------|--------------------|
| CF10,CF10-1,CF12        | 0/-9                   | 0/-50              |
| CF12-1,CF16,CF18,CF20-1 | 0/-11                  | 0/-50              |
| CF20,CF24,CF24-1,CF30   | 0/-13                  | 0/-50              |
| CF30-1,CF30-2           | 0/-15                  | 0/-50              |

ACCESSORIES

| TYPE      |  |  |
|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| All types | Installed                                                                             | Attached                                                                              |

CAM FOLLOWERS  
STAINLESS STEEL  
SCREWDRIVER SLOT HEAD



SUS/INOX

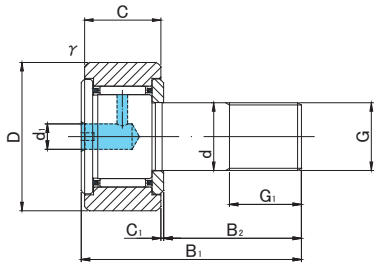
STAINLESS STEEL



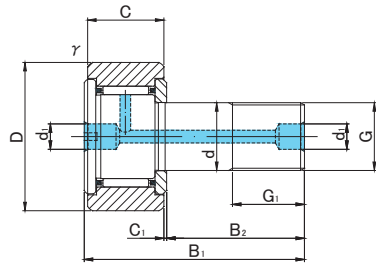
CF..M



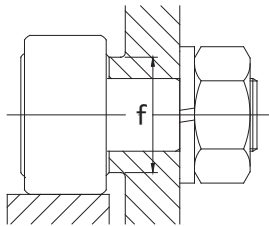
CF..VM



CF5(V)M~CF10-1(V)M



CF10(V)MK~CF10-1(V)MK



CF..M TYPE

Prepacked Grease

| Stud diameter (mm)                                                                |              | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed *                                                                    | Track load capacity                                                                 |                                                                                     | Max tightening torque | Mass |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|------|
|                                                                                   |              | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring R250(CF5) R500(CF6 ~ CF10-1)                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
|  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                       |      |
|                                                                                   | h7 tolerance | Without seals                                                                     | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                 | d                                                                                   | G                                                                                   | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3                                                                                  | C1                                                                                  | d1                                                                                  | d2                                                                                  | rs min                                                                              | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N-m                                                                                 | g (approx)                                                                          |                       |      |
| 5                                                                                 | 0<br>-0.012  | CF 5M                                                                             | CF 5MUU                                                                           | CF 5MR                                                                            | CF 5MUUR                                                                          | 13                                                                                | 9                                                                                 | 5                                                                                   | M5×0.8                                                                              | 7.5                                                                                 | 23                                                                                  | 13                                                                                  | —                                                                                   | 0.5                                                                                 | 3.1                                                                                 | —                                                                                   | 0.3                                                                                 | 9.7                                                                                 | 2 880                                                                               | 2 540                                                                               | 1 420                                                                               | 29 000                                                                              | 2 250                                                                               | 530                                                                                 | 2                                                                                   | 10.5                                                                                |                       |      |
|                                                                                   |              | CF 5VM                                                                            | CF 5VMUU                                                                          | CF 5VMR                                                                           | CF 5VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 4 690                                                                               | 5 060                                                                               | 1 420                                                                               | 11 600                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 6                                                                                 | 0<br>-0.012  | CF 6M                                                                             | CF 6MUU                                                                           | CF 6MR                                                                            | CF 6MUUR                                                                          | 16                                                                                | 11                                                                                | 6                                                                                   | M6×1                                                                                | 8                                                                                   | 28                                                                                  | 16                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 11                                                                                  | 3 330                                                                               | 3 330                                                                               | 2 110                                                                               | 25 000                                                                              | 3 430                                                                               | 1 080                                                                               | 3                                                                                   | 18.5                                                                                |                       |      |
|                                                                                   |              | CF 6VM                                                                            | CF 6VMUU                                                                          | CF 6VMR                                                                           | CF 6VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 6 400                                                                               | 7 840                                                                               | 2 110                                                                               | 12 000                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 8                                                                                 | 0<br>-0.015  | CF 8M                                                                             | CF 8MUU                                                                           | CF 8MR                                                                            | CF 8MUUR                                                                          | 19                                                                                | 11                                                                                | 8                                                                                   | M8×1.25                                                                             | 10                                                                                  | 32                                                                                  | 20                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 13                                                                                  | 3 960                                                                               | 4 330                                                                               | 4 710                                                                               | 20 000                                                                              | 4 020                                                                               | 1 370                                                                               | 8                                                                                   | 28.5                                                                                |                       |      |
