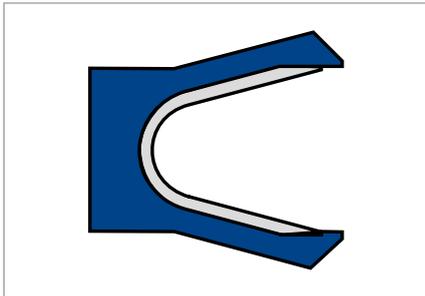


FORSEAL FOA MADE OF PTFE



Forseal FOA made of PTFE

PRODUCT DESCRIPTION

Single acting, U-ring type PTFE seal with metal tension spring.

PRODUCT ADVANTAGES

Axially moving piston seal, interchangeable for O-ring housings (ARP568, MIL-P-5514)

- Extremely resistant to media and temperature
- Good dry running properties
- Low static and dynamic friction values.

APPLICATION

Hot water valves, accumulators, hydraulic and pneumatic cylinders as well as applications in food processing, medical and chemical technology.

MATERIAL

Material	Code	Tension spring
PTFE carbon-filled	PTFE 10/F56110	stainless steel (Material No. 1.4310)

OPERATING CONDITIONS

Material	PTFE 10/F56110 + 1.4310
Temperature range in °C	
Hydraulic oils, oil, water, steam, air, solvents, pharmaceutical goods, foodstuffs or all media that do not attack PTFE and stainless steel	-200 ... +260
Pressure p in MPa	30
Running speed v in m/s	15

Material	PTFE 10/F56110 +spring Hastelloy C276 (Not available ex-works)
Temperature range in °C	
Aggressive acids and alkalis	-200 ... +260
Pressure p in MPa	30
Running speed v in m/s	15

Turning-pivoting movements possible. No rotation. → Technical Manual.

DESIGN NOTES

Beside the default dimensions, all special dimensions considering the U-ring profiles are available on request without surcharge for the tool.

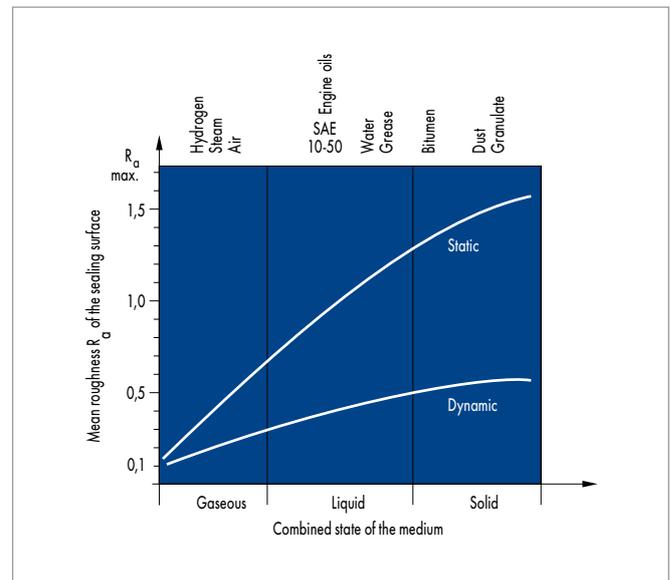
Dimensions available from Ø 10 (piston) to approx. 2000 mm. In general, installation is only possible in split, axially accessible grooves. Installation in half-open grooves possible in exceptional cases. → Technical Manual.

Surface quality

Sealing surfaces, dynamic/static: → Fig.

Lead-in chamfers: $R_a < 1,6 \mu\text{m}$

Sides of groove: $R_a < 2,5 \mu\text{m}$



Surface recommendation for sealing surfaces