BEARING SELECTION

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

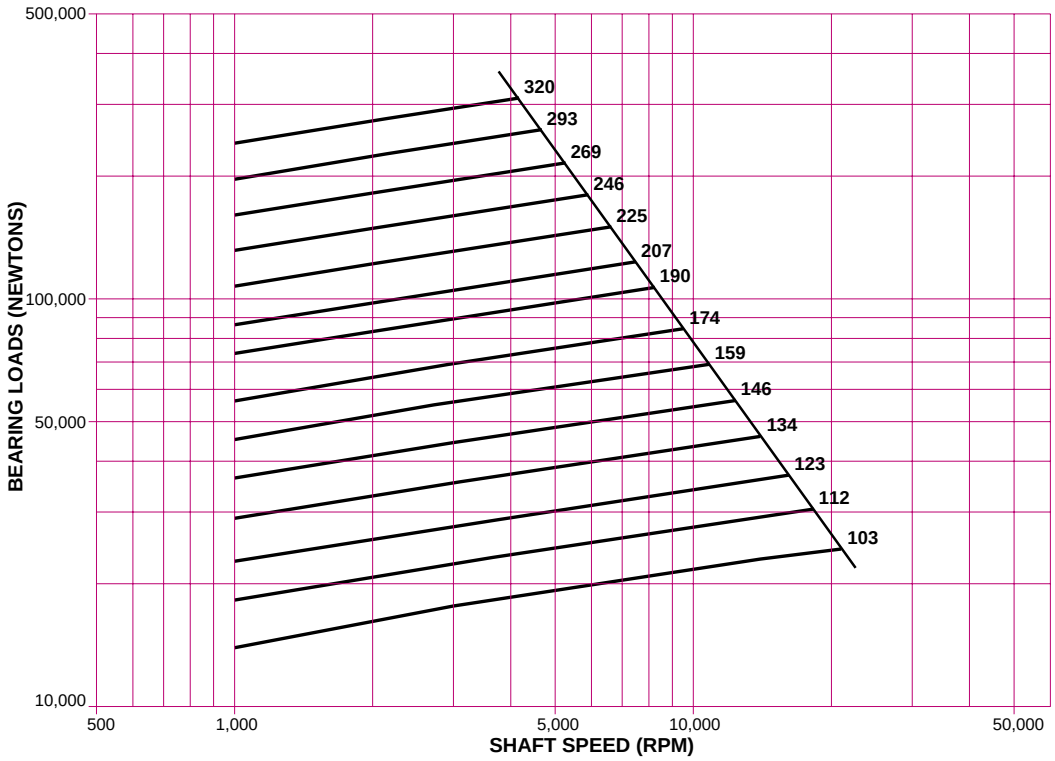
Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific recommendations.

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.

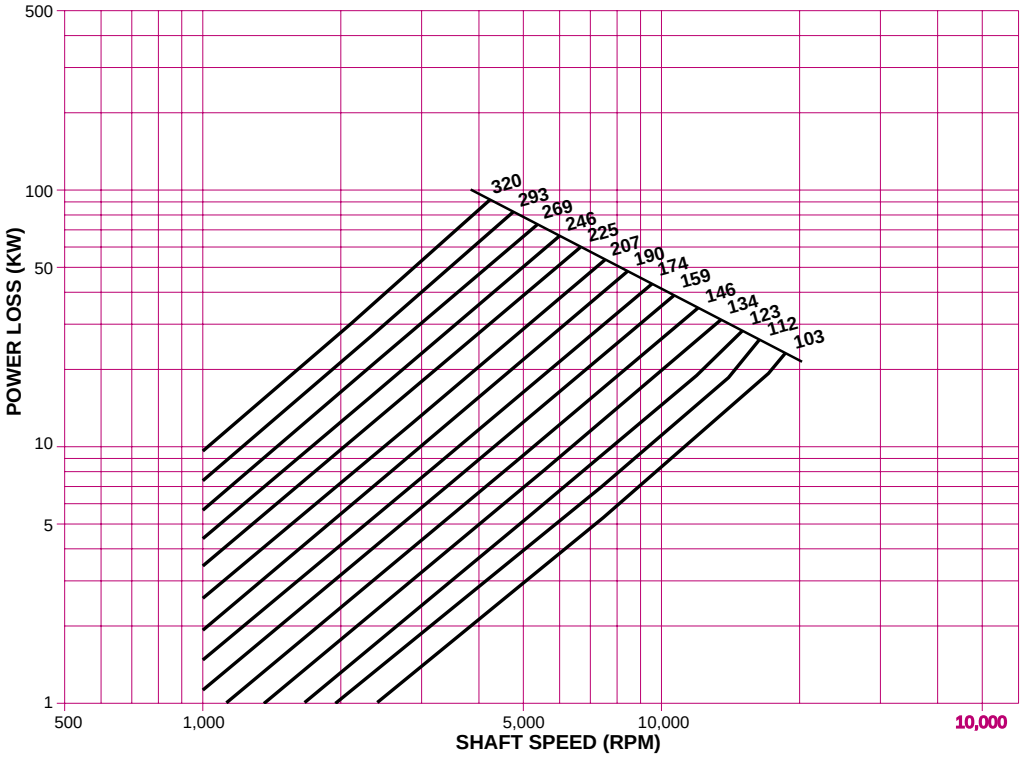
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

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.

