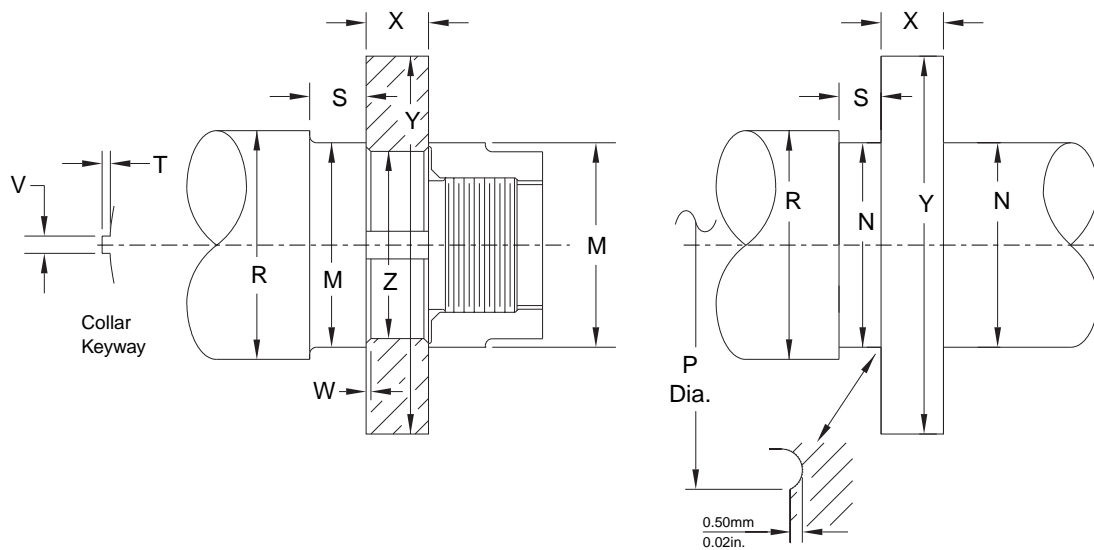


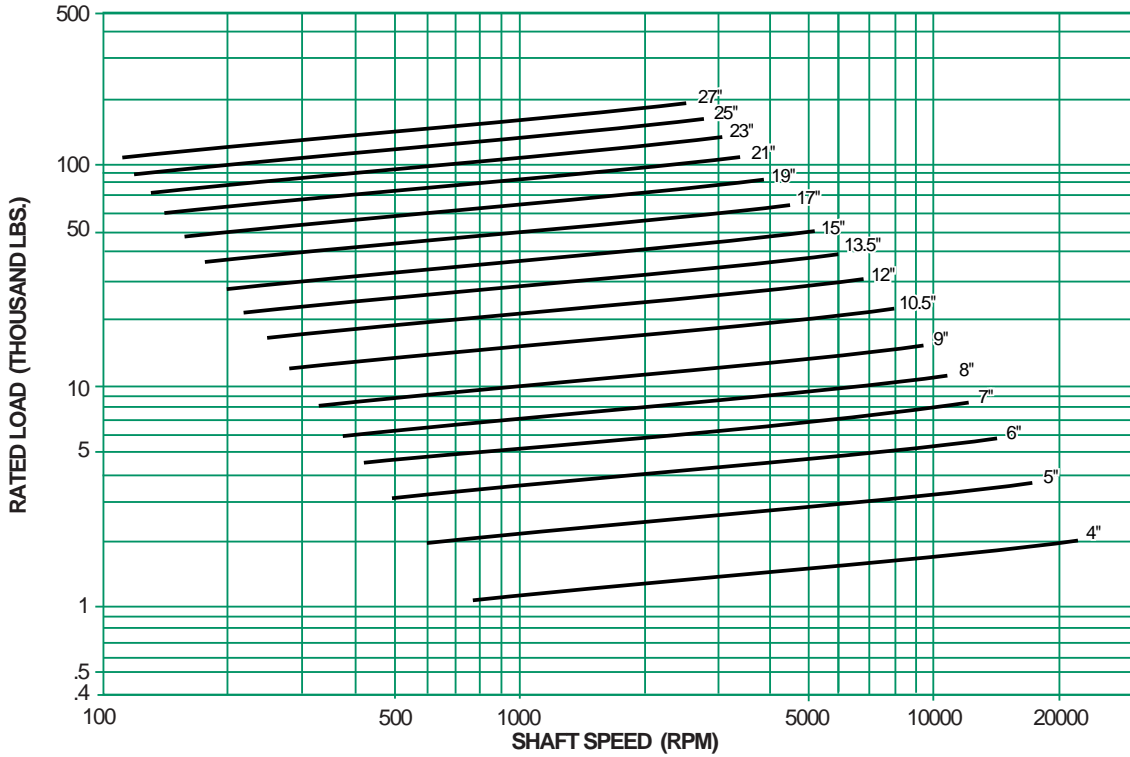
### Style J, B, E Bearings—English Units (inches)

