



ADAMS

ARMATUREN

MAK Valve
Rotary tight
shut-off valve



Made in Germany

ADAMS valves since 1960

Founded in 1960 by Karl Adams, the ADAMS Armaturen GmbH has continuously developed valves according to national standards with the help of modern technology. With focus on innovation, reliability and durability, ADAMS has grown to a leading valve manufacturer. We ensure reliability through our systematic trainee program, which enables us to guarantee constant quality in the future.

Expertise through innovative development

The innovation already began in 1960 when Karl Adams registered the first patent for the triple eccentric sealing system, followed by the patent for metallic sealing systems. Due to our longstanding expertise and constant redevelopment, our engineers are able to design valves for special and critical requirements. This is the reason why our valves are as individual as our customers plants.



ADAMS type MAK



Tight shut-off valve MAK

Mature technology for a broad range of applications

Our MAK valves are universally utilisable products with triple-eccentric valve technology, suitable for extreme operating conditions and a high number of actuations. This type of valve has been successfully used since the 70s and is the result of the original ADAMS patent.

The MAK valves are outstanding due to their high degree of reliability. This type of valve has proven its worth in a wide range of applications over the decades. This does not only mean that we have been using the MAK with great success worldwide for almost 60 years, it also means that quite a number of customers are using valves we supplied decades ago, which are still in good working condition in their plants. This is reliability.

One hundred percent tightness "Solid disc"

We have remained true to the basic principle of the triple-eccentric design, which enables valves to provide one hundred percent tightness. Nevertheless, we have continued to enhance details of this design over the years. Our MAK is equipped with a seal in the valve body. This protects the seal from the medium, making maintenance intervals longer and increasing its service life. The special design of the seal enables the valve to be opened and closed without friction, even when working under great temperature differences and full nominal pressure.



Tailor made triple offset technology DN600, #1500 Isolation HP steam turbine

Range of applications

The MAK can be used for a broad range of temperatures and pressures. The MAK has proven to be highly efficient under conditions such as:

- Steam
- High temperature
- Low temperature
- High medium flow speeds
- High pressures
- Aggressive media
- Abrasive media

Types

The MAK is available either as cast or a welded design with flange or butt-welded ends. The welded designs can be implemented in all commonly used materials. We adapt the valves to suit the special needs of our customers and also equip them with additional options. That is how a custom-made valve comes into being. It is one of our strengths to customize valves according to their requirements.

Facts & figures

NPS

DN80 / 3" to DN2400 / 96"
Further nominal widths on request

Temperature range

-196°C / -320°F to 600°C / 1112°F

Pressure class

PN10/16/25/40/64/100
ANSI 150/300/600/900/1500

Construction lengths in accordance with

ISO 5752 BS13 (F16)
ISO 5752 BS14 (F4)
ASME B 16.10, API 609

Valves designed in accordance with international standards e.g.

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

Optional

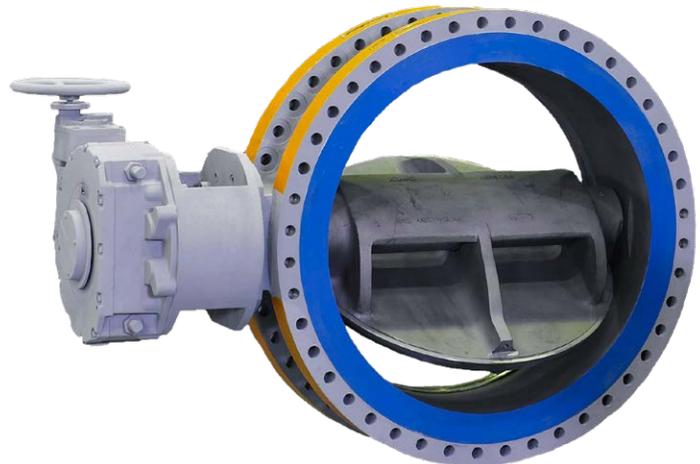
Steam tracing



MAK ESD valve

Summary of the benefits

- Solid disc
- Low-friction function
- High resilience to temperatures
- Fire-Safe tested
- Excellent control characteristics
- Light weight
- Compact, robust design
- Easy to maintain, on site / replaceable seat
- Operational installation on length
- Low Emission
- TA Luft



