

**KM & KF Large Bore
Features**

BALL

- 52100 Bearing Steel
- Heat Treated
- MOS² Coated

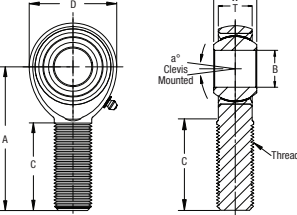
RACE

- 52100 Bearing Steel
- Heat Treated
- MOS² Coated
- Sealed

BODY

- Alloy Steel
- Protective Coated for Corrosion Resistance
- Grease Fitting Installed as Standard

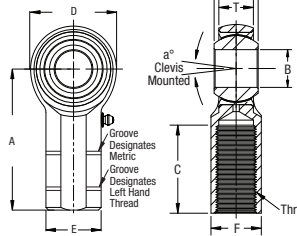
KM Male



PART NUMBER		DIMENSIONS IN INCHES										
Right Hand	Left Hand	B + .0000 - .0005	W + .000 - .005	T ± .020	A ± .040	D ± .030	Ball Dia. Ref.	C + .062 - .031	Thread UNF-3A	Misalign. Angle a°	Ult. Radial Static Load Lbs.	Approx. Brg. Wgt. Lbs.
KMR20Z	KML20Z	1.250	1.093	0.937	4.125	2.750	1.795	2.125	1 1/4-12	7.0	44,500	2.41
KMR24Z	KML24Z	1.500	1.312	1.125	5.375	3.500	2.155	3.000	1 1/2-12	6.5	64,770	4.75
KMR32Z	KML32Z	2.000	1.750	1.500	8.000	5.000	2.875	4.500	2-12*	6.0	153,528	14.25

PART NUMBER DIMENSIONS IN INCHES

KF Female



PART NUMBER		DIMENSIONS IN INCHES													
Right Hand	Left Hand	B + .0000 - .0005	W + .000 - .005	T ± .020	A ± .040	D ± .030	E ± .045	F ± .030	K ± .030	Ball Dia. Ref.	C + .062 - .031	Thread UNF-2B	Misalign. Angle a°	Ult. Radial Static Load Lbs.	Approx. Brg. Wgt. Lbs.
KFR20Z	KFL20Z	1.250	1.093	0.937	4.125	2.750	1.625	1.500	0.500	1.795	2.125	1 1/4-12	7.0	44,500	2.13
KFR24Z	KFL24Z	1.500	1.312	1.125	5.375	3.500	2.250	2.000	0.875	2.155	2.625	1 1/2-12	6.5	64,770	6.50
KFR32Z	KFL32Z	2.000	1.750	1.500	8.000	5.000	3.125	2.750	2.062	2.875	4.000	2-12*	6.0	153,528	15.00

**VM & VF
Features**

BALL

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

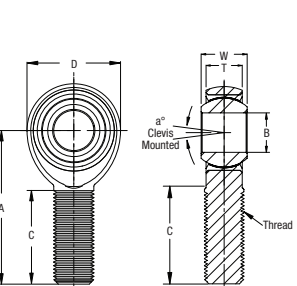
RACE

- Sintered Bronze
- Oil Impregnated

BODY

- Carbon Steel
- Protective Coated for Corrosion Resistance

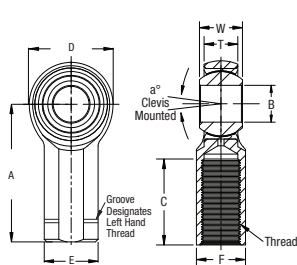
VM Male



PART NUMBER		DIMENSIONS IN INCHES										
Right Hand	Left Hand	B + .0025 - .0005	W ± .005	T ± .005	A ± .015	D ± .010	Ball Dia. Ref.	C + .062 - .031	Thread UNF-3A	Misalign. Angle a°	Ult. Radial Static Load Lbs.	Approx. Brg. Wgt. Lbs.
VMR3	VML3	0.1900	0.312	0.250	1.250	0.625	0.437	0.750	10-32	13	1,169	0.03
VMR4	VML4	0.2500	0.375	0.281	1.562	0.750	0.500	1.000	1/4-28	16	2,158	0.04
VMR5	VML5	0.3125	0.437	0.344	1.875	0.875	0.625	1.250	5/16-24	12	2,784	0.07
VMR6	VML6	0.3750	0.500	0.406	1.938	1.000	0.719	1.250	3/8-24	12	3,915	0.11
VMR7	VML7	0.4375	0.562	0.437	2.125	1.125	0.812	1.375	7/16-20	14	4,218	0.16
VMR8	VML8	0.5000	0.625	0.500	2.438	1.312	0.937	1.500	1/2-20	12	6,660	0.25
VMR10	VML10	0.6250	0.750	0.562	2.625	1.500	1.125	1.625	5/8-18	16	7,364	0.38
VMR12	VML12	0.7500	0.875	0.687	2.875	1.750	1.312	1.750	3/4-16	14	11,518	0.60