Bearing Size	4	5	6	7	8	9	10.5	12
No. of Shoes 6 for J&B 8 for E								
Area (in <sup>2</sup> )	8	12.5	18.0	24.5	31.4	40.5	55.1	72.0
A – Babbitt O.D.	4.00	5.00	6.00	7.00	8.00	9.00	10.50	12.00
B – Babbitt I.D.	2.00	2.50	3.00	3.50	4.00	4.50	5.25	6.00
H – Bearing Height (J)	1.44	1.75	2.06	2.38	2.69	3.00	3.38	3.75
H – Bearing Height (B)	1.38	1.62	1.88	2.12	2.38	2.69	2.94	3.25
C – Bearing O.D.	4.375	5.375	6.375	7.375	8.375	9.375	11.000	12.500
Q – Base ring I.D.	2.19	2.75	3.25	3.75	4.31	4.88	5.69	6.50
D – Oil annulus dia.	4.12	4.94	5.94	6.75	7.62	8.62	10.00	11.56
E – Oil annulus depth, min.	0.31	0.38	0.38	0.44	0.50	0.56	0.56	0.69
F – Bearing key, length	0.38	0.56	0.66	0.81	0.94	0.94	1.12	1.19
G – Bearing key, width	0.25	0.31	0.38	0.38	0.44	0.44	0.50	0.56
J – Collar to key	0.28	0.31	0.38	0.47	0.50	0.56	0.62	0.69
K – Key projection	0.12	0.16	0.19	0.19	0.19	0.19	0.22	0.22
M – Separate shaft dia.	1.75	2.25	2.75	3.25	3.75	4.25	4.88	5.62
N – Integral shaft dia.	1.62	2.12	2.62	3.12	3.62	4.12	4.75	5.50
P – Max dia. over fillet	1.83	2.41	2.92	3.42	3.91	4.42	5.12	5.87
R – Dia. through base ring	1.94	2.50	3.00	3.50	4.00	4.50	5.25	6.00
S – Shaft lgth @ shoe I.D.	0.50	0.62	0.75	0.88	1.00	1.12	1.25	1.38
X – Collar thickness	0.88	0.88	1.00	1.25	1.38	1.50	1.75	2.00
Y – Collar dia.	4.12	5.12	6.12	7.12	8.12	9.12	10.69	12.19
Z – Collar bore	1.250	1.750	2.125	2.500	3.000	3.500	4.125	4.750
T – Collar key depth	0.16	0.19	0.19	0.25	0.31	0.31	0.38	0.38
V – Collar key width	0.31	0.38	0.38	0.50	0.62	0.62	0.75	0.75
W – Collar chamfer	0.06	0.06	0.06	0.06	0.06	0.06	0.09	0.09
DD – Straddle mill	1.28	1.59	1.97	2.34	2.72	3.03	3.19	3.97
EE – Shoe thickness	0.500	0.625	0.750	0.875	1.000	0.125	1.250	1.375
FF – Shoe relief	0.12	0.16	0.16	0.19	0.22	0.31	0.28	0.34
Weight (Lbs) Bearing	3.4	5.6	9.0	14.8	20.9	30.5	44.9	64.4
Weight (Lbs) Collar	3	4.5	7.5	12.5	17.5	23.6	37.7	56
Weight (Lbs) Spare shoes	1.1	2.1	3.5	5.5	7.8	11.2	18	25



