



K11 is a single acting scrapper ensuring that foreign particles do not penetrate into the hydraulic cylinders, avoiding wear and damage to all the internal components including seals.

PRODUCT ADVANTAGES

- Superior scraping effect
- Simple, easy-construction groove
- No twisting in the housing
- Design in a way that the wiping lip contacts with the rod surface to remove heavily deposited mud, ice, etc so that the particles do not enter into the cylinder
- Outside diameter contacts the housing and has a sealing lip to prevent moisture entering the groove.

APPLICATION

Especially used in heavy construction machinery that operate in the open field, telescopic cylinders, cranes, mining equipment and loading platforms.

MATERIAL	CODE
TPE	TP7301

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-40°C +120°C	+5°C +60°C	-30°C +60°C
SPEED	≤2.0 m/sec	≤2.0 m/sec	≤2.0 m/sec

Note: The above data are maximum values and cannot be used at the same time.

SURFACE ROUGHNESS		Ra	Rmax
Sliding Surface	Ød	≤0.4 µm	≤3.2 µm
Groove Base	ØD	≤1.6 µm	≤10 µm
Groove Flanks	S1	≤3.2 µm	≤16 µm

INSTALLATION

Open housing is recommended but closed grooves can be used for wipers bigger than 40 mm inner diameter. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the wiper must be oiled with system oil.