NEEDLE ROLLER BEARINGS

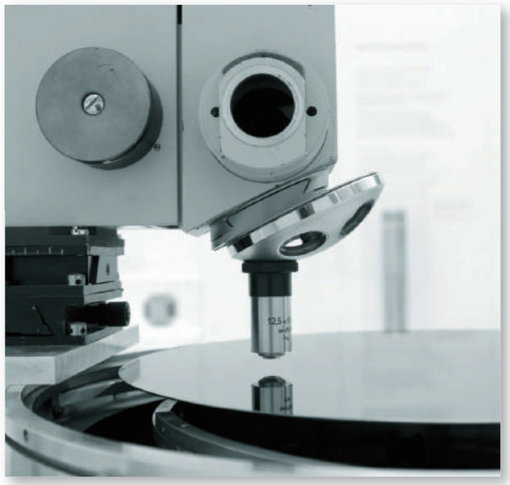
STAINLESS STEEL

Strong Point of Stainless Needle Roller Bearing

JNS manufactures stainless steel needle bearings and inner rings with excellent corrosion resistance.
These products are used in applications where a high resistance to corrosion is required such as medical devices, food machinery, packaging machinery, textile machinery and chemical machinery.
The outer ring, inner ring and rollers are made from martensite stainless steel, and after being subjected to heat treatment, receive a high accuracy grinding finish.
These products are not appropriate for use in environments with high humidity or where they could be directly exposed to water.
The mounting dimensions of JNS stainless bearings are the same as the conventional bearings. They are also compatible with the needle bearings of other manufacturers.

PHARMACEUTICALS

MEDICAL DEVICES



SEMICONDUCTORS

BOTTLING

FOODS

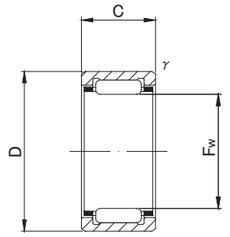
Stainless type Machined type needle roller bearings/inner ring

Type and Part Code

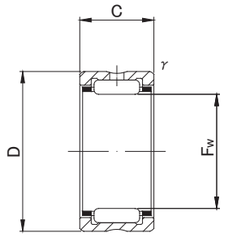
Type	Applicable axis diameter	Feature	Part Code
 RNA..M	ϕ 7 ~ ϕ 30	Stainless type Machined type needle roller bearings With collar outer ring Without inner ring Without seal	**Type** RNA → Type of bearing **Dimensions** 49 (Dimension series) 01 (Bore diameter number) M (**Stainless steel**) **Suffix code** P6 → Classification symbol (Class 6) (Standard class 0 No symbol)
 NK..M	ϕ 5 ~ ϕ 19	Stainless type Machined type needle roller bearings Light load type With collar outer ring Without inner ring Without seal (There are no oil holes or oil grooves if the roller set bore diameter (Fw) is 10 mm or less)	**Type** NK → Type of bearing **Dimensions** 18 (Inscribed circle diameter) / 20 (Outer ring width) M (**Stainless steel**) **Suffix code** P6 → Classification symbol (Class 6) (Standard class 0 No symbol)
 NA..M	ϕ 5 ~ ϕ 25	Stainless type Machined type needle roller bearings With collar outer ring With inner ring Without seal *Double rows: NA69 (shaft dia. ≧ϕ 32)	**Type** NA → Type of bearing **Dimensions** 49 (Dimension series) 01 (Bore diameter number) M (**Stainless steel**) **Suffix code** C3 → Clearance symbol (C3 clearance) (Standard: No symbol, CN clearance) P6 → Classification symbol (Class 6) (Standard class 0 No symbol)
 NKI..M	ϕ 5 ~ ϕ 15	Stainless type Machined type needle roller bearings Light load type With collar outer ring With inner ring Without seal (There are no oil holes or oil grooves if the bore diameter is 8 mm or less)	**Type** NKI → Type of bearing **Dimensions** 10 (Bore diameter) / 20 (Outer ring width) M (**Stainless steel**) **Suffix code** C3 → Clearance symbol (C3 clearance) (Standard: No symbol, CN clearance) P6 → Classification symbol (Class 6) (Standard class 0 No symbol)
 IR..M	ϕ 5 ~ ϕ 50	Stainless type Inner ring	**Type** IR → Type of bearing **Dimensions** 25 (Bore diameter) 30 (Outer diameter) 17 (Width) M (**Stainless steel**)

MACHINED RING NEEDLE ROLLER BEARINGS STAINLESS STEEL WITHOUT INNER RING

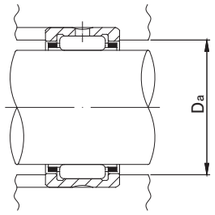
RNA49..M , NK..M



NK..M(Fw ≦ 10)



RNA49..M,NK..M



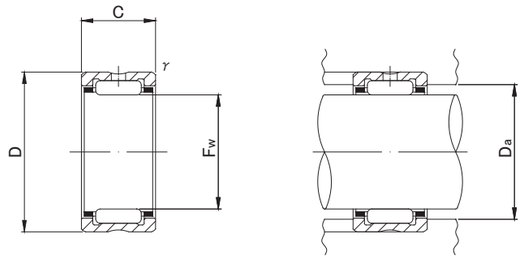
RNA49..M NK..M TYPE

Shaft Diameter (mm)	Designation		Dimensions (mm)				Standard mounting dimensions (mm)	Basic dynamic load rating	Basic static load rating	Limiting speed *	Mass	Usable bearing designation	
	RNA49..M	NK..M	Fw	D	C	*r*s min	Da MAX	Cr N	Cor N	rpm	g (approx)	INNER RING	WITH INNER RING
5	—	NK5/10M	5 +0.018 +0.010	10	10	0.15	6.5	2 200	1 700	40 000	3.4	—	—
	—	NK5/12M	5 +0.018 +0.010	10	12	0.15	6.5	2 800	2 400	40 000	4.2	—	—
6	—	NK6/10M	6 +0.018 +0.010	12	10	0.15	7.5	2 400	2 100	37 000	5.3	—	—
	—	NK6/12M	6 +0.018 +0.010	12	12	0.15	7.5	3 100	2 900	37 000	6.4	—	—
7	RNA495M	—	7 +0.022 +0.013	13	10	0.15	8.5	2 700	2 400	34 000	5.9	—	—
	—	NK7/10M	7 +0.022 +0.013	14	10	0.3	8.5	3 300	2 700	34 000	6.9	—	—
	—	NK7/12M	7 +0.022 +0.013	14	12	0.3	8.5	4 200	3 700	34 000	8.3	—	—
8	RNA496M	—	8 +0.022 +0.013	15	10	0.15	13.8	3 500	3 100	32 000	7.3	IR6810M	NA496M
	—	NK8/12M	8 +0.022 +0.013	15	12	0.3	13	4 600	4 300	32 000	9	IR5812M	NKI 5/12M
	—	NK8/16M	8 +0.022 +0.013	15	16	0.3	13	6 500	6 700	32 000	13	IR5816M	NKI 5/16M
9	—	NK9/12M	9 +0.022 +0.013	16	12	0.3	14	5 000	4 800	30 000	10	IR6912M	NKI 6/12M
	—	NK9/16M	9 +0.022 +0.013	16	16	0.3	14	6 900	7 500	30 000	13.2	IR6916M	NKI 6/16M
	RNA497M	—	9 +0.022 +0.013	17	10	0.15	15.8	4 100	3 300	30 000	9.3	IR7910M	NA497M
10	—	NK10/12M	10 +0.022 +0.013	17	12	0.3	15	5 400	5 500	28 000	10.7	IR71012M	NKI 7/12M
	—	NK10/16M	10 +0.022 +0.013	17	16	0.3	15	7 500	8 400	28 000	14.3	IR71016M	NKI 7/16M
	RNA498M	—	10 +0.022 +0.013	19	11	0.2	17.4	5 700	4 600	28 000	12.6	IR81011M	NA498M
12	—	NK12/12M	12 +0.027 +0.016	19	12	0.3	17	6 000	6 700	26 000	12.2	IR91212M	NKI 9/12M
	—	NK12/16M	12 +0.027 +0.016	19	16	0.3	17	8 400	10 300	26 000	16.3	IR91216M	NKI 9/16M
	RNA499M	—	12 +0.027 +0.016	20	11	0.3	18	6 000	5 700	26 000	13.6	IR91211M	NA499M
14	RNA4900M	—	14 +0.027 +0.016	22	13	0.3	20	8 400	9 200	24 000	16.5	IR101413M	NA4900M
	—	NK14/16M	14 +0.027 +0.016	22	16	0.3	20	10 800	12 600	24 000	21	IR101416M	NKI 10/16M
	—	NK14/20M	14 +0.027 +0.016	22	20	0.3	20	13 600	17 000	24 000	26.5	IR101420M	NKI 10/20M
15	—	NK15/16M	15 +0.027 +0.016	23	16	0.3	21	11 400	13 700	23 000	22.5	—	—
	—	NK15/20M	15 +0.027 +0.016	23	20	0.3	21	14 300	18 500	23 000	28	—	—

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.

MACHINED RING NEEDLE ROLLER BEARINGS
STAINLESS STEEL
WITHOUT INNER RING

RNA49..M , NK..M



RNA49..M,NK..M

RNA49..M NK..M TYPE

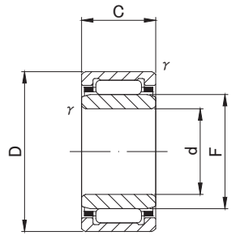
Shaft Diameter (mm)	Designation		Dimensions (mm)				Standard mounting dimensions (mm)	Basic dynamic load rating	Basic static load rating	Limiting speed *	Mass	Usable bearing designation	
	RNA49..M	NK..M	Fw	D	C	*r*s min	Da MAX	Cr N	Cor N	rpm	g (approx)	INNER RING	WITH INNER RING
16	RNA4901M	—	16	24	13	0.3	22	8 900	10 200	23 000	18.1	IR121613M	NA4901M
	—	NK16/16M	16 +0.027 +0.016	24	16	0.3	22	11 300	13 800	23 000	23	IR121616M	NKI 12/16M
	—	NK16/20M	16	24	20	0.3	22	14 300	18 700	23 000	29	IR121620M	NKI 12/20M
17	—	NK17/16M	17 +0.027 +0.016	25	16	0.3	23	11 700	14 900	22 000	24.5	—	—
	—	NK17/20M	17	25	20	0.3	23	14 900	20 300	22 000	30.5	—	—
18	—	NK18/16M	18 +0.027 +0.016	26	16	0.3	24	12 300	16 100	21 000	25.5	—	—
	—	NK18/20M	18	26	20	0.3	24	15 600	21 700	21 000	32	—	—
19	—	NK19/16M	19 +0.033 +0.020	27	16	0.3	25	12 800	17 200	21 000	27	IR151916M	NKI 15/16M
	—	NK19/20M	19	27	20	0.3	25	16 200	23 200	21 000	34	IR151920M	NKI 15/20M
20	RNA4902M	—	20 +0.033 +0.020	28	13	0.3	26	10 000	12 600	20 000	21.5	IR152013M	NA4902M
22	RNA4903M	—	22 +0.033 +0.020	30	13	0.3	28	10 800	14 300	18 000	23.5	IR172213M	NA4903M
25	RNA4904M	—	25 +0.033 +0.020	37	17	0.3	35	19 300	23 000	16 000	55.5	IR202517M	NA4904M
30	RNA4905M	—	30 +0.033 +0.020	42	17	0.3	40	21 800	28 200	13 000	64	IR253017M	NA4905M

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.

