STYLE RBHT
For Heat Transfer Fluid and Other Moderate High Temperature Applications

The Flex-A-Seal Style RBHT was specifically designed to offer unmatched performance for mid-range high-temperature applications. This economically-priced seal is ideal for controlling processes that involve heat transfer fluids, but can be used effectively for any application in the 400°F to 575°F operating range.

Features & Benefits:

• Cost-effective: The standard RBHT design utilizes the cartridge sleeve and gland common to our RB seal. This allows the RBHT to be an economically priced option to a fully designed high temperature cartridge seal.
• The RBHT is shorter in both outer seal dimension (OD) and in length (axially) to fit into equipment and stuffing boxes where a full high temperature design can not be installed.
• The RBHT design incorporates O-rings as the secondary sealing option which enables seal fitment in applications where there isn’t space for grafoils to operate.

Materials of Construction:

Faces: Antimony Impregnated Carbon, Nickel-Bound Tungsten Carbide, Sintered Silicon Carbide
Bellows: AM350 Heat-treated Inconel 718 Heat-treated
Gland Bushing: Bronze, Carbon
Standard Metallurgy: 316 SS with low-expansion Alloy 42 retainer

Other material options are available. Please consult Flex-A-Seal.

Operating Parameters:

Max Temp: 575°F (302°C)
Max Pressure: 300 PSI (20 bar)
Max Speed: 4,500 SFPM (22m/sec)

* NOTE: Max Temperature / pressure / speed indicate operating extremes independently and do not imply the seal will function at these extremes at the same time. Contact Flex-A-Seal if in doubt.
1. **Rotary Head Assembly**
   - Alloy 42 retainer and AM350 heat-treated bellows are compatible with high temperatures
   - Antimony-impregnated carbon insert available for increased thermal conductivity
   - Hard face combinations also available for abrasive media

2. **Mating Ring**
   - Available in Sintered Silicon Carbide or Ni-Bound Tungsten Carbide
   - **RBHTX options also include**: L-shaped or floating mating ring for better seal face alignment

3. **High Temperature-Compatible Elastomers**
   - FFKM elastomer material options rated for operating temperatures up to 620°F/326°C

4. **Cartridge Sleeve**
   - The RBHT utilizes a standard Style RB sleeve which reduces the overall seal cost. The RBHTX option may incorporate additional design features as needed for specific operating conditions.

5. **Gland with Gland Gasket**
   - Gland is supplied with flush, vent, and drain connections
   - **RBHTX options also include**: A piloted gland for seal gland centering. Flexitallic™ metal-to-metal gland gasket to avoid the risk of secondary seal extrusion.

6. **Throttle Bushing with Retaining Ring**
   - The throttle bushing provides additional fluid control during operation and is positively retained to allow for the best functionality with commonly-used API Flush Plans 62 and 65.
   - **API 682 Plan 62 requires a throttle bushing to be part of the seal design.**