BEARING SELECTION

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

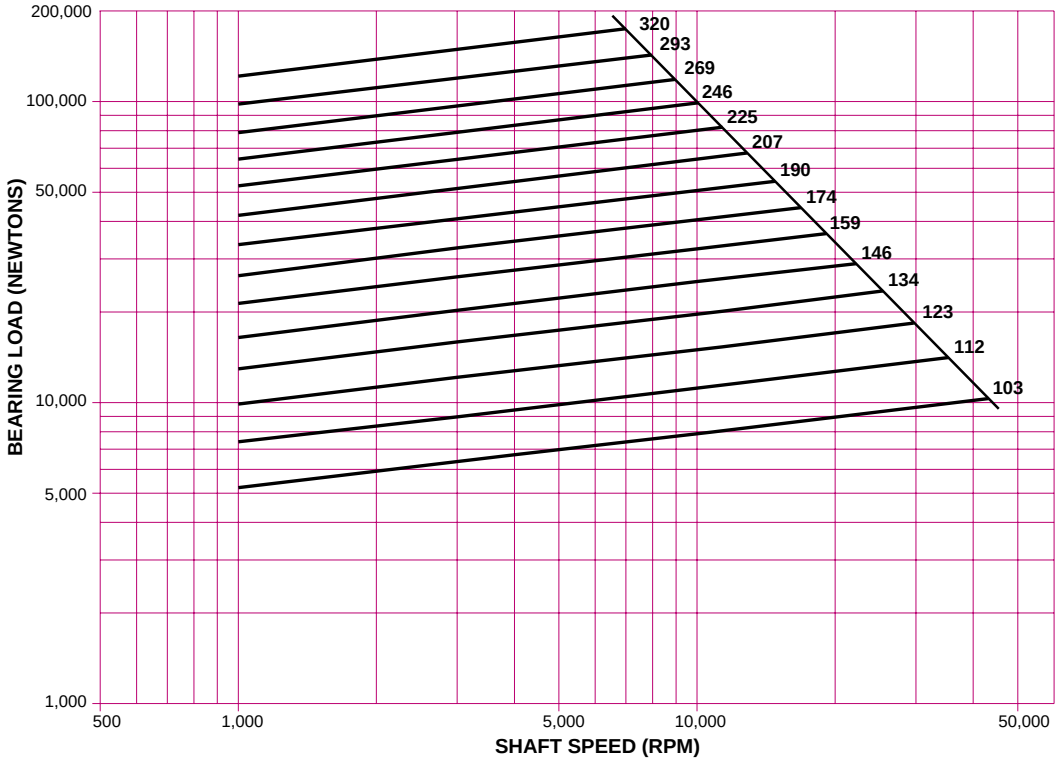
Size the bearing for normal load and speed when transient load and speed are within 20% of normal conditions. If transients exceed 120% of normal, please consult our Engineering Department for specific recommendations.

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.

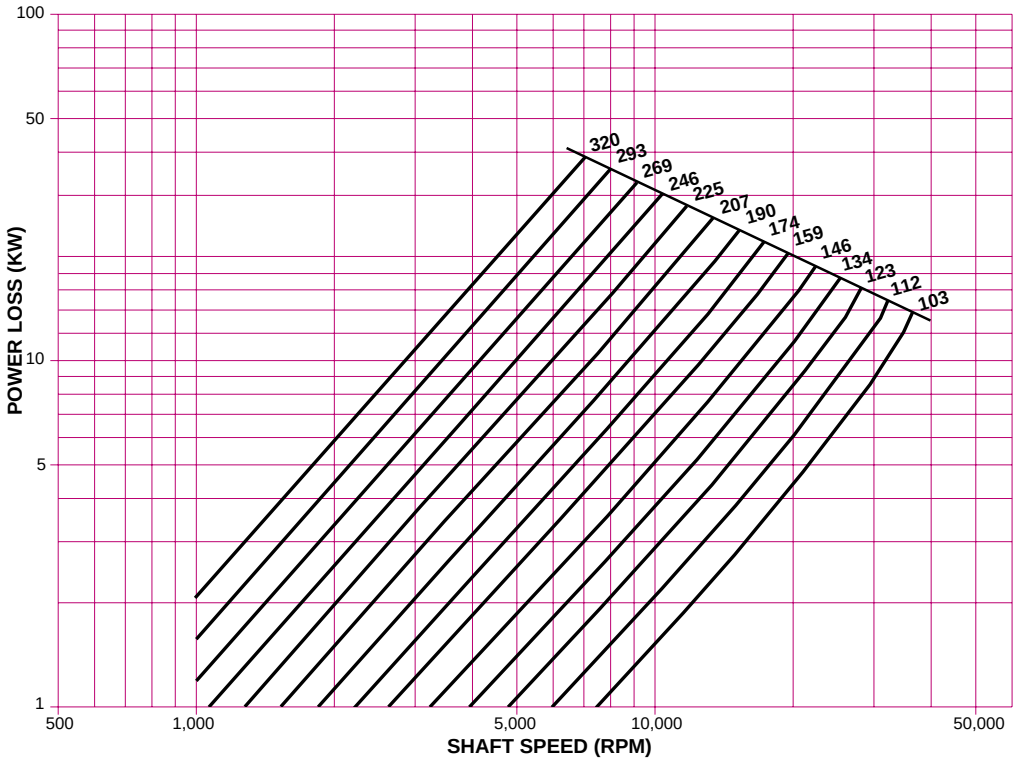
To calculate lubricant supply for double element bearings, add 20% to the values in these graphs.

