

### Construction of the oil seal

#### DIN 3760/3761

DIN 3760/3761 describes the standardisation of design, dimensions and tolerances of Oil Seals.

DIN	Standard 3760/3761	ERIKS type
A	rubber covered	R
AS	as type A with dust lip	RST
B	metal cased design	M
BS	as type B with dust lip	MST
C	double metal cased	GV
CS	as type C with dust lip	GVST

#### Type R

The most commonly used type is type R. This type has a carbon steel insert and has rubber outside diameter. The rubber gives a good sealing capability, even when the housing is not fully in tolerance. The sealing lip with spring provides interference on the shaft for effective sealing. The outside diameter, with inner metal reinforcement case, allows press-fitting in the housing, with sufficient interference on the rubber to provide static sealing. The sealing element is produced from a high performance Nitrile rubber. This in combination with a high quality galvanised steel garter spring gives the ERIKS Oil Seal an optimum life. In order to prevent leakages due to a hydrodynamic pumping effect it is necessary that the sealing lip contact area on the sleeve or shaft is without any traces of machine lay.

#### Metal components

Depending on the application, ERIKS Oil Seals are supplied with various types of metal.

#### The reinforcing case

Carbon steel as standard but stainless steel or brass on demand.

#### Type GR

This type is fully covered with rubber on the inside of the reinforcing case. ERIKS GR Viton® Oil Seals are of this type and are fitted with a stainless steel garter spring. This type can also be supplied in Nitrile rubber on demand.

#### The garter spring

Galvanised steel as standard. Stainless steel, bronze or an elastomer can be supplied on demand.

