BEARING SELECTION

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

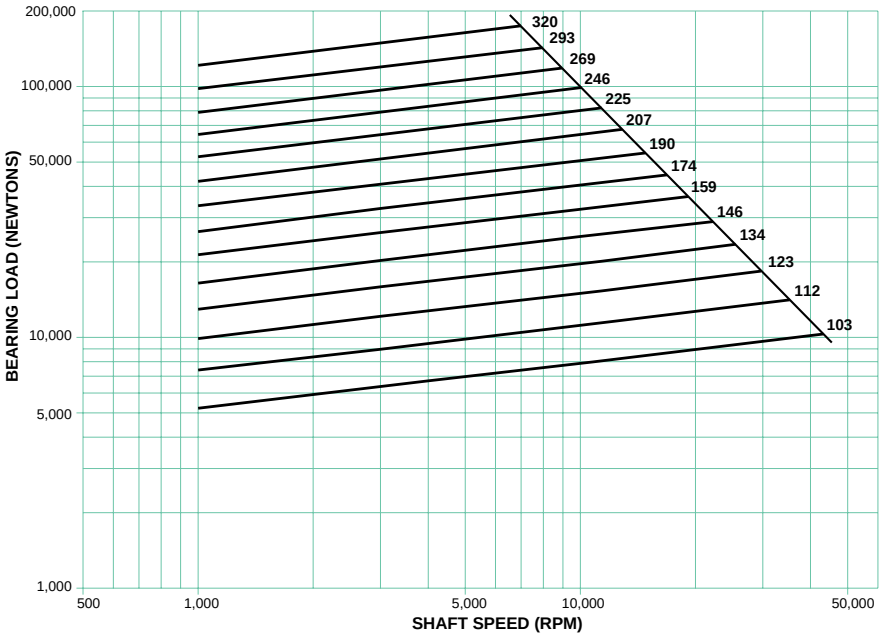
Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific recommendations.

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.

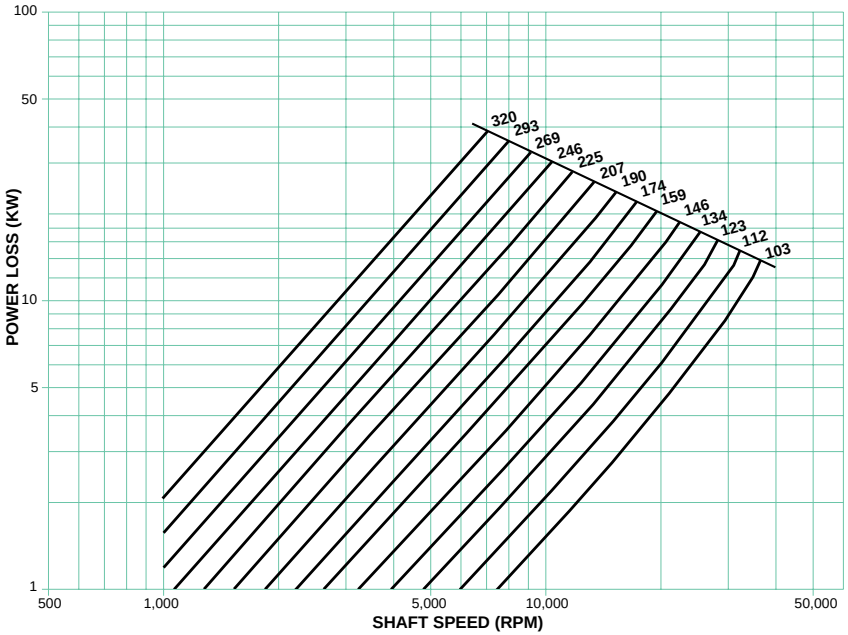
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

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.