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.

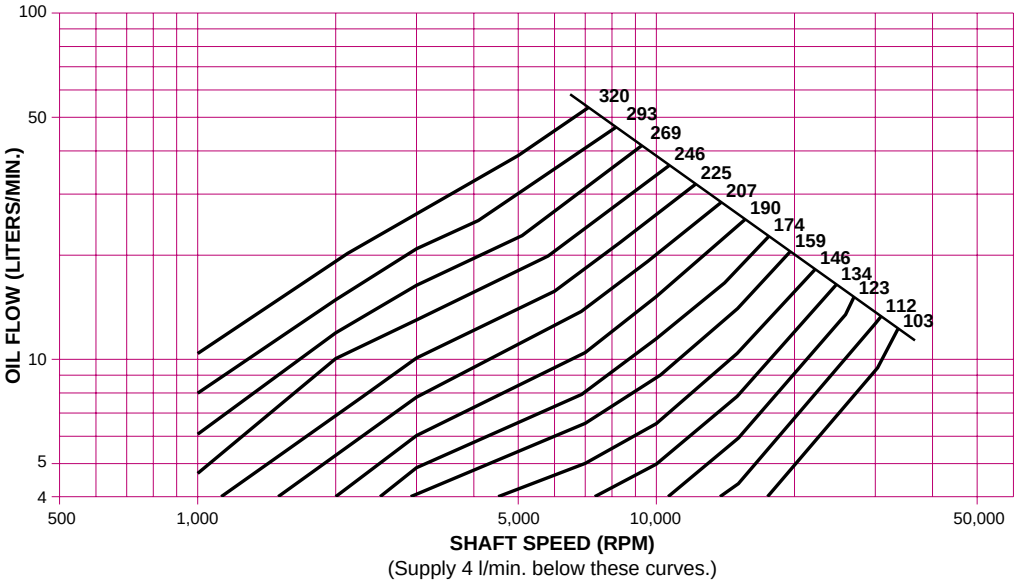
RATED LOAD FOR 6-PAD LEG BEARINGS



FRICTIONAL LOSS FOR SINGLE ELEMENT 6-PAD LEG BEARINGS

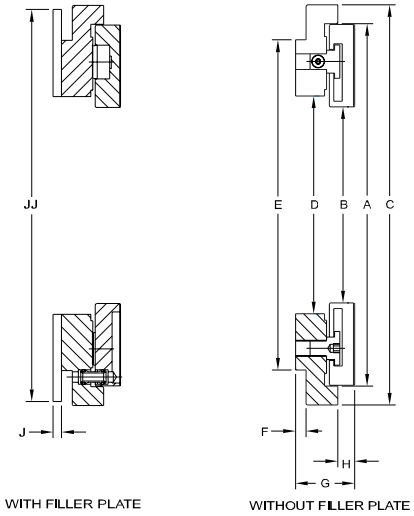


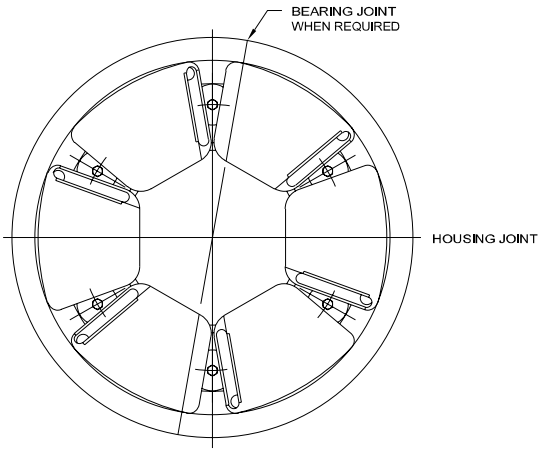
RECOMMENDED LUBRICANT SUPPLY FOR SINGLE ELEMENT 6-PAD LEG BEARINGS



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

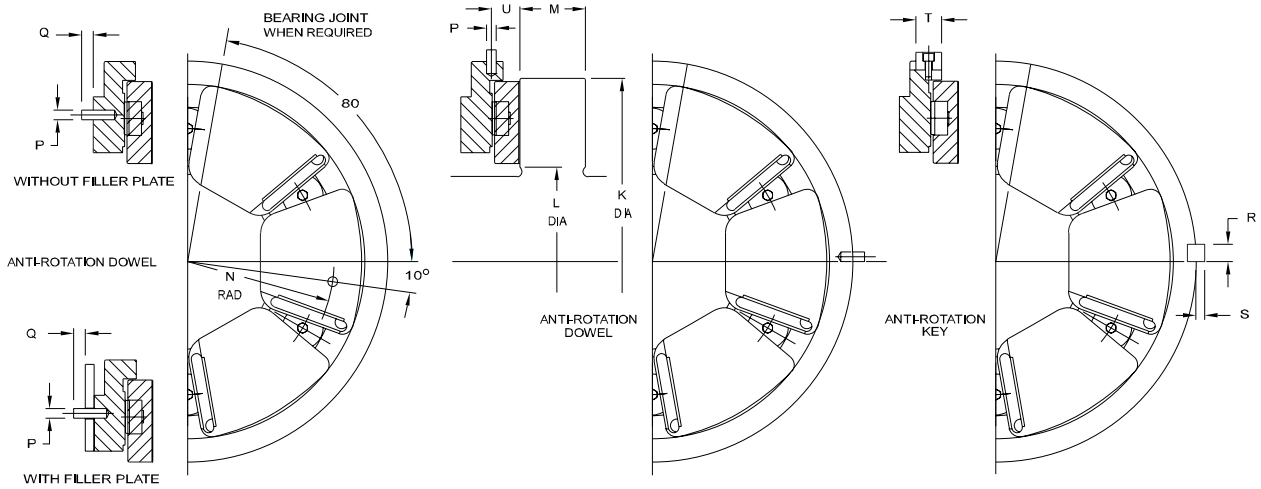
SERIES 6





BEARING SERIES "6" 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	92	38.4	3858	107.91/107.88	107.99/107.95	44	74.6	4	20.650/20.610	4.6
112	100	41.7	4613	115.85/115.82	115.93/115.89	49	82.5	5	22.243/22.187	5.2
123	110	46.2	5452	126.96/126.92	127.04/127.00	54	92.9	3.5	23.823/23.767	6.8
134	119	49.3	6633	139.66/139.62	139.74/139.70	59	103.1	5	25.413/25.357	6.4
146	130	53.8	7833	147.60/147.56	147.68/147.64	63	114.3	6	27.003/26.947	7.0
159	143	59.9	9639	165.06/165.02	165.14/165.10	70	127.0	6	28.593/28.537	7.6
174	155	64.3	11388	179.35/179.31	179.43/179.39	76	135.6	5.5	31.763/31.707	9.7
190	168	69.6	14123	193.63/193.58	193.73/193.68	83	146.0	8	34.943/34.887	9.9
207	184	76.5	16898	209.50/209.45	209.60/209.55	89	162.8	9	38.113/38.057	11.1