Operation

Manual, pneumatic, electric, hydraulic

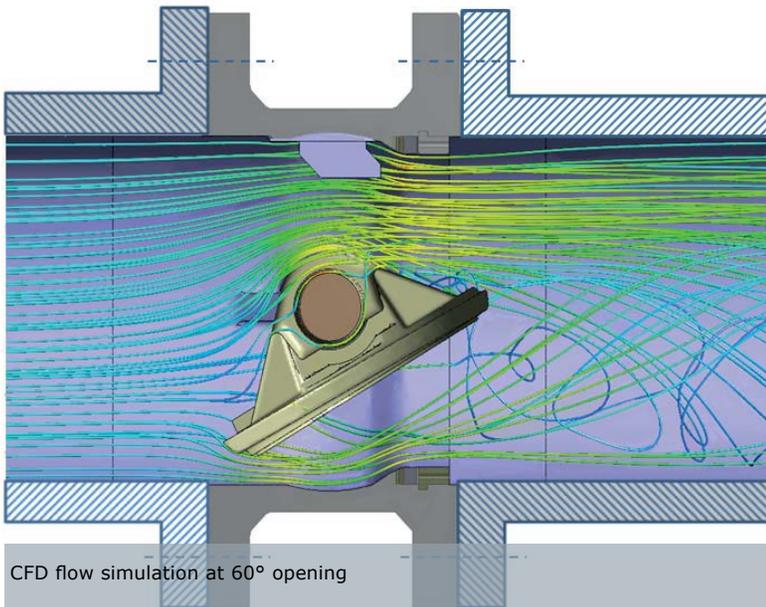
Comprehensive Stockrange

Stock deliveries

Materials

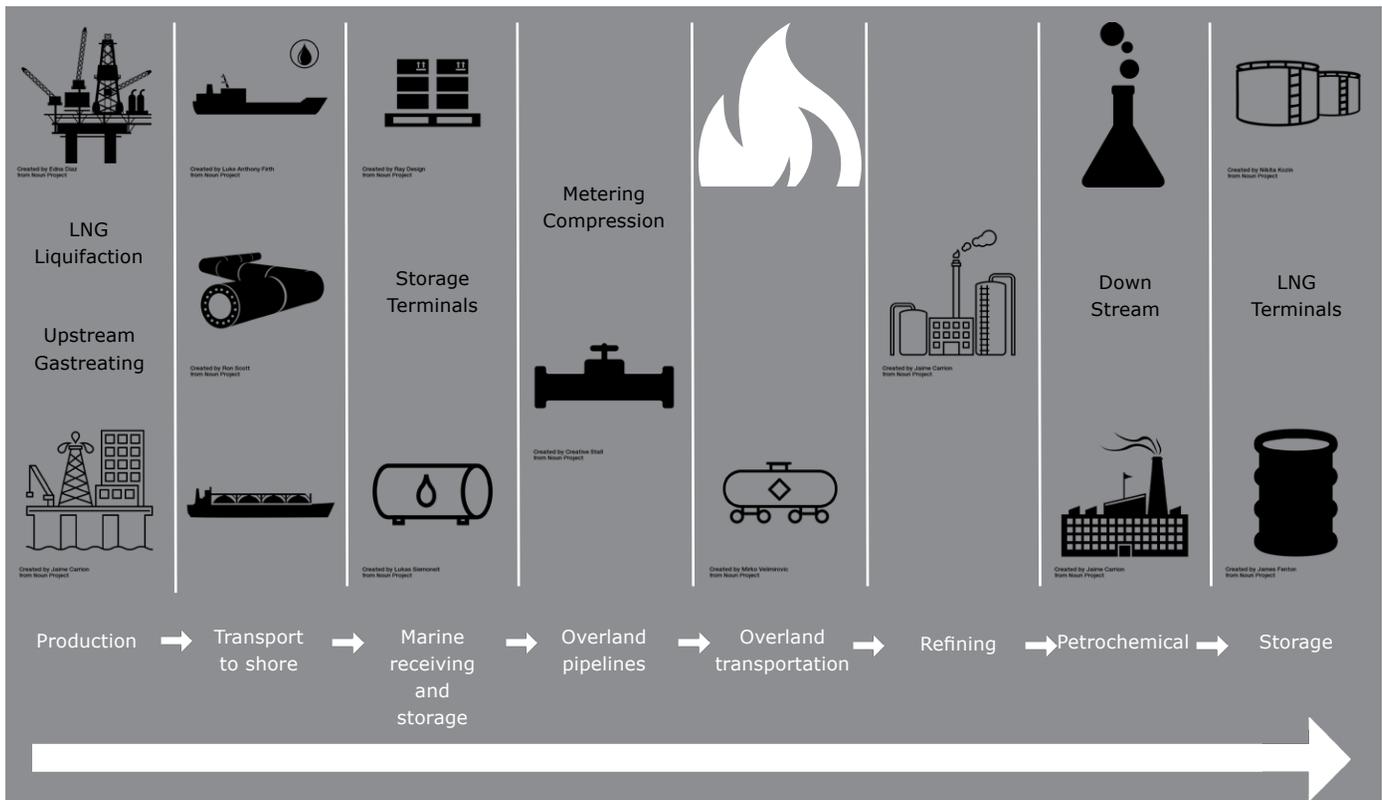
WCB, LTCS, SS, High Alloys Nace Trim

MAK - Reliability in its simplicity

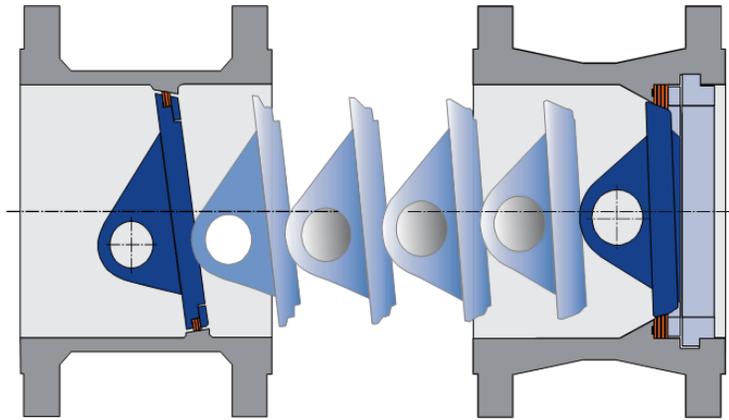


- Light weight
- Field repairable, seat placed in body
- Solid disc
- 100% bi-directional tight shut-off
- Minimal pressure loss
- Excellent control function

Scope of MAK installed base in the global oil and gas supply chain

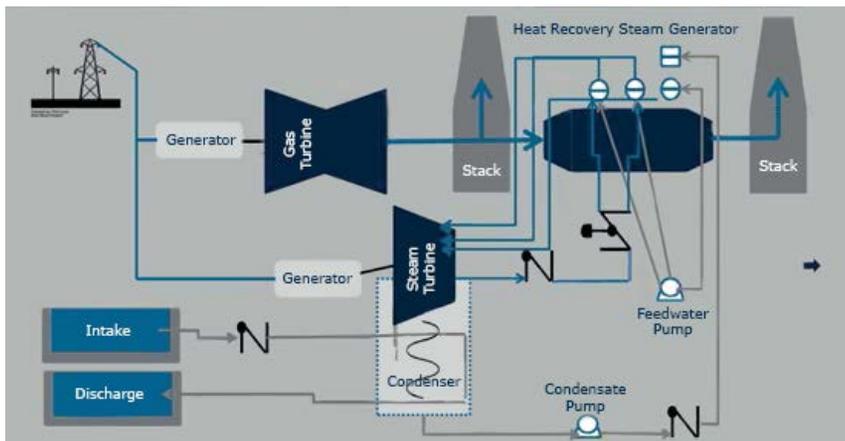


Development of rotary valve technology



This revolutionary improvement in valve technology has set new standards for seal life, tightness and temperature range. The advanced features of this sealing system allows rapid development of special valve designs to meet critical requirements in diverse applications.

MAK installed base power stations



