

Merkel Stircomatic SRC

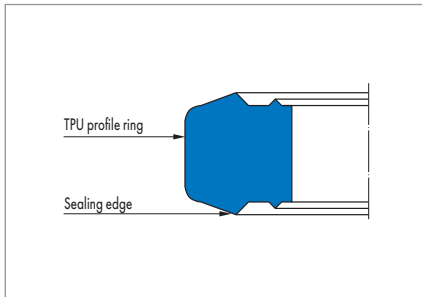


Fig. 1 Merkel Stircomatic SRC

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

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

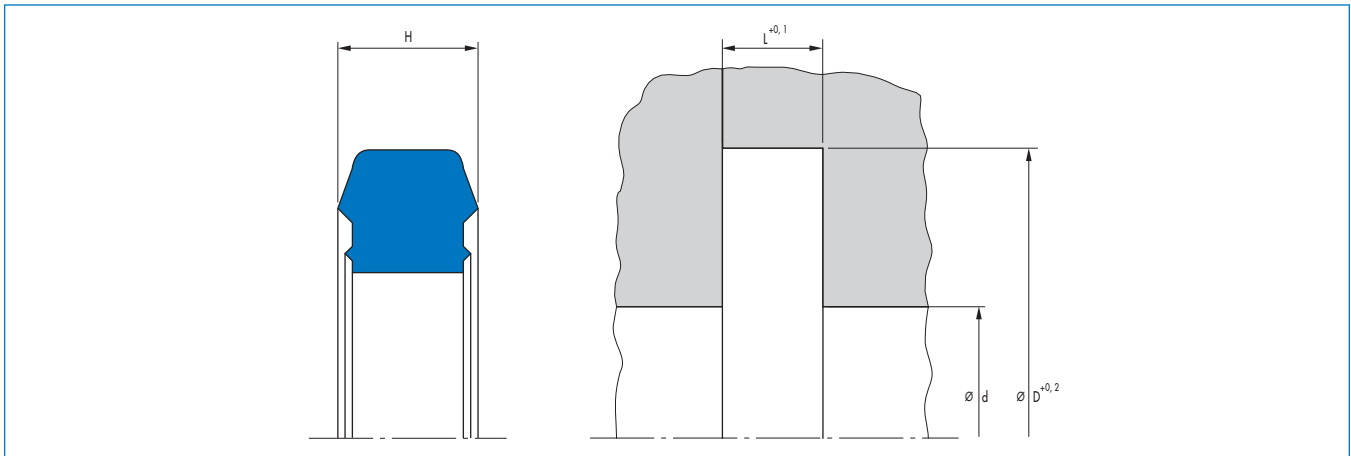
Surface quality

Surface roughness	R _a	R _{max}
Groove base	≤1,8 μm	≤6,3 μm
Groove flanks	≤3,0 μm	≤16,0 μm

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.

Article list



d	D	H	L	Profile	Material	Article No.	
6	12	2,4	1,9	3	95 AU V142	24350847	●
8	14	2,4	1,9	3	95 AU V142	24350848	●
10	16	2,4	1,9	3	95 AU V142	24350849	●
12	18	2,4	1,9	3	95 AU V142	24350850	●
14	21	2,4	1,9	3,5	95 AU V142	24350851	●
16	23	2,4	1,9	3,5	95 AU V142	24350852	●
20	27	2,4	1,9	3,5	95 AU V142	24350853	●
24	30	2,4	1,9	3	95 AU V142	24354033	●
25	33	3	2,4	4	95 AU V142	24350855	●
30	38	2,4	1,9	4	95 AU V142	24337027	●
32	40	3	2,4	4	95 AU V142	24336213	●
40	48	3	2,4	4	95 AU V142	24343125	●
45	53	3	2,4	4	95 AU V142	49003451	○
50	58	3,1	2,5	4	95 AU V142	24350857	●

● Available from stock ○ On request: Tool is available, delivery at short notice

The catalog details are based on the experience of many years of research in the development and production of seals in the Freudenberg Group and correspond to our current level of know-how.

The sealing action of many catalog products is, however, not only created by the component itself. In many cases – depending on the specific application – it depends significantly on the other parameters, such as installation point, counter surface, pressure, operating temperature, media to be sealed, lubrication, effects of vibration and any ingress of dirt from outside. These and other unknown factors in

practical use may noticeably influence the functioning of the seals. Against this background generalised statements on the function of the catalog products are not possible. Details in this catalog merely represent general and non-binding reference values which make no claim to be valid for every application. We therefore recommend you to always discuss specific applications with our consultancy service. In the event of very high and special loads, for example due to aggressive media, the seal should be selected in co-operation with us; trials to check the functional reliability are often indispensable.



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