

Female rod ends **DIN ISO 12240-4** ISO

CFF_{RH} Steel/self-lubricating bronze contact CFF_{LH}

- Female threaded rod end conforming to
DIN ISO 12240-4 K series

- Materials:

Sphere: Steel 100CG ground and polished

Insert: Bronze

Housing:

sizes 5 to 12- low carbonised steel

sizes 16 to 35 - high carbon steel alloy,

surface is galvanised and passivated

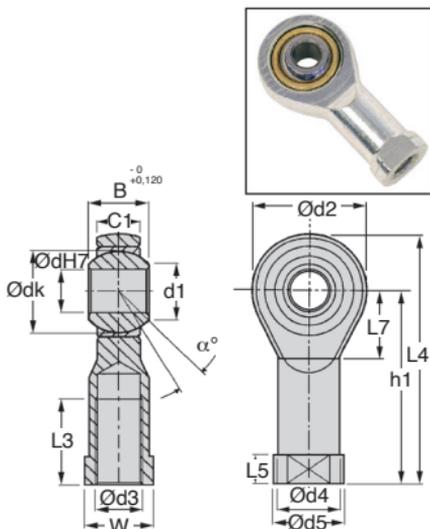
- Working temperature: -30°C to +120°C
(150°C occasionally)

Advantages

- Self-lubricating
- Maintenance free
- Bearing surface wear-resistant
- Low friction

Application

- Oscillating movements



DISCOUNTS

| Qty | 1+ | 6+ | 20+ | 40+ | 60+ |
|-------|------|------|------|------|------------|
| Disc. | List | -15% | -20% | -30% | On request |

| Part number | Ød | Ød3 | B | C1 | Ød1 | Ød2 | Ød4 | Ød5 | Ødk | h1 | L3 | L4 | L5 | L7 | W |
|-------------|----|----------|----|-------|-------|-----|-------|-----|--------|-----|----|-----|-------|----|----|
| CFF.00.05 | 5 | M5x0,8 | 8 | 6,00 | 7,70 | 18 | 9,00 | 11 | 11,112 | 27 | 10 | 36 | 4,00 | 10 | 9 |
| CFF.00.06 | 6 | M6x1 | 9 | 6,75 | 8,90 | 20 | 10,00 | 13 | 12,700 | 30 | 12 | 40 | 5,00 | 11 | 11 |
| CFF.00.08 | 8 | M8x1,25 | 12 | 9,00 | 10,40 | 24 | 12,50 | 16 | 15,875 | 36 | 16 | 48 | 5,00 | 13 | 14 |
| CFF.00.10 | 10 | M10x1,5 | 14 | 10,50 | 12,90 | 28 | 15,00 | 19 | 19,050 | 43 | 20 | 57 | 6,50 | 15 | 17 |
| CFF.00.12 | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32 | 17,50 | 22 | 22,225 | 50 | 22 | 66 | 6,50 | 17 | 19 |
| CFF.00.16 | 16 | M16x2 | 21 | 15,00 | 19,30 | 42 | 22,00 | 27 | 28,575 | 64 | 28 | 85 | 8,00 | 23 | 22 |
| CFF.00.20 | 20 | M20x2,5 | 25 | 18,00 | 24,30 | 50 | 27,50 | 34 | 34,925 | 77 | 33 | 102 | 10,00 | 27 | 30 |
| CFF.00.30 | 30 | M30x2 | 37 | 25,00 | 34,80 | 70 | 40,00 | 50 | 50,800 | 110 | 51 | 145 | 15,00 | 36 | 41 |
| CFF.00.35 | 35 | M36x2 | 43 | 28,00 | 37,70 | 80 | 46,00 | 58 | 57,150 | 125 | 56 | 165 | 17,00 | 41 | 50 |

