BEARING SELECTION

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

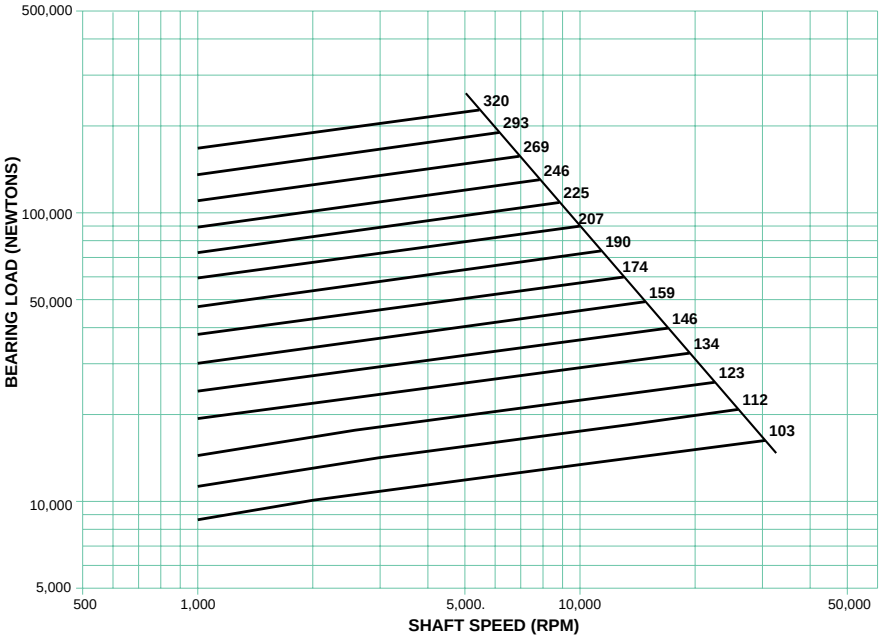
Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific recommendations.

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.

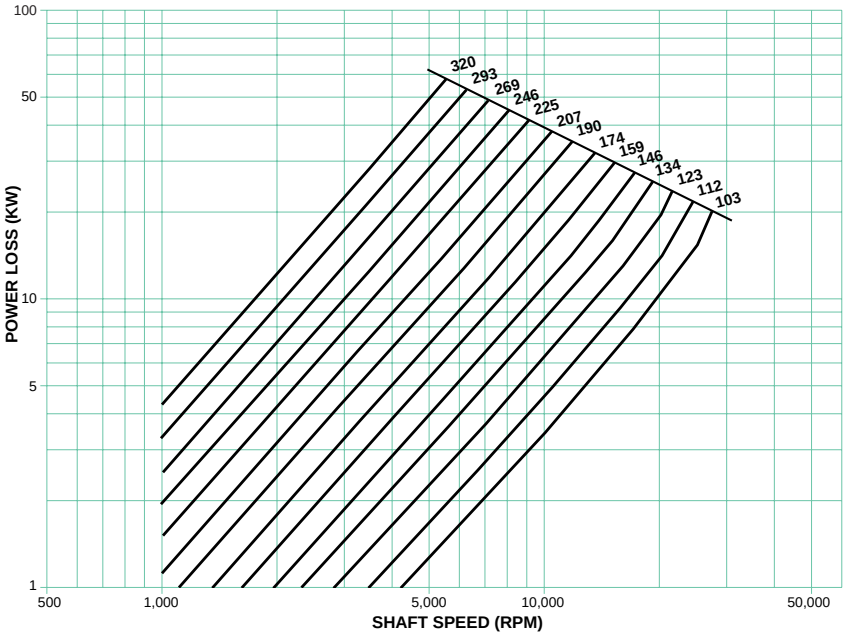
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

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.

