BEARING SELECTION

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

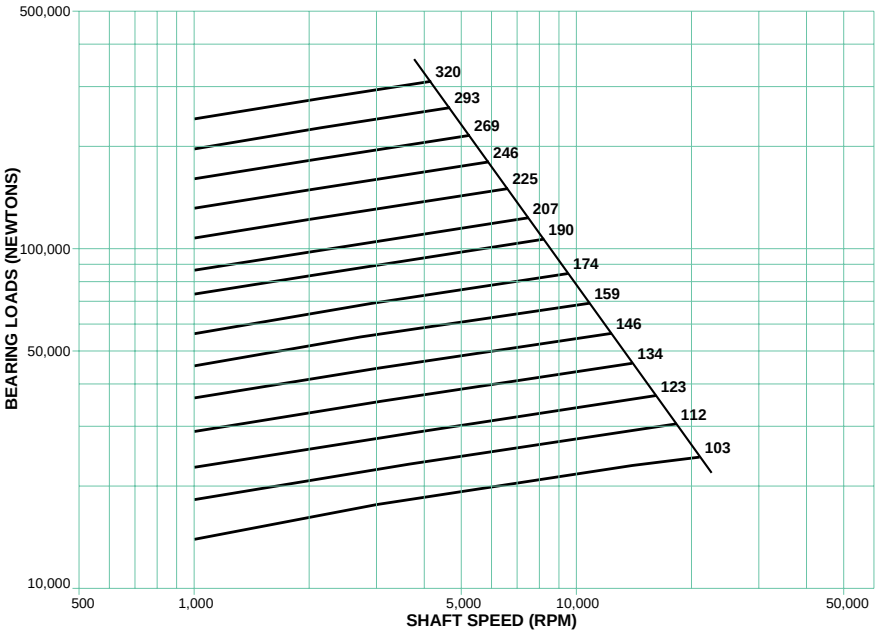
Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific recommendations.

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.

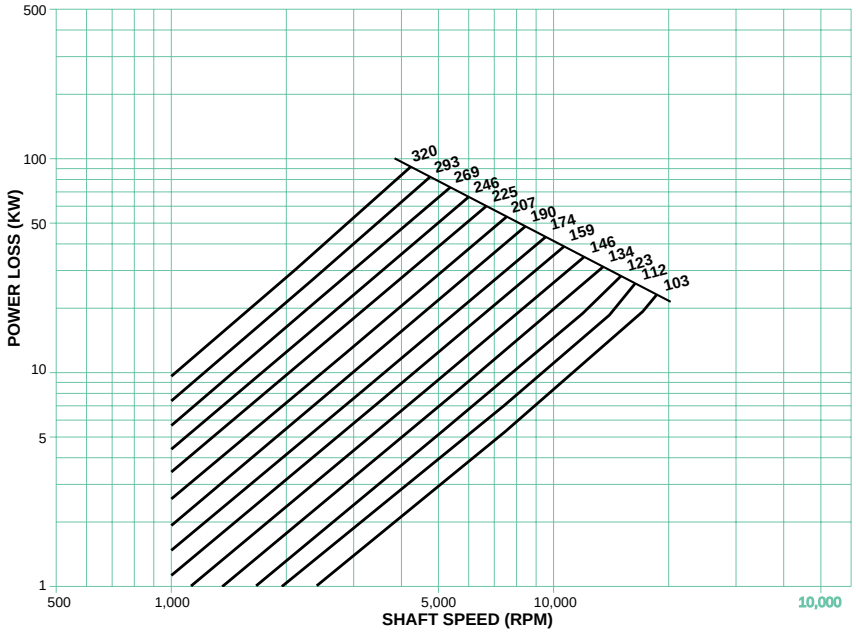
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

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.