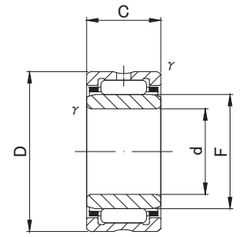
MACHINED RING NEEDLE ROLLER BEARINGS STAINLESS STEEL WITH INNER RING

SUS/INOX

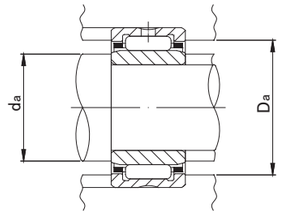
NA49..M ,NKI..M



NKI..M(d ≦ 8)



NA49..M,NKI..M



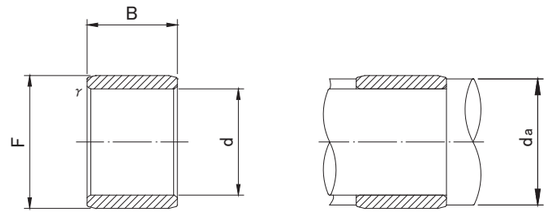
NA49..M ,NKI..M TYPE

Shaft Diameter (mm)	Designation		Dimensions (mm)					Standard mounting dimensions (mm)			Basic dynamic load rating	Basic static load rating	Limiting speed *	Mass	Usable bearing designation	
	NA49..M	NKI..M	d	D	C	*r*s min	F	da MIN	da MAX	Da MAX	Cr N	Cor N	rpm	g (approx)	OUTER RING	INNER RING
5	NA495M	—	5 0 -0.008	13	10	0.15	7	6.2	6.7	11.8	2 700	2 400	34 000	7.3	RNA495M	IR5710M
	—	NKI 5/12M	5	15	12	0.3	8	7	7.7	13	4 600	4 300	32 000	11.9	NK8/12M	IR5812M
	—	NKI 5/16M	5	15	16	0.3	8	7	7.7	13	6 500	6 700	32 000	16.7	NK8/16M	IR5816M
6	NA496M	—	6 0 -0.008	15	10	0.15	8	7.2	7.7	13.8	3 500	3 100	32 000	9.1	RNA496M	IR6810M
	—	NKI 6/12M	6	16	12	0.3	9	8	8.7	14	5 000	4 800	30 000	13	NK9/12M	IR6912M
	—	NKI 6/16M	6	16	16	0.3	9	8	8.7	14	6 900	7 500	30 000	17.5	NK9/16M	IR6916M
7	NA497M	—	7 0 -0.008	17	10	0.15	9	8.2	8.7	15.8	4 100	3 300	30 000	11.2	RNA497M	IR7910M
	—	NKI 7/12M	7	17	12	0.3	10	9	9.7	15	5 400	5 500	28 000	14.3	NK10/12M	IR71012M
	—	NKI 7/16M	7	17	16	0.3	10	9	9.7	15	7 500	8 400	28 000	19.2	NK10/16M	IR71016M
8	NA498M	—	8 0 -0.008	19	11	0.2	10	9.2	9.7	17.4	5 700	4 600	28 000	15	RNA498M	IR81011M
9	—	NKI 9/12M	9 0 -0.008	19	12	0.3	12	11	11.5	17	6 000	6 700	26 000	16.7	NK12/12M	IR91212M
	—	NKI 9/16M	9	19	16	0.3	12	11	11.5	17	8 400	10 300	26 000	22.5	NK12/16M	IR91216M
	NA499M	—	9	20	11	0.3	12	11	11.5	18	6 000	5 700	26 000	16.7	RNA499M	IR91211M
10	NA4900M	—	10 0 -0.008	22	13	0.3	14	12	13	20	8 400	9 200	24 000	24	RNA4900M	IR101413M
	—	NKI 10/16M	10	22	16	0.3	14	12	13	20	10 800	12 600	24 000	30	NK14/16M	IR101416M
	—	NKI 10/20M	10	22	20	0.3	14	12	13	20	13 600	17 000	24 000	38	NK14/20M	IR101420M
12	NA4901M	—	12 0 -0.008	24	13	0.3	16	14	15	22	8 900	10 200	23 000	26.5	RNA4901M	IR121613M
	—	NKI 12/16M	12	24	16	0.3	16	14	15	22	11 300	13 800	23 000	33.5	NK16/16M	IR121616M
	—	NKI 12/20M	12	24	20	0.3	16	14	15	22	14 300	18 700	23 000	42.5	NK16/20M	IR121620M
15	—	NKI 15/16M	15 0 -0.008	27	16	0.3	19	17	18	25	12 800	17 200	21 000	39.5	NK19/16M	IR151916M
	—	NKI 15/20M	15	27	20	0.3	19	17	18	25	16 200	23 200	21 000	50	NK19/20M	IR151920M
	NA4902M	—	15	28	13	0.3	20	17	19	26	10 000	12 600	20 000	35	RNA4902M	IR152013M
17	NA4903M	—	17 0 -0.008	30	13	0.3	22	19	21	28	10 800	14 300	18 000	39	RNA4903M	IR172213M
20	NA4904M	—	20 0 -0.010	37	17	0.3	25	22	24	35	19 300	23 000	16 000	78.5	RNA4904M	IR202517M
25	NA4905M	—	25 0 -0.010	42	17	0.3	30	27	29	40	21 800	28 200	13 000	92.5	RNA4905M	IR253017M

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.

INNER RINGS
STAINLESS STEEL

IR..M



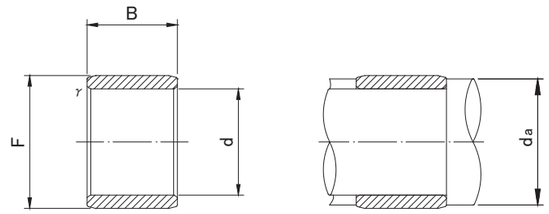
IR..M

IR..M TYPE

Shaft Diameter (mm)	Designation	Dimensions (mm)				Standard mounting dimensions (mm)		Mass	Usable bearing designation	
	IR..M	d	F	B	*r*s min	da MIN	da MAX	g (approx)	RNA49..M	NK..M
5	**IR 5710M**	5 0 -0.008	7	10	0.15	6.2	6.7	1.4	RNA495M	—
	IR 5812M	5	8	12	0.3	7	7.7	3	—	NK8/12M
	IR 5816M	5	8	16	0.3	7	7.7	4	—	NK8/16M
6	**IR 6810M**	6 0 -0.008	8	10	0.15	7.2	7.7	1.7	RNA496M	—
	IR 6912M	6	9	12	0.3	8	8.7	3.2	—	NK9/12M
	IR 6916M	6	9	16	0.3	8	8.7	4.3	—	NK9/16M
	IR 61010M	6	10	10	0.3	8	9.7	4	—	—
7	**IR 7910M**	7 0 -0.008	9	10	0.15	8.2	8.7	1.9	RNA497M	—
	IR 71012M	7	10	12	0.3	9	9.7	3.6	—	NK10/12M
	IR 71016M	7	10	16	0.3	9	9.7	5	—	NK10/16M
8	**IR 81011M**	8 0 -0.008	10	11	0.15	9.2	9.7	2.4	RNA498M	—
	IR 81210M	8	12	10	0.3	10	11	4.8	—	—
9	**IR 91211M**	9 0 -0.008	12	11	0.3	11	11.5	3.1	RNA499M	—
	IR 91212M	9	12	12	0.3	11	11.5	4.5	—	NK12/12M
	IR 91216M	9	12	16	0.3	11	11.5	6	—	NK12/16M
10	**IR 101412M**	10 0 -0.008	14	12	0.3	12	13	7	—	—
	IR 101413M	10	14	13	0.3	12	13	7.5	RNA4900M	—
	IR 101416M	10	14	16	0.3	12	13	9	—	NK14/16M
	IR 101420M	10	14	20	0.3	12	13	11.5	—	NK14/20M
12	**IR 121612M**	12 0 -0.008	16	12	0.3	14	15	8	—	—
	IR 121613M	12	16	13	0.3	14	15	8.5	RNA4901M	—
	IR 121616M	12	16	16	0.3	14	15	10.5	—	NK16/16M
	IR 121620M	12	16	20	0.3	14	15	13.5	—	NK16/20M
15	**IR 151916M**	15 0 -0.008	19	16	0.3	17	18	12.5	—	NK19/16M
	IR 151920M	15	19	20	0.3	17	18	16	—	NK19/20M
	IR 152012M	15	20	12	0.3	17	19	12	—	—
	IR 152013M	15	20	13	0.3	17	19	13.5	RNA4902M	—
17	**IR 172213M**	17 0 -0.008	22	13	0.3	19	21	15.5	RNA4903M	—
	IR 172216M	17	22	16	0.3	19	21	19	—	—

INNER RINGS
STAINLESS STEEL

IR..M



IR..M

IR..M TYPE

Shaft Diameter (mm)	Designation	Dimensions (mm)				Standard mounting dimensions (mm)		Mass	Usable bearing designation	
	IR..M	d	F	B	*r*s min	da MIN	da MAX	g (approx)	RNA49..M	NK..M
20	**IR 202516M**	20 0 -0.010	25	16	0.3	22	24	22	—	—
	IR 202517M	20 0 -0.010	25	17	0.3	22	24	23	RNA4904M	—
25	**IR 253016M**	25 0 -0.010	30	16	0.3	27	29	28	—	—
	IR253017M	25 0 -0.010	30	17	0.3	27	29	28.5	RNA4905M	—
30	**IR 303820M**	30 0 -0.010	38	20	0.6	34	37	65	—	—
35	**IR 354220M**	35 0 -0.012	42	20	0.6	39	41	65	—	—
50	**IR 506020M**	50 0 -0.012	60	20	1	55	59	135	—	—

IR..M

CAM FOLLOWERS

STAINLESS STEEL

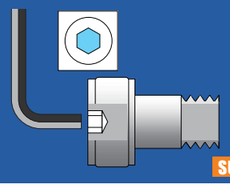
Type and Part Code

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

Type	Applicable axis diameter	Feature	Part Code
 CFH..MA Hexagon socket, Eccentric	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.	**V**: Full complement **None**: With cage **UU**: With seal **None**: With shield CFH 16 V M UU R A Type Stud diameter **Stainless steel** **R**: Crowned outer ring **None**: Cylindrical outer ring **A** : With hexagon socket on the stud head **B** : With hexadon socket on the thread side. (Applicable for shaft diameter 12 or more)
 CFH..MAB	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.	**V**: Full complement **None**: With cage **UU**: With seal **None**: With shield CFH 16 V M UU R AB Type Stud diameter **Stainless steel** **R**: Crowned outer ring **None**: Cylindrical outer ring **AB**: With hexagon socket on both sides. (With integrated concave nipple : Stainless steel)
 CFT..M Lubrication tap hole	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.	**V**: Full complement **None**: With cage **UU**: With seal **None**: With shield CFT 16 V M UU R A **CFT**: Standard type **CFHT**: Eccentric type Stud diameter **Stainless steel** **R**: Crowned outer ring **None**: Cylindrical outer ring **A** : With hexagon socket on the stud head (Applicable shaft diameter ϕ 12 ~ ϕ 30) **B** : With hexagon socket on the thread side. (Appricable shaft diameter ϕ 12 ~ ϕ 30) **None**: Standard type

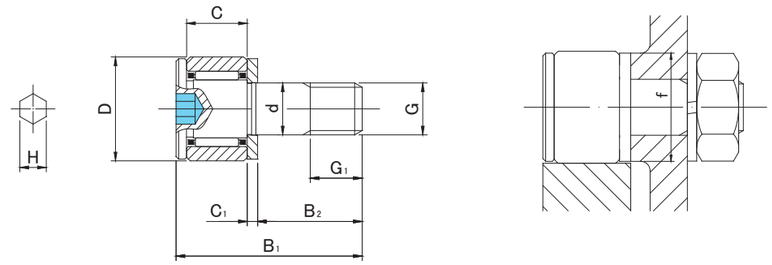
CAM FOLLOWERS STAINLESS STEEL

MINIATURE TYPE HEXAGON SOCKET ON STUD HEAD



CFS..MA

CFS..VMA



CFS..MA TYPE

Prepacked Grease

Stud diameter (mm)	h6 tolerance	Designation Cylindrical outer ring: With cage	Full roller	D	C	d	G	G1	B1	B2	C1	H	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Max tightening torque N·m	Mass g (approx)
2.5	0 -0.006	**CFS 2.5MA**	—	**5**	3	2.5	M2.5×0.45	2.5	9.5	5	0.7	0.9	4.8	370	300	260	0.2	1
		—	**CFS 2.5VMA**											920	990	260		
3	0 -0.006	**CFS 3MA**	—	**6**	4	3	M3×0.5	3	11.5	6	0.7	1.5	5.8	570	560	360	0.3	2
		—	**CFS 3VMA**											1 260	1 620	360		
4	0 -0.008	**CFS 4MA**	—	**8**	5	4	M4×0.7	4	15	8	1	2	7.7	990	990	780	0.6	4
		—	**CFS 4VMA**											2 160	2 790	780		
5	0 -0.008	**CFS 5MA**	—	**10**	6	5	M5×0.8	5	18	10	1	2.5	9.6	1 440	1 710	1 420	1.3	7
		—	**CFS 5VMA**											2 880	4 330	1 420		
6	0 -0.008	**CFS 6MA**	—	**12**	7	6	M6×1	6	21.5	12	1.2	3	11.6	1 890	1 980	2 110	2.3	13
		—	**CFS 6VMA**											4 240	5 760	2 110		

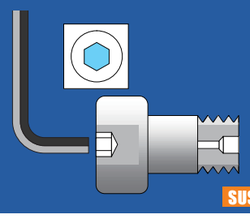
OUTER RINGS TOLERANCE (μm)

TYPE	Cylindrical outer ring
CFS2.5M,CFS3M,CFS4M,CFS5M,CFS6M	0/-8

ACCESSORIES

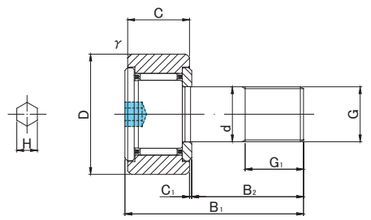
TYPE	 NUT
All types	Attached

CAM FOLLOWERS
STAINLESS STEEL
HEXAGON SOCKET ON STUD HEAD

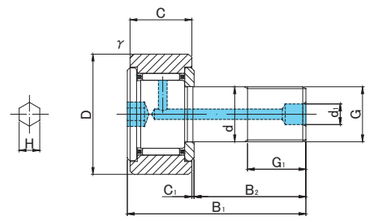



CF..MA

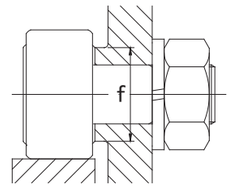

CF..VMA



CF3(V)MA～CF10-1(V)MA



CF10(V)MAK～CF10-1(V)MAK



CF..MA TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R250(CF3～CF5) R500(CF6～CF10-1), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	B3	C1	d1	d2	H	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
3	0 -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 -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 -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 -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 -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 -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 -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 -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 -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.