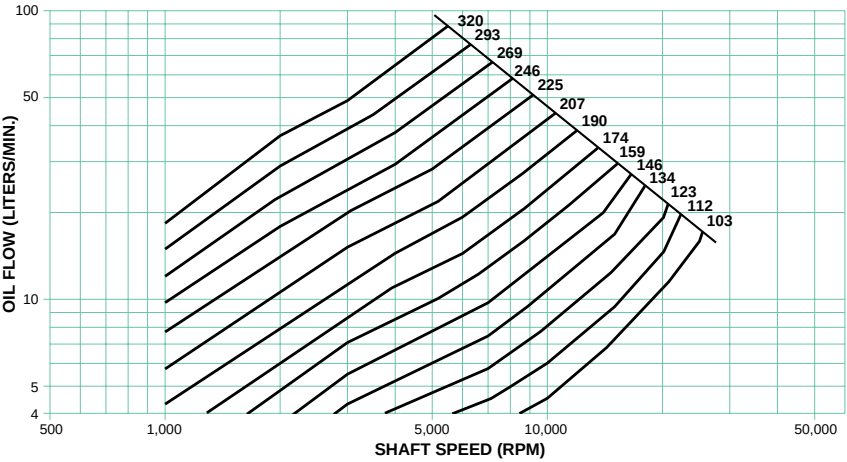
RATED LOAD FOR 8-PAD LEG BEARINGS



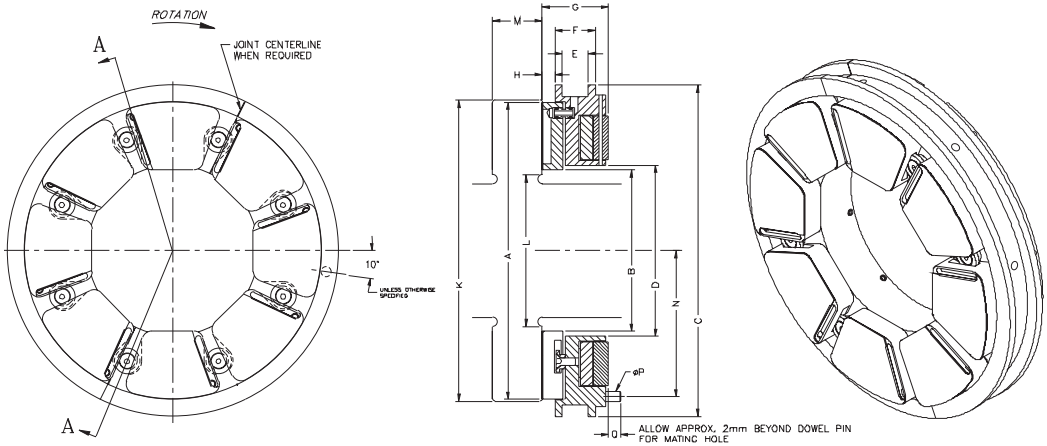
FRICTIONAL LOSS FOR SINGLE ELEMENT 8-PAD LEG BEARINGS



RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 8-PAD LEG BEARINGS

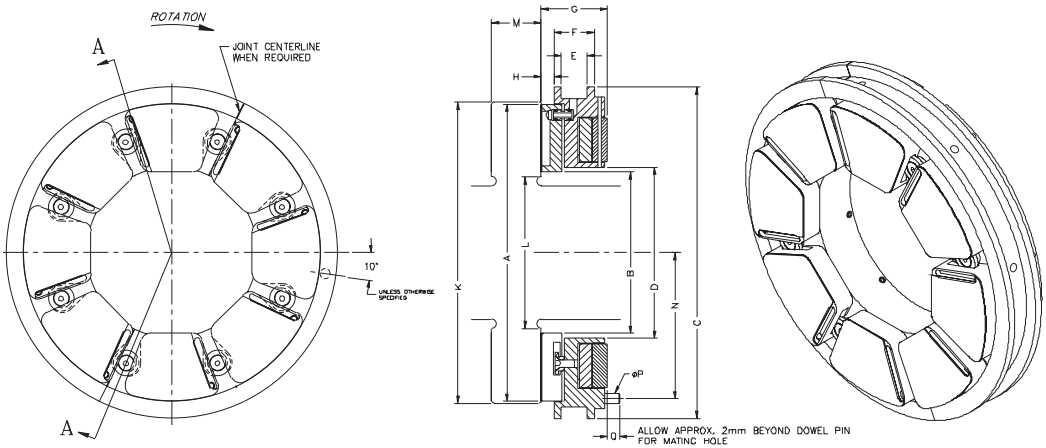


(Supply 4 l/min. below these curves.)



SECTION A–A

BEARING SERIES "8" PAD			ALL DIMENSIONS ARE IN MM					
Pad Series	Thrust Pad		Thrust Surface Sq. MM	Base Ring				
	Dia "A"	Dia "B"		Dia "C" Bearing	Dia "C" Housing	Dia "D"	Dia "E"	Dim "F"
103	114	61.7	5144	130.17/130.13	130.25/130.21	63	9.0	15.0
112	124	66.5	6153	139.69/139.65	139.77/139.73	69	10.0	17.0
123	137	74.4	7266	152.39/152.35	152.47/152.43	78	10.5	17.5
134	149	81.0	8845	168.27/168.23	168.35/168.31	85	12.5	20.5
146	162	87.6	10445	180.95/180.90	181.04/181.00	92	13.5	21.5
159	176	95.3	12855	196.84/196.79	196.93/196.89	100	16.0	25.0
174	192	103.6	15187	215.89/215.84	215.98/215.94	109	17.0	27.0
190	210	112.8	18831	234.94/234.89	235.03/234.99	119	19.0	29.0
207	229	123.2	22529	253.98/253.93	254.10/254.04	130	20.0	32.0
225	251	136.7	26306	279.38/279.33	279.50/279.44	144	22.0	34.0
