

**CM & CF  
Features**

**BALL**

- 52100 Bearing Steel
- Heat Treated

- Hard Chrome Plated
- Precision Ground

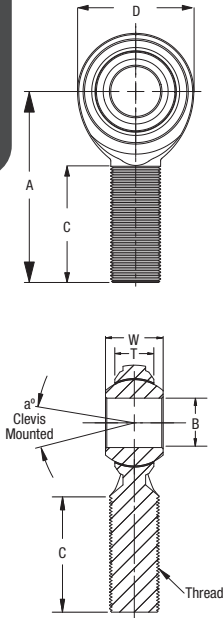
**BODY**

- Carbon Steel
- Protective Coated for Corrosion Resistance

PART NUMBER

DIMENSIONS IN INCHES

**CM Male**

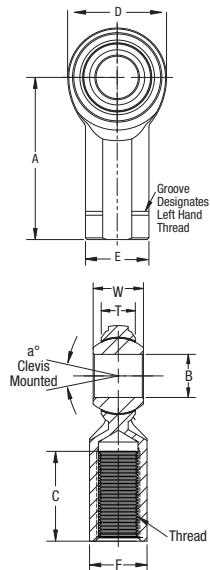


Right Hand	Left Hand	B + .0025 - .0005	W ± .005	T Ref.	A ± .015	D Ref.	Ball Dia. Ref.	C + .062 - .031	Thread UNF-3A	Misalign. Angle a°	Ult. Radial Static Load Lbs.	Approx. Brg. Wgt. Lbs.
CMR2*	CML2*	0.1250	0.250	0.175	0.937	0.500	0.312	0.562	6-32 UNC	22	700	0.01
CMR3*	CML3*	0.1900	0.312	0.234	1.250	0.625	0.437	0.750	10-32	20	1,558	0.03
CMR3-4*	CML3-4*	0.1900	0.312	0.234	1.562	0.750	0.437	1.000	1/4-28	20	3,435	0.04
CMR4*	CML4*	0.2500	0.375	0.250	1.562	0.750	0.500	1.000	1/4-28	27	2,835	0.04
CMR4-5*	CML4-5*	0.2500	0.375	0.250	1.875	0.875	0.500	1.250	5/16-24	27	5,534	0.06
CMR5*	CML5*	0.3125	0.437	0.312	1.875	0.875	0.625	1.250	5/16-24	22	4,517	0.07
CMR5-6*	CML5-6*	0.3125	0.437	0.312	1.938	1.000	0.625	1.250	3/8-24	22	6,853	0.10
CMR6	CML6	0.3750	0.500	0.359	1.938	1.000	0.719	1.250	3/8-24	22	6,323	0.11
CMR6-103	-	0.3750	0.625	0.370	1.938	1.125	0.719	1.211	3/8-24	40	6,162	0.12
CMR6-7	CML6-7	0.3750	0.500	0.359	2.125	1.125	0.719	1.375	7/16-20	22	8,278	0.14
CMR6-8	CML6-8	0.3750	0.500	0.359	2.125	1.125	0.719	1.375	1/2-20	22	8,278	0.17
CMR7	CML7	0.4375	0.562	0.406	2.125	1.125	0.812	1.375	7/16-20	21	7,897	0.15
CMR7-6	-	0.4375	0.562	0.406	2.125	1.125	0.812	1.375	3/8-24	21	7,897	0.13
CMR7-8	CML7-8	0.4375	0.562	0.406	2.438	1.312	0.812	1.500	1/2-20	21	11,191	0.22
CMR8	CML8	0.5000	0.625	0.453	2.438	1.312	0.937	1.500	1/2-20	20	10,046	0.24
CMR8-102	CML8-102	0.5000	1.150	0.453	2.438	1.312	0.937	1.500	1/2-20	26	10,046	0.24
CMR8-10	CML8-10	0.5000	0.625	0.453	2.625	1.500	0.937	1.625	5/8-18	20	13,729	0.34
CMR8-12	CML8-12	0.5000	0.750	0.484	2.625	1.500	1.125	1.625	3/4-16	26	11,385	0.42
CMR10	CML10	0.6250	0.750	0.484	2.625	1.500	1.125	1.625	5/8-18	26	11,385	0.36
CMR10-12	CML10-12	0.6250	0.750	0.484	2.875	1.750	1.125	1.750	3/4-16	26	16,922	0.51
CMR12	CML12	0.7500	0.875	0.593	2.875	1.750	1.312	1.750	3/4-16	24	15,894	0.57
CMR12-757	-	0.7570	0.875	0.593	2.875	1.750	1.312	1.750	3/4-16	24	15,894	0.56

