



# Industrial Rod Ends

## Female Shank, Heavy Duty Forging - Inch



### Series REF

Part Number		d Inside Diameter			B Inner Ring Width +0.000 -0.005	d <sub>1</sub> Shaft Shoulder Diameter (Ref)	α Tilt in Clevis Max. ① (Deg)	H Length to Center (Ref)	G Thread UNF-2B ②	G <sub>1</sub> Eff. Thread Length
Open	Sealed	Nom.	Max.	Min.						
REF12	REF12-SS	3/4	0.7500	0.7495	0.656	0.844	2	3.000	3/4-16	1.125
REF12-E	REF12-ESS	3/4	0.7500	0.7495	1.125	0.920	9	3.000	3/4-16	1.125
REF14	REF14-SS	7/8	0.8750	0.8745	0.765	0.984	2	3.375	7/8-14	1.281
REF14-E	REF14-ESS	7/8	0.8750	0.8745	1.312	1.070	9	3.375	7/8-14	1.281
REF16	REF16-SS	1	1.0000	0.9995	0.875	1.125	2	3.750	1-12	1.437
REF16-E	REF16-ESS	1	1.0000	0.9995	1.500	1.220	9	3.750	1-12	1.437
REF20	REF20-SS	1 1/4	1.2500	1.2495	1.093	1.406	2	4.562	1 1/4-12	1.812
REF20-E	REF20-ESS	1 1/4	1.2500	1.2495	1.875	1.525	9	4.562	1 1/4-12	1.812
REF2024	REF2024-SS	1 1/4	1.2500	1.2495	1.390	1.660	4	5.406	1 1/2-12	2.125
REF22	REF22-SS	1 3/8	1.3750	1.3745	1.187	1.516	2	5.000	1 3/8-12	2.000
REF22-E	REF22-ESS	1 3/8	1.3750	1.3745	2.062	1.670	9	5.000	1 3/8-12	2.000
REF24	REF24-SS	1 1/2	1.5000	1.4995	1.312	1.703	2	5.406	1 1/2-12	2.125
REF24-E	REF24-ESS	1 1/2	1.5000	1.4995	2.250	1.850	9	5.406	1 1/2-12	2.125
REF2428	REF2428-SS	1 1/2	1.5000	1.4995	1.580	1.500	4	6.312	1 3/4-12	2.437
REF28	REF28-SS	1 3/4	1.7500	1.7495	1.531	1.984	3	6.312	1 3/4-12	2.437
REF28-E	REF28-ESS	1 3/4	1.7500	1.7495	2.625	2.165	9	6.312	1 3/4-12	2.437
REF2832	REF2832-SS	1 3/4	1.7500	1.7495	1.820	1.750	4	7.187	2-12	2.750
REF32	REF32-SS	2	2.0000	1.9995	1.750	2.266	3	7.187	2-12	2.750
REF32-E	REF32-ESS	2	2.0000	1.9995	3.000	2.460	9	7.187	2-12	2.750
REF3236	REF3236-SS	2	2.0000	1.9995	2.070	2.000	4	8.125	2 1/4-12	3.000
REF36	REF36-SS	2 1/4	2.2500	2.2494	1.969	2.563	3	8.125	2 1/4-12	3.000
REF36-E	REF36-ESS	2 1/4	2.2500	2.2494	3.375	2.760	9	8.125	2 1/4-12	3.000
REF3640	REF3640-SS	2 1/4	2.2500	2.2494	2.318	2.250	5	9.000	2 1/2-12	3.250
REF40	REF40-SS	2 1/2	2.5000	2.4994	2.187	2.844	3	9.000	2 1/2-12	3.250
REF40-E	REF40-ESS	2 1/2	2.5000	2.4994	3.750	3.060	9	9.000	2 1/2-12	3.250

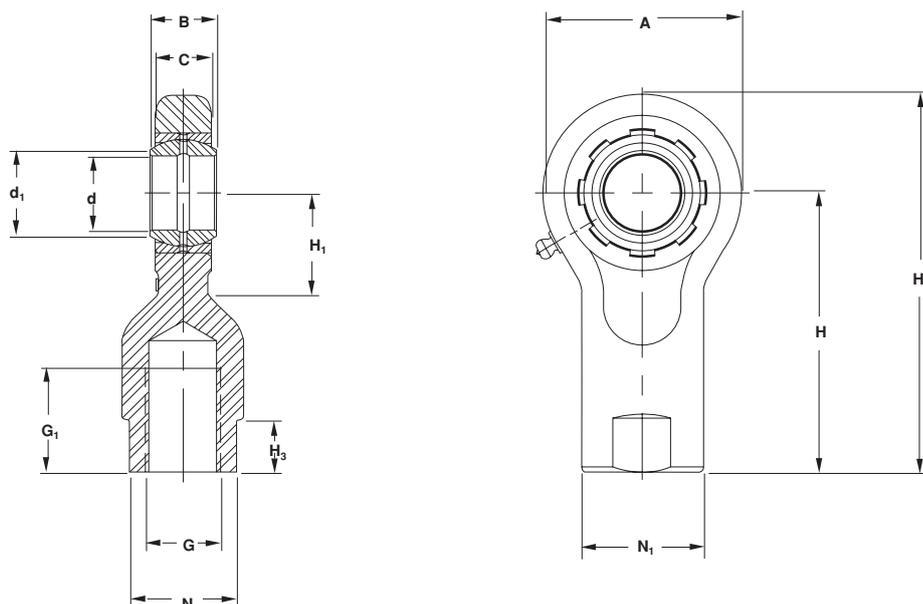
All dimensions are in inches.

