

# coax<sup>®</sup> Valve Technology For Your Application



coax<sup>®</sup> **EXTREM**  
Adaptable

**coaxial VALVES**  
Offer Significant  
Advantages

**QUALITY &  
CERTIFICATES**  
Accurate, Specific, and  
of Highest Quality

coax<sup>®</sup> **INDUSTRIES**  
at a Glance

# EXTREM

Adaptable



## PRESSURE RANGE

0–1,000 bar

## TEMPERATURE

-196 °C to +400 °C

## NOMINAL RANGE

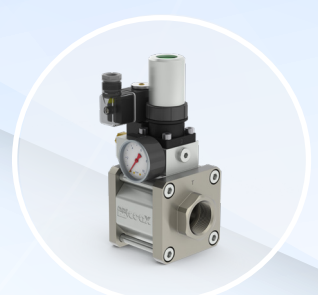
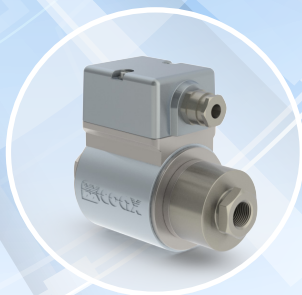
1–250mm

## MEDIUM

Gaseous, liquid, gelatinous...

## Kv VALUE

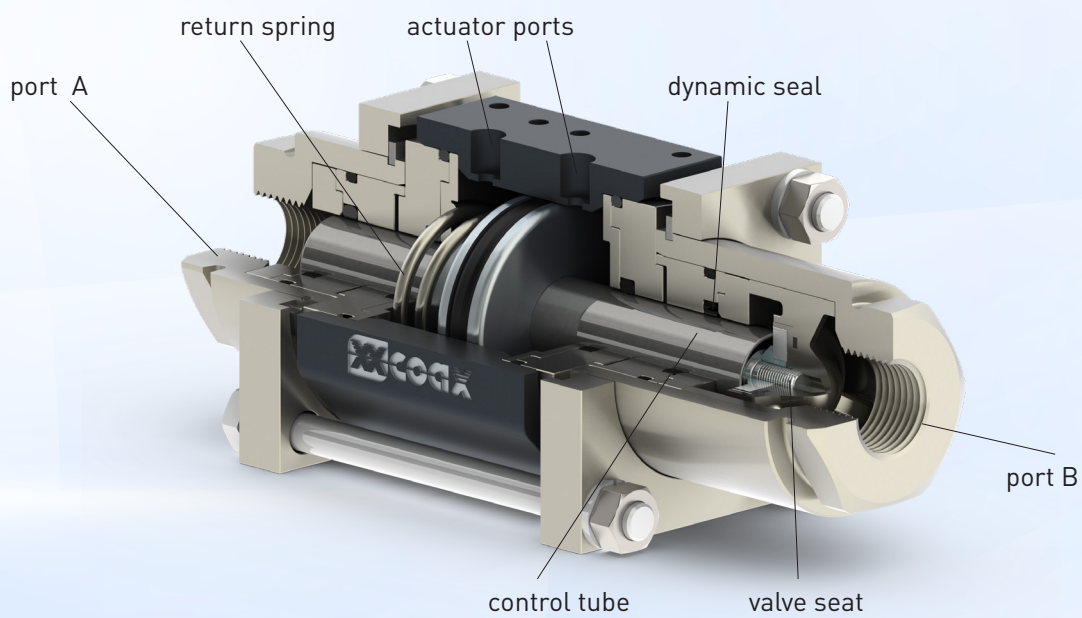
0.06–650 m<sup>3</sup>/h



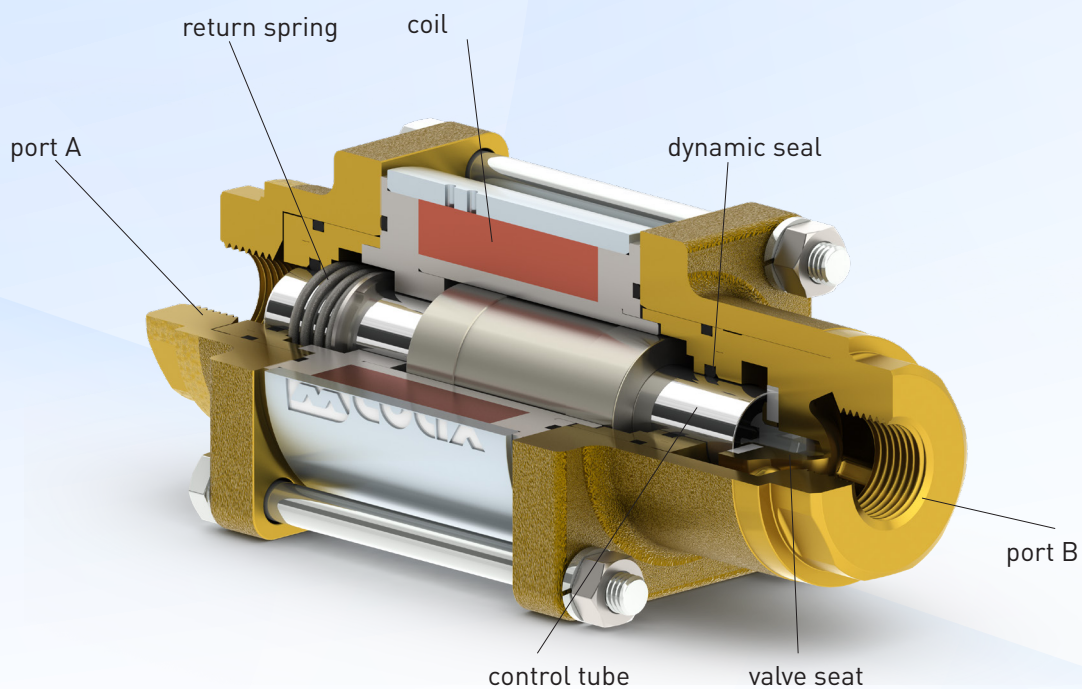
# PRODUCTS

- coaxial valves
- Certified valves
- Cartridge valves
- Lateral valves
- High-pressure valves
- Modules and manifold
- Pressure regulating valves
- Position control valves
- Special valves

## Externally controlled valve



## Direct-acting valve



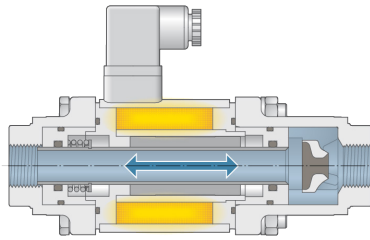
