

The logo for ADAMS, featuring the word "ADAMS" in a bold, white, sans-serif font. The letter "A" is stylized with three parallel diagonal lines extending from its top-left corner. The background is a dark gray with faint white technical drawing lines, including a grid and several concentric circular arcs.

Custom-made valves
Enduring Reliability

Made in Germany

GBZ/AZI



Tight shut-off, throttle and check valve AZI

Well combined

Our GBZ and AZI combination valves provide a particularly efficient solution: they combine tight shut-off, throttle and check valves in one single unit.

The GBZ and AZI combination valves are especially space-saving as their triple function replaces the two valves that would have otherwise been necessary – the check and shut-off elements. Its shut-off and control operations are achieved via an overrunning clutch. The advantage is that the hydraulically damped disc can move freely and closes automatically and shock-free if a pump fails. Therefore this type of valve is particularly reliable and economical. The GBZ and the AZI are equipped with a hydraulic damping system separate from the operating medium, externally fitted and multi-adjustable.

A summary of the benefits

- Triple function: shut-off, throttling, checking
- Compact dimensions
- Lower loss of pressure (compared with using two valves)
- No flow turbulences
- Low-noise, controlled, shock-free closure
- Damping and braking system externally individually adjustable during operation
- Additional screw retention
- Prepared for subsequent installation of counterweight
- Can be retrofitted with electric positioning drive

Facts & Figures

NPS

GBZ: DN 100 / 4 inches up to DN 800 / 32 inches
AZI: DN 500 / 20 inches up to DN 3000 / 120 inches

Temperature range

-50 °C / -58 °F up to 200 °C / 392 °F

Pressure Class

PN 2.5/6/10/16/25/40
ANSI 150/300

Construction lengths in accordance with

ISO 5752 BS 14 (F4)
Custom-made construction lengths on request

Valves designed in accordance with international standards, e. g.

AD technical instructions, ANSI, API, ASME, ATEX, BS, DGRL, DIN EN / ISO, GOST, KTA, MSS, RCC-M

Operation

Manual, electric, adjustable hydraulically damped

GZA



Tight shut-off, throttle and check valve GZA

Reliability at large nominal widths

The GZA is a combined shut-off and check valve featuring a closure weight and hydraulic controls. The closure system works reliably, even in the event of a complete power failure.

Due to the large possible nominal widths up to DN 4,000, the GZA is often used in cooling water systems for power plants and for penstocks. Its range of applications includes pipe-rupture safety as well as pump and turbine protection. The GZA is manufactured either with massive disc or a bi-plane valve disc design.

A summary of the benefits

- Low pressure-loss coefficients
- Service-friendly construction
- Hydrodynamically designed valve disc
- Operation via an externally positioned closure weight and hydraulic service drive
- Custom-made models with a wide range of options

Facts & Figures

NPS

DN 500 / 20 inches up to DN 4000 / 160 inches

Temperature range

-20 °C / -4 °F up to 150 °C / 302 °F

Pressure Class

PN 2.5/6/10/16/25/40/64
ANSI 150/300

Construction lengths in accordance with

ISO 5752 BS 13 (F16)
ISO 5752 BS 14 (F4)
API 609
Custom-made construction lengths on request

Valves designed in accordance with international standards, e. g.

AD technical instructions, ANSI, API, ASME, ATEX, BS, DGRL, DIN EN / ISO, GOST, KTA, MSS, RCC-M

Operation

Hydraulic