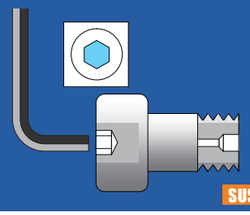
OUTER RINGS TOLERANCE (μm)

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

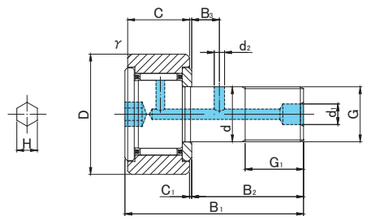
TYPE	STOP PLUG	RESIN PLUG	NUT
CF3M/CF4M/CF5M/CF6M/CF8M/CF10M/CF10-1M	—	—	Attached
CF10MK/CF10-1MK	ϕ 4 Attached	ϕ 4 Attached	Attached
CF12M/CF12-1M/CF16M/CF18M	ϕ 6 Attached	ϕ 6 Attached	Attached
CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M	ϕ 8 Attached	ϕ 8 Attached	Attached

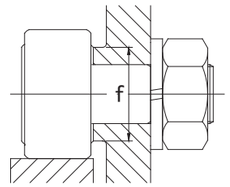
CAM FOLLOWERS STAINLESS STEEL HEXAGON SOCKET ON STUD HEAD



CF..MA

CF..VMA





CF..MA TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R500(CF12 ～ CF18) R1000(CF20 ≦), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	B3	C1	d1	d2	H	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
12	0 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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)

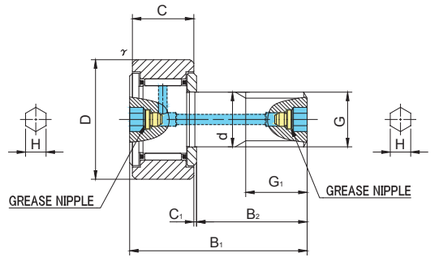
TYPE	Cylindrical outer ring	Crowned outer ring
CF3M,CF4M,CF5M,CF6M	0/-8	0/-50
CF8M,CF10M,CF10-1M,CF12M	0/-9	0/-50
CF12-1M,CF16M,CF18M,CF20-1M	0/-11	0/-50
CF20M,CF24M,CF24-1M,CF30M	0/-13	0/-50
CF30-1M,CF30-2M	0/-15	0/-50

ACCESSORIES

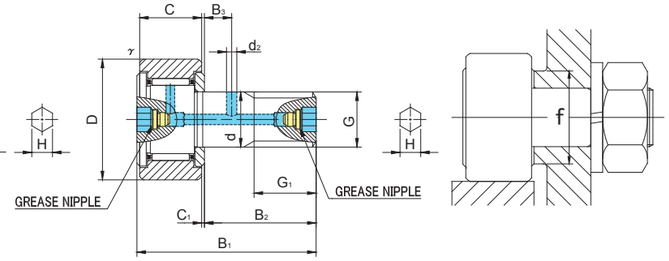
TYPE	STOP PLUG	RESIN PLUG	NUT
CF3M/CF4M/CF5M/CF6M/CF8M/CF10M/CF10-1M	—	—	Attached
CF10MK/CF10-1MK	ϕ 4 Attached	ϕ 4 Attached	Attached
CF12M/CF12-1M/CF16M/CF18M	ϕ 6 Attached	ϕ 6 Attached	Attached
CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M	ϕ 8 Attached	ϕ 8 Attached	Attached

CF..MAB

CF..VMAB



CF10(V)MABK～CF10−1(V)MABK



CF12(V)MAB～CF18(V)MAB

CF..MAB 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 R500(CF10 ～ CF18)																						
	h7 tolerance	Without seals	With seals	Without seals	With seals	D	C	d	G	G1	B1	B2	B3	C1	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)
10	0 -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 -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 -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 -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 -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 -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)

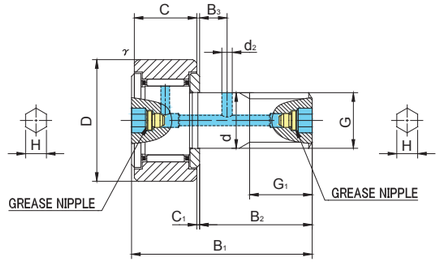
TYPE	Cylindrical outer ring	Crowned outer ring
CF10,CF10-1,CF12	0/-9	0/-50
CF12-1,CF16,CF18,CF20-1	0/-11	0/-50
CF20,CF24,CF24-1,CF30	0/-13	0/-50
CF30-1,CF30-2	0/-15	0/-50

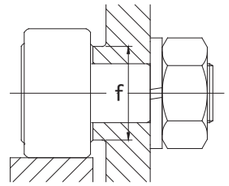
ACCESSORIES

TYPE	 Grease Nipple	 NUT
All types	Installed	Attached

CF..MAB

CF..VMAB





CF..MAB 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 R1000(CF20 ≦)																						
	h7 tolerance	Without seals	With seals	Without seals	With seals	D	C	d	G	G1	B1	B2	B3	C1	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)
20	0 -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 -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 -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 -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 -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 -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 -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.

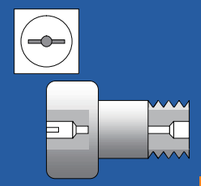
OUTER RINGS TOLERANCE (μm)

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	 Grease Nipple	 NUT
All types	Installed	Attached

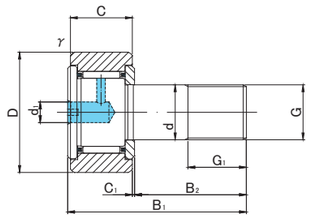
CAM FOLLOWERS
STAINLESS STEEL
SCREWDRIVER SLOT HEAD



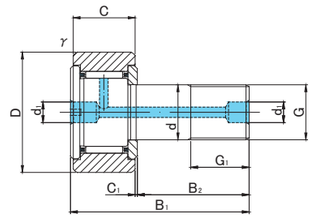
SUS/INOX

CF..M

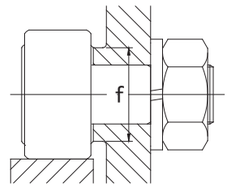
CF..VM



CF5(V)M～CF10-1(V)M



CF10(V)MK～CF10-1(V)MK



CF..M TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R250(CF5) R500(CF6 ～ CF10-1), Without seals	Crowned outer ring R250(CF5) R500(CF6 ～ CF10-1), With seals	D	C	d	G	G1	B1	B2	B3	C1	d1	d2	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
5	0 -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 -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 -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 -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 -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 -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 -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.

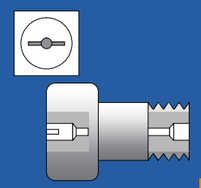
OUTER RINGS TOLERANCE (μm)

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

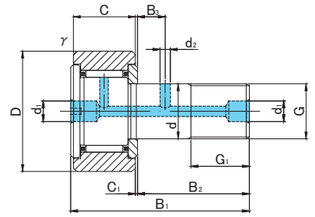
TYPE	STOP PLUG	RESIN PLUG	NUT
CF5M	—	—	Attached
CF6M/CF8M/CF10M/CF10-1M	—	ϕ 4 Attached	Attached
CF10MK/CF10-1MK	ϕ 4 Attached	ϕ 4 Attached	Attached
CF12M/CF12-1M/CF16M/CF18M	ϕ 6 Attached	ϕ 6 Attached	Attached
CF20M/CF20-1M/CF24M/CF24-1M/CF30M/CF30-1M/CF30-2M	ϕ 8 Attached	ϕ 8 Attached	Attached

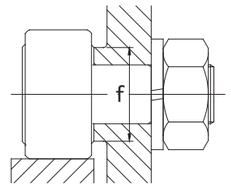
CAM FOLLOWERS STAINLESS STEEL SCREWDRIVER SLOT HEAD



CF..M

CF..VM





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 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 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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)

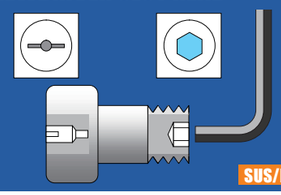
TYPE	Cylindrical outer ring	Crowned outer ring
CF5M,CF6M	0/-8	0/-50
CF8M,CF10M,CF10-1M,CF12M	0/-9	0/-50
CF12-1M,CF16M,CF18M,CF20-1M	0/-11	0/-50
CF20M,CF24M,CF24-1M,CF30M	0/-13	0/-50
CF30-1M,CF30-2M	0/-15	0/-50

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

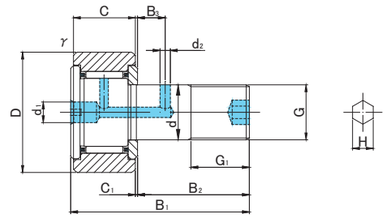
CAM FOLLOWERS STAINLESS STEEL

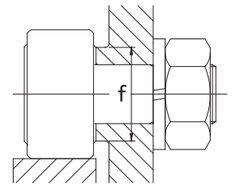
HEXAGON SOCKET ON THREAD SIDE SCREWDRIVER SLOT HEAD



CF..MB

CF..VMB





CF..MB TYPE

Prepacked Grease

Stud diameter (mm) d	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Designation: Cylindrical outer ring, With seals	Designation: Crowned outer ring R500 (CF12 ～ CF18) R1000 (CF20 ≦), Without seals	Designation: Crowned outer ring R500 (CF12 ～ CF18) R1000 (CF20 ≦), With seals	D	C	G	G1	B1	B2	B3	C1	d1	d2	H	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
12	0 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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 -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

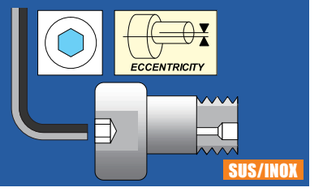
ACCESSORIES

TYPE	 STOP PLUG	 RESIN PLUG	 NUT
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

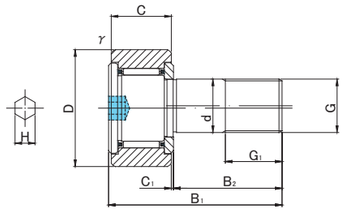
SOLID ECCENTRIC TYPE

HEXAGON SOCKET ON STUD HEAD

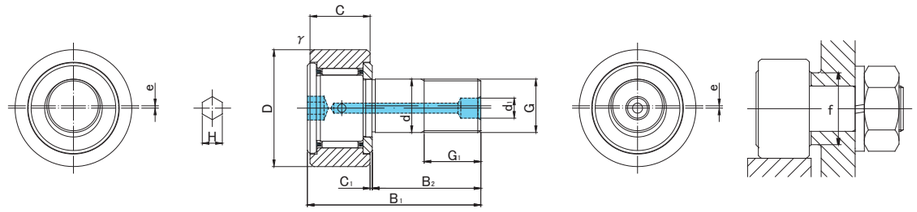


CFH..MA

CFH..VMA



CFH5(V)MA～CFH10-1(V)MA



CFH12(V)MA～CFH12-1(V)MA

CFH..MA TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Designation: Cylindrical outer ring, With seals	Designation: Crowned outer ring R500(CF5 ～ CF12), Without seals	Designation: Crowned outer ring R500(CF5 ～ CF12), With seals	D	C	d	G	G1	B1	B2	C1	d1	H	r's min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
5	0 -0.012	**CFH 5MA**	**CFH 5MUUA**	**CFH 5MRA**	**CFH 5MUURA**	**13**	9	5	M5×0.8	7.5	23	13	0.5	—	2.5	0.3	0.2	9.7	2 880	2 540	1 420	29 000	2 250	530	2	10.5
		CFH 5VMA	**CFH 5VMUUA**	**CFH 5VMRA**	**CFH 5VMUURA**														4 690	5 060	1 420	11 600				
6	0 -0.012	**CFH 6MA**	**CFH 6MUUA**	**CFH 6MRA**	**CFH 6MUURA**	**16**	11	6	M6×1	8	28	16	0.6	—	3	0.3	0.25	11	3 330	3 330	2 110	25 000	3 430	1 080	3	18.5
		CFH 6VMA	**CFH 6VMUUA**	**CFH 6VMRA**	**CFH 6VMUURA**														6 400	7 840	2 110	12 000				
8	0 -0.015	**CFH 8MA**	**CFH 8MUUA**	**CFH 8MRA**	**CFH 8MUURA**	**19**	11	8	M8×1.25	10	32	20	0.6	—	4	0.3	0.25	13	3 960	4 330	4 710	20 000	4 020	1 370	8	28.5
		CFH 8VMA	**CFH 8VMUUA**	**CFH 8VMRA**	**CFH 8VMUURA**														7 470	10 270	4 710	9 000				
10	0 -0.015	**CFH10MA**	**CFH10MUUA**	**CFH10MRA**	**CFH10MUURA**	**22**	12	10	M10×1.25	12	36	23	0.6	—	5	0.3	0.3	15	4 950	6 310	6 860	17 000	4 700	1 670	15	45
		CFH10VMA	**CFH10VMUUA**	**CFH10VMRA**	**CFH10VMUURA**														8 740	13 340	7 450	7 500				
10	0 -0.015	**CFH10-1MA**	**CFH10-1MUUA**	**CFH10-1MRA**	**CFH10-1MUURA**	**26**	12	10	M10×1.25	12	36	23	0.6	—	5	0.3	0.3	15	4 950	6 310	6 860	17 000	5 490	2 060	15	60
		CFH10-1VMA	**CFH10-1VMUUA**	**CFH10-1VMRA**	**CFH10-1VMUURA**														8 740	13 340	7 450	7 500				
12	0 -0.018	**CFH12MA**	**CFH12MUUA**	**CFH12MRA**	**CFH12MUURA**	**30**	14	12	M12×1.5	13	40	25	0.6	6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 060	2 450	22	95
		CFH12VMA	**CFH12VMUUA**	**CFH12VMRA**	**CFH12VMUURA**														12 350	18 120	11 270	6 000				
12	0 -0.018	**CFH12-1MA**	**CFH12-1MUUA**	**CFH12-1MRA**	**CFH12-1MUURA**	**32**	14	12	M12×1.5	13	40	25	0.6	6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 450	2 740	22	105
		CFH12-1VMA	**CFH12-1VMUUA**	**CFH12-1VMRA**	**CFH12-1VMUURA**														12 350	18 120	11 270	6 000				

