

## BEARING SELECTION

Thrust load, shaft RPM, oil viscosity and shaft diameter through the bearing determine the bearing size to be selected.

Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific

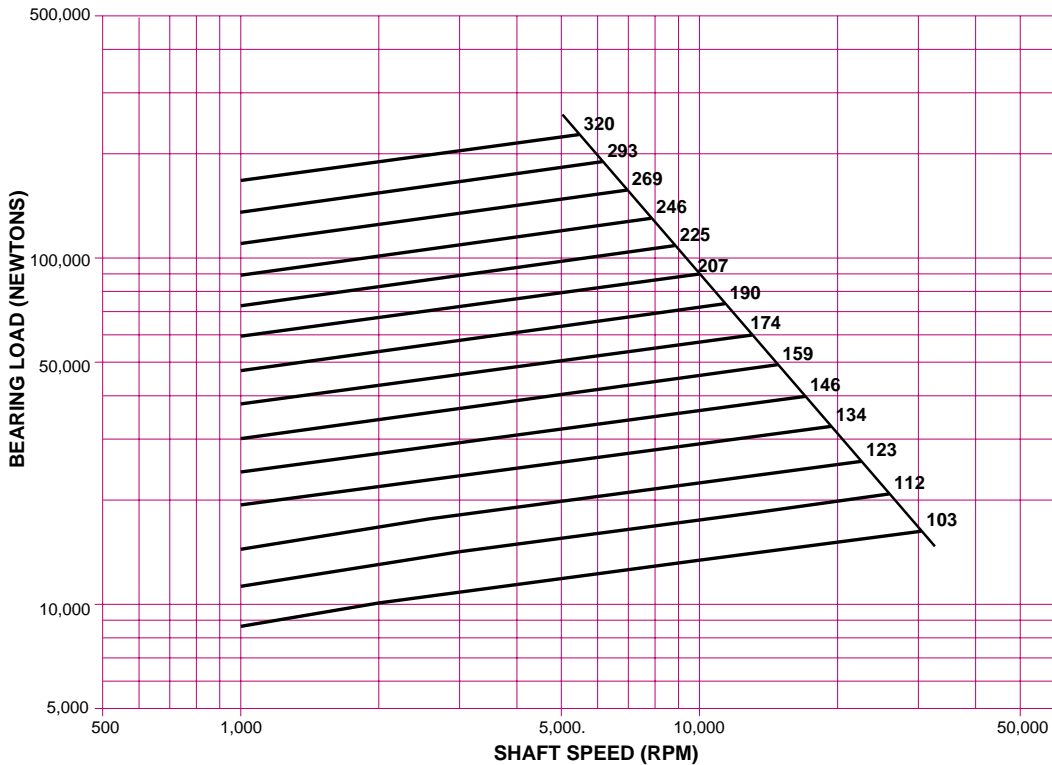
recommendations.

Friction losses are based on recommended flow rates and an evacuated drain cavity. To calculate friction losses for double element bearings, add 10% to the values in these graphs to accommodate the slack-side bearing.

