

TECHNICAL DATA SHEET

On/Off Vent Damper

VB2



PRODUCT LINE

VB2 - Two Position On/Off Vent Damper

DESCRIPTION

- The VB2 Vent Damper is a single blade On/Off damper. It can be used to prevent airflow through the appliance in an off cycle. Suitable for placement in the connectors or common manifold/breeching of Building Heating Appliances
- VB2 is on/off only, if modulating damper is needed to also control over-draft, see Jeremias VSD Modulating Damper and On/Off Damper System



APPLICATIONS

- Motor actuated on/off gas vent damper for gas vents serving gas or liquid burning Building Heating Appliances
- Minimizes cycle venting losses through boilers and draft hood

FUNCTION

- Open/close damper with appliance on/off
- Appliance calls for heat which activates Controller
- Controller interlocked with actuator, which turns the external damper rod
- The rod is connected to a damper blade that rotates to restrict or relieve exhaust flow
- End switch recognizes open damper which permits the appliance to turn on
- When the appliance shuts down, the damper closes

LISTINGS & RATINGS

- Listed to UL-378 Standard for Draft Equipment
- 0.85" WC maximum static pressure
- Maximum 1000°F continuous flue gas temperature
- 24V DC/AC power supply

CONSTRUCTION

- 20 Gauge 316L stainless-steel housing and blade
- ½" graphite-sealed bearings

CONNECTION/INSTALLATION DETAILS

- ½" flanged connections
- Positioning: horizontal or vertical - shaft must remain horizontal

ADVANTAGES

- Includes a capacitor return safety mechanism
- Condensate tight shaft
- Two auxiliary switches
- Fast acting actuator, 2 or 4 second 0°-90° span

INTEGRATED COMPONENTS

- Damper housing, blade, and shaft
- 0-10 VDC fast-acting actuator
- Vent probe and silicone tubing
- Open and closed position vent switch



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PRODUCT SPECIFICATIONS

VB2 Dimensions - Two Position On/Off Vent Damper

| Dimensional Data - Damper & Actuator | | | | |
|--------------------------------------|-----|---------|--------|---------|
| Model | A | B | C | D |
| VB2 | 4" | 4.875" | 6.625" | 11.25" |
| VB2 | 6" | 6.875" | 6.625" | 12.875" |
| VB2 | 8" | 8.875" | 6.625" | 14.875" |
| VB2 | 10" | 10.875" | 6.625" | 16.875" |
| VB2 | 12" | 12.875" | 6.625" | 19" |
| VB2 | 14" | 14.875" | 6.625" | 21" |
| VB2 | 16" | 16.875" | 8.875" | 23" |