|                                                                                   |              | CF 8VM                                                                            | CF 8VMUU                                                                          | CF 8VMR                                                                           | CF 8VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 7 470                                                                               | 10 270                                                                              | 4 710                                                                               | 9 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                                                                                | 0<br>-0.015  | CF10M                                                                             | CF10MUU                                                                           | CF10MR                                                                            | CF10MUUR                                                                          | 22                                                                                | 12                                                                                | 10                                                                                  | M10×1.25                                                                            | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 4 700                                                                               | 1 670                                                                               | 15                                                                                  | 45                                                                                  |                       |      |
|                                                                                   |              | CF10VM                                                                            | CF10VMUU                                                                          | CF10VMR                                                                           | CF10VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                                                                                | 0<br>-0.015  | CF10-1M                                                                           | CF10-1MUU                                                                         | CF10-1MR                                                                          | CF10-1MUUR                                                                        | 26                                                                                | 12                                                                                | 10                                                                                  | M10×1.25                                                                            | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 5 490                                                                               | 2 060                                                                               | 15                                                                                  | 60                                                                                  |                       |      |
|                                                                                   |              | CF10-1VM                                                                          | CF10-1VMUU                                                                        | CF10-1VMR                                                                         | CF10-1VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                                                                                | 0<br>-0.015  | CF10MK                                                                            | CF10MUUK                                                                          | CF10MRK                                                                           | CF10MUURK                                                                         | 22                                                                                | 12                                                                                | 10                                                                                  | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 4 700                                                                               | 1 670                                                                               | 15                                                                                  | 45                                                                                  |                       |      |
|                                                                                   |              | CF10VMK                                                                           | CF10VMUUK                                                                         | CF10VMRK                                                                          | CF10VMUURK                                                                        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 10                                                                                | 0<br>-0.015  | CF10-1MK                                                                          | CF10-1MUUK                                                                        | CF10-1MRK                                                                         | CF10-1MUURK                                                                       | 26                                                                                | 12                                                                                | 10                                                                                  | M10×1                                                                               | 12                                                                                  | 36                                                                                  | 23                                                                                  | —                                                                                   | 0.6                                                                                 | 4                                                                                   | —                                                                                   | 0.3                                                                                 | 15                                                                                  | 4 950                                                                               | 6 310                                                                               | 6 860                                                                               | 17 000                                                                              | 5 490                                                                               | 2 060                                                                               | 15                                                                                  | 60                                                                                  |                       |      |
|                                                                                   |              | CF10-1VMK                                                                         | CF10-1VMUUK                                                                       | CF10-1VMRK                                                                        | CF10-1VMUURK                                                                      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 8 740                                                                               | 13 340                                                                              | 7 450                                                                               | 7 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

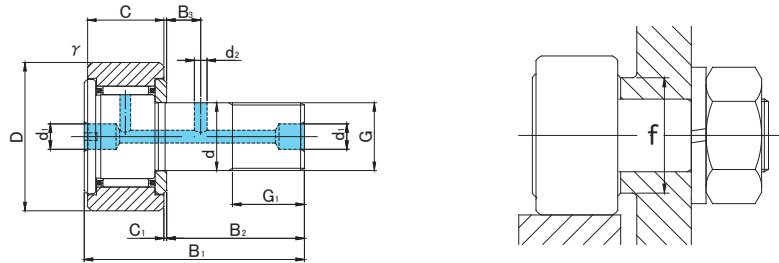
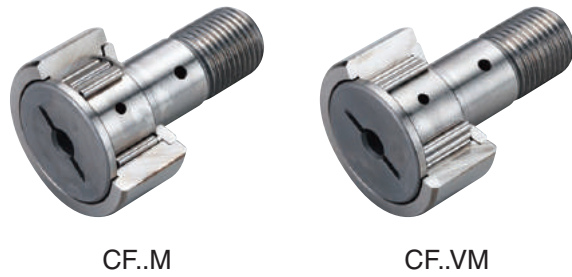
| TYPE                        | Cylindrical outer ring | Crowned outer ring |
|-----------------------------|------------------------|--------------------|
| CF5M,CF6M                   | 0/-8                   | 0/-50              |
| CF8M,CF10M,CF10-1M,CF12M    | 0/-9                   | 0/-50              |
| CF12-1M,CF16M,CF18M,CF20-1M | 0/-11                  | 0/-50              |
| CF20M,CF24M,CF24-1M,CF30M   | 0/-13                  | 0/-50              |
| CF30-1M,CF30-2M             | 0/-15                  | 0/-50              |

