



SKF SIL 10X18X6.3

Hydraulic rod bump-heel U-cup seal

These hydraulic rod seals are of an unloaded U-cup design with a secondary dynamic sealing lip. They are made of an ether-based thermoplastic polyurethane, provide good resistance to hydrolysis (attack from moisture) and have good low temperature resistance.

Technical specifications

Dimensions	
Rod diameter	10 mm
Housing groove diameter	18 mm
Housing groove width	6.3 mm
Radial depth	4 mm
Groove radius	0.3 mm
Lead-in chamfer length	2 mm
Upper limit deviation	-0.013 mm
Lower limit deviation	-0.035 mm
Tolerance class for rod diameter	f8
Alternative tolerance class for rod diameter	h9
Upper limit deviation	0.07 mm
Lower limit deviation	0 mm
Tolerance class for housing groove diameter	H10
Upper limit deviation	0.2 mm
Lower limit deviation	0 mm

Maximum extrusion gap	
Reference temperature for extrusion gap	60 °C
Extrusion gap at 160 bar	0.35 mm
Extrusion gap at 250 bar	0.2 mm
Extrusion gap at 350 bar	0 mm

Pressure and speed	
Pressure	350 bar
Speed	0.5 m/s

Operating temperature	
Extreme upper temperature limit	110 °C
Upper operating temperature limit	100 °C
Lower operating temperature limit	-40 °C
Reduced performance lower temperature limit	-50 °C
Extreme lower temperature limit	-60 °C
	Maximum values of application parameters (e.g. pressure, speed, temperature) should not be applied continuously nor simultaneously.

Materials	
Primary sealing element	B93

Compliance with standard	
In accordance with	ISO 5597

Performance	
Pressure limit, maximum	35 N/mm ²

Properties	
Design	SIL

Primary sealing element	Polyurethane (TPU B93)
Unit system	Metric

Logistics	
Product net weight	0.0012 kg
eClass code	23-07-01-90
UNSPSC code	31181602

SKF drawings

