



KBT is a rod-piston guide strip designed to be used in medium duty hydraulic and pneumatic systems.

PRODUCT ADVANTAGES

- Easy assembly
- Medium load bearing capacity
- Able to work on dry conditions
- Easy to use in all dimensions because of being strips
- Low friction, free of stick-slip
- Superior load cushioning effect
- Able to absorb the small particles that is in the system

APPLICATION

Construction machinery, cranes, injection moulding machines, control and regulation equipment, chemical industry and standard cylinders.

MATERIAL

CODE

PTFE bronze filled PT6003

OPERATING CONDITIONS

MEDIA	Mineral oils (DIN 51524)	HFD
TEMPERATURE	-60°C +200°C	-40°C +200°C
CONTACT PRESSURE	≤15 N/mm ²	≤15 N/mm ²
SPEED	≤15.0 m/sec	≤15.0 m/sec

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

SURFACE ROUGHNESS

		Ra	Rmax
Sliding Surface	ØD-Ød	≤0.3 µm	≤2.5 µm
Groove Base	ØDb-Ødp	≤1.6 µm	≤10 µm
Groove Flanks	B	≤3.2 µm	≤12 µm

INSTALLATION

Easily assembled into the housing by hand. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the guide strip must be oiled with system oil.

NOTES

We recommend cutting the ready strip with 30° angle before using it. The length of the strip can be calculated using the formula in the section; Calculation of Width & Cross Sectional Thickness of Guide Elements. The permissible sealing gap values of KBT guide strip is given in the below table.

PERMISSIBLE SEALING GAP

Diameter (mm)	S(mm)
10-25	0.25±0.05
26-100	0.30±0.05
101-300	0.40±0.10
301-600	0.60±0.15
601-1200	0.80±0.20
>1200	0.90±0.30

Note: The largest sealing gap value occurring on the non-pressurized side of the seal is vital for the function of the seal and in this respect it is quite important to use the S value lower than the above indicated numbers.