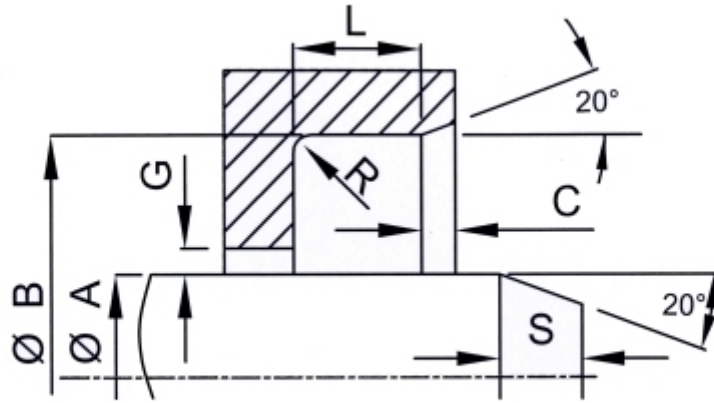


## Rotary shaft seals | Rotary shaft seal Rotolip®



Rotary shaft seal Rotolip® standard

[Rotolip® Lip Seals for Rotating Shafts](#)

Working Conditions:

- Temp. -60 +250 °C
- Speed max 10m/sec and up to 25m/sec lubricated conditions
- Pressure max 4 bar (up to 10 bar with backup)
- Eccentricity 0.15 max.
- Type R01 and R011 without collar: shaft 100mm max.

[Homepage](#)  
[Rotary Shaft](#)  
[Seals](#)



## SEAT

Housing Class	A shaft	B	L	G max. radial gap	R max.	S* min.	C min.
	f7	H9	H12				
R1	6 - 19,9	A+12	6,0	0.3	0.1	3	0,3
R2	20 - 39,9	A+14	6.5	0.5	0.2	4	0,6
R3	40 - 99,9	A+18	8,0	0.8	0.2	5	0,9
R4	100 - 219,9	A+22	10,0	0.8	0.2	6	1,2
R5	220 - 500	A+26	11,0	0,8	0,2	6	1,2

\* Double chamfer length **S** if rod is inserted against the direction of the sealing-lip  
**these dimensions are a suggestion only, we can design the Rotolip according with your existing grooves**

### Coding example

housing class R3  
 profile code R010  
 shaft 60  
 materials: jacket Neuflon 032 O-Ring NBR

**Rotolip R3 R010 060 N-032 NBR**



## FINISHES

SURFACE FINISH ACCORDING WITH FLUID		
application	max Ra $\mu\text{m}$ dynamic surface	max Ra $\mu\text{m}$ static surface
CRYOGENICS	0,1	0,2
FREON HELIUM HYDROGEN	0,2	0,3
AIR NITROGEN ARGON METHANE FUELS	0.2	0.4
WATER OIL	0.3 - 04	0.6
ROTARY SEALS		
<b>Shaft surface</b> Ra 0.2 - 0.3 micron max. Rz 1.0 - 2.5 micron max. R max. < 4 micron	<b>Shaft hardness</b> 55 HRC min. for pressure up to 5 bar 60 HRC min. for pressure > di 5 bar 60 HRC for speed > 4m/sec	<b>Surface treating deep</b> 0.3 mm min.



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## AVAILABILITY

**To check the availability:**

- choose profile and compound from the drop-down menu
  - input the desired housing class
  - input the desired diameter
- Once obtained the availability, a request for quotation can be sent.



## MATERIALS

Click compound's code to download the .PDF data sheet. Login required.