* 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

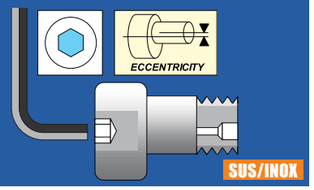
ACCESSORIES

TYPE	STOP PLUG	RESIN PLUG	NUT
CF3M/CF4M/CF5M	—	—	Attached
CF6M/CF8M/CF10M/CF10-1M	—	—	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

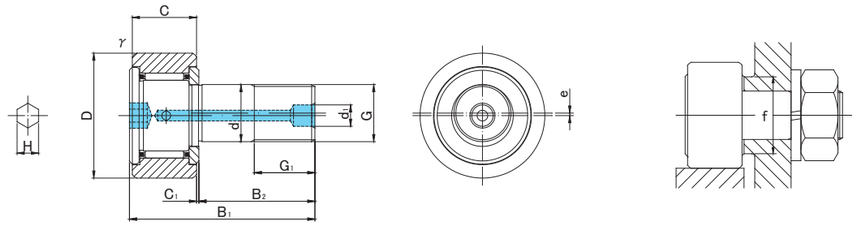
SOLID ECCENTRIC TYPE

HEXAGON SOCKET ON STUD HEAD



CFH..MA

CFH..VMA



CFH..MA TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Designation: Cylindrical outer ring, With seals	Designation: Crowned outer ring R500(CF16～CF18) R1000(CF20≦), Without seals	Designation: Crowned outer ring R500(CF16～CF18) R1000(CF20≦), With seals	D	C	d	G	G1	B1	B2	C1	d1	H	r's min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
16	0 -0.018	**CFH16MA**	**CFH16MUUA**	**CFH16MRA**	**CFH16MUURA**	**35**	18	16	M16×1.5	17	52	32.5	0.8	6	6	0.6	0.5	24	11 080	16 860	18 330	10 000	11 200	3 140	58	170
		CFH16VMA	**CFH16VMUUA**	**CFH16VMRA**	**CFH16VMUURA**														19 020	34 610	19 800	4 500				
18	0 -0.018	**CFH18MA**	**CFH18MUUA**	**CFH18MRA**	**CFH18MUURA**	**40**	20	18	M18×1.5	19	58	36.5	0.8	6	6	1	0.6	26	13 520	23 180	25 200	8 500	14 400	3 720	87	250
		CFH18VMA	**CFH18VMUUA**	**CFH18VMRA**	**CFH18VMUURA**														23 250	47 240	26 560	3 500				
20	0 -0.021	**CFH20MA**	**CFH20MUUA**	**CFH20MRA**	**CFH20MUURA**	**52**	24	20	M20×1.5	21	66	40.5	0.8	8	8	1	0.7	36	19 020	31 830	32 140	7 000	23 200	8 230	120	460
		CFH20VMA	**CFH20VMUUA**	**CFH20VMRA**	**CFH20VMUURA**														30 470	59 320	32 140	3 500				
20	0 -0.021	**CFH20-1MA**	**CFH20-1MUUA**	**CFH20-1MRA**	**CFH20-1MUURA**	**47**	24	20	M20×1.5	21	66	40.5	0.8	8	8	1	0.7	36	19 020	31 830	32 140	7 000	21 000	7 150	120	385
		CFH20-1VMA	**CFH20-1VMUUA**	**CFH20-1VMRA**	**CFH20-1VMUURA**														30 470	59 320	32 140	3 500				
24	0 -0.021	**CFH24MA**	**CFH24MUUA**	**CFH24MRA**	**CFH24MUURA**	**62**	29	24	M24×1.5	25	80	49.5	0.8	8	8	1	0.8	40	28 040	48 410	49 500	6 500	34 200	10 500	220	815
		CFH24VMA	**CFH24VMUUA**	**CFH24VMRA**	**CFH24VMUURA**														42 820	84 650	49 500	3 000				
24	0 -0.021	**CFH24-1MA**	**CFH24-1MUUA**	**CFH24-1MRA**	**CFH24-1MUURA**	**72**	29	24	M24×1.5	25	80	49.5	0.8	8	8	1	0.8	40	28 040	48 410	49 500	6 500	39 800	12 900	220	1 140
		CFH24-1VMA	**CFH24-1VMUUA**	**CFH24-1VMRA**	**CFH24-1VMUURA**														42 820	84 650	49 500	3 000				
30	0 -0.021	**CFH30MA**	**CFH30MUUA**	**CFH30MRA**	**CFH30MUURA**	**80**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	52 600	14 900	450	1 870
		CFH30VMA	**CFH30VMUUA**	**CFH30VMRA**	**CFH30VMUURA**														62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-1MA**	**CFH30-1MUUA**	**CFH30-1MRA**	**CFH30-1MUURA**	**85**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	56 000	16 100	450	2 030
		CFH30-1VMA	**CFH30-1VMUUA**	**CFH30-1VMRA**	**CFH30-1VMUURA**														62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-2MA**	**CFH30-2MUUA**	**CFH30-2MRA**	**CFH30-2MUURA**	**90**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	59 300	17 300	450	2 220
		CFH30-2VMA	**CFH30-2VMUUA**	**CFH30-2VMRA**	**CFH30-2VMUURA**														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)

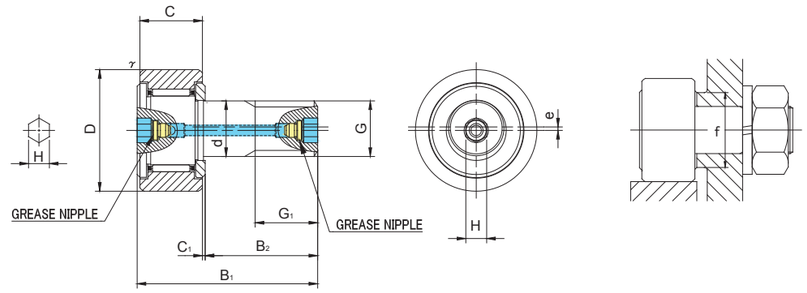
TYPE	Cylindrical outer ring	Crowned outer ring
CF5M,CF6M	0/-8	0/-50
CF8M,CF10M,CF10-1M,CF12M	0/-9	0/-50
CF12-1M,CF16M,CF18M,CF20-1M	0/-11	0/-50
CF20M,CF24M,CF24-1M,CF30M	0/-13	0/-50
CF30-1M,CF30-2M	0/-15	0/-50

ACCESSORIES

TYPE	 STOP PLUG	 RESIN PLUG	 NUT
CF3M/CF4M/CF5M	—	—	Attached
CF6M/CF8M/CF10M/CF10-1M	—	—	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

CFH..MAB

CFH..VMAB



CFH..MAB TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Designation: Cylindrical outer ring, With seals	Designation: Crowned outer ring R500(CF12～CF18) R1000(CF20≦), Without seals	Designation: Crowned outer ring R500(CF12～CF18) R1000(CF20≦), With seals	D	C	d	G	G1	B1	B2	C1	H	rs min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
12	0 -0.018	CFH12MAB	CFH12MUUAB	CFH12MRAB	CFH12MUURAB	30	14	12	M12×1.5	13	40	25	0.6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 060	2 450	22	95
		CFH12VMAB	CFH12VMUUAB	CFH12VMRAB	CFH12VMUURAB													12 350	18 120	11 270	6 000				
12	0 -0.018	CFH12-1MAB	CFH12-1MUUAB	CFH12-1MRAB	CFH12-1MUURAB	32	14	12	M12×1.5	13	40	25	0.6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 450	2 740	22	105
		CFH12-1VMAB	CFH12-1VMUUAB	CFH12-1VMRAB	CFH12-1VMUURAB													12 350	18 120	11 270	6 000				
16	0 -0.018	CFH16MAB	CFH16MUUAB	CFH16MRAB	CFH16MUURAB	35	18	16	M16×1.5	17	52	32.5	0.8	6	0.6	0.5	24	11 080	16 860	18 330	10 000	11 200	3 140	58	170
		CFH16VMAB	CFH16VMUUAB	CFH16VMRAB	CFH16VMUURAB													19 020	34 610	19 800	4 500				
18	0 -0.018	CFH18MAB	CFH18MUUAB	CFH18MRAB	CFH18MUURAB	40	20	18	M18×1.5	19	58	36.5	0.8	6	1	0.6	26	13 520	23 180	25 200	8 500	14 400	3 720	87	250
		CFH18VMAB	CFH18VMUUAB	CFH18VMRAB	CFH18VMUURAB													23 250	47 240	26 560	3 500				
20	0 -0.021	CFH20MAB	CFH20MUUAB	CFH20MRAB	CFH20MUURAB	52	24	20	M20×1.5	21	66	40.5	0.8	8	1	0.7	36	19 020	31 830	32 140	7 000	23 200	8 230	120	460
		CFH20VMAB	CFH20VMUUAB	CFH20VMRAB	CFH20VMUURAB													30 470	59 320	32 140	3 500				
20	0 -0.021	CFH20-1MAB	CFH20-1MUUAB	CFH20-1MRAB	CFH20-1MUURAB	47	24	20	M20×1.5	21	66	40.5	0.8	8	1	0.7	36	19 020	31 830	32 140	7 000	21 000	7 150	120	385
		CFH20-1VMAB	CFH20-1VMUUAB	CFH20-1VMRAB	CFH20-1VMUURAB													30 470	59 320	32 140	3 500				

CFH..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)

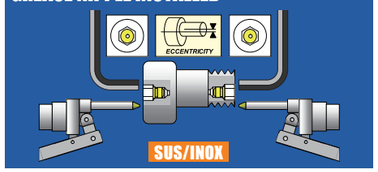
TYPE	Cylindrical outer ring	Crowned outer ring
CF12	0/-9	0/-50
CF12-1,CF16,CF18,CF20-1	0/-11	0/-50
CF20,CF24,CF24-1,CF30	0/-13	0/-50
CF30-1,CF30-2	0/-15	0/-50

ACCESSORIES

TYPE	 Grease Nipple	 NUT
All types	Installed	Attached

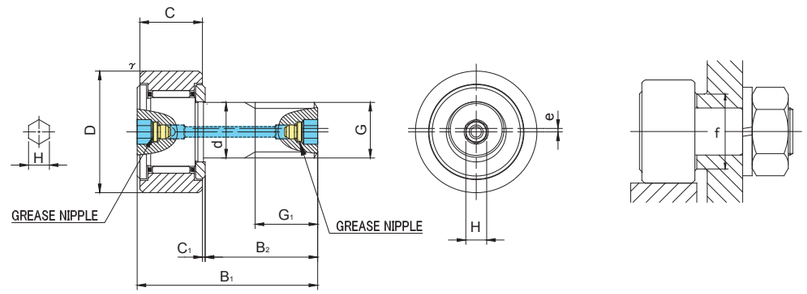
CAM FOLLOWERS STAINLESS STEEL

SOLID ECCENTRIC TYPE
HEXAGON SOCKET ON BOTH SIDES
GREASE NIPPLE INSTALLED



CFH..MAB

CFH..VMAB



CFH..MAB 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 R1000(CF24 ≦)																				
	h7 tolerance	Without seals	With seals	Without seals	With seals	D	C	d	G	G1	B1	B2	C1	H	*r*s min	e	f min	Cr N	Cor N	N	rpm	Cylindrical outer ring N	Crowned outer ring N	N·m	g (approx)
24	0 -0.021	**CFH24MAB**	**CFH24MUUAB**	**CFH24MRAB**	**CFH24MUURAB**	**62**	29	24	M24×1.5	25	80	49.5	0.8	8	1	0.8	40	28 040	48 410	49 500	6 500	34 200	10 500	220	815
		CFH24VMAB	**CFH24VMUUAB**	**CFH24VMRAB**	**CFH24VMUURAB**													42 820	84 650	49 500	3 000				
24	0 -0.021	**CFH24-1MAB**	**CFH24-1MUUAB**	**CFH24-1MRAB**	**CFH24-1MUURAB**	**72**	29	24	M24×1.5	25	80	49.5	0.8	8	1	0.8	40	28 040	48 410	49 500	6 500	39 800	12 900	220	1 140
		CFH24-1VMAB	**CFH24-1VMUUAB**	**CFH24-1VMRAB**	**CFH24-1VMUURAB**													42 820	84 650	49 500	3 000				
30	0 -0.021	**CFH30MAB**	**CFH30MUUAB**	**CFH30MRAB**	**CFH30MUURAB**	**80**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	52 600	14 900	450	1 870
		CFH30VMAB	**CFH30VMUUAB**	**CFH30VMRAB**	**CFH30VMUURAB**													62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-1MAB**	**CFH30-1MUUAB**	**CFH30-1MRAB**	**CFH30-1MUURAB**	**85**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	56 000	16 100	450	2 030
		CFH30-1VMAB	**CFH30-1VMUUAB**	**CFH30-1VMRAB**	**CFH30-1VMUURAB**													62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-2MAB**	**CFH30-2MUUAB**	**CFH30-2MRAB**	**CFH30-2MUURAB**	**90**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	59 300	17 300	450	2 220
		CFH30-2VMAB	**CFH30-2VMUUAB**	**CFH30-2VMRAB**	**CFH30-2VMUURAB**													62 210	132 530	73 700	2 200				

