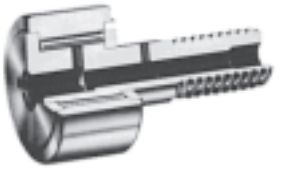
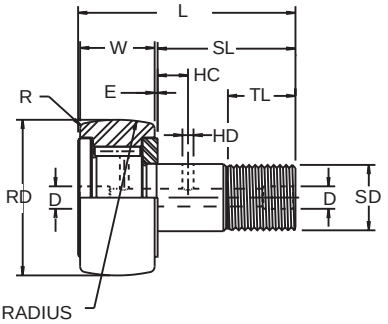
MCF® SERIES

STUD TYPE

Series MCF® — Unsealed, full complement
Series MCF-S — Sealed, full complement
Series MCFR® — Unsealed, cage type
Series MCFR-S — Sealed, cage type



MCF®



UNSEALED BRG. NO. (1)	SEALED BRG. NO. (1)	ROLLER DIA. RD NOM. (2)	ROLLER WIDTH W +0.00 -0.12	STUD DIA. SD NOM. (3)	STUD L'GTH. SL NOM.	OVERALL LENGTH L NOM.	ENDPLATE EXTENSION E NOM.	THREAD	THREAD LENGTH TL MIN.	OIL HOLE	
										(HC) NOM.	(HD) NOM.
		mm	mm	mm	mm	mm	mm	mm	mm	mm	
MCFR-13	MCFR-13-S	13	9	5	13	23	0.6	M5x0.8	7.5	-	-
MCFR-16 MCF-16	MCFR-16-S MCF-16-S	16	11	6	16	28	0.6	M6x1	9	-	-
MCFR-19 MCF-19	MCFR-19-S MCF-19-S	19	11	8	20	32	0.6	M8x1.25	11	-	-
MCFR-22 MCF-22	MCFR-22-S MCF-22-S	22	12	10	23	36	0.6	M10x1	12	-	-
MCFR-22A MCF-22A	MCFR-22A-S MCF-22A-S	22	12	10	23	36	0.6	M10x1.25	13	-	-
MCFR-26 MCF-26	MCFR-26-S MCF-26-S	26	12	10	23	36	0.6	M10x1	12	-	-
MCFR-26A MCF-26A	MCFR-26A-S MCF-26A-S	26	12	10	23	36	0.6	M10x1.25	13	-	-
MCFR-30 MCF-30	MCFR-30-S MCF-30-S	30	14	12	25	40	0.6	M12x1.5	14	6	3
MCFR-32 MCF-32	MCFR-32-S MCF-32-S	32	14	12	25	40	0.6	M12x1.5	14	6	3
MCFR-35 MCF-35	MCFR-35-S MCF-35-S	35	18	16	32.5	52	0.8	M16x1.5	18	8	3
MCFR-40 MCF-40	MCFR-40-S MCF-40-S	40	20	18	36.5	58	0.8	M18x1.5	19	8	3
MCFR-40A MCF-40A	MCFR-40A-S MCF-40A-S	40	20	18	36.5	58	0.8	M18x1.5	20	10	3
MCFR-47 MCF-47	MCFR-47-S MCF-47-S	47	24	20	40.5	66	0.8	M20x1.5	21	9	4
MCFR-47A MCF-47A	MCFR-47A-S MCF-47A-S	47	24	20	40.5	66	0.8	M20x1.5	22	12	4
MCFR-52 MCF-52	MCFR-52-S MCF-52-S	52	24	20	40.5	66	0.8	M20x1.5	21	9	4
MCFR-52A MCF-52A	MCFR-52A-S MCF-52A-S	52	24	20	40.5	66	0.8	M20x1.5	22	12	4
MCFR-62 MCF-62	MCFR-62-S MCF-62-S	62	29	24	49.5	80	0.8	M24x1.5	25	11	4
MCFR-62A MCF-62A	MCFR-62A-S MCF-62A-S	62	29	24	49.5	80	0.8	M24x1.5	25	12	4
MCFR-72 MCF-72	MCFR-72-S MCF-72-S	72	29	24	49.5	80	0.8	M24x1.5	25	11	4
MCFR-72A MCF-72A	MCFR-72A-S MCF-72A-S	72	29	24	49.5	80	0.8	M24x1.5	25	12	4
MCFR-80 MCF-80	MCFR-80-S MCF-80-S	80	35	30	63	100	1	M30x1.5	32	15	4
MCFR-85 MCF-85	MCFR-85-S MCF-85-S	85	35	30	63	100	1	M30x1.5	32	15	4
MCFR-90 MCF-90	MCFR-90-S MCF-90-S	90	35	30	63	100	1	M30x1.5	32	15	4

