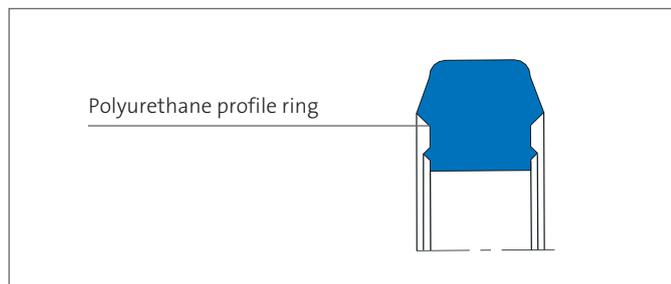


# MERKEL STIRCOMATIC SRC



Merkel Stirromatic SRC is a single-piece compact seal made of polyurethane for static sealing, axially sealing component.



## Applications

- Negative pressure (flowing medium)
- Pulsating pressure
- High operating pressure (up to 80 MPa)
- Nominal diameter up to 2,000 mm

## Material

Material	Designation	Color
Polyurethane	95 AU V142	dark-blue
Polyurethane	94 AU 925	light-blue

The material is determined on the basis of the nominal diameter and the manufacturing process.

## VALUE TO THE CUSTOMER

- Interchangeable with housings for O-ring and O-ring with back-up ring
- Firm seat inside the housing provided by optimally designed sealing edges (stress distribution)
- High degree of functional reliability provided by the sturdy profile ring made of polyurethane
- Functional reliability resulting from a great resistance to extrusion (dimensional stability)
- Simple and safe assembly
- Gas tight



## FEATURES AND BENEFITS

### Operating conditions

Material	95 AU V142/94 AU 925
Hydraulic oils, HL, HLP	-30 ... +110 °C
HFA fluids	+5 ... +50 °C
HFB fluids	+5 ... +50 °C
HFC fluids	-30 ... +40 °C
HFD fluids	-
Water	+5 ... +40 °C
HETG (rape-seed oil)	-30 ... +60 °C
HEES (synth. ester)	-30 ... +60 °C
HEPG (glycol)	-30 ... +40 °C
Mineral greases	-30 ... +110 °C
Pressure	80 MPa

The figures given are maximum values and must not be applied simultaneously.

### Surface finish

Peak-to-valley heights	$R_a$	$R_{max}$
Sealing surfaces	<1,6 $\mu\text{m}$	<6,3 $\mu\text{m}$
Groove sides	<6,3 $\mu\text{m}$	<20 $\mu\text{m}$

More accurate values for  $R_a$  and  $R_{max}$  should be set within the sealing surfaces for applications requiring gastight operation.

### Tolerances

Diameter	Tolerance
d	h10
D	H9

### Design notes

The housing for the Merkel Stircomatic SRC may be designed with an aperture in inner diameter direction or in the form of an axial recess. Pressure is applied from the interior. Please note our general remarks on design in our technical manual.

### Installation & assembly

Please note our general remarks on the installation of hydraulic seals in our technical manual.

### Installation diagram