225	200	81.0	20569	228.55/228.50	228.65/228.60	98	176.2	10	41.295/41.224	11.3
246	219	90.4	23750	247.60/247.55	247.70/247.65	108	196.0	10.5	44.465/44.394	12.4
269	240	99.8	27879	266.64/266.59	266.75/266.70	117	215.9	10.5	47.645/47.574	14.6
293	261	108.2	33460	292.04/291.99	292.15/292.10	129	234.9	10.5	50.815/50.744	15.8
320	286	119.1	39622	317.44/317.38	317.56/317.50	140	257.0	13.0	57.165/57.094	17.1



BEARING SERIES "6" 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	102	4.8	95	35	17	33.3	4.8	5	-	-	-	9.6	0.30	.87
112	109	4.8	105	38	19	36.6	5.6	6	-	-	-	10.2	0.30	1.07
123	120	4.8	113	43	21	39.7	5.6	6	-	-	-	11.7	0.30	1.38
134	133	4.8	122	46	22	42.9	6.4	7	-	-	-	12.4	0.35	1.80
146	141	4.8	134	51	25	46.0	7.9	8	-	-	-	14.0	0.35	2.09
159	158	4.8	146	56	27	50.8	7.9	8	-	-	-	14.5	0.35	3.58
174	172	4.8	159	61	30	55.6	9.5	8	-	-	-	15.7	0.40	4.04
190	186	6.4	171	66	32	60.3	9.5	8	-	-	-	18.9	0.40	4.84
207	203	6.4	189	72	35	66.7	11.1	8	-	-	-	19.1	0.40	6.19
225	222	6.4	203	78	38	71.4	11.1	8	-	-	-	22.2	0.50	8.14
246	241	6.4	224	87	43	79.4	12.7	10	-	-	-	22.4	0.50	10.50
269	260	6.4	243	96	48	87.3	12.7	10	-	-	-	25.6	0.50	12.40
293	286	6.4	265	104	53	95.3	12.7	10	15.9	5.6	28.6	-	0.50	16.90
320	311	6.4	289	116	56	103.2	15.9	13	15.9	5.6	31.8	-	0.60	21.81