HD Slippers code	Composition	Color	Approvals	$\Delta T$ °C	Description
<a href="#">N-009</a>	Ptfe-oxides	blue	FDA	-268 +260	All pourpose on soft surfaces
<a href="#">N-095</a>	Tfm	white		-268 +260	Low creep, better strength.
<a href="#">N-031</a>	Ptfe-bronze	green-blue	NORSOK	-268 +260	High wear resistance, hidraulic seals
<a href="#">N-032</a>	Ptfe-carbon	black		-268 +260	High wear resistance, pneumatic and hydraulic seals
<a href="#">N-197</a>	Ptfe-carbographite	black	FDA	-268 +260	High wear resistance, hydraulic and pneumatic seals
<a href="#">N-043</a>	Ptfe-graphite	black		-268 +260	High wear resistance, low friction coefficient.
<a href="#">N-060</a>	Ptfe-glass fibre	blue	FDA NORSOK	-268 +260	All pourpose on hard surfaces
<a href="#">N-067</a>	Ptfe-glass fibre	white		-268 +260	High wear and creep resistance
<a href="#">N-033</a>	Ptfe-glass fibre MoS2	gray	FDA	-268 +260	Fit for hard surfaces
<a href="#">N-103</a>	Ptfe-Carbon fibre	black		-268 +260	Fit for hard surfaces
<a href="#">N-102</a>	Ptfe-Liquid crystal polymer	beige	FDA - EU	-268 +260	Food & Pharma, fit for soft surfaces
<a href="#">N-088</a>	Ptfe-polyimide	yellow		-268 +260	Fit for soft surfaces
<a href="#">N-074</a>	PEHMW	white	FDA	-140 +80	High wear and extrusion resistance
<a href="#">N-155</a>	PVDF	white		-30 +140	High modulus
<a href="#">P95-A252</a>	Polyurethane	blue	FDA	-50 +105	Extrusion and wear withstanding, low friction coefficient
<a href="#">P95-VI251</a>	Polyurethane	violet		-30 +115	CIP (clean in place) fluids compatible
<a href="#">P95-R198</a>	Polyurethane	red	FDA	-30 +125	Extrusion and wear withstanding, low friction coefficient, high temperatures
<a href="#">P95-AR255</a>	Polyurethane	orange		-30 +135	Extrusion and wear withstanding, low friction coefficient, higher temperatures
<a href="#">P95-G253</a>	Polyurethane MoS	gray		-30 +105	Extrusion and wear withstanding, lower friction coefficient

### CHOOSING Neuflon-ptfe compound ACCORDING WITH FLUID AND SURFACE

#### SURFACES

Steel HEC>=30-45  
Temp. Mart. Inox Steel  
Cast Iron HRB<=200  
Steel HRC>=45  
Cast Iron HRB>200

Galvanic or chemical  
surfacing HV>=700  
Chromium Bronze

Bronze  
Brass

Treated Aluminium

Aust. Inox Steel  
Glass

#### FLUIDS

#### NEUFLON-ptfe compounds (standard in bold)

Hydraulic oil  
Transmission oil  
Fire resistant syntetic  
hydraulic oil

**N-031**  
N-032 N-060 P95-A112

**N-031**  
N-032 N-060 P95-A112

**N-009**  
N-043 N-032 P95-A112

**N-032** N-074  
P95-A112

**N-009**  
N-032 N-074 P95-A112

Water and oil/water  
emulsions

**N-032**  
N-060 N-074

**N-032**  
N-060 N-074

**N-009**  
N-043 N-074

**N-032**  
N-074

**N-009**  
N-032 N-074

Drugs and food

**N-074**  
N-102 N-043 N-060 N-095  
P95-B113

**N-009**  
N-074 P95-B113

**N-102**  
N-009 P95-B113

**N-009**  
N-074 P95-B113

**N-009**  
N-074 P95-B113

Air

**N-032**

**N-032**

**N-032**

**N-032**

**N-032**



	N-031 N-043 N-074 P95-A112	N-043 P95-A112	N-009 N-043 N-074 P95-A112	N-074 P95-A112	N-009 N-043 N-074 P95-A112
Steam	<b>N-032</b> N-043	<b>N-032</b>	<b>N-009</b> N-032 N-043		<b>N-032</b> N-009 N-043
Acids and Bases	<b>N-032</b> N-074	<b>N-032</b> N-043 N-074			<b>N-009</b> N-032 N-043 N-074

#### ELASTOMER ACCORDING WITH FLUID

FLUIDS	ELASTOMERS
HYDRAULIC OIL - TRANSMISSION OIL	NBR
FIRE RESISTANT SYNTETIC HYDRAULIC OIL	EPDM
WATER AND WATER/OIL EMULSIONS	NBR
FOOD AND DRUG	MVQ
AIR	NBR
STEAM	EPDM - FFKM
ACIDS AND BASES	FKM - FFKM