ACCESSORIES

| TYPE                                              | STOP PLUG    | RESIN PLUG   | NUT      |
|---------------------------------------------------|--------------|--------------|----------|
| CF5M                                              | —            | —            | Attached |
| CF6M/CF8M/CF10M/CF10-1M                           | —            | φ 4 Attached | Attached |
| CF10MK/CF10-1MK                                   | φ 4 Attached | φ 4 Attached | Attached |
| CF12M/CF12-1M/CF16M/CF18M                         | φ 6 Attached | φ 6 Attached | Attached |
| CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M | φ 8 Attached | φ 8 Attached | Attached |



STAINLESS STEEL



CF..M TYPE

Prepacked Grease

| Stud diameter (mm) |               | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed *                                                                    | Track load capacity                                                                 |                                                                                     | Max tightening torque | Mass |
|--------------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|------|
|                    |               | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring<br>R500(CF12 ~ CF18) R1000(CF20 ≤)                             |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
|                    |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                       |      |
| h7 tolerance       | Without seals | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                 | d                                                                                 | G                                                                                   | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3                                                                                  | C1                                                                                  | d1                                                                                  | d2                                                                                  | rs min                                                                              | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N-m                                                                                 | g (approx)                                                                          |                                                                                     |                       |      |
| 12                 | 0<br>-0.018   | CF12M                                                                             | CF12MUU                                                                           | CF12MR                                                                            | CF12MUUR                                                                          | 30                                                                                | 14                                                                                | 12                                                                                  | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  | 6                                                                                   | 0.6                                                                                 | 6                                                                                   | 3                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 060                                                                               | 2 450                                                                               | 22                                                                                  | 95                                                                                  |                       |      |
|                    |               | CF12VM                                                                            | CF12VMUU                                                                          | CF12VMR                                                                           | CF12VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 12                 | 0<br>-0.018   | CF12-1M                                                                           | CF12-1MUU                                                                         | CF12-1MR                                                                          | CF12-1MUUR                                                                        | 32                                                                                | 14                                                                                | 12                                                                                  | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  | 6                                                                                   | 0.6                                                                                 | 6                                                                                   | 3                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 450                                                                               | 2 740                                                                               | 22                                                                                  | 105                                                                                 |                       |      |
|                    |               | CF12-1VM                                                                          | CF12-1VMUU                                                                        | CF12-1VMR                                                                         | CF12-1VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 16                 | 0<br>-0.018   | CF16M                                                                             | CF16MUU                                                                           | CF16MR                                                                            | CF16MUUR                                                                          | 35                                                                                | 18                                                                                | 16                                                                                  | M16×1.5                                                                             | 17                                                                                  | 52                                                                                  | 32.5                                                                                | 8                                                                                   | 0.8                                                                                 | 6                                                                                   | 3                                                                                   | 0.6                                                                                 | 24                                                                                  | 11 080                                                                              | 16 860                                                                              | 18 330                                                                              | 10 000                                                                              | 11 200                                                                              | 3 140                                                                               | 58                                                                                  | 170                                                                                 |                       |      |
|                    |               | CF16VM                                                                            | CF16VMUU                                                                          | CF16VMR                                                                           | CF16VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 19 020                                                                              | 34 610                                                                              | 19 800                                                                              | 4 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 18                 | 0<br>-0.018   | CF18M                                                                             | CF18MUU                                                                           | CF18MR                                                                            | CF18MUUR                                                                          | 40                                                                                | 20                                                                                | 18                                                                                  | M18×1.5                                                                             | 19                                                                                  | 58                                                                                  | 36.5                                                                                | 8                                                                                   | 0.8                                                                                 | 6                                                                                   | 3                                                                                   | 1                                                                                   | 26                                                                                  | 13 520                                                                              | 23 180                                                                              | 25 200                                                                              | 8 500                                                                               | 14 400                                                                              | 3 720                                                                               | 87                                                                                  | 250                                                                                 |                       |      |