CFH..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)

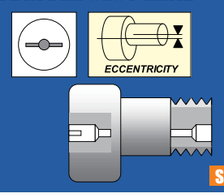
TYPE	Cylindrical outer ring	Crowned outer ring
CF12	0/-9	0/-50
CF12-1,CF16,CF18,CF20-1	0/-11	0/-50
CF20,CF24,CF24-1,CF30	0/-13	0/-50
CF30-1,CF30-2	0/-15	0/-50

ACCESSORIES

TYPE	 Grease Nipple	 NUT
All types	Installed	Attached

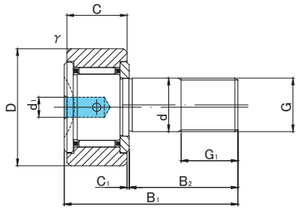
CAM FOLLOWERS STAINLESS STEEL

SOLID ECCENTRIC TYPE
SCREWDRIVER SLOT HEAD

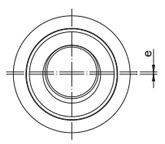


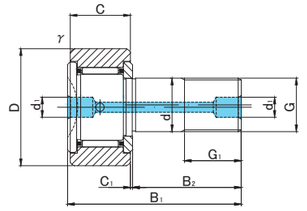
CFH..M

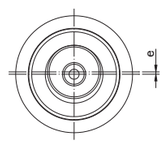
CFH..VM

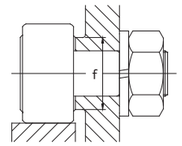


CFH5(V)M～CFH10-1(V)M









CFH12(V)M～CFH18(V)M

CFH..M TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R250(CF5) R500(CF6 ～ CF18), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	C1	d1	rs min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
5	0 -0.012	CFH 5M	CFH 5MUU	CFH 5MR	CFH 5MUUR	13	9	5	M5×0.8	7.5	23	13	0.5	3.1	0.3	0.2	9.7	2 880	2 540	1 420	29 000	2 250	530	2	10.5
		CFH 5VM	CFH 5VMUU	CFH 5VMR	CFH 5VMUUR													4 690	5 060	1 420	11 600				
6	0 -0.012	CFH 6M	CFH 6MUU	CFH 6MR	CFH 6MUUR	16	11	6	M6×1	8	28	16	0.6	4	0.3	0.25	11	3 330	3 330	2 110	25 000	3 430	1 080	3	18.5
		CFH 6VM	CFH 6VMUU	CFH 6VMR	CFH 6VMUUR													6 400	7 840	2 110	12 000				
8	0 -0.015	CFH 8M	CFH 8MUU	CFH 8MR	CFH 8MUUR	19	11	8	M8×1.25	10	32	20	0.6	4	0.3	0.25	13	3 960	4 330	4 710	20 000	4 020	1 370	8	28.5
		CFH 8VM	CFH 8VMUU	CFH 8VMR	CFH 8VMUUR													7 470	10 270	4 710	9 000				
10	0 -0.015	CFH10M	CFH10MUU	CFH10MR	CFH10MUUR	22	12	10	M10×1.25	12	36	23	0.6	4	0.3	0.3	15	4 950	6 310	6 860	17 000	4 700	1 670	15	45
		CFH10VM	CFH10VMUU	CFH10VMR	CFH10VMUUR													8 740	13 340	7 450	7 500				
10	0 -0.015	CFH10-1M	CFH10-1MUU	CFH10-1MR	CFH10-1MUUR	26	12	10	M10×1.25	12	36	23	0.6	4	0.3	0.3	15	4 950	6 310	6 860	17 000	5 490	2 060	15	60
		CFH10-1VM	CFH10-1VMUU	CFH10-1VMR	CFH10-1VMUUR													8 740	13 340	7 450	7 500				
12	0 -0.018	CFH12M	CFH12MUU	CFH12MR	CFH12MUUR	30	14	12	M12×1.5	13	40	25	0.6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 060	2 450	22	95
		CFH12VM	CFH12VMUU	CFH12VMR	CFH12VMUUR													12 350	18 120	11 270	6 000				
12	0 -0.018	CFH12-1M	CFH12-1MUU	CFH12-1MR	CFH12-1MUUR	32	14	12	M12×1.5	13	40	25	0.6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 450	2 740	22	105
		CFH12-1VM	CFH12-1VMUU	CFH12-1VMR	CFH12-1VMUUR													12 350	18 120	11 270	6 000				
16	0 -0.018	CFH16M	CFH16MUU	CFH16MR	CFH16MUUR	35	18	16	M16×1.5	17	52	32.5	0.8	6	0.6	0.5	24	11 080	16 860	18 330	10 000	11 200	3 140	58	170
		CFH16VM	CFH16VMUU	CFH16VMR	CFH16VMUUR													19 020	34 610	19 800	4 500				
18	0 -0.018	CFH18M	CFH18MUU	CFH18MR	CFH18MUUR	40	20	18	M18×1.5	19	58	36.5	0.8	6	1	0.6	26	13 520	23 180	25 200	8 500	14 400	3 720	87	250
		CFH18VM	CFH18VMUU	CFH18VMR	CFH18VMUUR													23 250	47 240	26 560	3 500				

* 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)

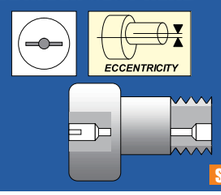
TYPE	Cylindrical outer ring	Crowned outer ring
CF5M,CF6M	0/-8	0/-50
CF8M,CF10M,CF10-1M,CF12M	0/-9	0/-50
CF12-1M,CF16M,CF18M,CF20-1M	0/-11	0/-50
CF20M,CF24M,CF24-1M,CF30M	0/-13	0/-50
CF30-1M,CF30-2M	0/-15	0/-50

ACCESSORIES

TYPE	 STOP PLUG	 RESIN PLUG	 NUT
CF5M	—	—	Attached
CF6M/CF8M/CF10M/CF10-1M	—	ϕ 4 Attached	Attached
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

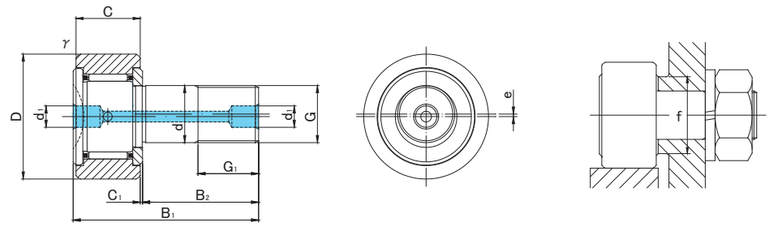
CAM FOLLOWERS STAINLESS STEEL

SOLID ECCENTRIC TYPE
SCREWDRIVER SLOT HEAD



CFH..M

CFH..VM



CFH..M TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R1000(CF20 ≦), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	C1	d1	rs min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
20	0 -0.021	**CFH20M**	**CFH20MUU**	**CFH20MR**	**CFH20MUUR**	**52**	24	20	M20×1.5	21	66	40.5	0.8	8	1	0.7	36	19 020	31 830	32 140	7 000	23 200	8 230	120	460
		CFH20VM	**CFH20VMUU**	**CFH20VMR**	**CFH20VMUUR**													30 470	59 320	32 140	3 500				
20	0 -0.021	**CFH20-1M**	**CFH20-1MUU**	**CFH20-1MR**	**CFH20-1MUUR**	**47**	24	20	M20×1.5	21	66	40.5	0.8	8	1	0.7	36	19 020	31 830	32 140	7 000	21 000	7 150	120	385
		CFH20-1VM	**CFH20-1VMUU**	**CFH20-1VMR**	**CFH20-1VMUUR**													30 470	59 320	32 140	3 500				
24	0 -0.021	**CFH24M**	**CFH24MUU**	**CFH24MR**	**CFH24MUUR**	**62**	29	24	M24×1.5	25	80	49.5	0.8	8	1	0.8	40	28 040	48 410	49 500	6 500	34 200	10 500	220	815
		CFH24VM	**CFH24VMUU**	**CFH24VMR**	**CFH24VMUUR**													42 820	84 650	49 500	3 000				
24	0 -0.021	**CFH24-1M**	**CFH24-1MUU**	**CFH24-1MR**	**CFH24-1MUUR**	**72**	29	24	M24×1.5	25	80	49.5	0.8	8	1	0.8	40	28 040	48 410	49 500	6 500	39 800	12 900	220	1 140
		CFH24-1VM	**CFH24-1VMUU**	**CFH24-1VMR**	**CFH24-1VMUUR**													42 820	84 650	49 500	3 000				
30	0 -0.021	**CFH30M**	**CFH30MUU**	**CFH30MR**	**CFH30MUUR**	**80**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	52 600	14 900	450	1 870
		CFH30VM	**CFH30VMUU**	**CFH30VMR**	**CFH30VMUUR**													62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-1M**	**CFH30-1MUU**	**CFH30-1MR**	**CFH30-1MUUR**	**85**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	56 000	16 100	450	2 030
		CFH30-1VM	**CFH30-1VMUU**	**CFH30-1VMR**	**CFH30-1VMUUR**													62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-2M**	**CFH30-2MUU**	**CFH30-2MR**	**CFH30-2MUUR**	**90**	35	30	M30×1.5	32	100	63	1	8	1	1	46	41 740	78 250	73 700	5 000	59 300	17 300	450	2 220
		CFH30-2VM	**CFH30-2VMUU**	**CFH30-2VMR**	**CFH30-2VMUUR**													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)

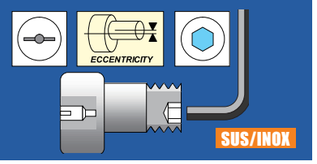
TYPE	Cylindrical outer ring	Crowned outer ring
CF5M,CF6M	0/-8	0/-50
CF8M,CF10M,CF10-1M,CF12M	0/-9	0/-50
CF12-1M,CF16M,CF18M,CF20-1M	0/-11	0/-50
CF20M,CF24M,CF24-1M,CF30M	0/-13	0/-50
CF30-1M,CF30-2M	0/-15	0/-50

ACCESSORIES

TYPE	 STOP PLUG	 RESIN PLUG	 NUT
CF5M	—	—	Attached
CF6M/CF8M/CF10M/CF10-1M	—	ϕ 4 Attached	Attached
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