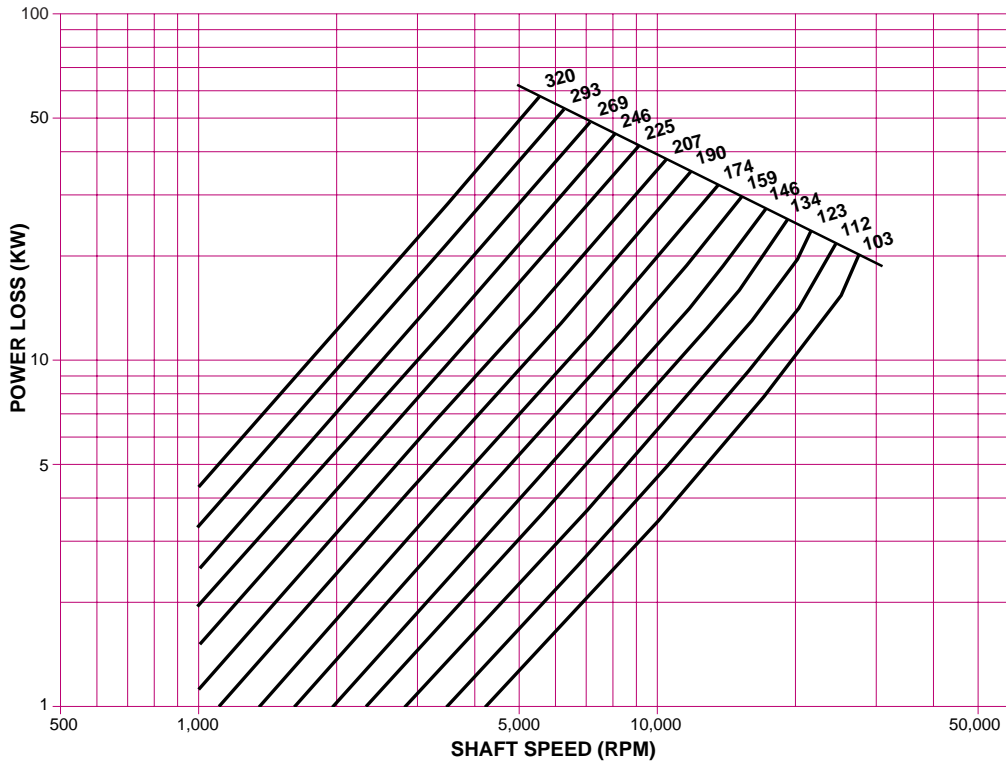
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

All curves are based on an oil viscosity of ISO VG32, with an inlet oil temperature of 50° C. We recommend ISO VG32 oil viscosity for moderate through high speed applications. For other oil viscosities, consult our Engineering Department for assistance in bearing selection, frictional losses and oil flow requirements.

