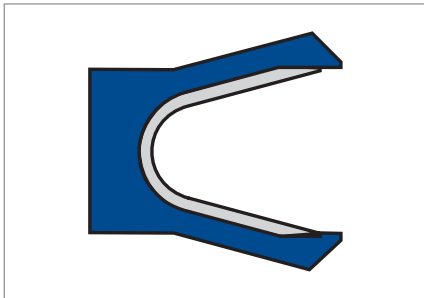


# FORSEAL FOA MADE OF PTFE



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.

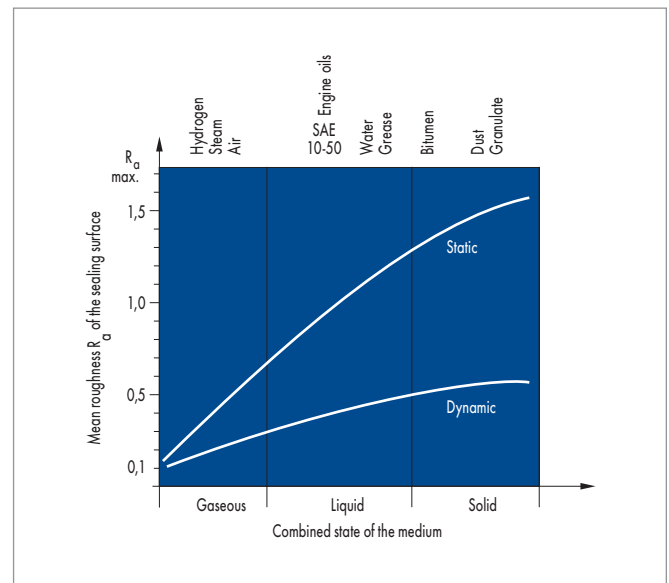
Dimensions available from Ø 10 (piston) to approx. 2000 mm. In general, installation is only possible in split, axially accessible grooves. Installation in half-open grooves possible in exceptional cases. → Technical Manual.

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