



# Butterfly Valves BD custom damper

*Engineered to last*

## BD DAMPERS ANY SIZE TO 2.2M

MID's Damper valves are very similar in design to the BV, but are more commonly used to throttle air in either dust extraction systems or pneumatic conveying applications.

Manufactured to order, from 500mm to 2.2 metres in diameter, the valve does not provide a pressure rated seal, although by area, the valve seals by over 99.95% and for many customers applications this is adequate.



2.2m inflatable seat valve

## UNIQUELY DESIGNED VANE SEAL

Unlike other damper valves that typically have a seal in the body that the vane closes against, MID's unique BD design moves the seal from the body to the vane itself, meaning that seal changes can be made without removing the valve, saving time and reducing process stoppages.

## WEAR RESISTANCE? GRANULES?

For powder applications we can also remove the vane seal completely leaving a close tolerance clearance of no more than 0.008" which is sufficient to halt the flow of products with granules that exceed this dimension.

We can then manufacture the vane and body from 400 wear plate and create a valve with 4X the life of a standard cast iron valve with no soft seat to wear away or seal to replace.

## ATEX CERTIFICATION

The BD range can be offered with Zone 21 and 22 internal and external ATEX certification

	Internal	External
Zone 0/20	✗	✗
Zone 1/21	✓	✓
Zone 2/22	✓	✓
APD	✗	✗

## RECTANGULAR DAMPER?

In some powder applications, a rectangular damper valve can replace a problematic slide valve, particularly when the slide has a very short stroke. Replacing with a rectangular damper can eliminate the "crabbing" effect that can occur when trying to withdraw a wide slide plate over a short distance. It very often works out to be cheaper too.

## HIGHLY CONFIGURABLE

Standard specification includes;

- cast iron, carbon steel, stainless or aluminium body and vane
- vane and shaft seals including Nitrile, Viton, EPDM and PTFE
- available with manual or infinite lock handles, pneumatic or electric actuation

Options include;

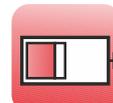
- rectangular design
- high temperature (800°C) gland packing
- exotic materials (Hastelloy, Kalrez)



Butterfly



Rotary



Slide



Knifegate



Diverter



Dyris



Ceramic



Specials



Sifter



Seals

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