

HBD & HCD

Product Ordering Key and Suggested Specifications

HBD-155

Holyoake
Balancing
Dampers with
155 mm
Aluminium
Blades

**OPPOSED
PARALLEL**

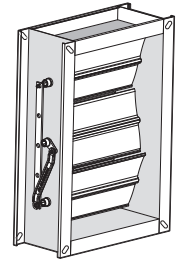
Blade Rotation:
Opposed (Standard)
Specify Parallel

W x H

Nominal
Duct
Size

CONTROL

Quadrant Arm and Plate.
Round Drive Shaft 120 mm.
Hex Ext Shaft,
(23, 44, 93 or 300 mm).



Balancing Dampers shall be of extruded aluminium construction. Frames shall be suitable for duct flange mounting. Blades shall be fixed to 11 mm hexagonal shafts held by two piece acetal self lubricating bearings, with outer shells fluted to prevent rotation.

Linkages shall be out of the airstream. The damper may be furnished with a manual locking quadrant arm, a round shaft and plate, or a hexagonal shaft and plate, suitable for actuator mounting.

All shall be type HBD-155 as manufactured by Holyoake.

**HCD-75
HCD-150**

Holyoake
Control
Dampers
with 75 or
150 mm
aluminium
airfoil blades.

**CHANNEL
LOW PROFILE CHANNEL
FLANGE SURROUND**

Frame
Style

**OPPOSED
PARALLEL**

Blade Rotation:
**Opposed
(Standard)** Specify
Parallel

W x H

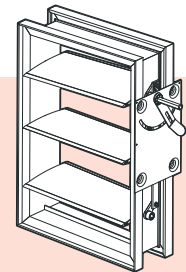
Nominal
Duct
Size

CONTROL

Quadrant Arm and Plate.
Round Drive Shaft 120mm.
Hex Ext Shaft,
(23, 44, 93, or 300 mm).

**SPECIAL
CONSTRUCTION
OPTIONS**

For smoke damper see
page 328H - 329H



Volume Control Dampers shall be low leakage type extruded aluminium construction, with single piece airfoil blades, fitted with self inflating edge seals. Blades shall be fixed to 11 mm hexagonal shafts, held by two piece acetal self lubricating bearings, with outer shells fluted to prevent rotation. Frames shall be suitable for either internal fixing within ductwork, or external duct flange mounting and shall be fitted with flexible aluminium side seals. Linkages shall be out of the airstream. Leakage shall be no greater than 0.04 m³/s/m² at 1500 Pa Δp, or typically 0.45 % of full flow (at 5 m/s) with 500 Pa Δp. The damper may be furnished with a manual locking quadrant arm, a round shaft and plate, or a hexagonal shaft and plate, suitable for actuator mounting.

All shall be type HCD-75, or HCD-150, as manufactured by Holyoake.

HCD-225

Holyoake
Heavy Duty
Control
Dampers
with 225 mm
Airfoil Blades

PARALLEL

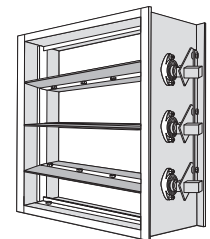
Blade Rotation
(No Opposed
Option)

W x H

**Nominal
(Overall Size)**

CONTROL

Electric Motor,
Pneumatic Actuator,
(Further discussion
required with local
Holyoake branch).



Heavy Duty Volume Control Dampers shall be constructed from extruded aluminium. Frames shall be suitable for duct flange mounting and be 6 mm thick. Blades shall be Parallel Airfoil 3 mm thick, with internal strengthening and fitted with externally mounted Heavy Duty Spherical Ball Bearings. Axle crank plates shall be 55 x 6 mm mild steel plate, with brass bearings; mounted outside of the airstream, providing a robust, long lasting operating mechanism, able to handle high turbulence/pressure and velocity. The damper shall be available with a range of control options to suit specialist applications.

All shall be type HCD-225 as manufactured by Holyoake.