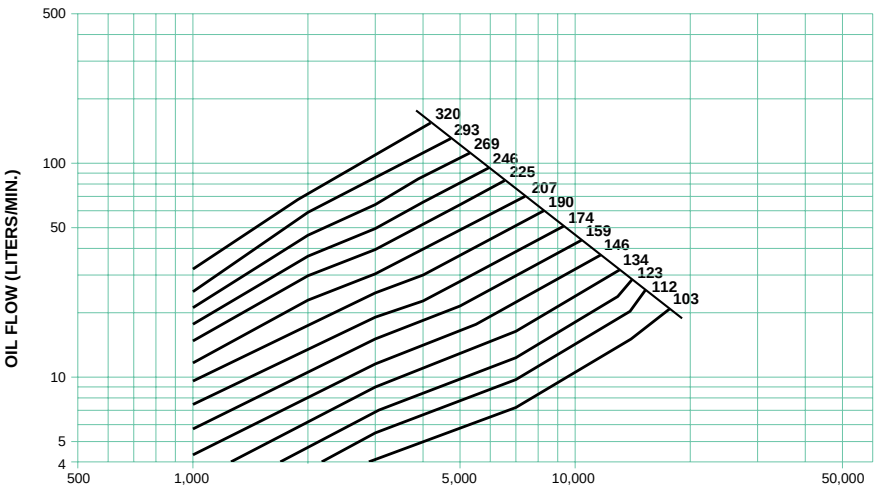
RATED LOAD FOR 11-PAD LEG BEARINGS



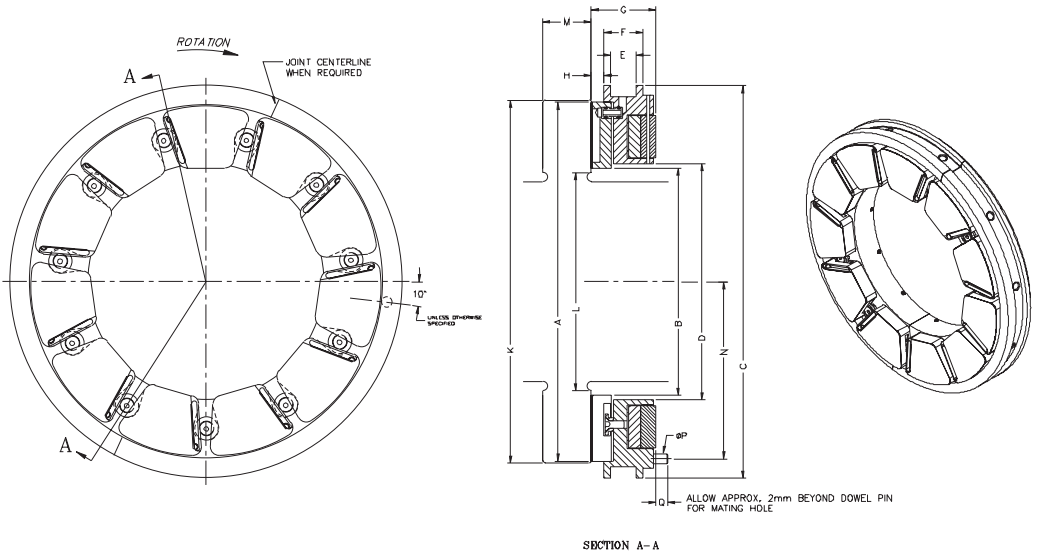
FRICTIONAL LOSS FOR SINGLE ELEMENT 11-PAD LEG BEARINGS



RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 11-PAD LEG BEARINGS



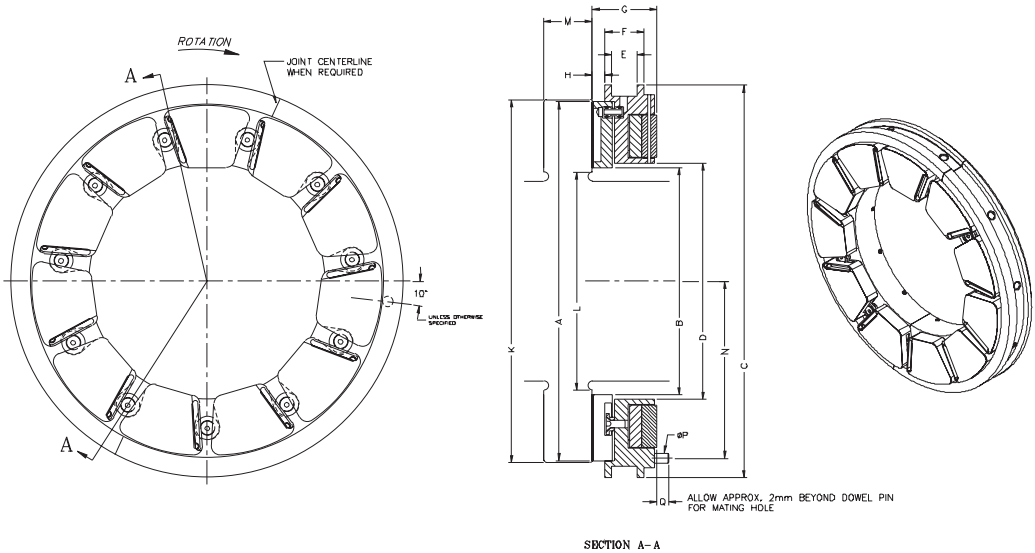
(Supply 4 l/min. below these curves.)



SECTION A–A

BEARING SERIES "11" 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	148	95.2	7073	168.27/168.23	168.35/168.31	98	9.0	15.0
112	162	105.1	8460	180.97/180.92	181.06/181.02	109	10.0	17.0
123	175	112.8	9990	196.84/196.79	196.93/196.89	117	10.5	17.5
134	191	122.4	12162	212.72/212.67	212.81/212.77	128	12.5	20.5
146	210	135.4	14362	234.94/234.89	235.03/234.99	141	13.5	21.5
159	229	147.8	17676	253.98/253.93	254.10/254.04	155	16.0	25.0
174	249	160.8	20882	279.38/279.33	279.50/279.44	168	17.0	27.0
190	271	175.0	25893	301.61/301.56	301.73/301.67	180	19.0	29.0
207	295	190.2	30977	323.83/323.78	323.95/323.89	198	20.0	32.0
225	324	209.5	36171	355.58/355.53	355.70/355.64	220	22.0	34.0