Consult RBC engineering for bearings with tapered bore.



# Industrial Rod Ends

## Female Shank, Heavy Duty Forging - Inch



### Series REF

	A Head Dia.	N <sub>1</sub> Shank Dia.	C Head Thickness	H <sub>3</sub> Length of Flat	H <sub>2</sub> Overall Length	N Width across Flats	H <sub>1</sub> Neck to Center (lb.)	Diametral Clearance	Approx. Weight (lb.)	Recommended Static Load Limit		Part Number
										Radial (lb.)	Thrust (lb.)	
	2.062	1.187	0.562	0.625	4.031	1.062	1.000	0.001/0.006	0.69	7,500	4,500	REF12
	2.062	1.187	0.562	0.625	4.031	1.062	1.000	0.001/0.006	0.69	7,500	4,500	REF12-E
	2.375	1.312	0.656	0.671	4.562	1.125	1.187	0.001/0.006	1.03	10,200	5,200	REF14
	2.375	1.312	0.656	0.671	4.562	1.125	1.187	0.001/0.006	1.03	10,200	5,200	REF14-E
	2.687	1.562	0.750	0.718	5.093	1.375	1.312	0.001/0.006	1.36	13,300	5,800	REF16
	2.687	1.562	0.750	0.718	5.093	1.375	1.312	0.001/0.006	1.36	13,300	5,800	REF16-E
	3.312	1.875	0.937	0.750	6.218	1.625	1.625	0.001/0.006	2.13	20,700	7,100	REF20
	3.312	1.875	0.937	0.750	6.218	1.625	1.625	0.001/0.006	2.13	20,700	7,100	REF20-E
	4.000	2.312	1.125	1.000	7.406	2.000	2.000	0.001/0.006	4.84	29,800	8,700	REF2024
	3.625	2.000	1.031	0.875	6.812	1.750	1.875	0.001/0.006	3.12	23,900	7,900	REF22
	3.625	2.000	1.031	0.875	6.812	1.750	1.875	0.001/0.006	3.12	23,900	7,900	REF22-E
	4.000	2.312	1.125	1.000	7.406	2.000	2.000	0.001/0.006	4.84	29,800	8,700	REF24
	4.000	2.312	1.125	1.000	7.406	2.000	2.000	0.001/0.006	4.84	29,800	8,700	REF24-E
	4.625	2.750	1.312	1.187	8.625	2.375	2.125	0.001/0.006	7.04	40,800	10,000	REF2428
	4.625	2.750	1.312	1.187	8.625	2.375	2.125	0.001/0.006	7.04	40,800	10,000	REF28
	4.625	2.750	1.312	1.187	8.625	2.375	2.125	0.001/0.006	7.04	40,800	10,000	REF28-E
	5.250	3.125	1.500	1.187	9.812	2.750	2.500	0.001/0.006	9.02	52,800	11,200	REF2832
	5.250	3.125	1.500	1.187	9.812	2.750	2.500	0.001/0.006	9.02	52,800	11,200	REF32
	5.250	3.125	1.500	1.187	9.812	2.750	2.500	0.001/0.006	9.02	52,800	11,200	REF32-E
	5.875	3.375	1.687	1.375	11.062	3.000	2.937	0.002/0.006	12.32	66,800	12,500	REF3236
	5.875	3.375	1.687	1.375	11.062	3.000	2.937	0.002/0.006	12.32	66,800	12,500	REF36
	5.875	3.375	1.687	1.375	11.062	3.000	2.937	0.002/0.006	12.80	66,800	12,500	REF36-E
	6.500	3.687	1.875	1.375	12.250	3.250	3.250	0.002/0.006	15.60	82,800	13,800	REF3640
	6.500	3.687	1.875	1.375	12.250	3.250	3.250	0.002/0.006	15.60	82,800	13,800	REF40
	6.500	3.687	1.875	1.375	12.250	3.250	3.250	0.002/0.006	16.20	82,800	13,800	REF40-E