|                    |               | CF18VM                                                                            | CF18VMUU                                                                          | CF18VMR                                                                           | CF18VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 23 250                                                                              | 47 240                                                                              | 26 560                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 20                 | 0<br>-0.021   | CF20M                                                                             | CF20MUU                                                                           | CF20MR                                                                            | CF20MUUR                                                                          | 52                                                                                | 24                                                                                | 20                                                                                  | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 23 200                                                                              | 8 230                                                                               | 120                                                                                 | 460                                                                                 |                       |      |
|                    |               | CF20VM                                                                            | CF20VMUU                                                                          | CF20VMR                                                                           | CF20VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 20                 | 0<br>-0.021   | CF20-1M                                                                           | CF20-1MUU                                                                         | CF20-1MR                                                                          | CF20-1MUUR                                                                        | 47                                                                                | 24                                                                                | 20                                                                                  | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 21 000                                                                              | 7 150                                                                               | 120                                                                                 | 385                                                                                 |                       |      |
|                    |               | CF20-1VM                                                                          | CF20-1VMUU                                                                        | CF20-1VMR                                                                         | CF20-1VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 24                 | 0<br>-0.021   | CF24M                                                                             | CF24MUU                                                                           | CF24MR                                                                            | CF24MUUR                                                                          | 62                                                                                | 29                                                                                | 24                                                                                  | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 34 200                                                                              | 10 500                                                                              | 220                                                                                 | 815                                                                                 |                       |      |
|                    |               | CF24VM                                                                            | CF24VMUU                                                                          | CF24VMR                                                                           | CF24VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 24                 | 0<br>-0.021   | CF24-1M                                                                           | CF24-1MUU                                                                         | CF24-1MR                                                                          | CF24-1MUUR                                                                        | 72                                                                                | 29                                                                                | 24                                                                                  | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 39 800                                                                              | 12 900                                                                              | 220                                                                                 | 1 140                                                                               |                       |      |
|                    |               | CF24-1VM                                                                          | CF24-1VMUU                                                                        | CF24-1VMR                                                                         | CF24-1VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                 | 0<br>-0.021   | CF30M                                                                             | CF30MUU                                                                           | CF30MR                                                                            | CF30MUUR                                                                          | 80                                                                                | 35                                                                                | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 52 600                                                                              | 14 900                                                                              | 450                                                                                 | 1 870                                                                               |                       |      |
|                    |               | CF30VM                                                                            | CF30VMUU                                                                          | CF30VMR                                                                           | CF30VMUUR                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                 | 0<br>-0.021   | CF30-1M                                                                           | CF30-1MUU                                                                         | CF30-1MR                                                                          | CF30-1MUUR                                                                        | 85                                                                                | 35                                                                                | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 56 000                                                                              | 16 100                                                                              | 450                                                                                 | 2 030                                                                               |                       |      |
|                    |               | CF30-1VM                                                                          | CF30-1VMUU                                                                        | CF30-1VMR                                                                         | CF30-1VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |
| 30                 | 0<br>-0.021   | CF30-2M                                                                           | CF30-2MUU                                                                         | CF30-2MR                                                                          | CF30-2MUUR                                                                        | 90                                                                                | 35                                                                                | 30                                                                                  | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 59 300                                                                              | 17 300                                                                              | 450                                                                                 | 2 220                                                                               |                       |      |
|                    |               | CF30-2VM                                                                          | CF30-2VMUU                                                                        | CF30-2VMR                                                                         | CF30-2VMUUR                                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                       |      |