246	352	227.6	43543	384.16/384.11	384.28/384.22	240	23.0	37.0
269	384	247.6	51111	415.91/415.85	416.04/415.98	260	26.0	40.0
293	419	270.2	61344	454.01/453.95	454.14/454.08	282	26.0	42.0
320	457	294.6	72640	495.28/495.22	495.41/495.35	308	28.0	46.0



SECTION A–A

BEARING SERIES "11" 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	151	92	17	75.0	6	10.0	0.30	1.84
112	28.0	6.00	165	102	19	81.0	6	10.0	0.30	2.22
123	30.0	6.25	178	110	21	88.0	8	10.0	0.30	2.70
134	34.0	7.25	194	119	22	95.0	8	10.0	0.35	3.67
146	36.0	7.25	213	132	25	105.5	10	10.0	0.35	4.97
159	41.0	8.75	232	144	27	114.0	10	10.0	0.35	6.21
174	43.0	9.00	252	157	30	125.0	10	10.0	0.40	7.94
190	46.0	9.00	275	171	32	136.0	10	12.0	0.40	10.54
207	52.0	11.00	298	187	35	147.0	12	12.0	0.40	12.18
225	56.0	11.00	327	206	38	161.0	16	14.0	0.50	17.80
246	61.0	12.75	356	224	43	176.0	16	14.0	0.50	22.58
269	65.0	12.75	391	241	48	190.0	16	14.0	0.50	27.15
293	68.0	13.00	425	264	51	207.0	20	15.0	0.50	36.64
320	76.0	14.50	464	289	56	225.0	20	15.0	0.60	46.47