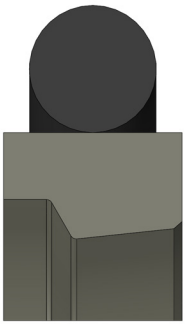
DICHTOMATIK
Any seal. Any time.



ROD SEAL SPOR31

SPOR31, which acts on one side, consists of a PTFE-bronze sealing element and an O-ring, which serves as a pre-tensioning element.

The pre-tensioning in combination with a defined coating of the PTFE ring offers a good sealing effect at high dynamic loads or low operating pressures. It simultaneously exhibits very good static leak-tightness. The seal edge has an adapted geometry so that the fluid film adhering to the rod is conveyed back into the pressure chamber during the return stroke.

To reduce any intermediate pressure, SPOR31 is often used in a double arrangement, one after the other, or used as a primary seal with the TPU rod seal SNI30 as the secondary seal.

DIMENSIONS

The currently available dimensions can be found on our website and in our webshop at **www.dichtomatik.com**.

APPLICATIONS

SPOR31 is suited for use in nearly all areas of mobile and stationary hydraulics. The double-action piston seal lends itself to use in numerous applications such as:

- Agricultural machinery
- Construction machinery
- Truck loading cranes
- Spray injection molding machines
- Handling devices
- Industrial trucks
- Standard cylinders
- Presses
- Switch valves
- And many more

YOUR ADVANTAGES AT A GLANCE

- No stick-slip effect
- Reduced friction is achievable even at low speeds
- During relatively long operational breaks, the seal separates from the counter-surface without sticking
- Very good wear characteristics
- Usage in a high temperature range, depending on the O-ring material
- Recirculation of the fluid film thanks to an adapted seal edge geometry
- Standardized installation spaces

DICHTOMATIK
Any seal. Any time.

CHARACTERISTICS

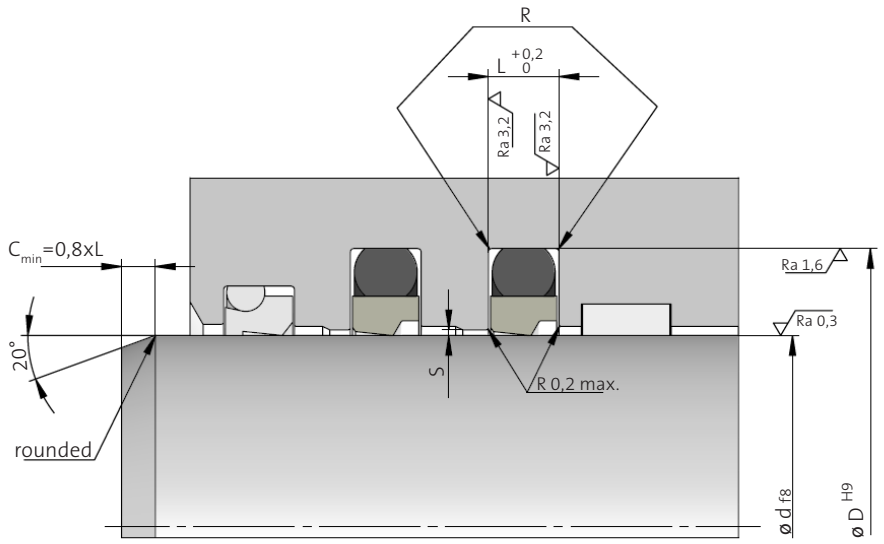
Sealing Materials
The sealing element SPOR31 is made of PTFE-bronze. The O-ring is constructed from NBR70 Shore A.

Mounting
This two-part piston seal can be easily installed into pierced grooves. Subsequent calibration is recommended. Relatively small dimensions make axially accessible grooves necessary, eliminating the calibration.

Media resistance
- Hydraulic oils in accordance with DIN 51524 Part 1-3
- Lubricating oils and greases based on mineral oil
- Flame retardant hydraulic fluids HFA, HFB, HFC

Limits of operating use	
Pressure (MPa)	to 40
Temperature (°C)	-30 to +100
Glide speed (m/s)	≤15

Design guideline								
Ød	D-4,9	D-7,3	D-10,7	D-15,1	D-20,5	D-24	D-27,3	D-38
Height L	2,2	3,2	4,2	6,3	8,1		9,5	13,8
R	0,4	0,6	0,8	1,2	1,6		2,5	
Gap Smax. in operation								
up to 20 MPa	0,2	0,25		0,3	0,35		0,5	0,7
up to 40 MPa	0,13	0,15	0,18	0,2	0,25		0,3	0,6



Installation spaces in accordance with ISO 7425/2