| Part number | Radial static load F _s (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* | | Price each 1 to 5 | |
|---------------------------|---|--------------------------------------|-------------------|------------|--------|----|-------------------|----------|
| | | | | | RH | LH | RH | LH |
| CFF.00.05/RH CFF.00.05/LH | 600 | 100 | 13 | 19 | ✓ | ✓ | 13,87 € | 16,04 € |
| CFF.00.06/RH CFF.00.06/LH | 700 | 120 | 13 | 26 | ✓ | ✓ | 11,89 € | 13,77 € |
| CFF.00.08/RH CFF.00.08/LH | 1 200 | 170 | 14 | 46 | ✓ | ✓ | 12,49 € | 14,45 € |
| CFF.00.10/RH CFF.00.10/LH | 1 400 | 200 | 13 | 76 | ✓ | ✓ | 14,11 € | 16,33 € |
| CFF.00.12/RH CFF.00.12/LH | 1 900 | 270 | 13 | 110 | ✓ | ✓ | 17,13 € | 19,80 € |
| CFF.00.16/RH CFF.00.16/LH | 4 800 | 550 | 15 | 220 | ✓ | ✓ | 34,40 € | 39,72 € |
| CFF.00.20/RH CFF.00.20/LH | 5 200 | 600 | 14 | 409 | ✓ | - | 62,22 € | 71,79 € |
| CFF.00.30/RH CFF.00.30/LH | 10 800 | 1 200 | 17 | 1 140 | ✓ | - | 146,95 € | 169,57 € |
| CFF.00.35/RH CFF.00.35/LH | 12 400 | 1 400 | 19 | 1 600 | - | - | 180,24 € | 207,99 € |

*Depending on availability - Dimensions in mm



Steel/self-lubricating bronze contact **CMMRH** **CMMLH**

- Male threaded rod end conforming to DIN ISO 12240-4 K series

- Static axial load = 0.2 x static radial load

- Materials:

Sphere: Steel 100CG ground and polished

Insert: Bronze

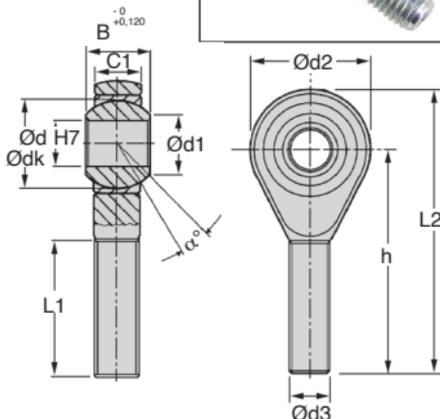
Housing:

sizes 5 to 12- low carbon steel

sizes 16 to 35 – high carbon steel alloy,

surface is galvanised and passivated

- Working temperature: -30°C to +120°C (150°C occasionally)



Advantages

- Self-lubricating
- Maintenance free
- Bearing surface wear-resistant
- Low friction

Application

- Oscillating movements

DISCOUNTS

| Qty | 1+ | 6+ | 20+ | 40+ | 60+ |
|-------|------|------|------|------|------------|
| Disc. | List | -15% | -20% | -30% | On request |

| Part number | Ød | Ød3 | B | C1 | Ød1 | Ød2 | Ødk | h | L1 | L2 |
|-------------|----|------------|----|-------|-------|-----|--------|----|----|-----|
| CMM.00.05 | 5 | M5 x 0,8 | 8 | 6,00 | 7,70 | 18 | 11,112 | 33 | 19 | 42 |
| CMM.00.06 | 6 | M6 x 1 | 9 | 6,75 | 8,90 | 20 | 12,700 | 36 | 21 | 46 |
| CMM.00.08 | 8 | M8 x 1,25 | 12 | 9,00 | 10,40 | 24 | 15,875 | 42 | 25 | 54 |
| CMM.00.10 | 10 | M10 x 1,5 | 14 | 10,50 | 12,90 | 28 | 19,050 | 48 | 28 | 62 |
| CMM.00.12 | 12 | M12 x 1,75 | 16 | 12,00 | 15,40 | 32 | 22,225 | 54 | 32 | 70 |
| CMM.00.16 | 16 | M16 x 2 | 21 | 15,00 | 19,30 | 42 | 28,575 | 66 | 37 | 87 |
| CMM.00.20 | 20 | M20 x 2,5 | 25 | 18,00 | 24,30 | 50 | 34,925 | 78 | 45 | 103 |