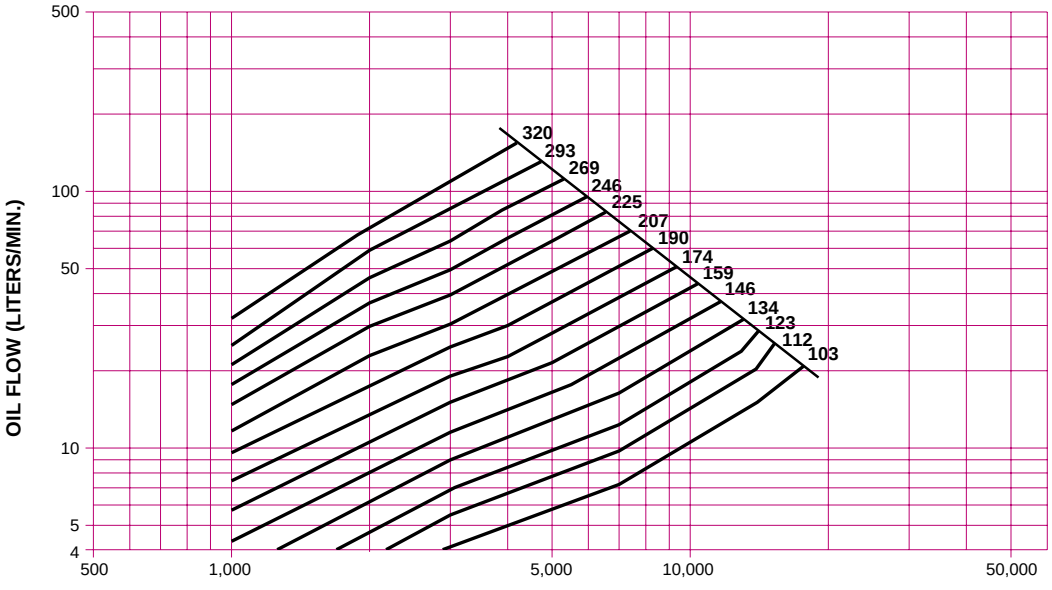
RATED LOAD FOR 11-PAD LEG BEARINGS



FRICTIONAL LOSS FOR SINGLE ELEMENT 11-PAD LEG BEARINGS

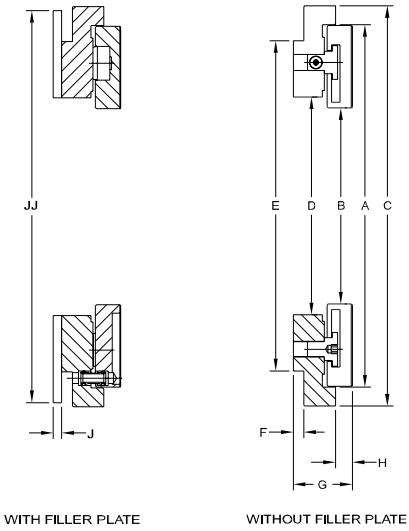


RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 11-PAD LEG BEARINGS



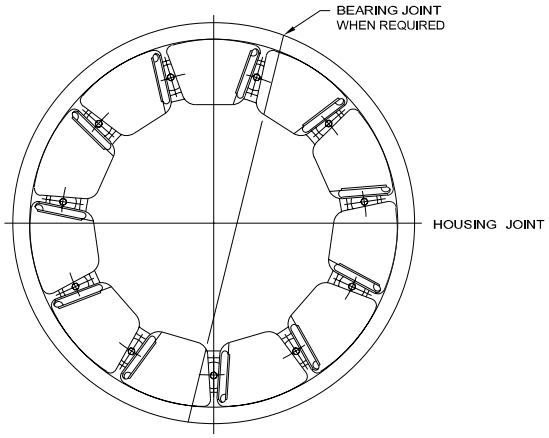
(Supply 4 l/min. below these curves.)

