

# ADAMS

ARMATUREN

**HTK and MAG-S**  
Butterfly valves  
designed for  
Ethylene Service  
(Transfer and  
Decoke Line)



Made in Germany

## Certification in accordance with DIN EN ISO 9001

The ADAMS quality management system in accordance with DIN EN ISO 9001 was certified for the first time in 1993. We have regularly obtained recertification ever since. Our quality management includes two points of central importance that we would additionally like to mention. First, the particularly extensive training and further education of the company's employees and second, the maintaining of the company's own test stands for valves with state-of-the-art testing equipment that we use for scrutinizing our finished products and prototypes. That typifies our systematic approach.



## National standards and guidelines

**ADAMS is authorized to develop, produce and test by diverse national standards and guidelines:**

AD information sheets, ANSI, API, ASME, ATEX, BS, PED, DIN EN ISO, GOST, KTA, MSS, NACE, RCC-M...

## Quality tests

Our tests comply with the above-mentioned standards. We perform the testing processes with our own state-of-the-art equipment either personally in-house or in cooperation with well-known testing institutions.

Destruction-free testing procedures

- Dye penetrant test (PT)
- Magnetic particle test (MT)
- Ultrasound test (UT)
- Visual test (VT)
- Leak test (LT)
- Positive Material Identification (PMI)
- X-ray test (RT)



## Reason enough to perform great feats

The plant in Herne was acquired in 1972 and the company management already planned a long way ahead. The land provided sufficient space to expand and thereby accommodate the fourteen production buildings erected so far, as well as the administration building. Today, around 200 employees work in the main administration building and at the plant.

Our plant in Herne / Germany covers 70,000 square meters and currently performs practically all production steps required for the manufacture of valves, including welding, mechanical processing, assembling and approval. Only the making of cast parts is outsourced to certified foundries. We also operate a specially designed large-parts production area for manufacturing oversized valves. The broad scope of production that can be provided by the main plant in Herne is keeping with the high degree of flexibility and quality that we offer our customers.

## Development of Triple Eccentric Rotary Valve technology



ADAMS valves, designed for critical requirements, has proven their reliability and efficiency since 1960 in a wide range of applications throughout the world.

### Triple Eccentric Rotary Tight Shut-off Valve

Rotary valve technology, with metal to metal torque seating, offers exceptional performance, durability and reliability. Our valves have proven their longevity in the most critical applications, under extreme working conditions and millions of cycles.

ADAMS valves are designed to comply with accepted international standards: ANSI, API, ASME, MSS, DIN/EN/ISO, BS, AFNOR, GOST, etc. The manufacturing range includes sizes from 80 mm / 3 inches to 3600 mm / 144 inches, operating temperatures from -196°C / -320°F to 950°C / 1742°F, and pressure ratings up to 400 bar / 6000 psi.

### Standard Materials

Carbon Steel, Low Temp Carbon Steel, Stainless Steel and other special materials such as Duplex and Inconel. A variety of materials allow tailored construction and complete adaptability to meet customers' requirements.

### Process Licensors

Amongst others:

Technip / Stone & Webster / KTI  
Lummus / CB&I  
KBR / Kellogg Sinopec  
Linde

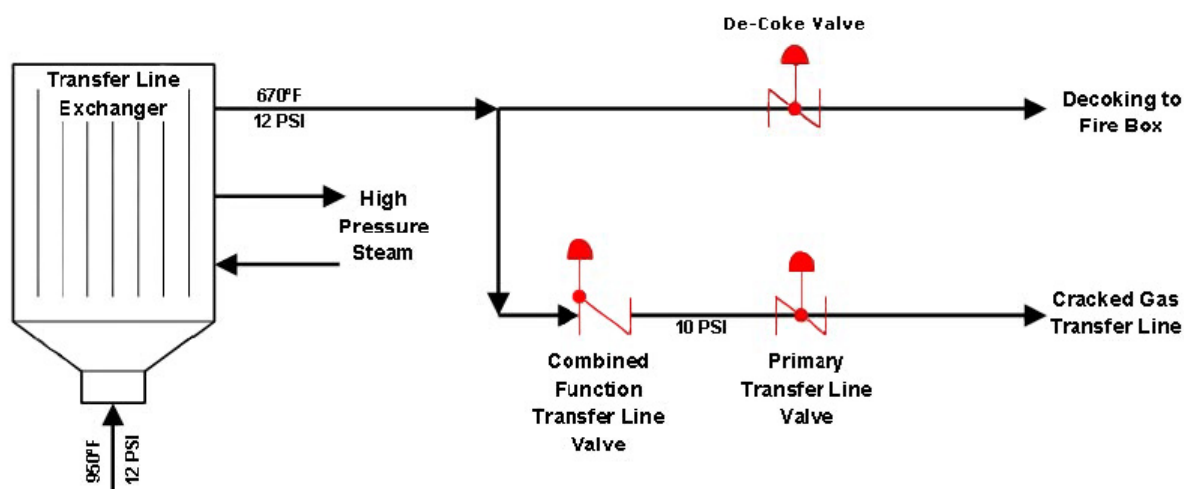
### Endusers

Amongst others:

Formosa Plastics, BASF, DOW Chemical, SINOPEC, Equate, SABIC, Chevron, CNPC, BRASKEM, Lyondell Basell, neos



HTK disassembled from Decoke Line for maintenance



To switch from cracking service to decoking and vice versa, primarily two valves are of importance: the Transfer Line valve (TLV) and the Decoking Valve (DV). During the cracking service the TLV is opened and the DV is closed, while during the decoking procedure, the TLV is closed and the DV opened.

## HTK Valve Tight Shut-off Valve Transfer and Decoke Line



The HTK valve is a rotary tight shut-off valve with metal-to-metal seat for use at high temperatures. A number of small purging holes equally spaced on the seat in a single row (DV) or in double rows (TLV) provide continuous steam purging of the seat to prevent coke build-up on the seating surface. A patented disc seal protection device (Flow Deflector) prevents disc edge erosion caused by coke particles in the flow stream in the full open position.

The ADAMS type HTK valve is specially designed to serve as TLV and DV with interlocking.

## MAG-S Valve Combined Shut Off and Check Valve Decoke Line



The basic element of the MAG valve is a fast acting, tilting disc which is opened by forward flow and designed to close rapidly by gravity just prior to flow reversal. For the power assisted closing operation, the MAG is equipped with an actuator. The torque is transferred to the shaft and disc by a lost motion coupling. The coupling ensures priority function as a check valve to close automatically from any partial or full open position. For remote operation, the MAG valve is usually fitted with an electric actuator.





## Design features

ADAMS HTK and MAG-S valves are available with different unique solutions for Ethylene Service:

- Flow Deflector / Nose Guard
- Solid Seal Ring (and other Disc Seals)
- Steam Purged Bearings
- Seat Purging (Single and Double Row)
- Auto Close Feature MAG-S

## Summary of benefits

- Isolate Effectively and Repeatedly
- Cost Effective
  - o Initial
  - o Long Term
- Easy Installation
- Lower Structural Cost and Easier Engineering
- Environmentally Friendly
- Safe to Operate



### **Contact information**

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