| Part number | | Radial static load F _s (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* RH | Stock* LH | Price each 1 to 5 | |
|--------------|--------------|---|--------------------------------------|-------------------|------------|-----------|-----------|-------------------|---------|
| RH threading | LH threading | | | | | | | RH | LH |
| CMM.00.05/RH | CMM.00.05/LH | 300 | 100 | 13 | 15 | ✓ | - | 19,52 € | 22,49 € |
| CMM.00.06/RH | CMM.00.06/LH | 400 | 120 | 13 | 22 | ✓ | ✓ | 11,89 € | 13,77 € |
| CMM.00.08/RH | CMM.00.08/LH | 800 | 170 | 14 | 38 | ✓ | ✓ | 12,56 € | 14,54 € |
| CMM.00.10/RH | CMM.00.10/LH | 1 300 | 200 | 13 | 63 | ✓ | ✓ | 14,11 € | 16,33 € |
| CMM.00.12/RH | CMM.00.12/LH | 1 700 | 270 | 13 | 100 | ✓ | ✓ | 17,13 € | 19,80 € |
| CMM.00.16/RH | CMM.00.16/LH | 4 800 | 550 | 15 | 195 | ✓ | ✓ | 37,34 € | 43,13 € |
| CMM.00.20/RH | - | 5 200 | 600 | 14 | 370 | ✓ | - | 57,06 € | - |

* Depending on availability - Dimensions in mm

CFF_{SS} Stainless steel/self-lubricating bronze contact

- Female threaded rod end conforming to DIN ISO 12240-4

K series

- Materials:

Sphere: Stainless steel 420,

ground and polished

Insert: self lubricating bronze

Housing: Stainless steel 304

Economy range

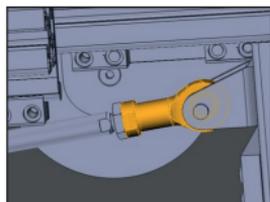


Advantages

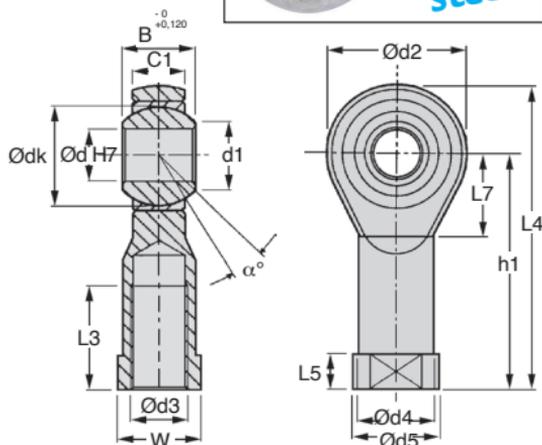
- Self-lubricating
- No maintenance required
- Bearing surface resistant to wear
- Low friction

Application

- Oscillating movements



Typical application



DISCOUNTS

| | | | |
|-------|------|------|------------|
| Qty | 1+ | 6+ | 10+ |
| Disc. | List | -15% | On request |

| Part number | Ød | Ød3 | B | C1 | Ød1 | Ød2 | Ød4 | Ød5 | Ødk | h1 | L3 | L4 | L5 | L7 | W |
|--------------|----|----------|----|-------|-------|-----|-------|-----|-------|----|----|-----|-------|----|----|
| CFF.00.06/SS | 6 | M60x1 | 9 | 6,75 | 8,90 | 20 | 10,00 | 13 | 12,70 | 30 | 12 | 40 | 5,00 | 11 | 11 |
| CFF.00.08/SS | 8 | M80x1,25 | 12 | 09,00 | 10,40 | 24 | 12,50 | 16 | 15,90 | 36 | 16 | 048 | 05,00 | 13 | 14 |
| CFF.00.10/SS | 10 | M10x1,5 | 14 | 10,50 | 12,90 | 28 | 15,00 | 19 | 19,10 | 43 | 20 | 057 | 06,50 | 15 | 17 |
| CFF.00.12/SS | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32 | 17,50 | 22 | 22,22 | 50 | 22 | 066 | 06,50 | 17 | 19 |
| CFF.00.16/SS | 16 | M16x2 | 21 | 15,00 | 19,30 | 42 | 22,00 | 27 | 28,60 | 64 | 28 | 085 | 08,00 | 23 | 22 |
| CFF.00.20/SS | 20 | M20x2,5 | 25 | 18,00 | 24,30 | 50 | 27,50 | 34 | 34,90 | 77 | 33 | 102 | 10,00 | 27 | 30 |