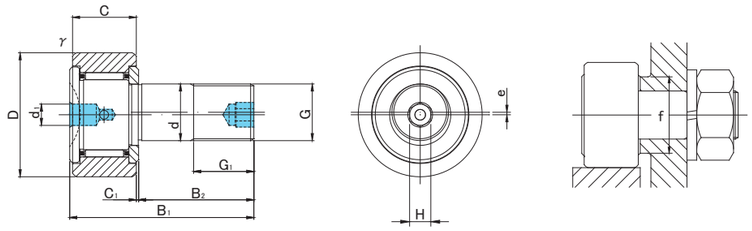
CAM FOLLOWERS STAINLESS STEEL

SOLID ECCENTRIC TYPE
HEXAGON SOCKET ON THREAD SIDE
SCREWDRIVER SLOT HEAD



CFH..MB

CFH..VMB



CFH..MB TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R500(CF12 ～ CF18) R1000(CF20 ≦), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	C1	d1	H	*r*s min	e	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
12	0 -0.018	**CFH12MB**	**CFH12MUUB**	**CFH12MRB**	**CFH12MUURB**	**30**	14	12	M12×1.5	13	40	25	0.6	6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 060	2 450	22	95
		CFH12VMB	**CFH12VMUUB**	**CFH12VMRB**	**CFH12VMUURB**														12 350	18 120	11 270	6 000				
12	0 -0.018	**CFH12-1MB**	**CFH12-1MUUB**	**CFH12-1MRB**	**CFH12-1MUURB**	**32**	14	12	M12×1.5	13	40	25	0.6	6	6	0.6	0.4	20	7 300	9 010	9 800	14 000	7 450	2 740	22	105
		CFH12-1VMB	**CFH12-1VMUUB**	**CFH12-1VMRB**	**CFH12-1VMUURB**														12 350	18 120	11 270	6 000				
16	0 -0.018	**CFH16MB**	**CFH16MUUB**	**CFH16MRB**	**CFH16MUURB**	**35**	18	16	M16×1.5	17	52	32.5	0.8	6	6	0.6	0.5	24	11 080	16 860	18 330	10 000	11 200	3 140	58	170
		CFH16VMB	**CFH16VMUUB**	**CFH16VMRB**	**CFH16VMUURB**														19 020	34 610	19 800	4 500				
18	0 -0.018	**CFH18MB**	**CFH18MUUB**	**CFH18MRB**	**CFH18MUURB**	**40**	20	18	M18×1.5	19	58	36.5	0.8	6	6	1	0.6	26	13 520	23 180	25 200	8 500	14 400	3 720	87	250
		CFH18VMB	**CFH18VMUUB**	**CFH18VMRB**	**CFH18VMUURB**														23 250	47 240	26 560	3 500				
20	0 -0.021	**CFH20MB**	**CFH20MUUB**	**CFH20MRB**	**CFH20MUURB**	**52**	24	20	M20×1.5	21	66	40.5	0.8	8	8	1	0.7	36	19 020	31 830	32 140	7 000	23 200	8 230	120	460
		CFH20VMB	**CFH20VMUUB**	**CFH20VMRB**	**CFH20VMUURB**														30 470	59 320	32 140	3 500				
20	0 -0.021	**CFH20-1MB**	**CFH20-1MUUB**	**CFH20-1MRB**	**CFH20-1MUURB**	**47**	24	20	M20×1.5	21	66	40.5	0.8	8	8	1	0.7	36	19 020	31 830	32 140	7 000	21 000	7 150	120	385
		CFH20-1VMB	**CFH20-1VMUUB**	**CFH20-1VMRB**	**CFH20-1VMUURB**														30 470	59 320	32 140	3 500				
24	0 -0.021	**CFH24MB**	**CFH24MUUB**	**CFH24MRB**	**CFH24MUURB**	**62**	29	24	M24×1.5	25	80	49.5	0.8	8	8	1	0.8	40	28 040	48 410	49 500	6 500	34 200	10 500	220	815
		CFH24VMB	**CFH24VMUUB**	**CFH24VMRB**	**CFH24VMUURB**														42 820	84 650	49 500	3 000				
24	0 -0.021	**CFH24-1MB**	**CFH24-1MUUB**	**CFH24-1MRB**	**CFH24-1MUURB**	**72**	29	24	M24×1.5	25	80	49.5	0.8	8	8	1	0.8	40	28 040	48 410	49 500	6 500	39 800	12 900	220	1 140
		CFH24-1VMB	**CFH24-1VMUUB**	**CFH24-1VMRB**	**CFH24-1VMUURB**														42 820	84 650	49 500	3 000				
30	0 -0.021	**CFH30MB**	**CFH30MUUB**	**CFH30MRB**	**CFH30MUURB**	**80**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	52 600	14 900	450	1 870
		CFH30VMB	**CFH30VMUUB**	**CFH30VMRB**	**CFH30VMUURB**														62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-1MB**	**CFH30-1MUUB**	**CFH30-1MRB**	**CFH30-1MUURB**	**85**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	56 000	16 100	450	2 030
		CFH30-1VMB	**CFH30-1VMUUB**	**CFH30-1VMRB**	**CFH30-1VMUURB**														62 210	132 530	73 700	2 200				
30	0 -0.021	**CFH30-2MB**	**CFH30-2MUUB**	**CFH30-2MRB**	**CFH30-2MUURB**	**90**	35	30	M30×1.5	32	100	63	1	8	8	1	1	46	41 740	78 250	73 700	5 000	59 300	17 300	450	2 220
		CFH30-2VMB	**CFH30-2VMUUB**	**CFH30-2VMRB**	**CFH30-2VMUURB**														62 210	132 530	73 700	2 200				

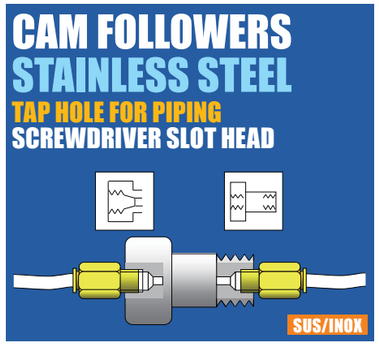
* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

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

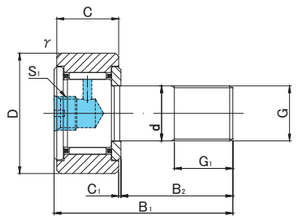
ACCESSORIES

TYPE	STOP PLUG	RESIN PLUG	NUT
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

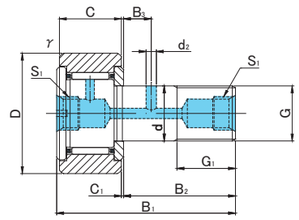



CFT..M

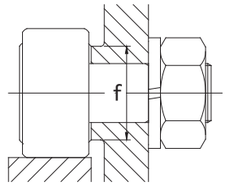

CFT..VM



CFT6(V)M～CFT10-1(V)M



CFT12(V)M～CFT18(V)M



CFT..M TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R500(CF6 ～ CF18), Without seals	Crowned outer ring R500(CF6 ～ CF18), With seals	D	C	d	G	G1	B1	B2	B3	C1	S1	d2	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
6	0 -0.012	CFT 6M	CFT 6MUU	CFT 6MR	CFT 6MUUR	16	11	6	M6×1	8	28	16	—	0.6	M6×0.75	—	0.3	11	3 330	3 330	2 110	25 000	3 430	1 080	3	18.5
		CFT 6VM	CFT 6VMUU	CFT 6VMR	CFT 6VMUUR														6 400	7 840	2 110	12 000				
8	0 -0.015	CFT 8M	CFT 8MUU	CFT 8MR	CFT 8MUUR	19	11	8	M8×1.25	10	32	20	—	0.6	M6×0.75	—	0.3	13	3 960	4 330	4 710	20 000	4 020	1 370	8	28.5
		CFT 8VM	CFT 8VMUU	CFT 8VMR	CFT 8VMUUR														7 470	10 270	4 710	9 000				
10	0 -0.015	CFT10M	CFT10MUU	CFT10MR	CFT10MUUR	22	12	10	M10×1.25	12	36	23	—	0.6	M6×0.75	—	0.3	15	4 950	6 310	6 860	17 000	4 700	1 670	15	45
		CFT10VM	CFT10VMUU	CFT10VMR	CFT10VMUUR														8 740	13 340	7 450	7 500				
10	0 -0.015	CFT10-1M	CFT10-1MUU	CFT10-1MR	CFT10-1MUUR	26	12	10	M10×1.25	12	36	23	—	0.6	M6×0.75	—	0.3	15	4 950	6 310	6 860	17 000	5 490	2 060	15	60
		CFT10-1VM	CFT10-1VMUU	CFT10-1VMR	CFT10-1VMUUR														8 740	13 340	7 450	7 500				
12	0 -0.018	CFT12M	CFT12MUU	CFT12MR	CFT12MUUR	30	14	12	M12×1.5	13	40	25	6	0.6	M6×0.75	3	0.6	20	7 300	9 010	7 840	14 000	7 060	2 450	22	95
		CFT12VM	CFT12VMUU	CFT12VMR	CFT12VMUUR														12 350	18 120	9 010	6 000				
12	0 -0.018	CFT12-1M	CFT12-1MUU	CFT12-1MR	CFT12-1MUUR	32	14	12	M12×1.5	13	40	25	6	0.6	M6×0.75	3	0.6	20	7 300	9 010	7 840	14 000	7 450	2 740	22	105
		CFT12-1VM	CFT12-1VMUU	CFT12-1VMR	CFT12-1VMUUR														12 350	18 120	9 010	6 000				
16	0 -0.018	CFT16M	CFT16MUU	CFT16MR	CFT16MUUR	35	18	16	M16×1.5	17	52	32.5	8	0.8	Rc1/8	3	0.6	24	11 080	16 860	14 660	10 000	11 200	3 140	58	170
		CFT16VM	CFT16VMUU	CFT16VMR	CFT16VMUUR														19 020	34 610	15 840	4 500				
18	0 -0.018	CFT18M	CFT18MUU	CFT18MR	CFT18MUUR	40	20	18	M18×1.5	19	58	36.5	8	0.8	Rc1/8	3	1	26	13 520	23 180	20 160	8 500	14 400	3 720	87	250
		CFT18VM	CFT18VMUU	CFT18VMR	CFT18VMUUR														23 250	47 240	21 240	3 500				

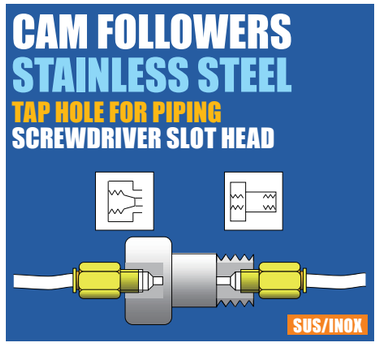
* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (μm)

TYPE	Cylindrical outer ring	Crowned outer ring
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

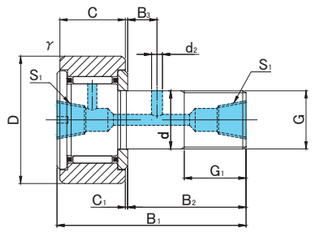
ACCESSORIES

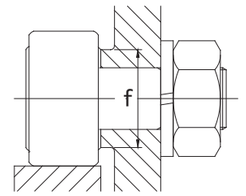
TYPE	 NUT
All types	Attached



CFT..M

CFT..VM





CFT..M TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Cylindrical outer ring, With seals	Crowned outer ring R1000(CF20 ≦), Without seals	Crowned outer ring, With seals	D	C	d	G	G1	B1	B2	B3	C1	S1	d2	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
20	0 -0.021	CFT20M	CFT20MUU	CFT20MR	CFT20MUUR	52	24	20	M20×1.5	21	66	40.5	9	0.8	Rc1/8	4	1	36	19 020	31 830	25 710	7 000	23 200	8 230	120	460
		CFT20VM	CFT20VMUU	CFT20VMR	CFT20VMUUR														30 470	59 320	25 710	3 500				
20	0 -0.021	CFT20-1M	CFT20-1MUU	CFT20-1MR	CFT20-1MUUR	47	24	20	M20×1.5	21	66	40.5	9	0.8	Rc1/8	4	1	36	19 020	31 830	25 710	7 000	21 000	7 150	120	385
		CFT20-1VM	CFT20-1VMUU	CFT20-1VMR	CFT20-1VMUUR														30 470	59 320	25 710	3 500				
24	0 -0.021	CFT24M	CFT24MUU	CFT24MR	CFT24MUUR	62	29	24	M24×1.5	25	80	49.5	11	0.8	Rc1/8	4	1	40	28 040	48 410	39 600	6 500	34 200	10 500	220	815
		CFT24VM	CFT24VMUU	CFT24VMR	CFT24VMUUR														42 820	84 650	39 600	3 000				
24	0 -0.021	CFT24-1M	CFT24-1MUU	CFT24-1MR	CFT24-1MUUR	72	29	24	M24×1.5	25	80	49.5	11	0.8	Rc1/8	4	1	40	28 040	48 410	39 600	6 500	39 800	12 900	220	1 140
		CFT24-1VM	CFT24-1VMUU	CFT24-1VMR	CFT24-1VMUUR														42 820	84 650	39 600	3 000				
30	0 -0.021	CFT30M	CFT30MUU	CFT30MR	CFT30MUUR	80	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	1	46	41 740	78 250	58 960	5 000	52 600	14 900	450	1 870
		CFT30VM	CFT30VMUU	CFT30VMR	CFT30VMUUR														62 210	132 530	58 960	2 200				
30	0 -0.021	CFT30-1M	CFT30-1MUU	CFT30-1MR	CFT30-1MUUR	85	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	1	46	41 740	78 250	58 960	5 000	56 000	16 100	450	2 030
		CFT30-1VM	CFT30-1VMUU	CFT30-1VMR	CFT30-1VMUUR														62 210	132 530	58 960	2 200				
30	0 -0.021	CFT30-2M	CFT30-2MUU	CFT30-2MR	CFT30-2MUUR	90	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	1	46	41 740	78 250	58 960	5 000	59 300	17 300	450	2 220
		CFT30-2VM	CFT30-2VMUU	CFT30-2VMR	CFT30-2VMUUR														62 210	132 530	58 960	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
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