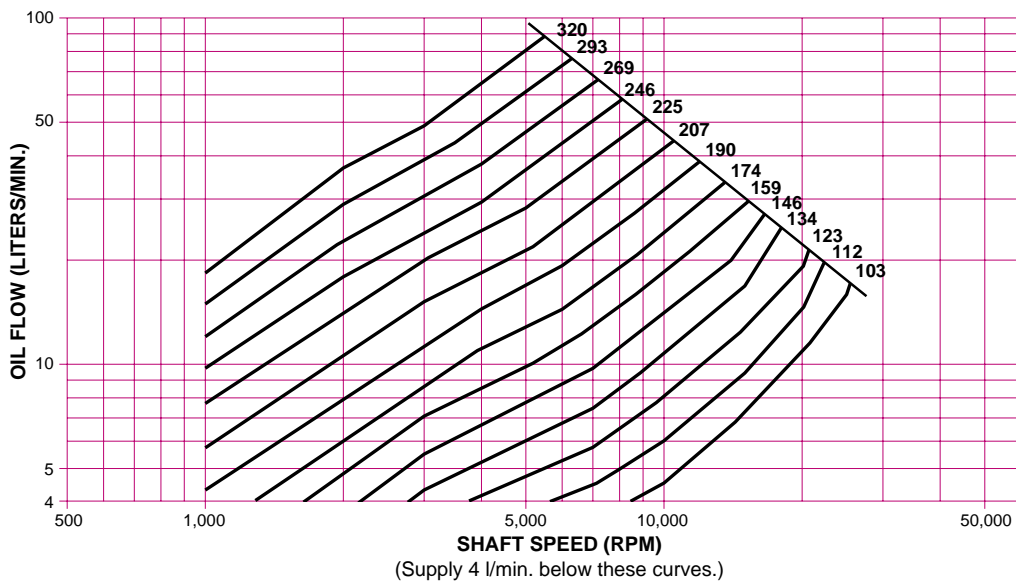
### RATED LOAD FOR 8-PAD LEG BEARINGS

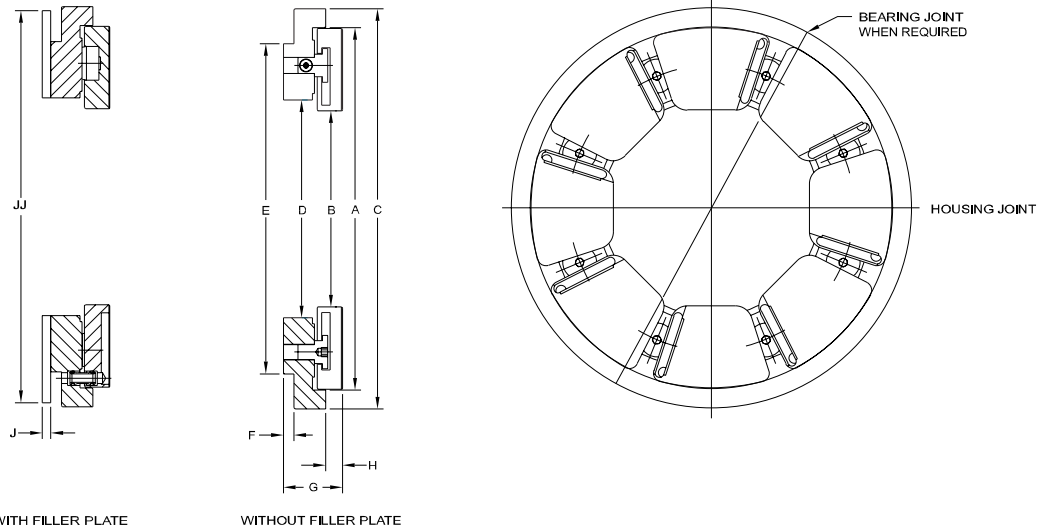


**FRICTIONAL LOSS FOR SINGLE ELEMENT 8-PAD LEG BEARINGS**



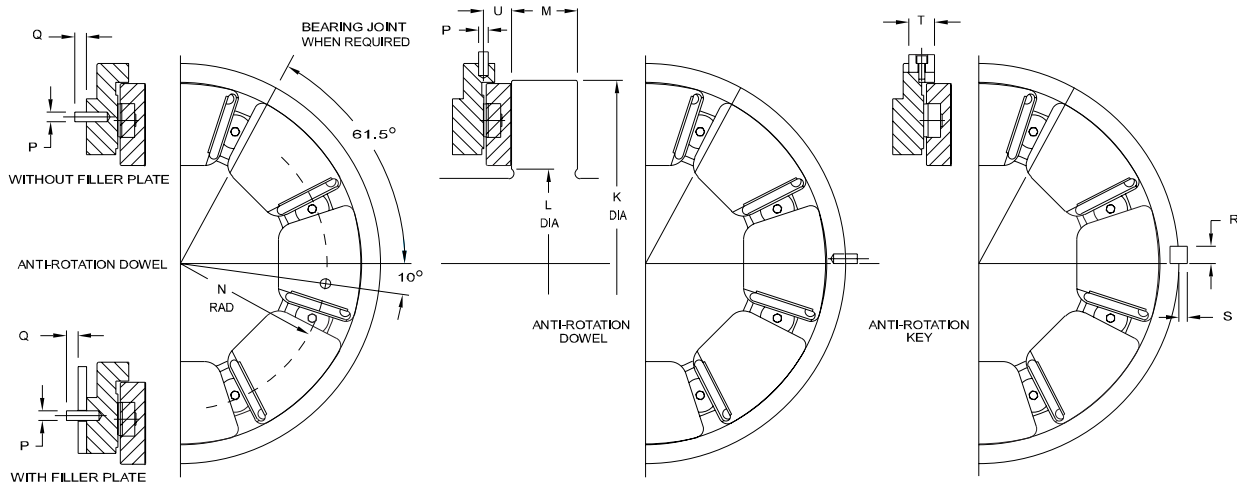
**RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 8-PAD LEG BEARINGS**