SELF-LUBRICATING

VF Female



PART NUMBER		DIMENSIONS IN INCHES												
Right Hand	Left Hand	B + .0025 - .0005	W ± .005	T ± .005	A ± .015	D ± .010	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.
VFR3	VFL3	0.1900	0.312	0.250	1.062	0.625	0.406	0.312	0.562	0.562	10-32	13	1,531	0.04
VFR4	VFL4	0.2500	0.375	0.281	1.312	0.750	0.469	0.375	0.750	0.750	1/4-28	16	2,539	0.06
VFR5	VFL5	0.3125	0.437	0.344	1.375	0.875	0.500	0.437	0.750	0.750	5/16-24	12	3,133	0.09
VFR6	VFL6	0.3750	0.500	0.406	1.625	1.000	0.687	0.562	0.937	0.937	3/8-24	12	3,915	0.15
VFR7	VFL7	0.4375	0.562	0.437	1.812	1.125	0.750	0.625	1.062	1.062	7/16-20	14	4,218	0.20
VFR8	VFL8	0.5000	0.625	0.500	2.125	1.312	0.875	0.750	1.189	1.187	1/2-20	12	6,660	0.33
VFR10	VFL10	0.6250	0.750	0.562	2.500	1.500	1.000	0.875	1.125	1.500	5/8-18	16	7,364	0.48
VFR12	VFL12	0.7500	0.875	0.687	2.875	1.750	1.125	1.000	1.312	1.750	3/4-16	14	11,518	0.72

SELF-LUBRICATING

MVM & MVF Carbon Steel

Bronze Race - Right & Left Hand Threads - Male & Female

C O M M E R C I A L

**Metric
3-Piece
Rod Ends**



MVM & MVF Features

BALL

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

RACE

- Sintered Bronze
- Oil Impregnated

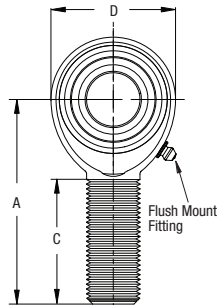
BODY

- Carbon Steel
- Protective Coated for Corrosion Resistance

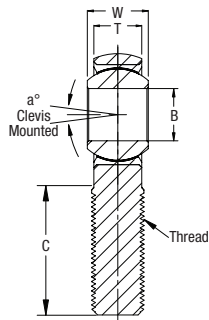
PART NUMBER

DIMENSIONS IN MILLIMETERS

MVM Male



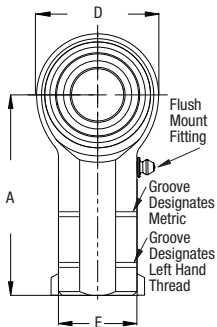
Right Hand	Left Hand	B + .065 - .012	W + .000 - .13	T ± .12	A ± .4	D ± .38	Ball Dia. Ref.	C + 1.5 - .75	Thread 6g	Misalign. Angle a°	Ult. Radial Static Load (Newtons)	Approx. Brg. Wgt. (Grams)
MVMR5*	MVML5*	5	8	6.25	33	16.00	11.10	20	M5X.08	14	8,114	13
MVMR6*	MVML6*	6	9	7.00	36	19.00	12.70	22	M6X1.0	13	11,486	20
MVMR8	MVML8	8	12	8.75	42	22.25	15.88	25	M8X1.25	18	17,839	36
MVMR10	MVML10	10	14	10.50	48	27.00	19.05	29	M10X1.5	17	27,989	62
MVMR12	MVML12	12	16	12.00	54	30.00	22.23	33	M12X1.75	17	34,688	89
MVMR14	MVML14	14	19	13.50	60	34.75	25.40	36	M14X2.0	21	44,337	134
MVMR16	MVML16	16	21	14.25	66	38.00	28.58	40	M16X2.0	23	48,257	178
MVMR20	MVML20	20	25	18.00	78	46.00	34.93	47	M20X1.5	20	68,587	332



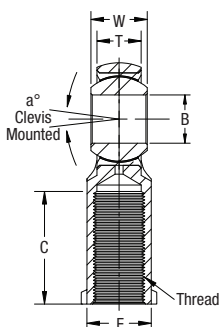
PART NUMBER

DIMENSIONS IN MILLIMETERS

MVF Female



Right Hand	Left Hand	B + .065 - .012	W + .000 - .13	T ± .12	A ± .4	D ± .38	E ± .25	F ± .25	Ball Dia. Ref.	C + 1.5 - .75	Thread 6H	Misalign. Angle a°	Ult. Radial Static Load (Newtons)	Approx. Brg. Wgt. (Grams)
MVFR5*	MVFL5*	5	8	6.25	27	16.00	11	9	11.10	14	M5X.08	14	10,274	19
MVFR6*	MVFL6*	6	9	7.00	30	19.00	13	11	12.70	14	M6X1.0	13	15,771	29
MVFR8	MVFL8	8	12	8.75	36	22.25	16	14	15.88	17	M8X1.25	18	17,839	51
MVFR10	MVFL10	10	14	10.50	43	27.00	19	17	19.05	21	M10X1.5	17	27,989	86
MVFR12	MVFL12	12	16	12.00	50	30.00	22	19	22.23	24	M12X1.75	17	34,688	124
MVFR14	MVFL14	14	19	13.50	57	34.75	25	22	25.40	27	M14X2.0	21	44,337	184
MVFR16	MVFL16	16	21	14.25	64	38.00	27	22	28.58	33	M16X2.0	23	48,257	223
MVFR20	MVFL20	20	25	18.00	77	46.00	34	30	34.93	40	M20X1.5	20	68,587	436



*Flush mount fittings not available.

Studded configurations available. See page 48 for details.