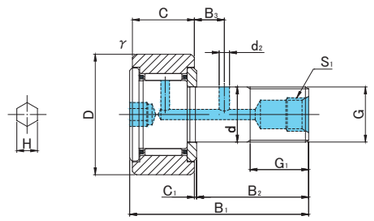
TYPE	 NUT
All types	Attached

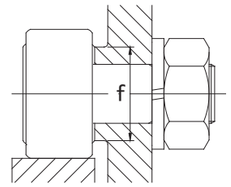
CAM FOLLOWERS STAINLESS STEEL

TAP HOLE FOR PIPING
HEXAGON SOCKET ON STUD HEAD

CFT..MA

CFT..VMA





CFT..MA TYPE

Prepacked Grease

Stud diameter (mm)	h7 tolerance	Designation: Cylindrical outer ring, Without seals	Designation: Cylindrical outer ring, With seals	Designation: Crowned outer ring R500(CF12 ～ CF18) R1000(CF20 ≦), Without seals	Designation: Crowned outer ring R500(CF12 ～ CF18) R1000(CF20 ≦), With seals	D	C	d	G	G1	B1	B2	B3	C1	S1	d2	H	rs min	f min	Basic dynamic load rating Cr N	Basic static load rating Cor N	Largest permissible load N	Limiting speed * rpm	Track load capacity: Cylindrical outer ring N	Track load capacity: Crowned outer ring N	Max tightening torque N·m	Mass g (approx)
12	0 -0.018	CFT12MA	CFT12MUUA	CFT12MRA	CFT12MUURA	**30**	14	12	M12×1.5	13	40	25	6	0.6	M6×0.75	3	6	0.6	20	7 300	9 010	7 840	14 000	7 060	2 450	22	95
		CFT12VMA	CFT12VMUUA	CFT12VMRA	CFT12VMUURA															12 350	18 120	9 010	6 000				
12	0 -0.018	CFT12-1MA	CFT12-1MUUA	CFT12-1MRA	CFT12-1MUURA	**32**	14	12	M12×1.5	13	40	25	6	0.6	M6×0.75	3	6	0.6	20	7 300	9 010	7 840	14 000	7 450	2 740	22	105
		CFT12-1VMA	CFT12-1VMUUA	CFT12-1VMRA	CFT12-1VMUURA															12 350	18 120	9 010	6 000				
16	0 -0.018	CFT16MA	CFT16MUUA	CFT16MRA	CFT16MUURA	**35**	18	16	M16×1.5	17	52	32.5	8	0.8	Rc1/8	3	6	0.6	24	11 080	16 860	14 660	10 000	11 200	3 140	58	170
		CFT16VMA	CFT16VMUUA	CFT16VMRA	CFT16VMUURA															19 020	34 610	15 840	4 500				
18	0 -0.018	CFT18MA	CFT18MUUA	CFT18MRA	CFT18MUURA	**40**	20	18	M18×1.5	19	58	36.5	8	0.8	Rc1/8	3	6	1	26	13 520	23 180	20 160	8 500	14 400	3 720	87	250
		CFT18VMA	CFT18VMUUA	CFT18VMRA	CFT18VMUURA															23 250	47 240	21 240	3 500				
20	0 -0.021	CFT20MA	CFT20MUUA	CFT20MRA	CFT20MUURA	**52**	24	20	M20×1.5	21	66	40.5	9	0.8	Rc1/8	4	8	1	36	19 020	31 830	25 710	7 000	23 200	8 230	120	460
		CFT20VMA	CFT20VMUUA	CFT20VMRA	CFT20VMUURA															30 470	59 320	25 710	3 500				
20	0 -0.021	CFT20-1MA	CFT20-1MUUA	CFT20-1MRA	CFT20-1MUURA	**47**	24	20	M20×1.5	21	66	40.5	9	0.8	Rc1/8	4	8	1	36	19 020	31 830	25 710	7 000	21 000	7 150	120	385
		CFT20-1VMA	CFT20-1VMUUA	CFT20-1VMRA	CFT20-1VMUURA															30 470	59 320	25 710	3 500				
24	0 -0.021	CFT24MA	CFT24MUUA	CFT24MRA	CFT24MUURA	**62**	29	24	M24×1.5	25	80	49.5	11	0.8	Rc1/8	4	8	1	40	28 040	48 410	39 600	6 500	34 200	10 500	220	815
		CFT24VMA	CFT24VMUUA	CFT24VMRA	CFT24VMUURA															42 820	84 650	39 600	3 000				
24	0 -0.021	CFT24-1MA	CFT24-1MUUA	CFT24-1MRA	CFT24-1MUURA	**72**	29	24	M24×1.5	25	80	49.5	11	0.8	Rc1/8	4	8	1	40	28 040	48 410	39 600	6 500	39 800	12 900	220	1 140
		CFT24-1VMA	CFT24-1VMUUA	CFT24-1VMRA	CFT24-1VMUURA															42 820	84 650	39 600	3 000				
30	0 -0.021	CFT30MA	CFT30MUUA	CFT30MRA	CFT30MUURA	**80**	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	8	1	46	41 740	78 250	58 960	5 000	52 600	14 900	450	1 870
		CFT30VMA	CFT30VMUUA	CFT30VMRA	CFT30VMUURA															62 210	132 530	58 960	2 200				
30	0 -0.021	CFT30-1MA	CFT30-1MUUA	CFT30-1MRA	CFT30-1MUURA	**85**	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	8	1	46	41 740	78 250	58 960	5 000	56 000	16 100	450	2 030
		CFT30-1VMA	CFT30-1VMUUA	CFT30-1VMRA	CFT30-1VMUURA															62 210	132 530	58 960	2 200				
30	0 -0.021	CFT30-2MA	CFT30-2MUUA	CFT30-2MRA	CFT30-2MUURA	**90**	35	30	M30×1.5	32	100	63	15	1	Rc1/8	4	8	1	46	41 740	78 250	58 960	5 000	59 300	17 300	450	2 220
		CFT30-2VMA	CFT30-2VMUUA	CFT30-2VMRA	CFT30-2VMUURA															62 210	132 530	58 960	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	 NUT
All types	Attached

ROLLER FOLLOWERS

STAINLESS STEEL

Type and Part Code

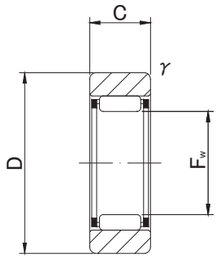
Type	Applicable axis diameter	Feature	Part Code
 RNAST..M (Separable type)	ϕ 7 ~ ϕ 60	NAST type without inner ring.	**RNAST** **15** **M** **R** Type: RNAST Bore diameter code: 15 **M**: Stainless steel **R**: Crowned outer ring **None**: Cylindrical outer rings
 NAST..M (Separable type)	ϕ 6 ~ ϕ 50	Thick wall outer ring, inner ring. Separable bearing with combined needle roller with precision cage.	**NAST** **15** **M** **R** Type: NAST Bore diameter code: 15 **M**: Stainless steel **R**: Crowned outer ring **None**: Cylindrical outer rings
 NAST..MZZ (Separable type)	ϕ 6 ~ ϕ 50	Separable bearing in which labyrinth seal is formed with combined side plate at both sides of inner ring of NAST type. (NAST-ZZUU type comes with seal)	**NAST** **15** **M** **ZZ** **UU** **R** Type: NAST Bore diameter code: 15 **M**: Stainless steel **ZZ**: With shield **UU**: With seal **None** : With shield **R**: Crowned outer ring **X**: Cylindrical outer ring
 NART..MR (Non-separable type)	ϕ 5 ~ ϕ 50	Non-separable bearing with fixed side plate at inner ring. Mitigate eccentric load with spherical shape at outer diameter of outer ring (code R). (NART-UUR type comes with seal)	**NART** **15** **M** **UU** **V** **R** Type: NART Bore diameter code: 15 **M**: Stainless steel **UU**: With seal **None** : With shield **V**: Full complement **None** : With cage **R**: Crowned outer ring **X**: Cylindrical outer ring

ROLLER FOLLOWERS STAINLESS STEEL

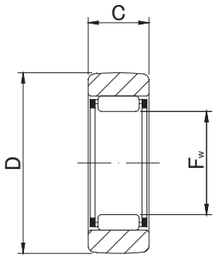
SEPARABLE WITHOUT INNER RING

SUS/INOX

RNAST..M



RNAST..M



RNAST..MR

RNAST..M TYPE

Prepacked Grease

Shaft Diameter (mm)	Designation		Dimensions (mm)				Basic dynamic load rating	Basic static load rating	Track load capacity		Limiting speed *	Mass
	Cylindrical outer ring	Crowned outer ring (R500)	Fw	D	C	r s min	Cr N	Cor N	Cylindrical outer ring N	Crowned outer ring N	rpm	g (approx)
7	**RNAST 5M**	**RNAST 5MR**	7 +0.022 +0.013	**16**	7.8	0.3	2 520	2 190	2 350	1 080	30 000	8.9
10	**RNAST 6M**	**RNAST 6MR**	10 +0.027 +0.016	**19**	9.8	0.3	3 790	4 180	3 530	1 370	20 000	13.9
12	**RNAST 8M**	**RNAST 8MR**	12 +0.027 +0.016	**24**	9.8	0.6	5 220	5 410	4 020	1 860	17 000	23.5
14	**RNAST10M**	**RNAST10MR**	14 +0.027 +0.016	**30**	11.8	1	8 920	8 890	5 590	2 450	15 000	42.5
16	**RNAST12M**	**RNAST12MR**	16 +0.027 +0.016	**32**	11.8	1	9 560	10 020	5 980	2 740	13 000	49.5
20	**RNAST15M**	**RNAST15MR**	20 +0.033 +0.020	**35**	11.8	1	11 310	13 150	6 570	3 140	10 000	50
22	**RNAST17M**	**RNAST17MR**	22 +0.033 +0.020	**40**	15.8	1	16 000	19 220	10 900	3 720	9 500	90
25	**RNAST20M**	**RNAST20MR**	25 +0.033 +0.020	**47**	15.8	1	17 660	22 540	12 700	4 610	8 500	135
30	**RNAST25M**	**RNAST25MR**	30 +0.033 +0.020	**52**	15.8	1	19 040	26 120	14 100	5 290	7 000	152
38	**RNAST30M**	**RNAST30MR**	38 +0.041 +0.025	**62**	19.8	1	27 870	41 760	22 100	6 660	5 500	255
42	**RNAST35M**	**RNAST35MR**	42 +0.041 +0.025	**72**	19.8	1	29 620	46 550	25 700	8 130	5 000	375
50	**RNAST40M**	**RNAST40MR**	50 +0.041 +0.025	**80**	19.8	1.5	32 840	56 210	26 900	9 310	4 000	420
55	**RNAST45M**	**RNAST45MR**	55 +0.049 +0.030	**85**	19.8	1.5	34 130	61 080	28 500	10 100	4 000	460
60	**RNAST50M**	**RNAST50MR**	60 +0.049 +0.030	**90**	19.8	1.5	35 600	66 050	30 200	11 000	3 500	500

* Suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible.

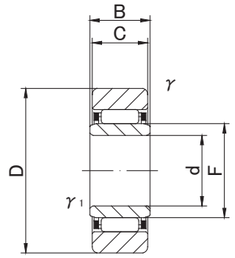
OUTER RINGS TOLERANCE

TYPE	Cylindrical outer ring	Crowned outer ring
RNAST5M	0/-8	0/-50
RNAST6M,RNAST8M,RNAST10M	0/-9	0/-50
RNAST12M,RNAST15M,RNAST17M,RNAST20M	0/-11	0/-50
RNAST25M,RNAST30M,RNAST35M,RNAST40M	0/-13	0/-50
RNAST45M,RNAST50M	0/-15	0/-50

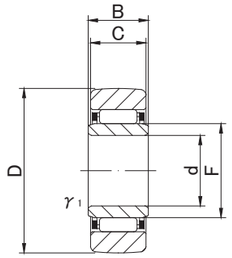
ROLLER FOLLOWERS STAINLESS STEEL

SEPARABLE WITH INNER RING

NAST..M



NAST..M



NAST..MR

NAST..M TYPE

Prepacked Grease

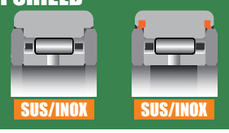
Shaft Diameter (mm)	Designation		Dimensions (mm)						Basic dynamic load rating	Basic static load rating	Track load capacity		Limiting speed *	Mass
	Cylindrical outer ring	Crowned outer ring (R500)	d	D	B	C	r_s min	r_{1s} min	F	Cr N	Cor N	Cylindrical outer ring N	Crowned outer ring N	rpm	g (approx)
6	NAST 6M	NAST 6MR	6 0 -0.008	19	10	9.8	0.3	0.3	10	3 790	4 180	3 530	1 370	20 000	17.8
8	NAST 8M	NAST 8MR	8 0 -0.008	24	10	9.8	0.6	0.3	12	5 220	5 410	4 020	1 860	17 000	28
10	NAST10M	NAST10MR	10 0 -0.008	30	12	11.8	1	0.3	14	8 920	8 890	5 590	2 450	15 000	50
12	NAST12M	NAST12MR	12 0 -0.008	32	12	11.8	1	0.3	16	9 560	10 020	5 980	2 740	13 000	58
15	NAST15M	NAST15MR	15 0 -0.008	35	12	11.8	1	0.3	20	11 310	13 150	6 570	3 140	10 000	62
17	NAST17M	NAST17MR	17 0 -0.010	40	16	15.8	1	0.3	22	16 000	19 220	10 900	3 720	9 500	110
20	NAST20M	NAST20MR	20 0 -0.010	47	16	15.8	1	0.3	25	17 660	22 540	12 700	4 610	8 500	155
25	NAST25M	NAST25MR	25 0 -0.010	52	16	15.8	1	0.3	30	19 040	26 120	14 100	5 290	7 000	180
30	NAST30M	NAST30MR	30 0 -0.010	62	20	19.8	1	0.6	38	27 870	41 760	22 100	6 660	5 500	320
35	NAST35M	NAST35MR	35 0 -0.012	72	20	19.8	1	0.6	42	29 620	46 550	25 700	8 130	5 000	440
40	NAST40M	NAST40MR	40 0 -0.012	80	20	19.8	1.5	1	50	32 840	56 210	26 900	9 310	4 000	530
45	NAST45M	NAST45MR	45 0 -0.012	85	20	19.8	1.5	1	55	34 130	61 080	28 500	10 100	4 000	580
50	NAST50M	NAST50MR	50 0 -0.012	90	20	19.8	1.5	1	60	35 600	66 050	30 200	11 000	3 500	635

* Suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible.