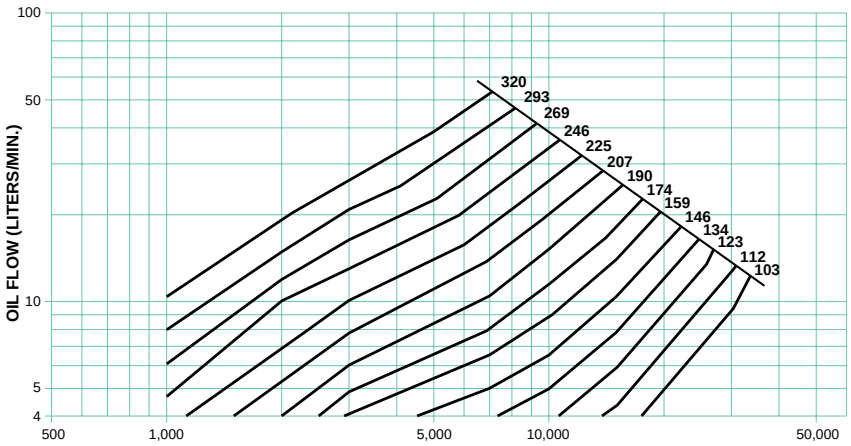
RATED LOAD FOR 6-PAD LEG BEARINGS



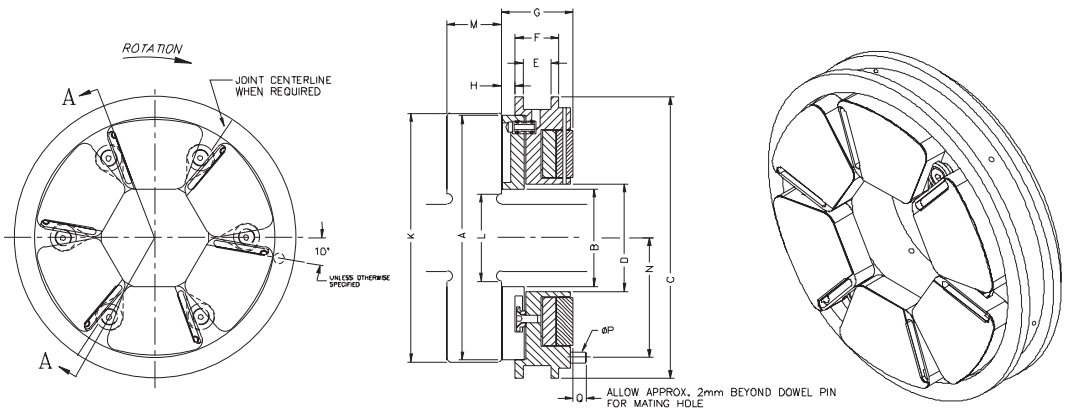
FRICTIONAL LOSS FOR SINGLE ELEMENT 6-PAD LEG BEARINGS



RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 6-PAD LEG BEARINGS

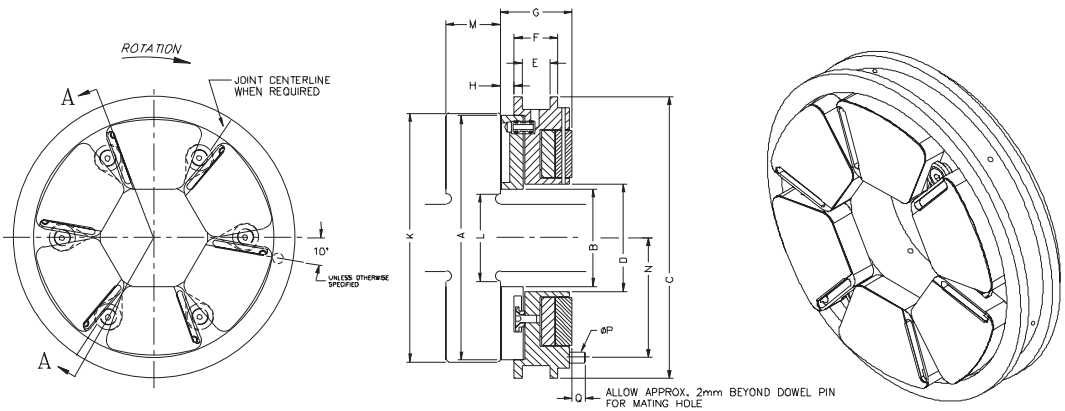


(Supply 4 l/min. below these curves.)



SECTION A–A

BEARING SERIES "6" 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	92	38.4	3858	107.91/107.88	107.99/107.95	44	9.0	15.0
112	100	41.7	4615	115.85/115.82	115.93/115.89	49	10.0	17.0
123	110	46.2	5449	126.96/126.92	127.04/127.00	54	10.5	17.5
134	119	49.3	6634	139.66/139.62	139.74/139.70	59	12.5	20.5
146	130	53.8	7834	147.60/147.56	147.68/147.64	63	13.5	21.5
159	143	59.9	9641	165.06/165.02	165.14/165.10	70	16.0	25.0
174	155	64.3	11390	179.35/179.31	179.43/179.39	76	17.0	27.0
190	168	69.6	14124	193.63/193.58	193.73/193.68	83	19.0	29.0
207	184	76.5	16897	209.50/209.45	209.60/209.55	89	20.0	32.0
225	200	81.0	19730	228.55/228.50	228.65/228.60	98	22.0	34.0
246	219	90.4	23751	247.60/247.55	247.70/247.65	108	23.0	37.0
269	240	99.8	27879	266.64/266.59	266.75/266.70	117	26.0	40.0
293	261	108.2	33461	292.04/291.99	292.15/292.10	129	26.0	42.0
320	286	119.1	39622	317.44/317.38	317.56/317.50	140	28.0	46.0



SECTION A–A

BEARING SERIES "6" 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	95	35	17	44.0	6	10.0	0.30	0.97
112	28.0	6.00	105	38	19	50.0	6	10.0	0.30	1.05
123	30.0	6.25	113	43	21	55.0	6	10.0	0.30	1.40
134	34.0	7.25	122	46	22	58.5	8	10.0	0.35	2.02
146	36.0	7.25	134	51	25	63.5	8	10.0	0.35	2.51
159	41.0	8.75	146	56	27	71.5	8	10.0	0.35	3.39
174	43.0	9.00	159	61	30	77.5	10	10.0	0.40	4.16
190	46.0	9.00	171	66	32	82.5	10	12.0	0.40	5.60
207	52.0	11.00	189	72	35	90.0	10	12.0	0.40	6.67
225	56.0	11.00	203	78	38	98.0	12	14.0	0.50	9.39
246	61.0	12.75	224	87	43	107.5	12	14.0	0.50	12.18
269	65.0	12.75	243	96	48	115.5	16	14.0	0.50	14.54
293	68.0	13.00	265	104	53	125.5	16	15.0	0.50	19.58
320	76.0	14.50	289	116	56	139.0	16	15.0	0.60	25.26