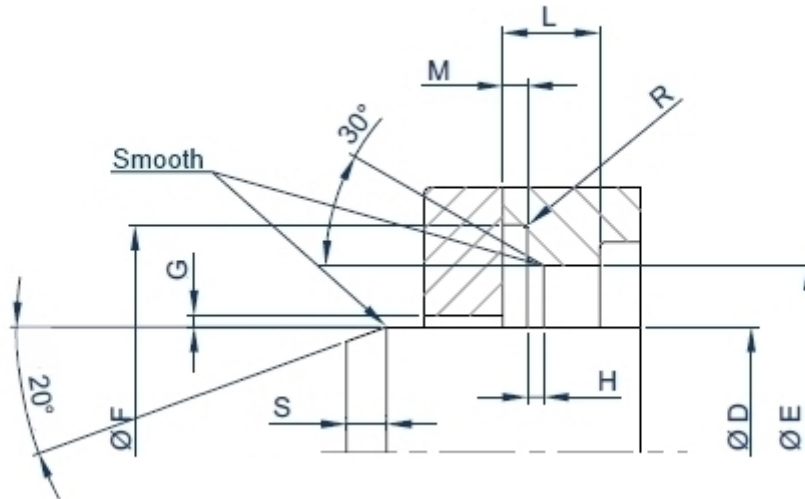


## Enerseal® Spring Energized Seals | Energized Rotary Seals V



**Spring Energized Rotary Seals Enerseal®**, custom and standard dimensions available. Jacket in PTFE compound, PEEK, UHMW-PE, PU 54Sh.D. Jackets and electro-welded springs are designed and realized within the company, so that HD has the complete control of the production process. Spring are available in Aisi301, Elgiloy, Hastelloy and **NACE approved Inconel X750**.  
**An optional EU-FDA approved Silicone filling is available.**

[Spring  
Energized  
Seals  
Homepage](#)



## SEAT

housing class	<b>D</b> dimensional range	<b>E</b> groove diameter	<b>F</b> flange groove diameter	<b>L</b> groove width	<b>M</b> flange groove width	<b>H</b> chamfer	<b>S</b> chamfer	<b>R</b> max	<b>G</b> max. radial gap
	<b>f7</b>	<b>H9</b>	<b>H12</b>	<b>H12</b>	<b>+0/-0.1</b>				
REL	5 - 240	D + 5.0	D + 9.0	3.6	0.85	0.8	2.5	0.3	0.05
REH	25 - 400	D + 7.0	D + 12.5	4.8	1.35	1.1	3.0	0.4	0.08
REN	45 - 650	D+10.5	D + 17.5	7.1	1.80	1.4	5.5	0.5	0.10
REM	80 - 1100	D+14.0	D + 22.0	9.5	2.80	1.6	8.5	0.5	0.12

### Coding example

housing class REN  
 profile code 055  
 rod 50  
 materials: jacket Neuflon 020 spring Aisi 301

**Roto-Enerseal REN 055 050 N-020 301**



## 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.



## 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.

### PTFE COMPOUNDS

HD Slippers code	Composition	Approvals	ΔT °C	Description
<a href="#">N-009</a>	Ptfe-oxides		-268 +260	All pourpose on soft surfaces
<a href="#">N-032</a>	Ptfe-carbon		-268 +260	High wear resistance, pneumatic and hydraulic seals
<a href="#">N-197</a>	Ptfe-carbographite	<b>NORSOK</b>	-268 +260	High wear resistance, hydraulic and pneumatic seals
<a href="#">N-043</a>	Ptfe-graphite	<b>FDA</b>	-268 +260	High wear resistance, low friction coefficient.
<a href="#">N-103</a>	Ptfe-carbon fibre	<b>FDA</b>	-268 +260	High wear resistance, low friction coefficient, hard surfaces.
<a href="#">N-033</a>	Ptfe-glass fibre-MoS <sub>2</sub>		-268 +260	Of general use, in lubricated applications, rotary seals
<a href="#">N-060</a>	Ptfe-glass fibre	<b>FDA</b>	-268 +260	All pourpose on hard surfaces
<a href="#">N-067</a>	Ptfe-glass fibre	<b>FDA</b> <b>NORSOK</b>	-268 +260	High wear and creep resistance
<a href="#">N-102</a>	Ptfe-Liquid crystal polymer	<b>FDA - EU</b>	-268 +260	Food & Pharma on soft surfaces
<a href="#">N-088</a>	Ptfe-poliimide		-268 +260	High wear resistance. Soft surfaces
<a href="#">N-074</a>	PEHMW	<b>FDA</b>	-140 +80	High wear and extrusion resistance

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

FLUIDS	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	Treated Aluminium	Aust. Inox Steel Glass
	<b>NEUFLON-ptfe compounds (standard in bold)</b>			
Hydraulic oil Transmission oil Fire resistant syntetic hydraulic oil	<b>N-031</b> N-032 N-060 N-077 P95-G114	<b>N-031</b> N-032 N-060 N-077 P95-G114	<b>N-032</b> N-074 P95-G114	<b>N-009</b> N-032 N-074 P95-G114
Water and oil/water emulsions	<b>N-032</b> N-060 N-077 N-074	<b>N-032</b> N-060 N-077 N-074	<b>N-032</b> N-074	<b>N-009</b> N-032 N-074
Drugs and food	<b>N-102</b> N-043 N-060 N-074 N-088 P95-G114	<b>N-009</b> N-074 P95-G114	<b>N-009</b> N-074 P95-G114	<b>N-009</b> N-074 P95-G114
Air	<b>N-032</b> N-031 N-043 N-074 P95-G114	<b>N-032</b> N-043 P95-G114	<b>N-032</b> N-074 P95-G114	<b>N-032</b> N-009 N-043 N-074 P95-G114
Steam	<b>N-032</b> N-043	<b>N-032</b>		<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