**Low Leakage Isolation Dampers**

**HCDR-351**
- 2 cfm/sq. ft @ 10 in. wg (24 in. diameter)
- Heavy duty round flanged frame
- Round butterfly style blade
- Silicone blade seal (field replaceable for easy maintenance)
- Wide variety of actuators available. Fast acting, spring return actuators are recommended for most applications
- Optional mounting holes on the flange

**HCD-221**
- 2½ cfm/sq. ft. @ 10 in. wg
- Heavy duty flanged channel frame
- Double skin blades
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**FAQ**

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Bubble Tight Dampers

*Designed for Critical Leakage Applications*

A bubble tight damper is an isolation damper designed to meet the requirement for zero leakage. Every damper is factory tested for leakage to ensure a bubble-tight seal up to 30 in. wg (7.5 kPa).

**Applications**
- Clean rooms
- Medical facilities
- BSL-3 and BSL-4 laboratories
- Federal buildings
- Microelectronic manufacturing
- Bag In Bag Out (BIBO) filtration

**HBTR Series**
- Zero leakage up to 30 in. wg
- Heavy duty round flanged frame
- Round butterfly style blade
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- Square flanges optional

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**Models**

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**Bearings and Axle Seals**

**Relubricable Ball Bearing**
The relubricable ball bearing features a flanged cast iron housing that is bolted externally to the damper frame. Capable of high radial loads, this bearing can be applied in applications with high pressures or velocities. Seals protect the bearings’ balls from the environment, making this bearing a better choice for application in dirty environments. External grease zerks allow for easy relubrication of the bearing.

**Double Gland Stuffing Box**
The double gland stuffing box is recommended for clean air, contaminated air, and high temperatures.

Link to Greenheck heavy duty dampers bubble tight test

Link to Greenheck HBT-221 video
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