| Part number RH threading | Radial static load F _s (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Price each 1 to 5 |
|-----------------------------|---|--|-------------------------|---------------|----------------------|
| CFF.00.06/RH/SS | 700 | 120 | 13 | 25 | 79,49 € |
| CFF.00.08/RH/SS | 1 200 | 170 | 14 | 46 | 98,48 € |
| CFF.00.10/RH/SS | 1 400 | 200 | 13 | 75 | 121,51 € |
| CFF.00.12/RH/SS | 1 900 | 270 | 13 | 112 | 142,96 € |
| CFF.00.16/RH/SS | 4 800 | 550 | 15 | 222 | 265,33 € |
| CFF.00.20/RH/SS | 5 200 | 600 | 14 | 406 | 300,70 € |

*Depending on availability - Dimensions in mm

Stainless steel/self-lubricating bronze **CMMss**

- **Male threaded rod end conforming to DIN ISO 12240-4 K series**

- **Materials:**

Sphere: Stainless steel 420, ground and polished

Insert: self lubricating bronze

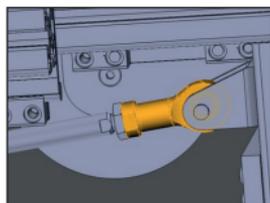
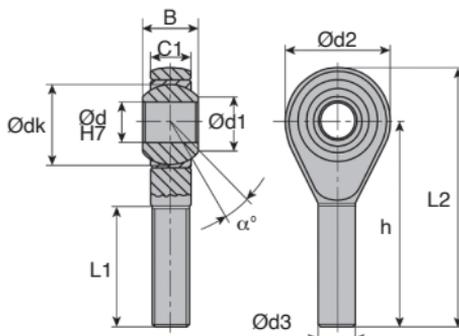
Housing: Stainless steel 304

Advantages

- Self-lubricating
- Maintenance free
- Bearing surface resistant to wear
- Low friction

Application

- Oscillating movements



Typical application

DISCOUNTS

| | | | |
|-------|------|------|------------|
| Qty | 1+ | 6+ | 10+ |
| Disc. | List | -15% | On request |

| Part number | Ød | Ød3 | B | C1 | Ød1 | Ød2 | Ødk | h | L1 | L2 |
|-----------------|----|----------|----|-------|-------|-----|--------|----|----|-----|
| CMM.00.06/RH/SS | 6 | M6x1,00 | 9 | 6,75 | 8,90 | 20 | 12,700 | 36 | 21 | 46 |
| CMM.00.08/RH/SS | 8 | M8x1,25 | 12 | 9,00 | 10,40 | 24 | 15,875 | 42 | 25 | 54 |
| CMM.00.10/RH/SS | 10 | M10x1,50 | 14 | 10,50 | 12,90 | 28 | 19,050 | 48 | 28 | 62 |
| CMM.00.12/RH/SS | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32 | 22,225 | 54 | 32 | 70 |
| CMM.00.16/RH/SS | 16 | M16x2,00 | 21 | 15,00 | 19,30 | 42 | 28,575 | 66 | 37 | 87 |
| CMM.00.20/RH/SS | 20 | M20x2,50 | 25 | 18,00 | 24,30 | 50 | 34,925 | 78 | 45 | 103 |

| Part number | Radial static load F _s (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* | Price each 1 to 5 |
|-----------------|---|--------------------------------------|-------------------|------------|--------|-------------------|
| CMM.00.06/RH/SS | 400 | 120 | 13° | 21 | ✓ | 79,49 € |
| CMM.00.08/RH/SS | 800 | 170 | 14° | 40 | ✓ | 98,48 € |
| CMM.00.10/RH/SS | 1300 | 200 | 13° | 64 | ✓ | 121,51 € |
| CMM.00.12/RH/SS | 1700 | 270 | 13° | 97 | - | 142,96 € |
| CMM.00.16/RH/SS | 4800 | 550 | 15° | 208 | - | 265,33 € |
| CMM.00.20/RH/SS | 5200 | 600 | 14° | 367 | - | 300,70 € |