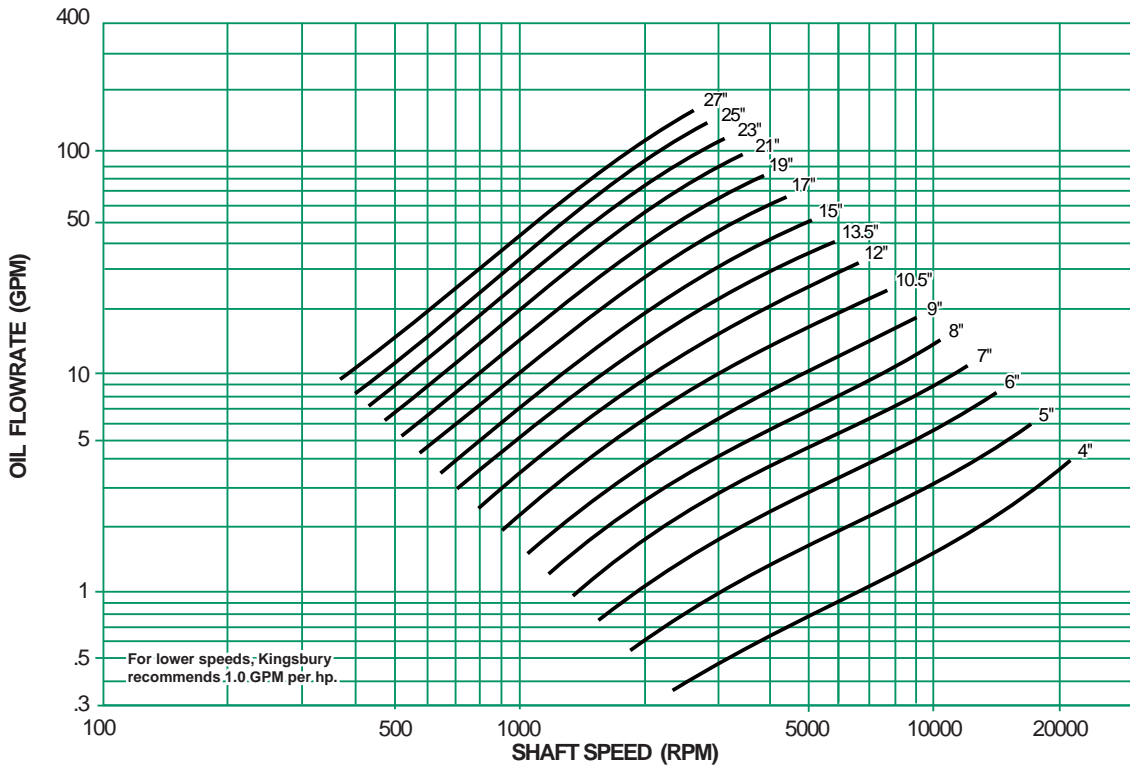
Bearing Size	13.5	15	17	19	21	23	25	27
No. of Shoes 6 for J&B 8 for E								
Area (in <sup>2</sup> )	91.1	112.5	144.5	180.5	220.5	264.5	312.5	364.5
A – Babbitt O.D.	13.50	15.00	17.00	19.00	21.00	23.00	25.00	27.00
B – Babbitt I.D.	6.75	7.50	8.50	9.50	10.50	11.50	12.50	13.50
H – Bearing Height (J)	4.25	4.62	5.25	—	—	—	—	—
H – Bearing Height (B)	3.56	3.88	4.38	4.75	5.25	5.69	6.19	6.69
C – Bearing O.D.	14.000	15.500	17.625	20.250	22.250	24.500	26.500	28.750
Q – Base ring I.D.	7.31	8.12	9.19	10.62	11.75	12.75	14.00	15.75
D – Oil annulus dia.	13.00	14.50	16.50	18.50	20.25	22.38	24.50	26.50
E – Oil annulus depth, min.	0.75	0.62	0.94	0.88	1.00	1.00	1.12	1.19
F – Bearing key, length	1.38	1.50	1.62	1.75	1.75	2.12	2.25	2.38
G – Bearing key, width	0.62	0.69	0.75	0.88	1.00	1.00	1.25	1.25
J – Collar to key	0.75	0.81	0.94	1.00	1.12	1.31	1.38	1.44
K – Key projection	0.25	0.31	0.31	0.34	0.38	0.38	0.50	0.50
M – Separate shaft dia.	6.38	7.00	8.00	8.88	9.88	10.75	11.75	12.62
N – Integral shaft dia.	6.25	6.88	7.88	8.75	9.75	10.50	11.50	12.25
P – Max dia. over fillet	6.62	7.32	8.32	9.27	10.27	11.17	12.17	13.07
R – Dia. through base ring	6.75	7.50	8.50	9.75	10.75	11.75	12.88	13.88
S – Shaft lgth @ shoe I.D.	1.50	1.62	1.75	2.00	2.25	2.38	2.50	2.75
X – Collar thickness	2.25	2.50	2.88	3.25	3.62	3.88	4.25	4.62
Y – Collar dia.	13.69	15.19	17.25	19.25	21.25	23.25	25.25	27.25
Z – Collar bore	5.375	6.000	6.625	7.500	8.500	9.375	10.000	11.000
T – Collar key depth	0.44	0.50	0.50	0.56	0.62	0.62	0.75	0.75
V – Collar key width	0.88	1.00	1.00	1.12	1.25	1.25	1.50	1.50
W – Collar chamfer	0.09	0.09	0.12	0.12	0.12	0.16	0.16	0.16
DD – Straddle mill	4.22	5.09	5.72	5.97	6.97	7.69	8.00	8.31
EE – Shoe thickness	1.500	1.625	1.812	2.000	2.188	2.375	2.688	2.750
FF – Shoe relief	0.38	0.12	0.12	0.38	0.50	0.50	0.50	0.50
Weight (Lbs) Bearing	90.9	123.7	176	237	312	406	506	643
Weight (Lbs) Collar	79	108	162	228	308	394	514	645
Weight (Lbs) Spare shoes	34.5	47	68	100	132	168	221	264

