



## WA FKM

Rotary shaft seal in standard design referring to DIN 3760 with a Elastomer encased metal insert and a spring-energised sealing lip. In addition, the standard model is available with a protective lip (WAS) on the air side.

### DESCRIPTION

**Product group:** Rotary shaft seal

**Design: A =** outer surface rubber-coated

**Seal material:** FKM 80

**Colour:** brown

**Stiffening ring:** non-alloy steel according to DIN EN 10139

**Tension spring:** unalloyed spring steel according to DIN EN 10270-1

**Optional:** rust and acid resistant steel 1.4301 (AISI 304)

### MEDIA

- Mineral oils and greases
- synthetic oils and greases
- engine, gear and ATF oils
- fuels
- aromatic and chlorinated hydrocarbons
- broad chemicals and solvents resistance

### AREAS OF APPLICATION

Sealing of rotating machine elements such as shafts, hubs and axles.

### FUNCTION

The WA FKM is a single acting rotary shaft seal for rotating or pivoting shafts with optional protective lip sealing action (WAS) on the side facing away from the medium against dirt accumulation from the outside. The elastomer outer sheath provides good static sealing, good thermal expansion balance, e.g. in light-metal housings, better sealing with greater roughness and secure sealing for split housings as well as good static sealing with thin liquid or gaseous media. FPM is superior to the NBR materials for high temperature applications, high peripheral speeds and chemically aggressive media. The combination of FKM and the optional tension spring made of rust and acid resistant steel permits application in various aggressive media.

### OPERATIONAL APPLICATION LIMITS

Pressure (MPa/bar):  $\leq 0.05/0.5$

Temperature (°C): -30 to +200

Peripheral speed (m/s):  $\leq 35$

### INSTALLATION

Suitable tools should be used for installation. It is recommended that the installation housing is designed to provide the rotary shaft seal with axial support.

## REMARKS

The nominal widths mentioned on the following pages represent the standard dimensions. They are generally in stock or can be delivered at short notice.

Other dimensions and different designs, e.g. double dust protection lip, spiral on the sealing lip, springs or metal inserts made of other steel grades can be produced as well as all kinds of special designs. Minimum quantities may be obligatory for dimensions outside of the standard.