BEARING SERIES "8" PAD ALL DIMENSIONS ARE IN MM

Pad Series	Thrust Pad		Bearing Area Sq. MM	Base Ring					Thickness	
	Dia "A"	Dia "B"		Dia "C" Bearing	Dia "C" Housing	Dia "D"	Dia "E"	Dim "F"	Dim "G"	Dim "H"
103	114	61.7	5142	130.14/130.10	130.22/130.18	67	98.6	4	20.650/20.610	4.6
112	124	66.5	6155	139.66/139.62	139.74/139.70	74	108.0	5	22.243/22.187	5.2
123	137	74.4	7265	152.36/152.32	152.44/152.40	82	120.7	3.5	23.823/23.767	6.8
134	149	81.0	8846	168.24/168.20	168.32/168.28	90	133.4	5	25.413/25.357	6.4
146	162	87.6	10446	180.91/180.86	181.01/180.96	98	146.0	6	27.003/26.947	7.0
159	176	95.3	12859	196.80/196.75	196.90/196.85	105	160.3	6	28.593/28.537	7.6
174	192	103.6	15188	215.85/215.80	215.95/215.90	115	173.0	5.5	31.763/31.707	9.7
190	210	112.8	18833	234.90/234.85	235.00/234.95	126	187.5	8	34.943/34.887	9.9
207	229	123.2	22530	253.94/253.89	254.05/254.00	138	206.3	9	38.113/38.057	11.1
225	251	136.7	27428	279.34/279.29	279.45/279.40	150	228.6	10	41.295/41.224	11.3
246	273	147.6	31666	301.57/301.52	301.68/301.63	164	251.0	10.5	44.465/44.394	12.4
269	297	160.0	37176	323.79/323.73	323.91/323.85	179	272.3	10.5	47.645/47.574	14.6
293	324	174.8	44616	355.54/355.48	355.66/355.60	195	298.5	10.5	50.815/50.744	15.8
320	354	191.0	52835	384.12/384.06	384.24/384.18	213	325.4	13.0	57.165/57.094	17.1



BEARING SERIES "8" PAD

ALL DIMENSIONS ARE IN MM

Pad Series	Filler Plate		Collar			Anti Rotation Dowel/Key							Total End Play	Approx. Weight Less Filler Plate kg
	Dia "J"	Dim "J" Min	Dia "K" O.D.	Dia "L" Undercut	Dim "M" Width	Rad "N" Dowel P.C.	Dia "P" Dowel	Dim "Q" Dowel Out	Dim "R" Key-Width	Dim "S" Key-Out	Dim "T" Key-Length	Dim "U"		
103	124	4.8	117	59	17	44.5	6.4	7	-	-	-	10.6	0.30	1.13
112	133	4.8	127	64	19	48.4	6.4	7	-	-	-	12.2	0.30	1.38
123	146	4.8	140	70	21	53.2	6.4	7	-	-	-	12.8	0.30	1.75
134	162	4.8	152	76	22	57.9	7.9	8	-	-	-	12.4	0.35	2.32
146	174	4.8	165	84	25	63.5	7.9	8	-	-	-	14.0	0.35	2.80
159	190	4.8	179	92	27	69.9	7.9	8	-	-	-	15.5	0.35	3.60
174	209	4.8	195	100	30	76.2	9.5	8	-	-	-	17.7	0.40	4.68
190	229	6.4	213	110	32	82.6	9.5	8	-	-	-	17.9	0.40	6.30
207	248	6.4	232	119	35	88.9	11.1	8	-	-	-	21.1	0.40	8.01
225	273	6.4	254	132	38	98.4	12.7	10	-	-	-	22.3	0.50	10.76
246	295	6.4	276	141	43	106.4	12.7	10	15.9	5.6	25.4	-	0.50	13.20
269	317	6.4	300	156	48	115.9	15.9	13	15.9	5.6	28.6	-	0.50	16.10
293	349	9.5	327	170	51	127.0	15.9	13	15.9	5.6	28.6	-	0.50	21.11
320	378	9.5	357	187	56	138.1	19.1	13	15.9	5.6	31.8	-	0.60	28.06