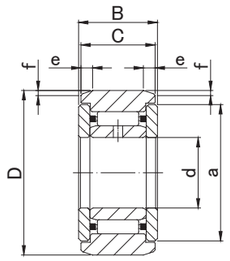
OUTER RINGS TOLERANCE (Outside diameter) (μm)

TYPE	Cylindrical outer ring	Crowned outer ring
NAST6M,NAST8M,NAST10M	0/-9	0/-50
NAST12M,NAST15M,NAST17M,NAST20M	0/-11	0/-50
NAST25M,NAST30M,NAST35M,NAST40M	0/-13	0/-50
NAST45M,NAST50M	0/-15	0/-50

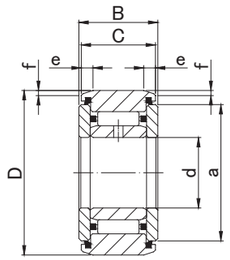
ROLLER FOLLOWERS
STAINLESS STEEL
SEPARABLE
WITH INNER RING
WITH SHIELD



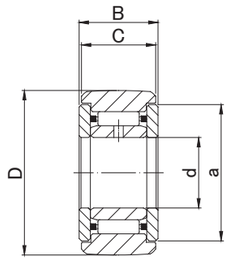
NAST..MZZ



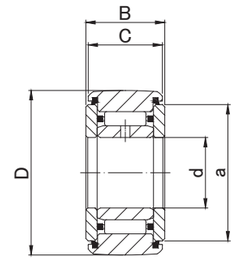
NAST..MZZ



NAST..MZZUU



NAST..MZZR



NAST..MZZUUR

NAST..MZZ TYPE

Prepacked Grease

Shaft Diameter (mm)	Designation				Dimensions (mm)							Basic dynamic load rating	Basic static load rating	Track load capacity		Limiting speed *	Mass
	Cylindrical outer ring		Crowned outer ring (R500)														
	Without seals	With seals	Without seals	With seals	d	D	B	C	a	e	f	Cr N	Cor N	Cylindrical outer ring N	Crowned outer ring N	rpm	g (approx)
6	NAST 6MZZ	NAST 6MZZUU	NAST 6MZZR	NAST 6MZZUUR	6 0 -0.008	19	14	13.8	14	2.5	0.8	3 790	4 180	3 530	1 370	20 000	24.5
8	NAST 8MZZ	NAST 8MZZUU	NAST 8MZZR	NAST 8MZZUUR	8 0 -0.008	24	14	13.8	17.5	2.5	0.8	5 220	5 410	4 510	1 860	17 000	39
10	NAST10MZZ	NAST10MZZUU	NAST10MZZR	NAST10MZZUUR	10 0 -0.008	30	16	15.8	23.5	2.5	0.8	8 920	8 890	6 860	2 450	15 000	65
12	NAST12MZZ	NAST12MZZUU	NAST12MZZR	NAST12MZZUUR	12 0 -0.008	32	16	15.8	25.5	2.5	0.8	9 560	10 020	7 350	2 740	13 000	75
15	NAST15MZZ	NAST15MZZUU	NAST15MZZR	NAST15MZZUUR	15 0 -0.008	35	16	15.8	29	2.5	0.8	11 310	13 150	8 040	3 140	10 000	83
17	NAST17MZZ	NAST17MZZUU	NAST17MZZR	NAST17MZZUUR	17 0 -0.010	40	20	19.8	32.5	3	1	16 000	19 220	11 800	3 720	9 500	135
20	NAST20MZZ	NAST20MZZUU	NAST20MZZR	NAST20MZZUUR	20 0 -0.010	47	20	19.8	38	3	1	17 660	22 540	13 800	4 610	8 500	195
25	NAST25MZZ	NAST25MZZUU	NAST25MZZR	NAST25MZZUUR	25 0 -0.010	52	20	19.8	43	3	1	19 040	26 120	15 300	5 290	7 000	225
30	NAST30MZZ	NAST30MZZUU	NAST30MZZR	NAST30MZZUUR	30 0 -0.010	62	25	24.8	50.5	4	1.2	27 870	41 760	22 100	6 660	5 500	400
35	NAST35MZZ	NAST35MZZUU	NAST35MZZR	NAST35MZZUUR	35 0 -0.012	72	25	24.8	53.5	4	1.2	29 620	46 550	25 700	8 130	5 000	550
40	NAST40MZZ	NAST40MZZUU	NAST40MZZR	NAST40MZZUUR	40 0 -0.012	80	26	25.8	61.5	4	1.2	32 840	56 210	30 300	9 310	4 000	710
45	NAST45MZZ	NAST45MZZUU	NAST45MZZR	NAST45MZZUUR	45 0 -0.012	85	26	25.8	66.5	4	1.2	34 130	61 080	31 100	10 100	4 000	760
50	NAST50MZZ	NAST50MZZUU	NAST50MZZR	NAST50MZZUUR	50 0 -0.012	90	26	25.8	76	4	1.2	35 600	66 050	34 000	11 000	3 500	830

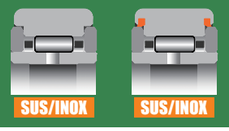
* Without seals, suitable for grease lubrication. In case of oil lubrication, up to 130% of this value shall be permissible, and 70% of this value shall apply for types with seals.

OUTER RINGS TOLERANCE (Outside diameter) (μm)

TYPE	Cylindrical outer ring	Crowned outer ring
NAST6M,NAST8M,NAST10M	0/-9	0/-50
NAST12M,NAST15M,NAST17M,NAST20M	0/-11	0/-50
NAST25M,NAST30M,NAST35M,NAST40M	0/-13	0/-50
NAST45M,NAST50M	0/-15	0/-50

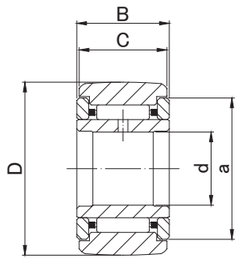
ROLLER FOLLOWERS STAINLESS STEEL

NON SEPARABLE WITH INNER RING

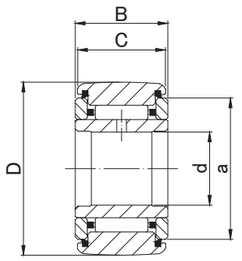


NART..MR

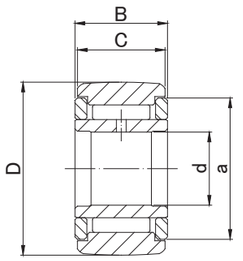
NART..VMR



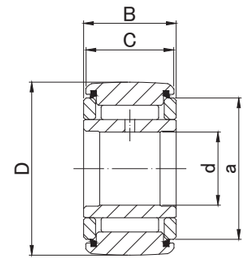
NART..MR
NART..MX



NART..MUUR
NART..MUUX



NART..MVR
NART..MVX



NART..MUUVR
NART..MUUVX

NART.. M TYPE

Prepacked Grease

Shaft Diameter (mm)	Designation				Dimensions (mm)					Basic dynamic load rating	Basic static load rating	Track load capacity		Limiting speed *	Mass
	Crowned outer ring R500(≦ NART17R) R1000(NART20R ≦)		Cylindrical outer ring												
	Without seals	With seals	Without seals	With seals	d	D	B	C	a	Cr N	Cor N	Crowned outer ring N	Cylindrical outer ring N	rpm	g (approx)
5	NART 5MR NART 5MVR	NART 5MUUR NART 5MUUVR	NART 5MX NART 5MVX	NART 5MUUX NART 5MUUVX	5 0 -0.008	16	12	11	12	3 330 6 210	3 420 7 670	1 080 1 080	3 430 3 430	25 000 8 500	14.5 15.1
6	NART 6MR NART 6MVR	NART 6MUUR NART 6MUUVR	NART 6MX NART 6MVX	NART 6MUUX NART 6MUUVX	6 0 -0.008	19	12	11	14	3 860 7 020	4 320 9 470	1 370 1 370	4 020 4 020	20 000 7 000	20.5 21.5
8	NART 8MR NART 8MVR	NART 8MUUR NART 8MUUVR	NART 8MX NART 8MVX	NART 8MUUX NART 8MUUVX	8 0 -0.008	24	15	14	17.5	6 070 10 850	6 710 14 350	1 860 1 860	5 950 5 950	17 000 5 500	41.5 42.5
10	NART10MR NART10MVR	NART10MUUR NART10MUUVR	NART10MX NART10MVX	NART10MUUX NART10MUUVX	10 0 -0.008	30	15	14	23.5	7 910 14 350	7 630 16 650	2 450 2 450	7 060 7 060	15 000 5 000	64.5 66.5
12	NART12MR NART12MVR	NART12MUUR NART12MUUVR	NART12MX NART12MVX	NART12MUUX NART12MUUVX	12 0 -0.008	32	15	14	25.5	8 370 15 450	8 460 18 860	2 740 2 740	7 450 7 450	13 000 4 500	71 73
15	NART15MR NART15MVR	NART15MUUR NART15MUUVR	NART15MX NART15MVX	NART15MUUX NART15MUUVX	15 0 -0.008	35	19	18	29	13 240 23 090	16 190 33 480	3 140 3 140	11 200 11 200	10 000 3 500	102 106
17	NART17MR NART17MVR	NART17MUUR NART17MUUVR	NART17MX NART17MVX	NART17MUUX NART17MUUVX	17 0 -0.008	40	21	20	32.5	17 110 29 440	20 700 42 500	3 720 3 720	14 400 14 400	9 500 3 000	149 155
20	NART20MR NART20MVR	NART20MUUR NART20MUUVR	NART20MX NART20MVX	NART20MUUX NART20MUUVX	20 0 -0.010	47	25	24	38	22 170 38 360	30 080 61 910	7 150 7 150	21 000 21 000	8 000 2 500	250 255
25	NART25MR NART25MVR	NART25MUUR NART25MUUVR	NART25MX NART25MVX	NART25MUUX NART25MUUVX	25 0 -0.010	52	25	24	43	23 730 41 860	34 500 72 680	8 230 8 230	23 200 23 200	7 000 2 500	285 295
30	NART30MR NART30MVR	NART30MUUR NART30MUUVR	NART30MX NART30MVX	NART30MUUX NART30MUUVX	30 0 -0.010	62	29	28	50.5	33 300 55 010	52 340 101 560	10 500 10 500	33 000 33 000	5 500 1 800	470 485
35	NART35MR NART35MVR	NART35MUUR NART35MUUVR	NART35MX NART35MVX	NART35MUUX NART35MUUVX	35 0 -0.012	72	29	28	53.5	35 140 57 960	57 770 111 780	12 900 12 900	38 000 38 000	5 000 1 700	640 655
40	NART40MR NART40MVR	NART40MUUR NART40MUUVR	NART40MX NART40MVX	NART40MUUX NART40MUUVX	40 0 -0.012	80	32	30	61.5	42 500 70 100	77 920 151 060	14 900 14 900	44 400 44 000	4 000 1 400	845 865
45	NART45MR NART45MVR	NART45MUUR NART45MUUVR	NART45MX NART45MVX	NART45MUUX NART45MUUVX	45 0 -0.012	85	32	30	66.5	45 350 73 780	87 580 166 610	16 100 16 100	47 000 47 000	4 000 1 300	915 935
50	NART50MR NART50MVR	NART50MUUR NART50MUUVR	NART50MX NART50MVX	NART50MUUX NART50MUUVX	50 0 -0.012	90	32	30	76	47 010 77 370	94 110 182 160	17 300 17 300	50 000 50 000	3 500 1 200	980 1 010

* 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 (Outside diameter) (μm)

TYPE	Crowned outer ring	Cylindrical outer ring
NART5M	0/-50	0/-8
NART6M,NART8M,NART10M	0/-50	0/-9
NART12M,NART15M,NART17M,NART20M	0/-50	0/-11
NART25M,NART30M,NART35M,NART40M	0/-50	0/-13
NART45M,NART50M	0/-50	0/-15