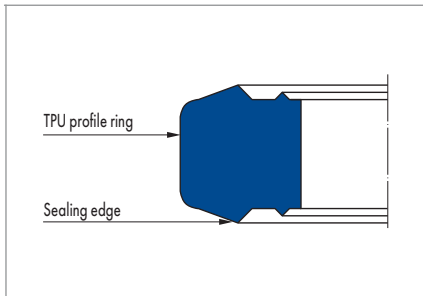


MERKEL STIRCOMATIC SRC



PRODUCT DESCRIPTION

Static Merkel seal made of a profiled ring with two cutting edge-shaped sealing edges on the front faces.

PRODUCT ADVANTAGES

- Good stress distribution due to the position of the sealing edge in the groove
- Secure seating in the housing for extremely high, pulsating pressure peaks
- Made of extrusion-resistant polyurethane material

APPLICATION

- Hydraulic control and regulation equipment
- Hydraulic hammers

MATERIAL

Material	Code
Polyurethane	95 AU V142

OPERATING CONDITIONS

Pressure p	80 MPa
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Medium/ Temperature	95 AU V142
Hydraulic oils HL, HLP	-30 °C ... +110 °C
HFA fluids	+5 °C ... +50 °C
HFB fluids	+5 °C ... +50 °C
HFC fluids	-30 °C ... +40 °C
HFD fluids	-
Water	+5 °C ... +50 °C
HETG (rapeseed oil)	-30 °C ... +60 °C
HEES (synthetic ester)	-30 °C ... +80 °C
HEPG (glycol)	-30 °C ... +50 °C
Mineral greases	-30 °C ... +110 °C

DESIGN NOTES

A spot facing cutter is normally sufficient for the manufacture of a housing. A relatively high degree of roughness on the front face can be permitted. → Technical Manual.

Surface quality

Peak-to-valley heights	R_a	R_{max}
Groove base	$\leq 1,8 \mu\text{m}$	$\leq 6,3 \mu\text{m}$
Groove flanks	$\leq 3,0 \mu\text{m}$	$\leq 16 \mu\text{m}$

Tolerances

Nominal $\varnothing d$	D	d
40 ... 1065 mm	H9	h10