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

| TYPE                        | Cylindrical outer ring | Crowned outer ring |
|-----------------------------|------------------------|--------------------|
| CF5M,CF6M                   | 0/-8                   | 0/-50              |
| CF8M,CF10M,CF10-1M,CF12M    | 0/-9                   | 0/-50              |
| CF12-1M,CF16M,CF18M,CF20-1M | 0/-11                  | 0/-50              |
| CF20M,CF24M,CF24-1M,CF30M   | 0/-13                  | 0/-50              |
| CF30-1M,CF30-2M             | 0/-15                  | 0/-50              |

ACCESSORIES

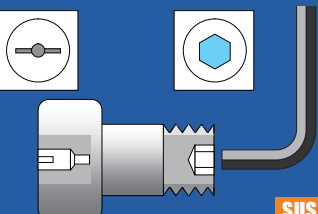
| TYPE                                              | STOP PLUG    | RESIN PLUG   | NUT      |
|---------------------------------------------------|--------------|--------------|----------|
| CF5M                                              | —            | —            | Attached |
| CF6M/CF8M/CF10M/CF10-1M                           | —            | φ 4 Attached | Attached |
| CF10MK/CF10-1MK                                   | φ 4 Attached | φ 4 Attached | Attached |
| CF12M/CF12-1M/CF16M/CF18M                         | φ 6 Attached | φ 6 Attached | Attached |
| CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M | φ 8 Attached | φ 8 Attached | Attached |

