



GUILLOTINES, BLANKING PLATES & SLIDE GATES

for all Power and Industrial Isolation Applications

The guillotine damper, also called a slide gate, is best-suited for isolation applications where low or zero leakage and low pressure drop are important. A guillotine is typically used in natural draft doors, flue gas desulphurization (FGD) systems, and in bypass ducts for isolation of air pollution control and heat recovery units. It is also used in “double block and bleed” applications in petrochemical systems. With over 40 years of application experience Bachmann is the world leader in guillotine damper technology.

Benefits

- Excellent isolation, including zero-leak used in man-safe applications
- Negligible pressure drop
- Smooth opening and closing
- Durable construction for trouble-free operation
- Long-term operational cost savings



The basic mechanical elements of the guillotine damper are a blade, peripheral seal system, external support members and a drive to move the blade steadily and continuously into an open or closed position.

The blade (gate) must have enough strength and stiffness to stand up to its most demanding load, and it is critical that the equipment be properly designed and well-constructed to prevent seal failure or a jammed blade.

Bachmann Iso-Flex Zero-Leakage Guillotine

The Bachmann Iso-Flex Guillotine provides tight shut-off (up to 99.9% without seal air and 100% with seal air). A convex seat in the damper body makes this an ideal damper for rough and dust-laden applications.



The ISO-Flex Guillotine is actuated by a rack and pinion drive system where the rack is installed directly on the blade in order to reduce the dampers overall external footprint.



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The Bachmann ISO-Flex blade is a single membrane having double edges with a flexible seal on the blade periphery that provides an integral backup seal. The Iso-Flex Guillotine requires seal air only during isolation. This is the ideal design for hot duct applications.

A bonnet (with optional heat tracing for corrosive applications) provides a gas tight enclosure for the blade while in the retracted position and is a convenient location for the seal air system. In high temperature configurations, it also provides a remote location for the actuator and gearboxes away from the heat source.

This basic “solid seat” guillotine relies on a metal-to-metal labyrinth seal arrangement created by the blade and guide track. A seal air system can be used in conjunction with flexible seal caps to provide 100% isolation.

Bachmann Iso-Spade Guillotine



The Bachmann Iso-Spade Guillotine features a single thickness, solid plate blade. Standard configurations of the Bachmann Iso-Spade guillotine and seal arrangements include options for low-leak, tight shut-off and zero-leak, depending on system and customer requirements. It is suitable where “knifing” through medium encrustments is desired, but it, like all flat plate knife gate designs on the market, should be limited to lower temperature applications.

The Bachmann Iso-Spade is designed to maximize initial economics and to address certain specific applications. It may be used in rectangular or round, small or medium, ducts. Bachmann guillotine dampers are recognized for sound engineering and durable construction that deliver safe, reliable performance over long years of service.



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