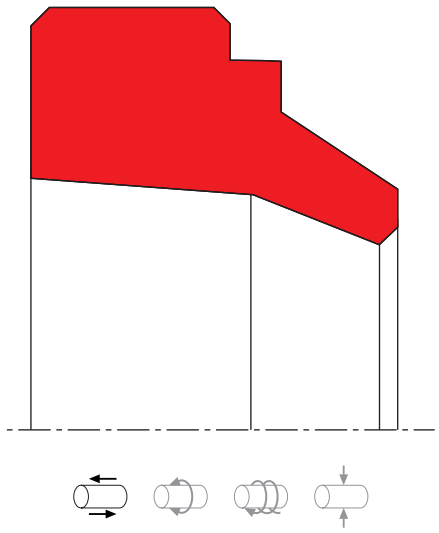
SEAL SPEC
A01-B



description

as profile A01-A, but without back support area for housings according ISO 6195 - Type A.

+ the seal profile and close machining tolerances provide a good static seal for the outside diameter, assisting in the prevention of ingress of humidity and foreign matter via the outside diameter.
+ the design of the wiping lip aids the recovery of residual oil film while exclusion of foreign matter is maintained.
+ pressure build-up on the trailing side is to be avoid if possible.

category of profile

machined or molded/standard/trade product.

single acting

the A01-B seal is designed for use as a wiper.

area of application; hydraulics

- reciprocating rods on hydraulic cylinders.
- push rods and valve stems.
- (materials must be selected according to operating requirements).
- the profile is not suited for mounting space according to ISO 6195-1986 Type A, design A01-A should be used.

function

A01-B wipers are designed to keep dust, dirt, sand and metal chips from the sealing and guiding elements, thereby avoiding abrasive damage caused by external contamination.

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operating parameter & material

sealing element	material energizer	back-up ring	temperature	max surface speed	hydrolysis	dry running	wear resistance
PU			-30 °C ... +110 °C	4 m/s	-	+	++
HPU			-20 °C ... +110 °C	4 m/s	++	+	++
LTPU			-50 °C ... +110 °C	4 m/s	-	+	++
SPU			-20 °C ... +110 °C	5 m/s	++	++	++
GPU			-30 °C ... +110 °C	4 m/s	++	+	++
NBR			-30 °C ... +100 °C	4 m/s	-	-	o
FKM			-20 °C ... +200 °C	4 m/s	-	-	o
EPDM			-50 °C ... +150 °C	4 m/s	++	-	o
HNBR			-25 °C ... +150 °C	4 m/s	+	o	+
XPU			-30 °C ... +110 °C	4 m/s			
XHPU			-20 °C ... +110 °C	4 m/s			
XSPU			-20 °C ... +110 °C	5 m/s			

attention: not suitable for mineral oils!

++ particularly suitable + suitable o conditional suitable - not suitable

the stated operation conditions represent general indications. it is recommended not to use all maximum values simultaneously. surface speed limits apply only to the presence of adequate lubrication film.

for detailed information regarding chemical resistance please refer to our "list of resistance". for increased chemical and thermal resistance rubber materials are to be preferred, polyurethan materials increase wear resistance.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	according to seal data	
bottom of groove	≤6,3	≤1,6
groove face	≤15	≤3

tolerance recommendation

seal housing tolerance	
L < 10 mm	0,2
L ≥ 10 mm	0,3
D1	H11
D	H11

cs	R[mm]
≤ 5	max. 0,3
>5.....≤ 7,5	max. 0,4
>7,5....≤ 10	max. 0,6
> 10	max. 0,8

mode of installation

the prerequisites for perfect functioning are careful fitting and an accurately dimensioned mounting space. in general, wipers snap easily into their housings when distorted into a kidney shape (over 20mm diameter). when mounted in cylinders that cannot be dismantled, the rings can also be cut open. in such cases, an approx. 2-3% larger diameter should be chosen. when the wiper is installed, the two ends are snapped into place first, and then the entire ring is pressed in along the entire circumference. no gluing of the joining ends is required.

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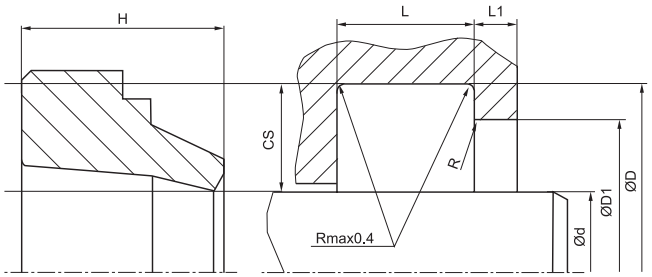
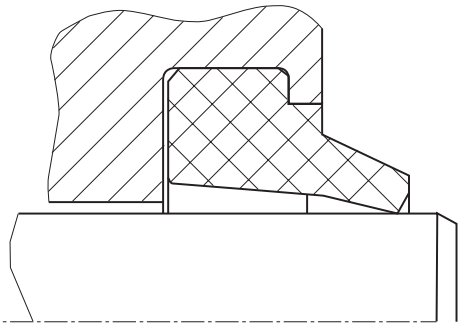
seal & housing recommendations

please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog...



fitted



H [mm]	L1 [mm]
≤ 7	1
10	1,5

the L1 measurement, which is dependent on the height of the wiper, is selected as follows