# coaxial VALVES

Offer Significant Advantages



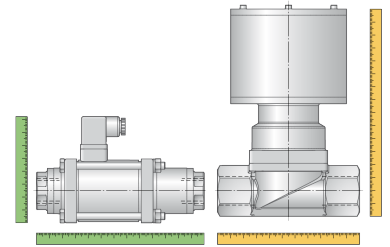
- **Bidirectional flow**

The valve design allows the medium to flow through in both directions, eliminating the need for multiple valves.



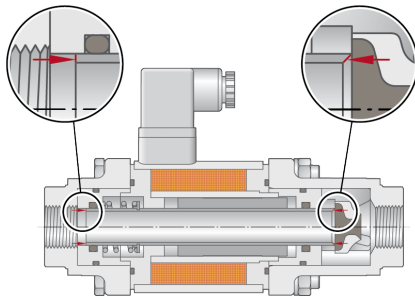
- **Compact size**

The coaxial valve design provides a compact package by eliminating bulky actuators.



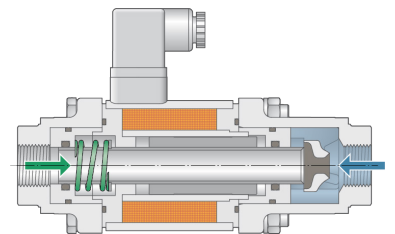
- **Pressure-balanced /operating from 0 bar**

The coaxial design keeps forces within the valve balanced regardless of system pressure and delta P. Whether controlling vacuum or high pressure - performance remains precise and dependable. Unlike conventional valves, coaxial valves require no minimum pressure differential in order to function.



- **Back pressure tight**

When the valve is closed, the pressure at the outlet side can be higher without any leakage.