(1) Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX
(2) Tolerance limits for Roller Diameter are shown below.

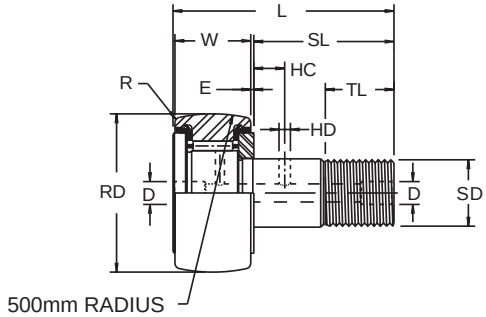
Cylindrical Roller Dia. "RD"

RD (NOM.)		TOLERANCE	
OVER	INCL.	MAX.	MIN.
mm	mm	mm	mm
6	18	0	-0.008
18	30	0	-0.009
30	50	0	-0.011
50	80	0	-0.013
80	120	0	-0.015

Crowned Roller Dia. "RD"

RD (NOM.)		TOLERANCE	
OVER	INCL.	MAX.	MIN.
mm	mm	mm	mm
6	120	0	-0.050

MCFR-S



UNSEALED BRG. NO. (1)	SEALED BRG. NO. (1)	REAMED HOLE D NOM.	CORNER RADIUS R	CLAMPING DIA. MIN.	CLAMPING TORQUE MAX (4)	LIMITING SPEED (7)		HOUSING BORE DIA.		ISO/ABMA BASIC LOAD RATINGS NEWTONS		TRACK ROLLER LOAD RATINGS NEWTONS		MASS
						GREASE	OIL	mm		DYNAMIC	STATIC	DYNAMIC	STATIC	
		mm	mm	mm	Nm	rpm	rpm	MIN.	MAX.			(6)	(5)	kg.
MCFR-13	MCFR-13-S	3.1•	0.3	9	2.2	20000	30000	5.000	5.012	2450	2260	2060	1650	0.010
MCFR-16 MCF-16	MCFR-16-S MCF-16-S	4•	0.3	11	3	19500 13000	25000 17000	6.000	6.012	4120 6960	4120 8340	3430 5790	2350 2350	0.018 0.019
MCFR-19 MCF-19	MCFR-19-S MCF-19-S	4•	0.3	13	8	15500 10500	20000 13500	8.000	8.015	4510 8040	5000 10490	3730 6670	4140 5100	0.028 0.029
MCFR-22 MCF-22	MCFR-22-S MCF-22-S	4	0.5	15	15	13500 9000	17500 11500	10.000	10.015	6280 9410	7260 12360	5200 7850	6050 10400	0.043 0.044
MCFR-22A MCF-22A	MCFR-22A-S MCF-22A-S	4	0.5	15	15	13500 9000	17500 11500	10.000	10.015	6280 9410	7260 12360	5200 7850	6050 10400	0.043 0.044
MCFR-26 MCF-26	MCFR-26-S MCF-26-S	4	0.5	15	15	13500 9000	17500 11500	10.000	10.015	6280 9410	7260 12360	5200 7850	6050 10400	0.055 0.056
MCFR-26A MCF-26A	MCFR-26A-S MCF-26A-S	4	0.5	15	15	13500 9000	17500 11500	10.000	10.015	6280 9410	7260 12360	5200 7850	6050 10400	0.055 0.056
MCFR-30 MCF-30	MCFR-30-S MCF-30-S	6	1	19	22	9600 6400	12500 8300	12.000	12.018	8240 13240	9710 18140	6860 11080	8050 15300	0.087 0.089
MCFR-32 MCF-32	MCFR-32-S MCF-32-S	6	1	19	22	9600 6400	12500 8300	12.000	12.018	8240 13240	9710 18140	6860 11080	8050 15300	0.096 0.099
MCFR-35 MCF-35	MCFR-35-S MCF-35-S	6	1	24	57	6300 4200	8000 5500	16.000	16.018	13040 20300	19030 34130	10890 16970	15900 28500	0.166 0.171
MCFR-40 MCF-40	MCFR-40-S MCF-40-S	6	1.5	27	85	5000 3300	6400 4300	18.000	18.018	15990 23240	23730 38540	13340 19420	19800 32200	0.245 0.248
