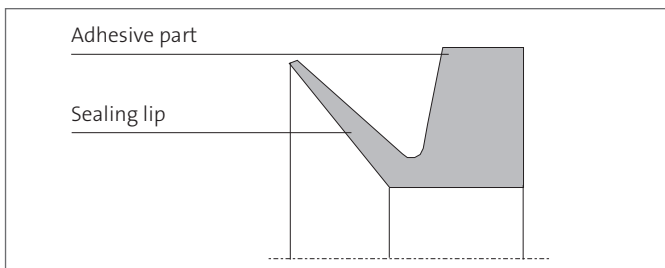


MERKEL V-RING WA-A



Merkel V-Ring WA-A is a seal with an axially acting, wear resistant sealing lip. The type WA-A is the standard version for small housings.



VALUE TO THE CUSTOMER

- Very low friction
- Good functionality even at large axial shaft offsets
- Easy installation

Applications

V-Ring for the use at rolling mill bearings for grease retention and for the protection against dust, scale, water, water/oil emulsions and similar media.

Material

Material	Designation
Nitrile rubber	NBR
Fluoroelastomer	FKM

Material HNBR on request.



FEATURES AND BENEFITS

Operating conditions

Material	NBR	FKM
Mineral oils	–	–
Water	+5 ... +100 °C	+5 ... +80 °C
Lubricating greases	–40 ... +100 °C	–20 ... +150 °C
Rolling oil emulsion	–	–
Pressure	0,03 MPa	0,03 MPa
Sliding speed	20 m/s*	20 m/s*

* The indication is based on stationary water guards.
Rotary seals have different limits.

Surface finish

Peak-to-valley heights	R_a	R_{max}
Sliding surface	$\leq 0,8 \mu\text{m}$	$\leq 2,5 \mu\text{m}$
Housing	$\leq 4 \mu\text{m}$	$\leq 15 \mu\text{m}$

The surface hardness of the sliding surface should be approx. 30 HRC. Profile bearing length ratio $t_p > 50\%$ up to max. 90% at average depth $c = R_z/2$ and reference line $C_{ref} = 0\%$

Design notes