CAM FOLLOWERS

STAINLESS STEEL

HEXAGON SOCKET ON THREAD SIDE

SCREWDRIVER SLOT HEAD



SUS/INOX

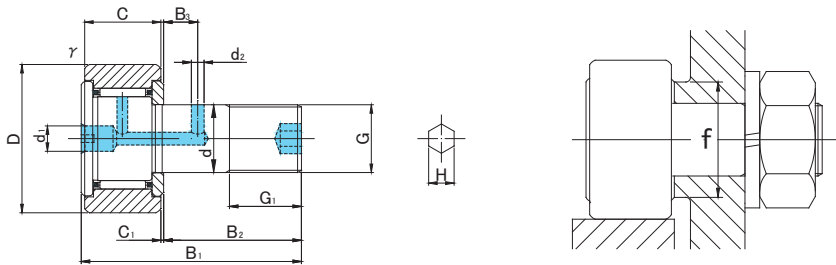
STAINLESS STEEL



CF..MB



CF..VMB



CF..MB TYPE

Prepacked Grease

| Stud diameter (mm)                                                                |              | Designation                                                                       |                                                                                   |                                                                                   |                                                                                   | Dimensions (mm)                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Basic dynamic load rating                                                           | Basic static load rating                                                            | Largest permissible load                                                            | Limiting speed <sup>*</sup>                                                         | Track load capacity                                                                 |                                                                                     | Max tightening torque                                                               | Mass |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
|                                                                                   |              | Cylindrical outer ring                                                            |                                                                                   | Crowned outer ring<br>R500 (CF12 ~ CF18) R1000 (CF20 ≤ )                          |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
|  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |
| d                                                                                 | h7 tolerance | Without seals                                                                     | With seals                                                                        | Without seals                                                                     | With seals                                                                        | D                                                                                 | C                                                                                  | G                                                                                   | G1                                                                                  | B1                                                                                  | B2                                                                                  | B3                                                                                  | C1                                                                                  | d1                                                                                  | d2                                                                                  | H                                                                                   | r <sub>s</sub> min                                                                  | f min                                                                               | Cr N                                                                                | Cor N                                                                               | N                                                                                   | rpm                                                                                 | Cylindrical outer ring N                                                            | Crowned outer ring N                                                                | N·m                                                                                 | g (approx)                                                                          |      |
| 12                                                                                | 0<br>-0.018  | CF12MB                                                                            | CF12MUUB                                                                          | CF12MRB                                                                           | CF12MUURB                                                                         | 30                                                                                | 14                                                                                 | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  | 6                                                                                   | 0.6                                                                                 | 6                                                                                   | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 060                                                                               | 2 450                                                                               | 22                                                                                  | 95                                                                                  |      |
|                                                                                   |              | CF12VMB                                                                           | CF12VMUUB                                                                         | CF12VMRB                                                                          | CF12VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 12                                                                                | 0<br>-0.018  | CF12-1MB                                                                          | CF12-1MUUB                                                                        | CF12-1MRB                                                                         | CF12-1MUURB                                                                       | 32                                                                                | 14                                                                                 | M12×1.5                                                                             | 13                                                                                  | 40                                                                                  | 25                                                                                  | 6                                                                                   | 0.6                                                                                 | 6                                                                                   | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 20                                                                                  | 7 300                                                                               | 9 010                                                                               | 9 800                                                                               | 14 000                                                                              | 7 450                                                                               | 2 740                                                                               | 22                                                                                  | 105                                                                                 |      |
|                                                                                   |              | CF12-1VMB                                                                         | CF12-1VMUUB                                                                       | CF12-1VMRB                                                                        | CF12-1VMUURB                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 12 350                                                                              | 18 120                                                                              | 11 270                                                                              | 6 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 16                                                                                | 0<br>-0.018  | CF16MB                                                                            | CF16MUUB                                                                          | CF16MRB                                                                           | CF16MUURB                                                                         | 35                                                                                | 18                                                                                 | M16×1.5                                                                             | 17                                                                                  | 52                                                                                  | 32.5                                                                                | 8                                                                                   | 0.8                                                                                 | 6                                                                                   | 3                                                                                   | 6                                                                                   | 0.6                                                                                 | 24                                                                                  | 11 080                                                                              | 16 860                                                                              | 18 330                                                                              | 10 000                                                                              | 11 200                                                                              | 3 140                                                                               | 58                                                                                  | 170                                                                                 |      |
|                                                                                   |              | CF16VMB                                                                           | CF16VMUUB                                                                         | CF16VMRB                                                                          | CF16VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 19 020                                                                              | 34 610                                                                              | 19 800                                                                              | 4 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 18                                                                                | 0<br>-0.018  | CF18MB                                                                            | CF18MUUB                                                                          | CF18MRB                                                                           | CF18MUURB                                                                         | 40                                                                                | 20                                                                                 | M18×1.5                                                                             | 19                                                                                  | 58                                                                                  | 36.5                                                                                | 8                                                                                   | 0.8                                                                                 | 6                                                                                   | 3                                                                                   | 6                                                                                   | 1                                                                                   | 26                                                                                  | 13 520                                                                              | 23 180                                                                              | 25 200                                                                              | 8 500                                                                               | 14 400                                                                              | 3 720                                                                               | 87                                                                                  | 250                                                                                 |      |
|                                                                                   |              | CF18VMB                                                                           | CF18VMUUB                                                                         | CF18VMRB                                                                          | CF18VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 23 250                                                                              | 47 240                                                                              | 26 560                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 20                                                                                | 0<br>-0.021  | CF20MB                                                                            | CF20MUUB                                                                          | CF20MRB                                                                           | CF20MUURB                                                                         | 52                                                                                | 24                                                                                 | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 23 200                                                                              | 8 230                                                                               | 120                                                                                 | 460                                                                                 |      |
