

ABSTRACT

Hydrodynamic Journal Bearing Flow Control Bushing for a Rotating Control Device

A rotating control device comprises an outer housing having a bore for receiving a tubular member. An inner housing and a piston assembly are rotatably disposed within the outer housing. An annular sealing assembly is disposed between the piston assembly and the inner housing so that axial movement of the piston assembly moves the annular sealing assembly into sealing engagement with the inner housing and the tubular member. A plurality of bearings is disposed between the inner housing and the outer housing. At least one of the plurality of bearings is a hydrodynamic journal bearing.

Figure 1