## Further advantages:

- **Dirt-resistant**
- **Short switching cycles in the range of milliseconds**

# QUALITY & CERTIFICATES

Accurate, Specific, and of Highest Quality



## 100% quality control = 100% reliability

The valves are subjected to a 100% test in our in-house test laboratory. Our products are extremely reliable thanks to the use of high-quality materials and state-of-the-art technology. We have a comprehensive quality management system, which is confirmed by numerous system certificates.

Furthermore, numerous product certifications validate the reliability of our valves. Depending on the variant, coax® valves have various type approvals, including explosion protection certifications according to ATEX and IECEx, approvals as shut-off or relief valves with safety function, and proof in the area of functional safety. On request, our valves can be approved by the ship classification society DNV-GL, LR, BV, ABS, RINA, or CCS.

› DIN EN ISO 9001:2015



› DGRL 2014/68/EU



› ATEX Directive 2014/34/EU – explosion-protected Ex category 1, 2, and 3 devices



› IECEx – explosion-protected equipment of Ex category 1, 2, and 3



› Certified welding operation according to AD 2000-Fact sheet HP0, DIN EN ISO 3834-2 and DIN EN ISO 13445



› IEC 61508 - Functional Safety (SIL)



› UL 429:2013/R:2020-01 and CSA C22.2 No. 139:19



› EU type (Module B) according to Directive 2014/68/EU – Series of automatic shut-off valves for gaseous fuels as equipment with a safety function. Test basis DIN EN 16678:2024-02

› EU type (Module B) according to Directive 2014/68/EU – Series of safety shut-off valves for liquid fuels as equipment with a safety function. Test basis: DIN EN ISO 23553-1:2022-12, E DIN 32725:1993-03

# coax<sup>®</sup> INDUSTRIES

## at a Glance



Two things we have perfected over the years, to deliver true added value for you:

### Unique valve design

As the inventor of the coaxial valve, we are always working to remain a leader in our industry. .

### Selection of materials and options

We offer maximum flexibility, thanks to our broad portfolio of accessories. We can quickly and easily make adjustments to valves for specific applications.

In addition to coaxial valves, we offer many other valve types and series. Our flexibility allows us to offer customized solutions for a wide range of cus-

tomers groups. Just look at the diversity of valves we offer, currently over 60,000 variants.

We continuously expand and optimize our portfolio to fulfill current and future customer and market demands.

Expertise, decades of experience and competent advising make us a strong partner in many different markets:



SCAN  
FOR  
MORE

Machine and plant construction



Marine



Chemical industry



Energy



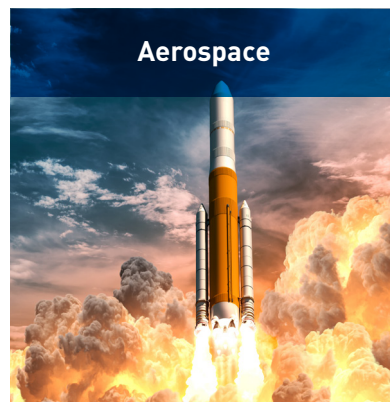
Oil and gas



Construction industry and transportation



Aerospace



Hydrogen



# müller coax gmbh

Your Strong Global Partner

Around  
**350**  
employees

**44**  
countries

**8**  
subsidiaries

**30+**  
sales partners

Production  
and development in  
**Forchten-  
berg**

müller co-ax gmbh is a leading valve manufacturer and worldwide market leader in the field of coaxial valve technology and high-pressure armatures.

**Made in Germany** – developed and produced at our headquarters in Forchtenberg, our valves are used by customers from a wide range of industries around the world. Through customization, customer orientation, and over 60 years of expertise in the industry, müller coax is a valve manufacturer that meets new challenges head-on and develops tailor-made solutions.



[www.co-ax.com](http://www.co-ax.com)

## Our sales experts

# Experience customer proximity

With a worldwide network of sales partners, we are always close to our customers and are familiar with their markets and requirements.

To understand exactly what matters most to you, our sales experts work in close cooperation with you. This allows us to always have a clear picture of your needs. And you can rest assured that you get exactly what's needed.

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