SERIES 11



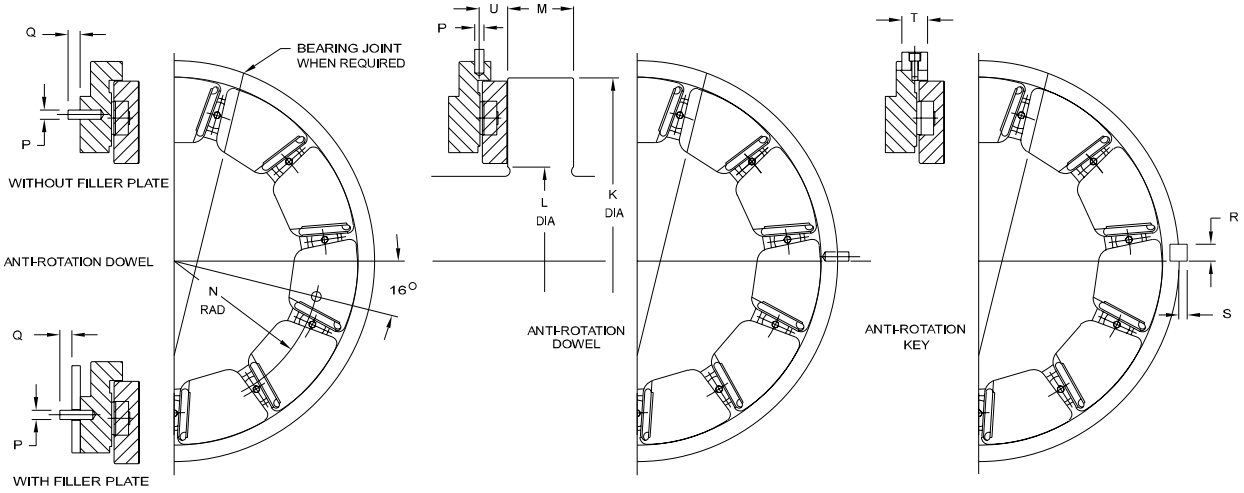
WITH FILLER PLATE

WITHOUT FILLER PLATE



BEARING SERIES "11" 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	148	95.2	7071	168.24/168.20	168.32/168.28	102	131.1	5.8	22.243/22.187	5.2
112	162	105.1	8459	180.93/180.88	181.03/180.98	112	145.3	6.8	23.823/23.767	4.8
123	175	112.8	9988	196.80/196.75	196.90/196.85	121	157.2	5.8	25.413/25.357	6.4
134	191	122.4	12162	212.68/212.63	212.78/212.73	133	174.8	6.7	27.003/26.947	6.0
146	210	135.4	14362	234.90/234.85	235.00/234.95	146	192.8	6.7	28.593/28.537	7.6
159	229	147.8	17678	253.94/253.89	254.05/254.00	159	211.1	7.2	30.173/30.117	8.1
174	249	160.8	20885	279.34/279.29	279.45/279.40	173	228.6	5.3	31.763/31.707	9.7
190	271	175	25892	301.57/301.52	301.68/301.63	188	247.7	7.5	34.943/34.887	9.9
207	295	190.2	30983	323.79/323.73	323.91/323.85	206	271.5	9.1	38.113/38.057	11.1
225	324	209.5	37712	355.54/355.48	355.66/355.60	223	300.0	8.0	41.295/41.224	12.3
246	352	227.6	43545	384.12/384.06	384.24/384.18	245	327.2	10.4	44.465/44.394	12.4
269	384	247.6	51113	415.86/415.80	415.99/415.93	267	357.1	10.4	47.645/47.574	14.6
293	419	270.2	61346	453.96/453.90	454.09/454.03	291	390.7	9.6	50.815/50.744	15.8
320	457	294.6	72643	495.23/495.17	495.36/495.30	317	425.5	13.0	57.165/57.094	17.1



BEARING SERIES "11" 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 "JJ"	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	162	4.8	151	92	17	61.0	6.4	7	-	-	-	11.2	0.30	1.75
112	175	4.8	165	102	19	67.0	6.4	7	-	-	-	10.7	0.30	2.18
123	190	4.8	178	110	21	72.0	7.9	8	-	-	-	12.4	0.30	2.73
134	206	4.8	194	119	22	79.0	7.9	8	-	-	-	14.0	0.35	3.34
146	228	6.4	213	132	25	87.0	9.5	8	-	-	-	15.6	0.35	4.34
159	248	6.4	232	144	27	95.0	9.5	8	-	-	-	16.1	0.35	5.38
174	273	6.4	252	157	30	105.0	9.5	8	-	-	-	17.7	0.40	6.73
190	295	6.4	275	171	32	113.0	11.1	8	-	-	-	17.9	0.40	8.98
207	317	6.4	298	187	35	122.0	12.7	10	15.9	5.6	22.2	-	0.40	11.11
225	349	9.5	327	206	38	135.0	15.9	13	15.9	5.6	22.2	-	0.50	14.62
246	378	9.5	356	224	43	146.0	15.9	13	15.9	5.6	25.4	-	0.50	19.45
269	409	9.5	391	241	48	160.0	15.9	13	19.1	6.4	28.6	-	0.50	22.59
293	448	9.5	425	264	51	175.0	19.1	13	19.1	6.4	28.6	-	0.50	28.90
320	489	9.5	464	289	56	191.0	19.1	13	19.1	6.4	31.8	-	0.60	39.56