1 For sealed bearings with extended inner ring use 5 degrees.

2 To order left handed thread, add suffix "L" to part number shown in chart (e.g. REF 12L).



# Industrial Rod Ends

## Male Shank, Heavy Duty Forging - Inch



### Series REM

Part Number		d Inside Diameter			B Inner Ring Width	d <sub>1</sub> Shaft Shoulder Diameter (Ref)	α Tilt in Clevis Max. (deg) ①	H Length to Center (Ref)	G Thread UNF-2A ②	G <sub>1</sub> Thread Length
Open	Sealed	Nom.	Min.	Max.						
REM12	REM12-SS	3/4	0.7495	0.7500	0.656	0.844	2	3.000	3/4-16	1.562
REM12-E	REM12-ESS	3/4	0.7495	0.7500	1.125	0.920	9	3.000	3/4-16	1.562
REM14	REM14-SS	7/8	0.8745	0.8750	0.765	0.984	2	3.375	7/8-14	1.812
REM14-E	REM14-ESS	7/8	0.8745	0.8750	1.312	1.070	9	3.375	7/8-14	1.812
REM16	REM16-SS	1	0.9995	1.0000	0.875	1.125	2	3.750	1-12	2.062
REM16-E	REM16-ESS	1	0.9995	1.0000	1.500	1.220	9	3.750	1-12	2.062
REM20	REM20-SS	1 1/4	1.2495	1.2500	1.093	1.406	2	4.562	1 1/4-12	2.562
REM20-E	REM20-ESS	1 1/4	1.2495	1.2500	1.875	1.525	9	4.562	1 1/4-12	2.562
REM2024	REM2024-SS	1 1/4	1.2495	1.2500	1.390	1.660	4	5.406	1 1/2-12	3.062
REM22	REM22-SS	1 3/8	1.3745	1.3750	1.187	1.516	2	5.000	1 3/8-12	2.812
REM22-E	REM22-ESS	1 3/8	1.3745	1.3750	2.062	1.670	9	5.000	1 3/8-12	2.812
REM24	REM24-SS	1 1/2	1.4995	1.5000	1.312	1.703	2	5.406	1 1/2-12	3.062
REM24-E	REM24-ESS	1 1/2	1.4995	1.5000	2.250	1.850	9	5.406	1 1/2-12	3.062
REM2428	REM2428-SS	1 1/2	1.4995	1.5000	1.580	1.950	4	6.312	1 3/4-12	3.562
REM28	REM28-SS	1 3/4	1.7495	1.7500	1.531	1.984	3	6.312	1 3/4-12	3.562
REM28-E	REM28-ESS	1 3/4	1.7495	1.7500	2.625	2.165	9	6.312	1 3/4-12	3.562
REM2832	REM2832-SS	1 3/4	1.7495	1.7500	1.820	2.220	4	7.187	2-12	4.062
REM32	REM32-SS	2	1.9995	2.0000	1.750	2.266	3	7.187	2-12	4.062
REM32-E	REM32-ESS	2	1.9995	2.0000	3.000	2.460	9	7.187	2-12	4.062
REM3236	REM3236-SS	2	1.9995	2.0000	2.070	2.500	4	8.125	2 1/4-12	4.500
REM36	REM36-SS	2 1/4	2.2494	2.2500	1.969	2.563	3	8.125	2 1/4-12	4.500
REM36-E	REM36-ESS	2 1/4	2.2494	2.2500	3.375	2.760	9	8.125	2 1/4-12	4.500
REM3640	REM3640-SS	2 1/4	2.2494	2.2500	2.318	2.750	5	9.000	2 1/2-12	5.000
REM40	REM40-SS	2 1/2	2.4994	2.5000	2.187	2.844	3	9.000	2 1/2-12	5.000
REM40-E	REM40-ESS	2 1/2	2.4994	2.5000	3.750	3.060	9	9.000	2 1/2-12	5.000