*Depending on availability - Dimensions in mm

Female rod ends



Stainless steel/Teflon contact

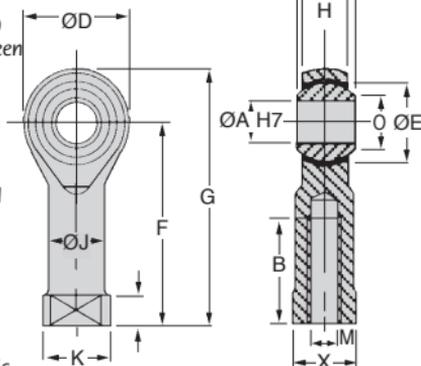
- Female threaded rod end
- Axial static load = 0.2 x radial static load
- Materials:
Housing: stainless steel 303
Insert: stainless steel 303
Sphere: stainless steel 420
Coating: UNIFLON® between ring and sphere

Advantages

- Long life expectancy
- Low friction
- No maintenance required
- Corrosion resistant

Applications

- Oscillating movement in hostile environments (water, salt, dampness, other difficult atmospheric conditions...)



Swiss precision



stainless steel

DISCOUNTS

| | | | |
|-------|------|------|------------|
| Qty | 1+ | 10+ | 24+ |
| Disc. | List | -20% | On request |

| Part number | ØA | B | ØD | F | G | H | ØJ | K | L | M | O | W | X |
|-------------|----|----|----|----|----|-------|-------|-------|-------|------------|-------|----|-------|
| SFE3.45 | 3 | 10 | 12 | 21 | 27 | 4,50 | 5,00 | 6,50 | 3,00 | M3 x 0,50 | 5,18 | 6 | 5,50 |
| SFE5.45 | 5 | 14 | 16 | 27 | 35 | 6,00 | 7,50 | 9,50 | 4,00 | M5 x 0,80 | 7,71 | 8 | 8,00 |
| SFE6.45 | 6 | 14 | 18 | 30 | 39 | 6,75 | 9,50 | 12,00 | 5,00 | M6 x 1 | 8,98 | 9 | 10,00 |
| SFE8.45 | 8 | 17 | 22 | 36 | 47 | 9,00 | 12,50 | 16,00 | 5,00 | M8 x 1,25 | 10,40 | 12 | 13,00 |
| SFE10.45 | 10 | 20 | 26 | 43 | 56 | 10,50 | 15,00 | 19,00 | 6,50 | M10 x 1,50 | 12,92 | 14 | 16,00 |
| SFE12.45 | 12 | 22 | 30 | 50 | 65 | 12,00 | 17,50 | 22,00 | 6,50 | M12 x 1,75 | 15,43 | 16 | 18,00 |
| SFE14.45 | 14 | 27 | 34 | 57 | 74 | 13,50 | 20,00 | 25,00 | 8,00 | M14 x 2 | 16,86 | 19 | 21,00 |
| SFE16.45 | 16 | 33 | 38 | 64 | 83 | 15,00 | 22,00 | 27,00 | 8,00 | M16 x 2 | 19,39 | 21 | 24,00 |
| SFE18.45 | 18 | 36 | 42 | 71 | 92 | 16,50 | 25,00 | 31,00 | 10,00 | M18 x 1,50 | 21,89 | 23 | 27,00 |

| Part number | Radial static load (daN) | Sphere ØE | Weight (g) | Price each 1 to 5 |
|-------------|--------------------------|-----------|------------|-------------------|
| SFE3.45 | 160 | 6,00 | 7 | 221,62 € |
| SFE5.45 | 250 | 11,11 | 14 | 173,36 € |
| SFE6.45 | 300 | 12,70 | 22 | 163,21 € |
| SFE8.45 | 450 | 15,88 | 38 | 173,68 € |
| SFE10.45 | 600 | 19,05 | 70 | 199,71 € |
| SFE12.45 | 770 | 22,23 | 110 | 238,39 € |
| SFE14.45 | 940 | 25,40 | 150 | 246,71 € |
| SFE16.45 | 1140 | 28,58 | 200 | 406,54 € |
| SFE18.45 | 1370 | 31,75 | 280 | 724,33 € |

