



POPPET DAMPER

Cost-Effective Gas Flow Isolation

Bachmann's Poppet Damper provides an economical solution for simple on-off isolation of a single gas stream.

Consisting of a shaft and multi-layer disk assembly, the poppet's compact design and fast cycling make it a popular choice for fabric filter (baghouse) isolation applications due to the general configuration and space considerations of typical baghouse assemblies.

The practical and straightforward design, incorporating proven Bachmann® technology, results in reliable performance and low-maintenance over the life of the equipment.

The damper housings support all related controls, operators, and drive mechanisms. Further, the entire poppet assembly is supported through the damper flanges. Housings are engineered to withstand all forces and pressures imposed by the ductwork system, including effects of induced draft.

For ease of maintenance, all operating components of the poppet are replaceable without removing the damper housing from the duct. All items which may require maintenance are readily accessible.

Features

- High-speed opening and closing with pneumatic cylinder actuation
- Self-adjusting, self-aligning seal disc assures proper alignment
- Convenient access for ease of maintenance
- Positive mechanical lockout safety devices for both open and closed positions
- Adjustable disc deflection for optimal sealing efficiency



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Locking Feature

A locking mechanism firmly secures the disk in either the full open or full closed position, preventing any movement due to internal pressure force, vibration or actuator operation. A common padlock secures the mechanism in place, allowing removal of the actuator while maintaining an opened or closed status.

Shaft Design

The shaft is designed to limit disc deflection and eliminate buckling at the design temperature and pressure. Extension shafts are typically heavy-wall pipe. The shaft is vertical in the center of port, guided to maintain alignment and prevent shaft rotation.

Tight Sealing

To prevent the escape of flue gas or the ingress of ambient air, the damper housing is sealed with asbestos-free, adjustable packing glands continuously welded to the damper box at the shaft penetration. An assembly of compressed rings provide tight sealing to or from the atmosphere for up to 5-psi differential.

Actuators and Controls

Double-acting, heavy-duty pneumatic actuators conform to the latest JIC, ANSI, and NFPA standards. Each actuator is sized to function with a specified margin of safety factor at the operating differential pressure. Assembled to the damper frame, the actuator is easy to access for calibration and servicing.

Benefit

- Low-cost solution
- Compact design for tight spaces
- High efficiency sealing
- Low maintenance
- Reliable performance



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