

1.0 Scope:

Design, manufacture and supply of Spring Energized Dynamic Shaft seals to seal the hot secondary air around low speed rotating shafts of wind-boxes/burners.

2.0 Purpose

The seals shall be used to prevent the leakage of secondary air of maximum temperature 350 °C (continuous). The seals are mounted around the low speed rotating shafts fitted into a stationary bushing.

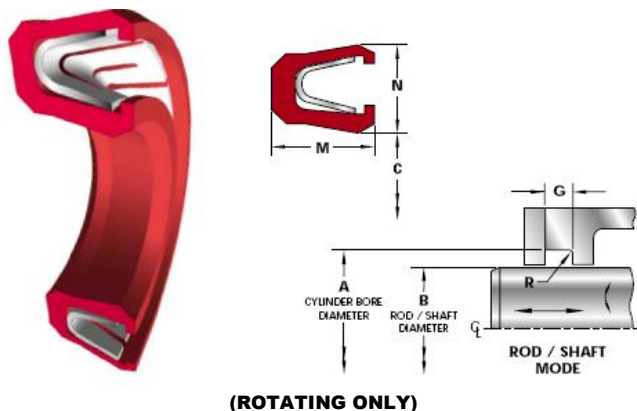
3.0 Item Description

The seals shall be energized by Stainless steel springs as shown in the figure. The pitch of the retainer spring shall be approx. 2.5 mm and shall ensure spring retention under all working conditions

4.0 Technical parameters

Description	Dim	Variant-01	Variant-02
Elastomer material		Vendor to specify (suitable for 350°C continuous temperature)	
Retainer material		Stainless steel grade SS 304	
Material Code		<u>961340010000</u>	<u>961340020000</u>
Bore diameter (mm)	(A)	34.5 (-0 +0.05)	53.90 (-0 +0.05)
Shaft diameter (mm)	(B)	25 (-0.05 +0)	44.42 (-0.05 +0)
Cavity length (mm)	(G)	7.00 to 7.40	
Cavity corners (mm)	(R)	0.8 x 45° Chamfer	
Shaft Seal Internal dia*	(C)		
Shaft Seal width*	(M)		
Shaft Seal height*	(N)		
Shelf Life		Vendor to specify (Minimum 1 year)	

* - Vendor to specify in mm



5.0 Documents required

- Point-wise confirmation to the specification.
- Dimensional drawing indicating all the dimensions as enquired in the above specification.
- Specification sheet with listed chemical and mechanical properties for the offered elastomeric material. Shelf life of the product shall also be specified.

6.0 Guarantee

The performance of the seal shall be guaranteed for a period of 18 months from the date of purchase or 12 months from the date of commissioning, whichever earlier.

7.0 Inward Inspection

Dimensional check

Visual inspection

REV 01: Max Working temp. revised from 400 to 350 °C. Material code, Retainer spring matl. & pitch specified. Elastomer material specified as silicone rubber removed. Shelf life clause added. Doc. requirement and Guarantee clause modified.

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