Dimensions in mm

- **Male threaded rod end**
- Axial static load = 0.2 x radial static load
- Materials:
 - Housing: stainless steel 303
 - Insert: stainless steel 303
 - Sphere: stainless steel 420
 - Coating UNIFLON® between ring and ball

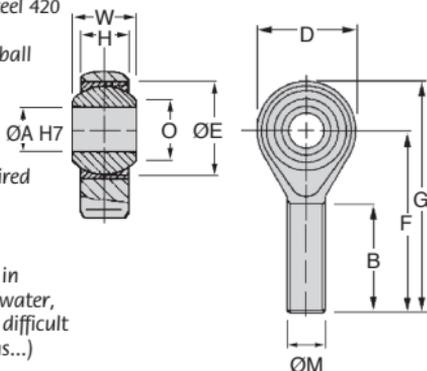
Swiss precision

Advantages

- Long life expectancy
- Low friction
- No maintenance required
- Corrosion resistant

Applications

- Oscillating movement in hostile environments (water, salt, dampness, other difficult atmospheric conditions...)



stainless steel

DISCOUNTS

| | | | |
|-------|------|------|------------|
| Qty | 1+ | 10+ | 24+ |
| Disc. | List | -20% | On request |

| Part number | ØA | B | D | F | G | H | ØM | O | W |
|-------------|----|----|----|----|----|-------|------------|-------|----|
| SME3.45 | 3 | 15 | 12 | 27 | 33 | 4,50 | M3 x 0,50 | 05,18 | 06 |
| SME5.45 | 5 | 20 | 16 | 33 | 41 | 6,00 | M5 x 0,80 | 07,71 | 08 |
| SME6.45 | 6 | 22 | 18 | 36 | 45 | 6,75 | M6 x 1 | 08,96 | 09 |
| SME8.45 | 8 | 25 | 22 | 42 | 53 | 9,00 | M8 x 1,25 | 10,40 | 12 |
| SME10.45 | 10 | 29 | 26 | 48 | 61 | 10,50 | M10 x 1,50 | 12,92 | 14 |
| SME12.45 | 12 | 33 | 30 | 54 | 69 | 12,00 | M12 x 1,75 | 15,43 | 16 |
| SME14.45 | 14 | 36 | 34 | 60 | 77 | 13,50 | M14 x 2 | 16,86 | 19 |
| SME16.45 | 16 | 40 | 38 | 66 | 85 | 15,00 | M16 x 2 | 19,39 | 21 |
| SME18.45 | 18 | 44 | 42 | 72 | 93 | 16,50 | M18 x 1,50 | 21,89 | 23 |

| Part number | Radial static load (daN) | Sphere ØE | Weight (g) | Price each 1 to 9 |
|-------------|--------------------------|-----------|------------|-------------------|
| SME3.45 | 50 | 7,93 | 5 | 221,62 € |
| SME5.45 | 150 | 11,11 | 13 | 230,52 € |
| SME6.45 | 210 | 12,70 | 19 | 190,08 € |
| SME8.45 | 400 | 15,88 | 35 | 169,58 € |
| SME10.45 | 600 | 19,05 | 57 | 202,33 € |
| SME12.45 | 770 | 22,23 | 87 | 230,75 € |
| SME14.45 | 940 | 25,40 | 120 | 384,04 € |
| SME16.45 | 1140 | 28,58 | 170 | 428,57 € |
| SME18.45 | 1370 | 31,75 | 240 | 704,63 € |

Dimensions in mm