

# TIDESMARINE

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## ADVANTAGES OF SureSeal™ OVER FACE SEALS

### SureSeals™

The SureSeal housing and bearing is one piece. The bearing surface holds the lip seal 'true' on the shaft. As a result, impact or pressure on the SureSeal cannot cause misalignment

The precision machined PTFE bearing and FRP housing combination operates through a broad range of RPM's, positioning the SureSeal's nitrile lip seal evenly around the shaft OD

Once the SureSeal is on the shaft, the lip seal cannot be misaligned

With the use of the Spare Seal Carrier, the nitrile lip seal can be replaced without removing the shaft from the transmission coupling

Water pressure created by the marine engine's raw water cooling system is less than 1/3 the safe working load of the SureSeal's nitrile lip seal

The Tides Marine SureSeal has no moving parts .... It remains motionless on the spinning shaft

Centrifugal force throws debris or foreign material away from the lip seal positioned on the shaft

### FACE SEALS

Each half of a face seal is mounted independently. Side loads of even a fraction of a pound can cause misalignment and leaking

Face seal are sensitive to RPM variations. High RPM may cause the faces to bounce ..... compromising the integrity of the sealing surface

If the bellows, spring loaded hose or rubber cup are misaligned at the time of installation, leaking will occur

Replacing either side of the face seal requires the removal of the shaft from the transmission coupling

Water lubricated units are sensitive to changes in water pressure. An increase in pressure can change the shape of the bellows, moving the two faces away from each other. Leaking follows

The face seal half attached to the propeller shaft is held in place with set screws or clamps. Spinning at hundreds to thousands of RPM's it can work its way away from the seal half on the bellows

The spinning shaft throws debris and foreign matter towards the face seal which can inhibit proper function



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