## RATED LOAD FOR STYLE J, B, AND E THRUST BEARINGS (ENGLISH)



Based on ISO VG 32 supplied at 120°F.

## RECOMMENDED OIL SUPPLY FOR J, B, AND E THRUST BEARINGS (ENGLISH)

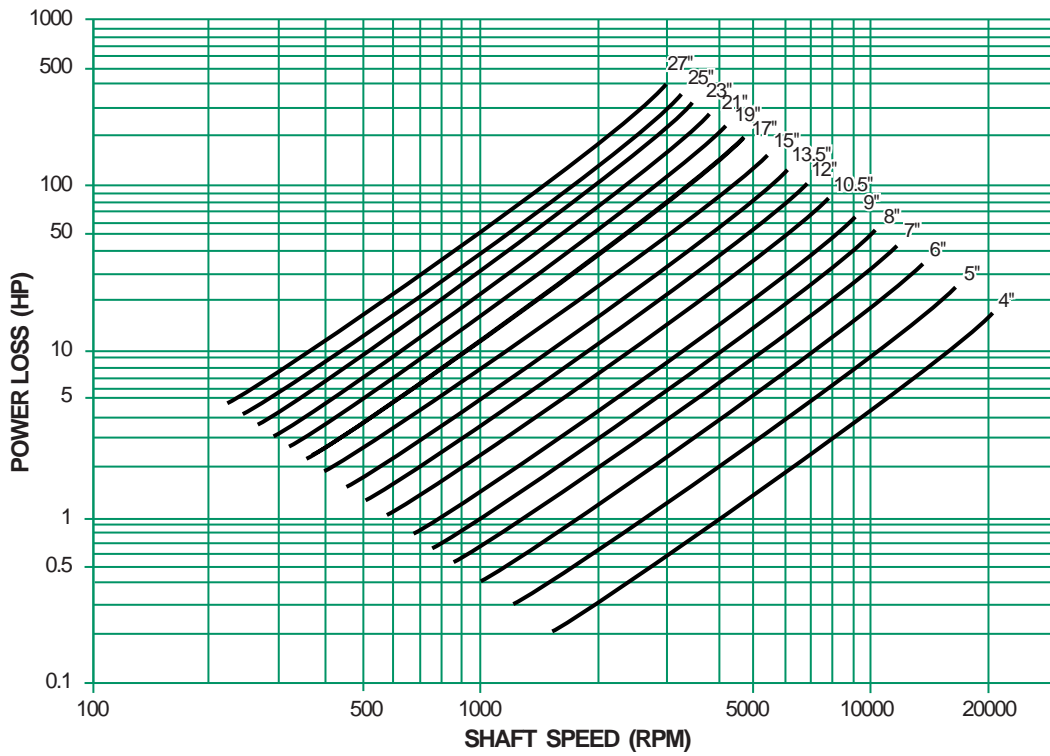


For lower speeds; Kingsbury recommends 1.0 GPM per hp.

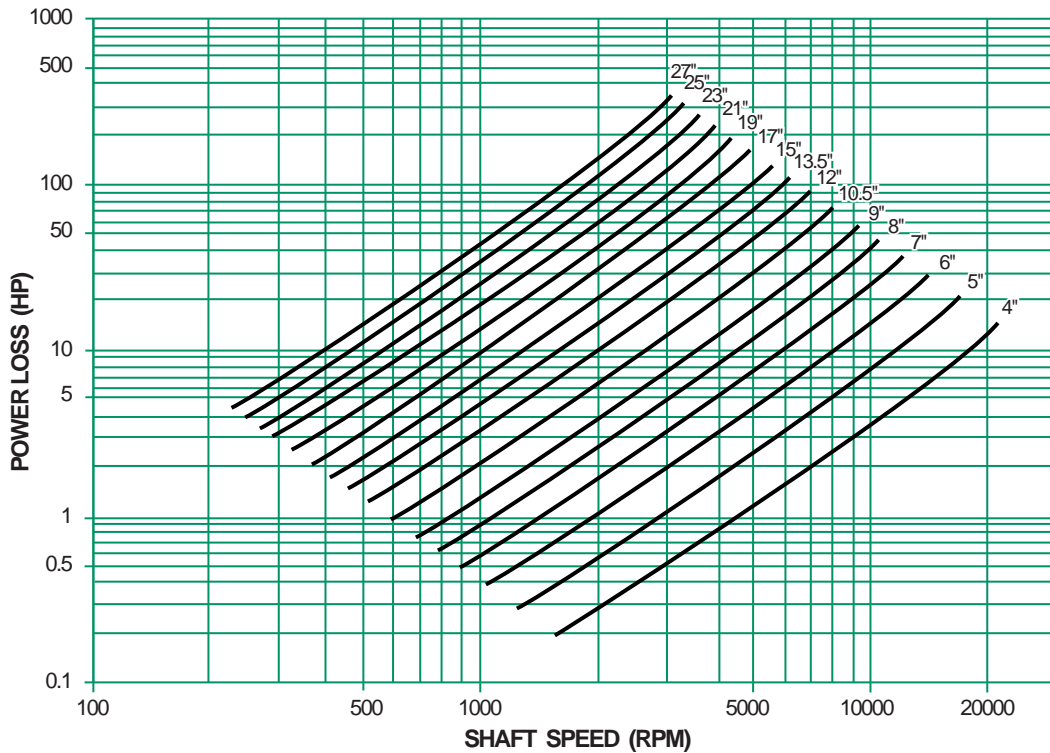
Based on 20% Slack Flow & ISO VG 32 supplied at 120°F.

This chart gives loaded side, single element flowrates for rated load. For double element bearings, supply an additional 20% to the inactive side. In machines where load may reverse and apply rated values to either side, provide equal flow to each side (a total of two times the chart value).

**POWER LOSS FOR DOUBLE ELEMENT STYLE J, B, AND E THRUST BEARINGS (ENGLISH)**



**POWER LOSS FOR SINGLE ELEMENT STYLE J, B, AND E THRUST BEARINGS (ENGLISH)**



Based on 20% Slack Flow & ISO VG 32 supplied at 120°F.  
Power loss is based on rated load, recommended oil flow, and Kingsbury's recommended discharge configuration.  
If any of these is changed, the power loss will also change.