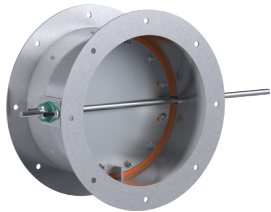


Low Leakage



HCDR-351

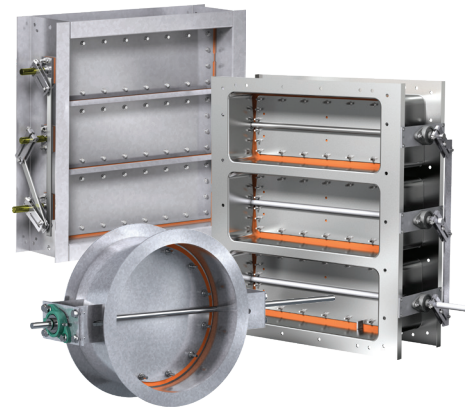
- Less than 1 cfm/ft² at 10 in. wg
- Maximum pressure up to 20 in. wg
- Heavy-duty round flanged frame
- Optional mounting holes on the flange
- Round butterfly style blade
- Silicone blade seal (field replaceable for easy maintenance)
- Wide variety of actuators available
- ASME AG-1 leakage class 1B



HCD-221

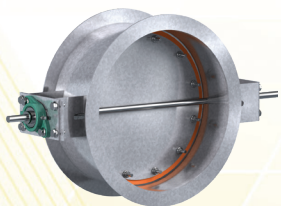
- 2½ cfm/ft² at 10 in. wg
- Heavy-duty flanged channel frame
- Optional mounting holes on the flange
- Double skin blades
- Silicone blade seal
- Wide variety of actuators available
- ASME AG-1 leakage class 1B

ISOLATION DAMPERS



Low and Zero Leakage

Venco has the largest offering of isolation dampers in the industry. These dampers are designed to provide tight shutoff with leakage as low as zero. Each is equipped with shaft seals to prevent leakage through the damper frame and silicone blade seals.



HBTR-151, 451, & 551

- Zero leakage up to 40 in. wg
- Heavy-duty flanged channel frame
- Optional mounting holes on the flange
- Round butterfly style blade
- Silicone blade seal (field replaceable for easy maintenance)
- Wide variety of actuators available
- Bubble-tight leakage per AMCA 500D and ASME AG-1 leakage class 0A



HBT-221 & HBT-321

- Zero leakage up to 20 in. wg
- Heavy-duty flanged channel frame
- Optional mounting holes on the flange
- Double skin blades
- Silicone blade seal
- Wide variety of actuators available
- Bubble tight leakage per AMCA 500D and ASME AG-1 leakage class 0A

Zero Leakage

Typical Applications

- Clean Rooms
- Chemical and Treatment Plants
- Data Centers
- Dust Collection
- Bag In Bag Out (BIBO) Filtration
- BSL3 and BSL4 laboratories
- Microelectronic Manufacturing
- Medical Facilities
- Nuclear Power Plants
- Manufacturing (Automotive, Solar Panel, Chemical, etc.)

DAMPERS





		HCDR-351	HCD-221	HBT-221	HBT-321	HBTR-151	HBTR-451	HBTR-551
Pressure in. wg (kPa)	Maximum	20(5)	10(2.5)	10 (2.5)	20 (5)	10 (2.5)	30 (7.5)	30 (7.5)
Velocity ft./min. (m/s)	Maximum	6500(33)	4000(20.3)	4000 (20.3)	4000 (20.3)	3900 (19.8)	6500 (33)	6500 (33)
Leakage* cfm/ft ² (cmh/m ²)	Maximum	Less than 1.5 at 10 in. wg (18.3 at 2.5 kPa)	Less than 1 at 1 in. wg (18.3 at .25 kPa)	Bubble Tight	Bubble Tight	Bubble Tight	Bubble Tight	Bubble Tight
Temperature °F (°C)	Maximum	400 (204)	400 (204)	250 (121)	250 (121)	250 (121)	250 (121)	250 (121)

* Bubble tight leakage per AMCA 500D and ASME AG-1. For comparison, AMCA class 1A is 3 cfm/sq. ft. at 1in. wg. Consult factory for more information on bubble tight leakage test.

Isolation Damper Comparative Leakage/Cost

