

# Bearing Isolator (Advanced Bearing Protection Solutions)

## TYPE : BI1710

### Secondary Seals :

- NBR / FKM (Viton) / EPDM / PTFE / FEP Viton (Encapsulated) / Magnetic face seal (optional)

### Hardware :

- Bronze (C932) / SS 304 / SS 316 (Rotor & Stator) / SS 304 / Aluminum (Retaining Ring) / CI (Custom) / SS 304 / Aluminum Alloy (Flanges)

### Operating Limits :

**Size:** 12.0 mm to 500.0 mm (0.500" to 20.000")

**Speed:** Up to 7,000 fpm (35 m/s)

**Pressure:** 6 bars (87 psi)

**Temperature:** -40 °C to +200 °C (-40°F +392°F)

**Run Out Tolerance:** ±0.15 mm (for standard): ±0.25 mm (split models)



### Application :

- Conveyors
- Steel Industry
- Power Industry
- Cement Industry
- Pharma industry
- Chemical Industry
- Pulp & Paper Industry
- Food & beverage Industry
- Blowers and exhaust fans
- Steam Turbines and compressors
- Electric motors (horizontal & vertical)
- Industrial Gearboxes & Gear Reducers
- Centrifugal and positive displacement pumps

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## ➤ Key Features :

- **Bi-Directional Operation:** Operates effectively in both rotational directions without performance loss.
- **Pressure Equalization Option:** Available with venting features to safely balance internal housing pressure.
- **Installation Flexibility:** Offered in flanged, press-fit, or split mounting styles to suit varied equipment layouts.
- **Shaft-Friendly Technology:** Non-contact seal eliminates shaft wear and eliminates failures caused by lip-seal scoring.
- **Excellent Lubrication Retention:** Retains oil, grease, and mist-lubricants within the housing, extending bearing life.
- **Industry Versatility:** Ideal for use in electric motors, pumps, gearboxes, turbines, blowers, and other rotating equipment.
- **Extended Service Life:** Zero-wear mechanism ensures long-term reliability and eliminates frequent replacements.
- **Non-Contact, Frictionless Design:** Engineered for zero-contact operation, eliminating wear, heat generation, and shaft scoring.
- **Superior Contaminant Exclusion:** Prevents ingress of dust, dirt, moisture, and chemical vapors—even in harsh industrial conditions.
- **Misalignment Compensation (Select Models):** Accommodates minor shaft misalignment, ensuring sealing integrity in dynamic conditions.
- **Maintenance-Free Performance:** No lubrication or adjustment required over time; reduces routine maintenance and operating costs.
- **Split & Solid Configurations:** Available in both one-piece and split designs for new installations or easy retrofits without shaft disassembly.
- **Standards & Compliance:** Designed to meet ANSI/ABMA groove tolerances; optional configurations comply with ATEX, FDA, or API standards upon request.
- **Operational Benefits**
  - Reduces unplanned downtime
  - Minimizes total lifecycle cost
  - Extends Mean Time Between Failures (MTBF)
  - Enhances equipment reliability and protection