



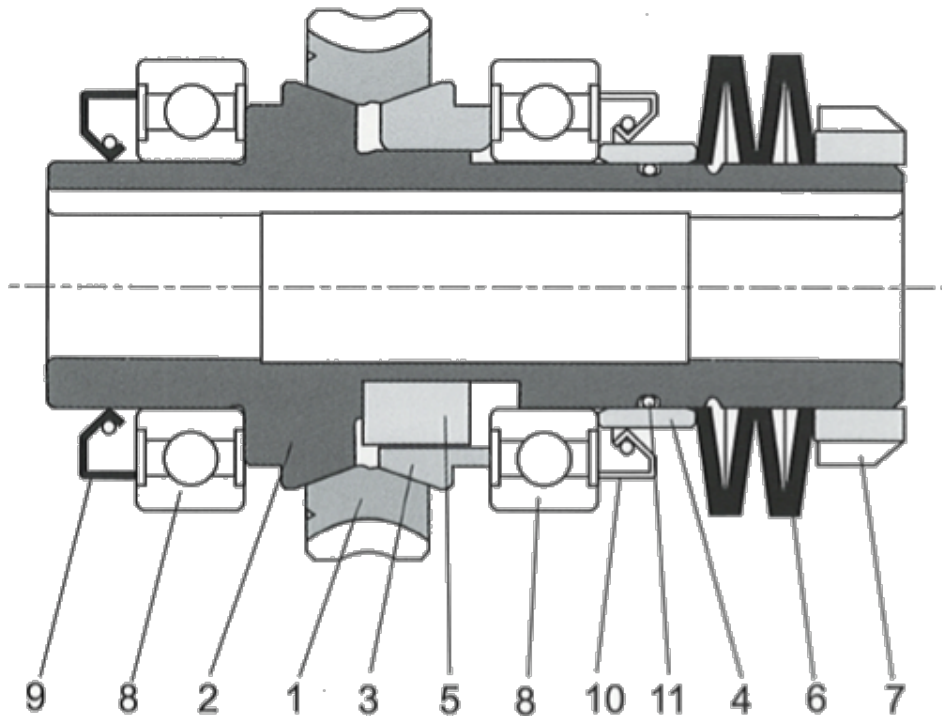
Made in Italy...Loved in America

TVT America, LLC

PO BOX 998

Branson, MO 6561

ITL Integrated Torque Limiter



Item Description

1. Bronze Gear
2. Hollow Bore
3. Slip Ring
4. Thrust Ring
5. Key
6. Belleville Springs
7. Adjusting Nut
8. Bearing
9. Viton Seal
10. Viton Seal
11. O-ring

Radial force is transferred into Axial Force by the lockable Adjusting Nut 7 to the Belleville Springs 6 which compress to store the desired force which is applied to the Thrust Ring 4, which in turn transfers axial force to the inner raceway of the radial ball bearing 8, which transfers the axial force to the Slip Ring 3. The conical design of the steel slip rings outer raceway applies axial and radial force upon the Bronze Gear 1.

During normal operation the worm gear applies force to the worm wheel 1, which is transferred to the hollow bore 2 and the keyed 5 slip ring. **Upon Overload**, the bronze gear will slip at a pre-set torque, adjusted by Nut 7.

Because the components of the torque limiting mechanism are of bronze & steel operating in a synthetic lubricated oil environment, wear and adjustment due to wear, is minimal as compared to friction disc type torque limiters.