

CYLINDER HAVING A FLOATING PISTON, LOW PROFILE SWIVEL CAP, AND LUBRICATED ROD

ABSTRACT

A swivel assembly for an actuator includes: a rod defining a socket, the rod defining an arcuate surface at the floor of the socket; a cap dimensioned to fit into the socket, the cap defining a convex arcuate surface dimensioned to correspond to the arcuate surface of the floor of the socket; a first extended surface defined by the rod, the first extended surface, defined at least in part, by side portions of the socket providing depth to the socket; a second extended surface defined by the cap providing an extended length to the cap to allow the cap to extend out of the socket when the convex arcuate surface of the cap contacts the arcuate surface of the floor of the socket; and a cylinder assembly operatively connected to a piston and the cap to permit the piston and cap to move axially along a longitudinal axis of the cylinder assembly to move inwardly and outwardly of the cylinder assembly.

Figure 1