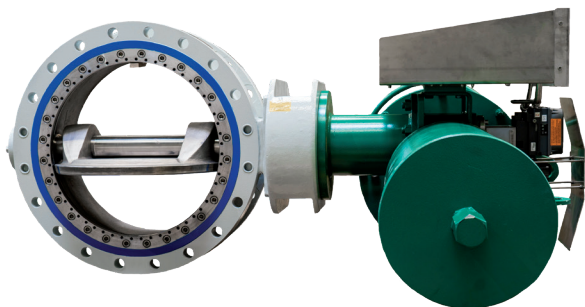




# ADAMS Control valves

## Exceeding control performance

In many applications it is indispensable to have control over the flow rate and operating conditions to guarantee that the processes within the plant are performed reliably. Safe operation is especially important when it comes to the handling of extreme pressures and temperatures as malfunctions can lead to enormous environmental damage and personal injury.



Known as the inventor of the triple eccentric sealing system, ADAMS always strives for innovation and exceeding quality standards. For decades, we have manufactured outstanding control valves for critical applications which feature precise flow control and low actuation torques. Due to their hydrodynamic design, they cause only minimal pressure loss. All ADAMS valves are unique and are developed according to our customer's requirements. With our experienced and dedicated engineers, we design these special constructions to optimally suit your critical operating conditions. Whether the regulation of extreme conditions or of hazardous media is required, ADAMS delivers a control valve of high quality and reliability.

## Quality valves made in Germany

Decades of experience and know-how enable us to construct reliable and long-lasting valves for crucial applications. This is proven by the numerous ADAMS valves, that have been operating steadily for decades and are far away from showing any malfunctions. We have constantly enhanced the technologies to excel the high quality standards we have set for ourselves. The complete development and manufacturing process, beginning with the first construction to the point of the assembly, takes place in our state-of-the-art main production in Herne. This makes it possible for us to guarantee our well-known high quality in every work step - quality made in Germany.

## Control valves featuring excellent characteristics

Currently ADAMS offers several tight shut-off, throttle and control valves that outperform the shortcomings of standard butterfly valves.

The tight shut-off, throttle and control valves type MAK, HTK, OSK and WAK are engineered to reliably regulate extreme conditions. The HTK controls the flow in temperatures up to 950°C / 1,742°F, and features great resilience, even at high switching frequencies. Due to its gas-proof closure the OSK is especially suited for gaseous media. Even in large nominal sizes, it provides extraordinary flow control. Both the OSK and WAK can be installed in any position, making them a flexible solution for limited space.

All of these valves feature zero leakage, a product of the one-hundred-percent tight closing of the triple eccentric sealing system.

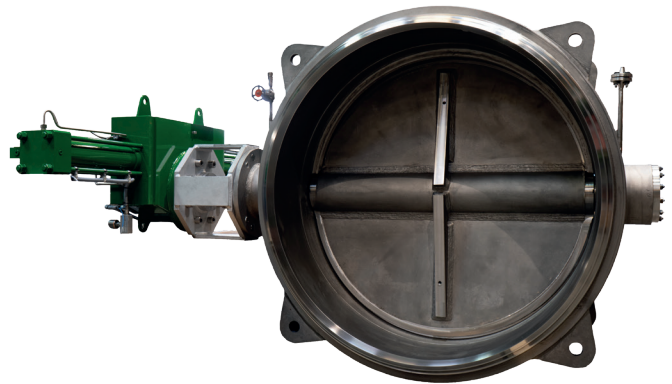
# Innovation of the regulation characteristics

## Extraordinary control ability of the DSK and ASK

The high-quality control valves type DSK and ASK provide excellent control characteristics for processes in the power generation, district heating, petrochemistry, oil and gas industry as well as in the metallurgy.

These valves are ideally suited for both gaseous and liquid media, as they feature precise flow control and exceptional low actuation torques. Both constructions are most flexible and can hence be easily adapted to suit your requirements.

Due to their simple maintenance and low-cost steel welded construction, the DSK and ASK are one of the most economic solutions for accurate flow regulation.



## Innovative engineering for ideal flow charts

An enhanced innovation of the MAKO has been developed with a special design to control pressure loss while efficiently handling cavitation. The special form creates a change in the flow characteristic within the first 20 degree and the last ten degree. This leads to a nearly perfect, equal percentage characteristic curve during the entire range of opening.

This change in the flow chart overcomes the typical shortcomings of standard butterfly valves. These features prevent rapid torque reversal when the pressure is regulated. Additionally, the MAKO offers the extraordinary ability to center the flow to prevent any impact on the valve body or pipe. This leads to less wear and increases the life cycle of both the valve and pipeline.

## Environment friendly discharge

The ADAMS Schweiz AG manufactures special valves for hydropower plants. The outstanding quality of the valves is based on their decades of experience in this application. They have especially designed the hollow-jet valves for precise regulation of the water flow and discharge volume.

The hollow-jet valve is easily adaptable to crucial requirements such as additional electric heaters for the use in cold climate.