MCFR-40A MCF-40A	MCFR-40A-S MCF-40A-S	6	1.5	27	85	5000 3300	6400 4300	18.000	18.018	15990 23240	23730 38540	13340 19420	19800 32200	0.245 0.248
MCFR-47 MCF-47	MCFR-47-S MCF-47-S	8	1.5	30	118	3900 2600	5000 3400	20.000	20.021	21280 30790	35700 57670	17750 25690	29800 46700	0.387 0.393
MCFR-47A MCF-47A	MCFR-47A-S MCF-47A-S	8	1.5	30	118	3900 2600	5000 3400	20.000	20.021	21280 30790	35700 57670	17750 25690	29800 46700	0.387 0.393
MCFR-52 MCF-52	MCFR-52-S MCF-52-S	8	1.5	30	118	3900 2600	5000 3400	20.000	20.021	21280 30790	35700 57670	17750 25690	29800 46700	0.453 0.455
MCFR-52A MCF-52A	MCFR-52A-S MCF-52A-S	8	1.5	30	118	3900 2600	5000 3400	20.000	20.021	21280 30790	35700 57670	17750 25690	29800 46700	0.453 0.455
MCFR-62 MCF-62	MCFR-62-S MCF-62-S	8	1.5	38	216	3100 2100	4100 2700	24.000	24.021	31680 46580	55700 92630	26380 38840	46300 65400	0.801 0.810
MCFR-62A MCF-62A	MCFR-62A-S MCF-62A-S	8	1.5	38	216	3100 2100	4100 2700	24.000	24.021	31680 46580	55700 92680	26380 38840	46300 65400	0.801 0.810
MCFR-72 MCF-72	MCFR-72-S MCF-72-S	8	2	38	216	3100 2100	4100 2700	24.000	24.021	31680 46580	55700 92680	26380 38840	46300 65400	1.039 1.048
MCFR-72A MCF-72A	MCFR-72A-S MCF-72A-S	8	2	38	216	3100 2100	4100 2700	24.000	24.021	31680 46580	55700 92680	26380 38840	46300 65400	1.039 1.048
MCFR-80 MCF-80	MCFR-80-S MCF-80-S	8	2	51	441	2200 1500	2900 2000	30.000	30.021	56000 76980	105030 159850	46680 64140	87600 102300	1.621 1.642
MCFR-85 MCF-85	MCFR-85-S MCF-85-S	8	2	51	441	2200 1500	2900 2000	30.000	30.021	56000 76980	105030 159850	46680 64140	87600 102300	1.793 1.814
MCFR-90 MCF-90	MCFR-90-S MCF-90-S	8	2	51	441	2200 1500	2900 2000	30.000	30.021	56000 76980	105030 159850	46680 64140	87600 102300	1.981 2.002

(3) Stud Diameter "SD" per ISO tolerance h7, shown below.

(4) Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

(5) Static load rating is based on stud strength or on internal rolling element load distribution stresses.

(6) Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

(7) Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

• Sizes marked have no lube holes in threaded end of stud.

Stud Dia. "SD"

SD (NOM.)		TOLERANCE	
OVER	INCL.	MAX.	MIN.
mm	mm	mm	mm
2	6	0	-0.012
6	10	0	-0.015
10	18	0	-0.018
18	30	0	-0.021