

Specifications for brush seals (Dia 350mm)

BHEL R&D requires 2 Nos of brush seals for validation of its dynamic performance. Performance validation will be carried out in a test rig at BHEL.

1. Issue of Design Documentation and Engg Drawings.

Since the seals are to be validated, the supplier needs to provide the following design data for validation in the form of design documentation. The design documentation should contain the following data:

- a. Bristle pack details like bristle material, density, angle of lay, bristle dia, bristle free length, front and back plate lengths/dimensions.
- b. Finished ID of the seal along with expected blow down length for the given (considered) rotor excursion and thermal growth.
- c. Finished seal dimensional report.
- d. For the given maximum pressure differential across the seal, the leakage flow in CFM.
- e. Delta(∇) P vs leakage flow in CFM need to be provided for the seal being supplied.

Note: Along with indent, the seal housing drawing (MDF 41 02 08 07) is being supplied, the seal housing can be modified with mutual consent after the placement of the Order.

2. Supply of brush seals – 2 Nos

- a) The seals are to be supplied in ready to install condition.
- b) Inlet Pressure – 10 bar
- c) Outlet pressure – Atmosphere
- d) Medium – AIR
- e) Temp – upto 50 Deg C max
- f) Rotor dia – 350 mm(tol 350.00 to 349.97)
- g) Test rig configuration indicating the seal position(like back to back configuration) and direction of rotation will be given after placement of order.
- h) Max rotor speed 4000 rpm
- i) Rotor and casing Material EN 8

