

SIMMERRING CASSETTE SEAL TYP 1



PRODUCT DESCRIPTION

Complete unit consisting of a Simmerring and an integrated running surface. Economical system solution with integrated labyrinth to protect against extreme soiling. The integrated running surface meets the high demands placed on dynamic seals.

PRODUCT ADVANTAGES

- Lengthening of maintenance interval for individual units
- Shaft must not be hardened or ground
- Old solution can usually be replaced by Simmerring Cassette Seal without change to housing
- The shaft must not be machined on maintenance or seal replacement

PRODUCT PROPERTIES

- Design: special types, on enquiry
- Outer casing: elastomer/sheet metal
- Spring-loaded sealing lip
- Additional dust lips
- high resistance to dirt ingress
- Robust solution

APPLICATION

These examples of use provide general information on the primary applications for Simmerring Cassette Seals and their performance in relation to dirt from the outside. Simmerring Cassette Seals (types 1, 2 or 3) must be selected taking into account the application conditions (shaft speed, oil temperature, etc.).

- Propeller shafts*, hubs and pinions on axles of commercial vehicles (lorries, buses, trailers, special vehicles)
- Pinions on axles of construction machinery (road rollers, excavators, fork-lift trucks, mixers) and agricultural machinery (tractors)

- Power take-off drives of construction machinery (road rollers, excavators, fork-lift trucks, mixers)
- Forage chopper

* With axial shaft movement, special design necessary.

MATERIAL

Material	Fluoro elastomer
Code	75 FKM 595
Colour	Red brown

Components

Metal insert	Unalloyed steel DIN 1624 – EN10139
Spring	Spring steel 17223

OPERATING CONDITIONS

T	≤ +100 °C
v	≤ 9 m/s
p	≤ 0,05 MPa

For material definitions, it must be taken into account that it is possible that not all extreme conditions will occur simultaneously.

FITTING & INSTALLATION

Shaft

Tolerance	ISO h8
Runout	IT 8
Roughness	R _z = 10 ... 16 µm

Housing bore

Tolerance	ISO H8
Roughness metal outer surface OD	R _z = 10 ... 16 µm

Careful fitting according to DIN 3760 is a prerequisite for the correct function of the seal → Technical Manual. Further information on enquiry.

Range of dimensions for shafts-Ø d1

Simmerring Cassette Seal Typ 1	55,00 ... 133,35 mm
---------------------------------------	---------------------