



## SEAL DATA SHEET

### A08-B



3D Seals > Hydraulics & Pneumatics > WIPER



#### Description

A08-B with radius, wiper usually fixed in housing with clamp flange. mainly used for replacement in old hydraulic and pneumatic cylinders or for secondary applications.



For symbols that are not bold, please consult our technical for application limitations.

- In most cases the wipers are retained by the use of clamp rings. They are mainly used as replacement parts in old pneumatic and hydraulic cylinders and, to a lesser extent, as push rod sealing in water hydraulic applications.
- The design of the wiping edge aids recovery of the residual oil film; any dirt is wiped off reliably.
- Design A08-B with radius.
- Pressure build-up is to be avoided if possible.

#### Single Acting

The A08-B is designed for use as a rod wiper.

#### Area of Application: Hydraulics

Reciprocating rods on hydraulic cylinders  
Push rods and valve stems (Materials must be selected according to operating requirements)

#### Note

- This seal has the correct functioning dimension only when mounted. When slipping the seal over the piston rod, it may appear too large.

#### Function

A08-A and A08-B wipers are designed to keep dust, dirt, sand and metal chips away from the sealing and guiding elements, thereby avoiding abrasive damage caused by external contamination.

#### Operating Parameters & Material

Diameter range: up to 600 mm

Material	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	++	+	'++
TPU	-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	-	-	0
FKM	-20 °C ... +110 °C	4 m/s	-	-	0
EPDM2	-50 °C ... +150 °C	4 m/s	'++	-	0
HNBR	-50 °C ... +150 °C	4 m/s	+	0	+

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

- 1. Pressure ratings are dependent on the size of the extrusion gap.
- 2. Attention: not suitable for mineral oils!
- ++ ... particularly suitable            O ... conditional suitable
- + ... suitable                                - ... not suitable

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	R <sub>tmax</sub> (µm)	R <sub>a</sub> (µm)
Sliding surface	According to seal data	
Bottom of Groove	≤6.3	≤1.6
Groove Face	≤15	≤3

**Tolerance Recommendation**

Seal Housing Tolerances	
d	Refer Seal data
D1	H11
D	H11