

**Features:**

- Unique encapsulated spring*
- Premium wear resistance*
- Recommended for wind turbine main bearing seal applications*
- Easy to install*



**MATERIAL**

The standard Variotex 462 series rotary seal features high-grade spring-energised HNBR seal lip combined with an elastomer/fabric heel.

Material	Code
HNBR fabric / garter spring	MN39

**OPERATING PARAMETERS**

MN39	
operating temperature	-30 to +80 °C
survival temperature	-40 to +100 °C
speed	15 m/s
pressure	0.5 bar

**COMPATIBLE GREASES**

- Stabyl EOS E2
- Mobilux Ep2
- Klüberplex BEM 41-141
- SKF LGEP 2
- GLEITMO 585k
- FAG Arcanol 460

*Note: for other materials or fluids please contact our engineering department.*

**DESCRIPTION**

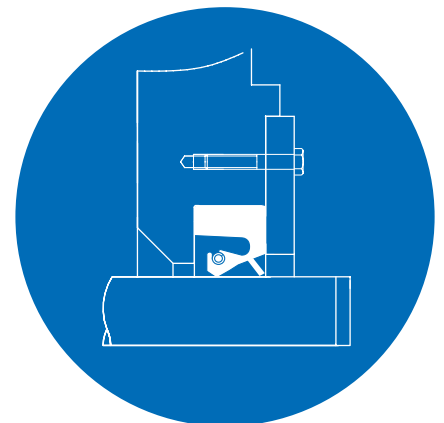
The Variotex 462 series rotary seal is a popular seal used in main bearing applications for onshore turbines that require maximum reliability and long service life. The unique encapsulated spring ensures that the spring remains in place during a blind installation. The main body is strong yet flexible for ease of installation and stability within the groove. The lip force is optimised for the full range of sizes by varying designs of the internal spring, allowing low friction, minimal wear and the ability to accommodate shaft deflections.

**PRODUCT BENEFITS**

- Lip force is optimised for a range of sizes by varying designs of the internal spring
- Works in a wide range of temperatures
- Excellent fluid compatibility
- Exceptional abrasion resistance
- Available in diameters up to 2100 mm

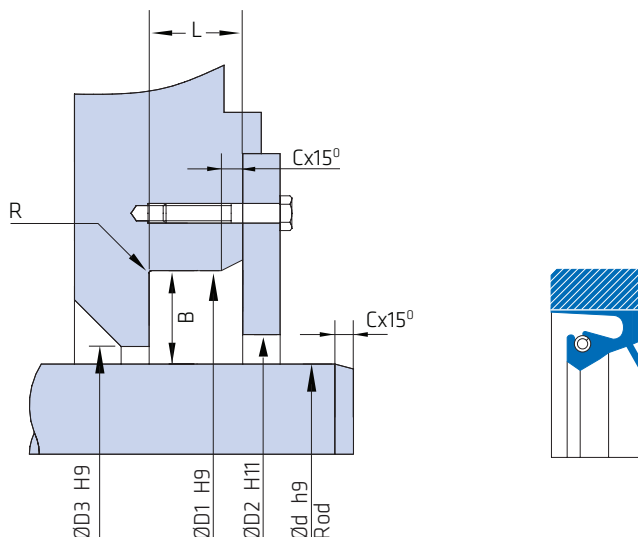
**APPLICATIONS**

The Variotex 462 series rotary seal is used in wind turbine main bearing applications that require long service life, in particular turbines for onshore applications.



*Above: Installation Drawing*

### DESIGN GUIDELINES



### METRIC SERIES

Rod Diameter Ød	B	ØD1	ØD2	L +0.25	R	C	C1
>200.00 mm	20.00	d + 40.00	d+7.00	16.00	0.40	10.00	4.00
>250.00 mm	22.00	d + 44.00	d+7.00	20.00	0.40	12.00	5.00
>450.00 mm	25.00	d + 50.00	d+8.00	22.00	0.40	15.00	6.00
>750.00 mm	32.00	d + 64.00	d+10.00	25.00	0.40	18.00	6.00

### INCH SERIES

Rod Diameter Ød	B	ØD1	ØD2	L +0.010	R	C	C1
>7.875 in	0.787	d + 1.575	d+0.276	0.630	0.016	0.394	0.157
>9.875 in	0.866	d + 1.732	d+0.276	0.787	0.016	0.472	0.197
>17.725 in	0.984	d + 1.967	d+0.315	0.866	0.016	0.591	0.236
>29.500 in	1.260	d + 2.520	d+0.394	0.984	0.016	0.709	0.236

### SURFACE FINISH

Surface roughness	Ra	Rt	RMS
Sliding surface	≤0.6 µm	≤4 µm	24 RMS
Sides of groove	≤4 µm	≤16 µm	160 RMS