Frictional Resistance Moment for Flat Ring Bearing Calculator		
Cells with this this background (light blue) color are editable		
Ring and flat circular bearing outside diameter, D =	16.000	in
Ring bearing Inside diameter, d =	10.000	in
Total axial load, L =	10,100.0	lbs.
coefficient of sliding friction, f =	0.120	1
rotational speed, n =	750.000	revs/min
absolute viscosity, μ =	6E-05.000000	centipoises
angular velocity, ω =	78.54	rad/min
oil viscosity, Z =	30.000	centipoises
Oil film thickness, h =	0.00600	in
Calculated Results		
Eq. 1, Ring-shaped step bearing frictional moment , M =	8017.8	in-lbs.
Eq. 2, flat circular step bearing frictional moment, M =	6464.0	in-lbs.
Eq. 3, Hydrostatic thrust bearing frictional moment, M =	310.8	in-lbs.
Eq. 4, Hydrostatic thrust bearing frictional moment, M =	4282.2	in-lbs.