



K705 is a three piece single acting wiper which consists of one special mixture PTFE profile ring and two o-rings as energizers. K705 ensures that foreign particles are not introduced into the hydraulic systems, avoiding wear and damage to all the internal components including seals.

PRODUCT ADVANTAGES

- Low friction
- Free of stick-slip
- High sliding speed
- Wide range of temperature and chemicals depending on the elastomer material

APPLICATION

Mobile hydraulics, aluminium injection machines and industrial machinery, control and regulation equipment

MATERIAL		CODE
PTFE		PT6003
NBR	70 SHORE A	NB7001

OPERATING CONDITIONS	
MEDIA	Mineral oils (DIN 51524)
TEMPERATURE	-30°C +105°C
SPEED	≤5.0 m/sn

Note: The above data are maximum values and cannot be used at the same time. For HFA HFB HFC used applications, special filled PTFE materials are recommended. Resistance in low temperature and high temperature applications can be improved by alternate elastomer compounds.

SURFACE ROUGHNESS		Ra	Rmax
Sliding Surface	Ød	≤0.2 µm	≤2.0 µm
Groove Base	ØD	≤1.6 µm	≤6.3 µm
Groove Flanks	B	≤3.2 µm	≤16 µm

Note: It is recommended to have 50% to 90% of the working surface material contact area value.

INSTALLATION

We recommend using special assembly tool (See section; Hydraulic Sealing Elements General Installation Information). It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing element must be oiled with system oil.

NOTES

K705 wipers have to be used with K35 or K704 rod seals to prevent hydrodynamic pressure build up. If that is not possible some precautions have to be taken to prevent hydrodynamic pressure between wiper and seal (see section: Hydraulic Sealing Elements- Sample Designs). At high temperature working conditions FKM energizing O-ring and special mixture PTFE ring are able to be manufactured according to customer's request.