PART NUMBER

DIMENSIONS IN INCHES

**CF Female**



Right Hand	Left Hand	B + .0025 - .0005	W ± .005	T Ref.	A ± .015	D Ref.	E ± .010	F ± .010	Ball Dia. Ref.	C + .062 - .031	Thread UNF-2B	Misalign. Angle a°	Ult. Radial Static Load Lbs.	Approx. Brg. Wgt. Lbs.
CFR2*	CFL2*	0.1250	0.250	0.175	0.812	0.500	0.312	0.250	0.312	0.437	6-32 UNC	22	1,510	0.02
CFR3*	CFL3*	0.1900	0.312	0.234	1.062	0.625	0.406	0.312	0.437	0.500	10-32	20	2,079	0.04
CFR3-4	-	0.1900	0.312	0.234	1.312	0.750	0.469	0.375	0.437	0.687	1/4-28	20	4,197	0.05
CFR4	CFL4	0.2500	0.375	0.250	1.312	0.750	0.469	0.375	0.500	0.687	1/4-28	27	3,820	0.05
CFR5	CFL5	0.3125	0.437	0.312	1.375	0.875	0.500	0.437	0.625	0.687	5/16-24	22	5,110	0.08
CFR5-6	-	0.3125	0.437	0.359	1.625	1.000	0.687	0.562	0.625	0.812	3/8-24	22	6,323	0.10
CFR6	CFL6	0.3750	0.500	0.359	1.625	1.000	0.687	0.562	0.719	0.812	3/8-24	22	6,323	0.13
CFR7	CFL7	0.4375	0.562	0.406	1.812	1.125	0.750	0.625	0.812	0.937	7/16-20	21	7,897	0.18
CFR8	CFL8	0.5000	0.625	0.453	2.125	1.312	0.875	0.750	0.937	1.062	1/2-20	20	10,046	0.29
CFR10	CFL10	0.6250	0.750	0.484	2.500	1.500	1.000	0.875	1.125	1.375	5/8-18	26	11,385	0.43
CFR12	CFL12	0.7500	0.875	0.593	2.875	1.750	1.125	1.000	1.312	1.562	3/4-16	24	15,894	0.65

The C Series is defined as economical, commercial grade rod ends that are generally appropriate for light duty applications.

**MCM & MCF  
Features**

**BALL**

- 52100 Bearing Steel
- Heat Treated
- Hard Chrome Plated
- Precision Ground

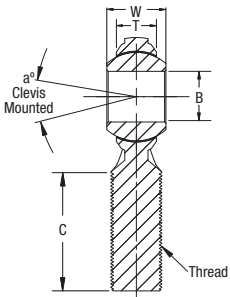
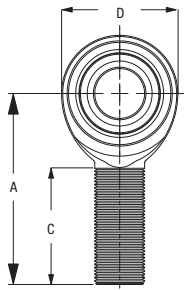
**BODY**

- Carbon Steel
- Protective Coated for Corrosion Resistance

PART NUMBER

DIMENSIONS IN MILLIMETERS

**MCM Male**

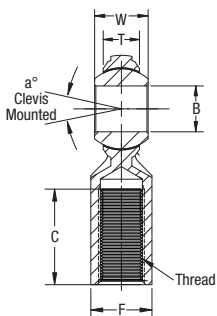
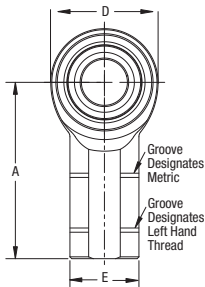


Right Hand	Left Hand	B + .065 - .012	W ± .12	T Ref.	A ± .40	D Ref.	Ball Dia. Ref.	C ± 1.00	Thread 6g	Misalign. Angle a°	Ult. Radial Static Load (Newtons)	Approx. Brg. Wgt. (Grams)
MCMR5*	MCML5*	5	8	5.75	33	16.00	11.10	20	M5X.08	22	5,168	12
MCMR6*	MCML6*	6	9	6.25	36	19.00	12.70	22	M6X1.0	23	7,296	18
MCMR8*	MCML8*	8	12	8.00	42	22.25	15.88	25	M8X1.25	28	13,591	31
MCMR10	MCML10	10	14	9.50	48	27.00	19.05	29	M10X1.5	26	21,024	68
MCMR12	MCML12	12	16	10.75	54	30.00	22.23	33	M12X1.75	27	25,819	78
MCMR14	MCML14	14	19	12.25	60	34.75	25.40	36	M14X2.0	30	35,214	118
MCMR16	MCML16	16	21	12.75	66	38.00	28.58	40	M16X2.0	33	37,391	173
MCMR20	MCML20	20	25	16.25	78	46.00	34.93	47	M20X1.5	29	57,101	290

PART NUMBER

DIMENSIONS IN MILLIMETERS

**MCF Female**



Right Hand	Left Hand	B + .065 - .012	W ± .12	T Ref.	A ± .40	D Ref.	E ± .25	F ± .25	Ball Dia. Ref.	C ± 1.00	Thread 6H	Misalign. Angle a°	Ult. Radial Static Load (Newtons)	Approx. Brg. Wgt. (Grams)
MCFR5*	MCFL5*	5	8	5.75	27	16.00	11	9	11.10	14	M5X.08	22	8,247	18
MCFR6	MCFL6	6	9	6.25	30	19.00	13	11	12.70	14	M6X1.0	23	11,895	25
MCFR8	MCFL8	8	12	8.00	36	22.25	16	14	15.88	17	M8X1.25	28	15,190	40
MCFR10	MCFL10	10	14	9.50	43	27.00	19	17	19.05	21	M10X1.5	26	22,750	80
MCFR12	MCFL12	12	16	10.75	50	30.00	22	19	22.23	24	M12X1.75	27	25,819	95
MCFR14	MCFL14	14	19	12.25	57	34.75	25	22	25.40	27	M14X2.0	30	35,214	160
MCFR16	MCFL16	16	21	12.75	64	38.00	27	22	28.58	33	M16X2.0	33	37,391	215
MCFR20	MCFL20	20	25	16.25	77	46.00	34	30	34.93	40	M20X1.5	29	57,101	350

The MC Series is defined as economical, commercial grade rod ends that are generally appropriate for moderate applications.