246	273	147.6	31668	301.61/301.56	301.73/301.67	157	23.0	37.0
269	297	160.0	37172	323.83/323.78	323.95/323.89	169	26.0	40.0
293	324	174.8	44614	355.58/355.53	355.70/355.64	182	26.0	42.0
320	354	191.0	52829	384.16/384.11	384.28/384.22	202	28.0	46.0



SECTION A-A

BEARING SERIES "8" PAD **ALL DIMENSIONS ARE IN MM**

Pad Series	Thickness		Collar			Anti Rotation Dowel			Total End Play	Approx. Weight kg
	Dim "G"	Dim "H"	Dia "K" O.D.	Dia "L" Undercut	Dim "M" Width	Rad "N" Dowel P.C.	Dia "P" Dowel	Dim "Q" Dowel Out		
103	25.5	5.50	117	59	17	57.0	6	10.0	0.30	1.26
112	28.0	6.00	127	64	19	61.0	6	10.0	0.30	1.52
123	30.0	6.25	140	70	21	67.5	6	10.0	0.30	1.78
134	34.0	7.25	152	76	22	73.0	8	10.0	0.35	2.63
146	36.0	7.25	165	84	25	79.5	8	10.0	0.35	3.32
159	41.0	8.75	179	92	27	86.0	8	10.0	0.35	4.30
174	43.0	9.00	195	100	30	94.0	10	10.0	0.40	5.36
190	46.0	9.00	213	110	32	104.0	10	12.0	0.40	7.29
207	52.0	11.00	232	119	35	112.5	10	12.0	0.40	8.56
225	56.0	11.00	254	132	38	122.5	12	14.0	0.50	12.41
246	61.0	12.75	276	141	43	134.0	12	14.0	0.50	15.98
269	65.0	12.75	300	156	48	145.0	16	14.0	0.50	19.16
293	68.0	13.00	327	170	51	157.5	16	15.0	0.50	25.63
320	76.0	14.50	357	187	56	171.5	20	15.0	0.60	32.26