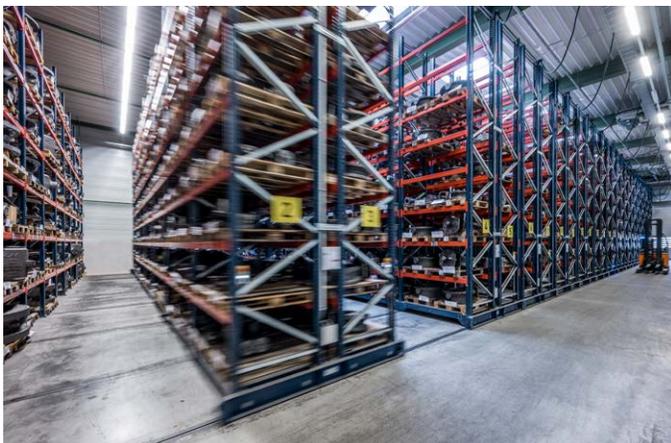
Power stations:

Nuclear, conventional, solar, geothermal.

Applications (not limited)

- Turbine ESD and control valves
- Cold and reheat isolation
- On / off and control valves
- Steam: LP, MP and HP
- Blast furnace gas
- Heat recovery
- District heating

MAK stock availability



Standard valves

ADAMS carries a wide range of MAK triple offset valves from DN80 / 3" to DN1200 / 48" on stock. They are tested according to international standards. These valves are not supplied with special features like actuators, coatings or additional equipment.

If you want to have more information about our stock valves, please refer to our brochure on stock valves or contact your local ADAMS representative.

If you wish to acquire a stock valve, please send your request for quotation to info@adams-armaturen.de or contact your local ADAMS representative.



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