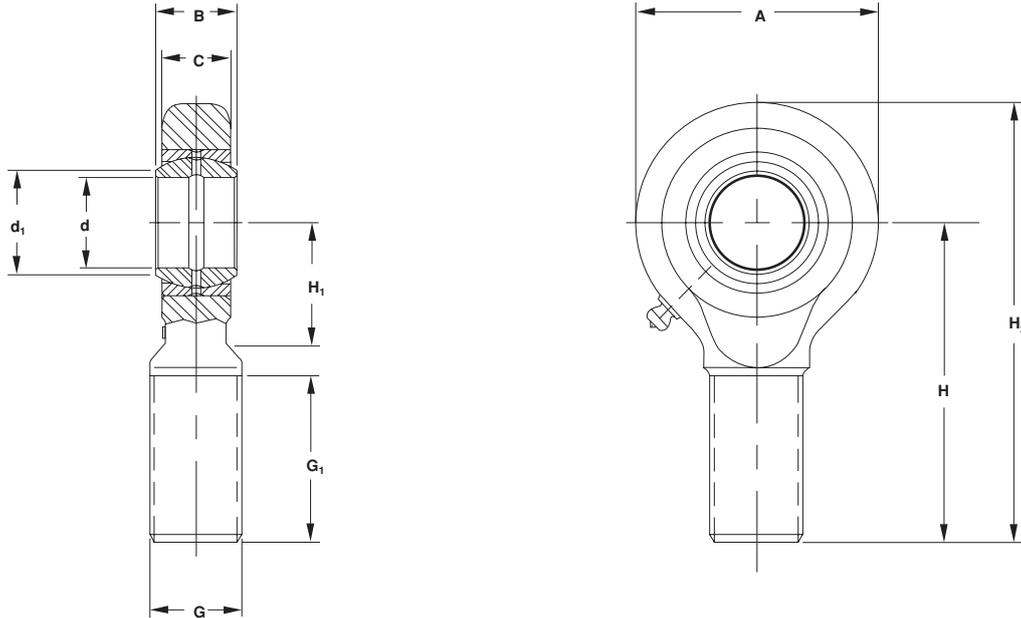
All dimensions are in inches.

Consult RBC engineering for bearings with tapered bore.



# Industrial Rod Ends

## Male Shank, Heavy Duty Forging - Inch



### Series REM

	A Head Dia.	C Head Thickness	H <sub>2</sub> Overall Length	H <sub>1</sub> Neck to Center	Diametral Clearance	Approx. Weight (lb.)	Recommended Static Load Limit		Part Number
							Radial (lb.)	Thrust (lb.)	
	2.062	0.562	4.031	1.000	0.001/0.006	0.62	7,500	4,500	REM12
	2.062	0.562	4.031	1.000	0.001/0.006	0.62	7,500	4,500	REM12-E
	2.375	0.656	4.562	1.125	0.001/0.006	0.83	10,200	5,200	REM14
	2.375	0.656	4.562	1.125	0.001/0.006	0.83	10,200	5,200	REM14-E
	2.687	0.750	5.093	1.187	0.001/0.006	1.10	13,300	5,800	REM16
	2.687	0.750	5.093	1.187	0.001/0.006	1.10	13,300	5,800	REM16-E
	3.312	0.937	6.218	1.375	0.001/0.006	1.82	20,700	7,100	REM20
	3.312	0.937	6.218	1.375	0.001/0.006	1.82	20,700	7,100	REM20-E
	4.000	1.125	7.406	1.750	0.001/0.006	4.19	29,800	8,700	REM2024
	3.625	1.031	6.812	1.562	0.001/0.006	2.87	23,900	7,900	REM22
	3.625	1.031	6.812	1.562	0.001/0.006	2.87	23,900	7,900	REM22-E
	4.000	1.125	7.406	1.750	0.001/0.006	4.19	29,800	8,700	REM24
	4.000	1.125	7.406	1.750	0.001/0.006	4.19	29,800	8,700	REM24-E
	4.625	1.312	8.625	2.187	0.001/0.006	5.62	40,800	10,000	REM2428
	4.625	1.312	8.625	2.187	0.001/0.006	5.62	40,800	10,000	REM28
	4.625	1.312	8.625	2.187	0.001/0.006	5.62	40,800	10,000	REM28-E
	5.250	1.500	9.812	2.375	0.001/0.006	8.16	52,800	11,200	REM2832
	5.250	1.500	9.812	2.375	0.001/0.006	8.16	52,800	11,200	REM32
	5.250	1.500	9.812	2.375	0.001/0.006	8.16	52,800	11,200	REM32-E
	5.875	1.687	11.062	2.687	0.002/0.006	10.00	66,800	12,500	REM3236
	5.875	1.687	11.062	2.687	0.002/0.006	10.00	66,800	12,500	REM36
	5.875	1.687	11.062	2.687	0.002/0.006	10.00	66,800	12,500	REM36-E
	6.500	1.875	12.250	3.000	0.002/0.006	14.00	82,800	13,800	REM3640
	6.500	1.875	12.250	3.000	0.002/0.006	14.00	82,800	13,800	REM40
	6.500	1.875	12.250	3.000	0.002/0.006	14.00	82,800	13,800	REM40-E

① For sealed bearings with extended inner ring use 5 degrees.

② To order left handed thread, add suffix "L" to part number shown in chart (e.g. REM 12L).