|                                                                                   |              | CF20VMB                                                                           | CF20VMUUB                                                                         | CF20VMRB                                                                          | CF20VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 20                                                                                | 0<br>-0.021  | CF20-1MB                                                                          | CF20-1MUUB                                                                        | CF20-1MRB                                                                         | CF20-1MUURB                                                                       | 47                                                                                | 24                                                                                 | M20×1.5                                                                             | 21                                                                                  | 66                                                                                  | 40.5                                                                                | 9                                                                                   | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 36                                                                                  | 19 020                                                                              | 31 830                                                                              | 32 140                                                                              | 7 000                                                                               | 21 000                                                                              | 7 150                                                                               | 120                                                                                 | 385                                                                                 |      |
|                                                                                   |              | CF20-1VMB                                                                         | CF20-1VMUUB                                                                       | CF20-1VMRB                                                                        | CF20-1VMUURB                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 30 470                                                                              | 59 320                                                                              | 32 140                                                                              | 3 500                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 24                                                                                | 0<br>-0.021  | CF24MB                                                                            | CF24MUUB                                                                          | CF24MRB                                                                           | CF24MUURB                                                                         | 62                                                                                | 29                                                                                 | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 34 200                                                                              | 10 500                                                                              | 220                                                                                 | 815                                                                                 |      |
|                                                                                   |              | CF24VMB                                                                           | CF24VMUUB                                                                         | CF24VMRB                                                                          | CF24VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 24                                                                                | 0<br>-0.021  | CF24-1MB                                                                          | CF24-1MUUB                                                                        | CF24-1MRB                                                                         | CF24-1MUURB                                                                       | 72                                                                                | 29                                                                                 | M24×1.5                                                                             | 25                                                                                  | 80                                                                                  | 49.5                                                                                | 11                                                                                  | 0.8                                                                                 | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 40                                                                                  | 28 040                                                                              | 48 410                                                                              | 49 500                                                                              | 6 500                                                                               | 39 800                                                                              | 12 900                                                                              | 220                                                                                 | 1 140                                                                               |      |
|                                                                                   |              | CF24-1VMB                                                                         | CF24-1VMUUB                                                                       | CF24-1VMRB                                                                        | CF24-1VMUURB                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 42 820                                                                              | 84 650                                                                              | 49 500                                                                              | 3 000                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 30                                                                                | 0<br>-0.021  | CF30MB                                                                            | CF30MUUB                                                                          | CF30MRB                                                                           | CF30MUURB                                                                         | 80                                                                                | 35                                                                                 | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 52 600                                                                              | 14 900                                                                              | 450                                                                                 | 1 870                                                                               |      |
|                                                                                   |              | CF30VMB                                                                           | CF30VMUUB                                                                         | CF30VMRB                                                                          | CF30VMUURB                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 30                                                                                | 0<br>-0.021  | CF30-1MB                                                                          | CF30-1MUUB                                                                        | CF30-1MRB                                                                         | CF30-1MUURB                                                                       | 85                                                                                | 35                                                                                 | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 56 000                                                                              | 16 100                                                                              | 450                                                                                 | 2 030                                                                               |      |
|                                                                                   |              | CF30-1VMB                                                                         | CF30-1VMUUB                                                                       | CF30-1VMRB                                                                        | CF30-1VMUURB                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |
| 30                                                                                | 0<br>-0.021  | CF30-2MB                                                                          | CF30-2MUUB                                                                        | CF30-2MRB                                                                         | CF30-2MUURB                                                                       | 90                                                                                | 35                                                                                 | M30×1.5                                                                             | 32                                                                                  | 100                                                                                 | 63                                                                                  | 15                                                                                  | 1                                                                                   | 8                                                                                   | 4                                                                                   | 8                                                                                   | 1                                                                                   | 46                                                                                  | 41 740                                                                              | 78 250                                                                              | 73 700                                                                              | 5 000                                                                               | 59 300                                                                              | 17 300                                                                              | 450                                                                                 | 2 220                                                                               |      |
|                                                                                   |              | CF30-2VMB                                                                         | CF30-2VMUUB                                                                       | CF30-2VMRB                                                                        | CF30-2VMUURB                                                                      |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 62 210                                                                              | 132 530                                                                             | 73 700                                                                              | 2 200                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |      |

\* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

| TYPE                        | Cylindrical outer ring | Crowned outer ring |
|-----------------------------|------------------------|--------------------|
| CF12M                       | 0/-9                   | 0/-50              |
| CF12-1M,CF16M,CF18M,CF20-1M | 0/-11                  | 0/-50              |
| CF20M,CF24M,CF24-1M,CF30M   | 0/-13                  | 0/-50              |
| CF30-1M,CF30-2M             | 0/-15                  | 0/-50              |

ACCESSORIES

| TYPE                                              |  |  |  |
|---------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| CF12M/CF12-1M/CF16M/CF18M                         | φ 6 Attached                                                                          | φ 6 Attached                                                                          | Attached                                                                              |
| CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M | φ 8 Attached                                                                          | φ 8 Attached                                                                          | Attached                                                                              |