What are the benefits of coaxial valve technology?

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VALVE DIVERSITY

With our **wide range of valves,** we offer **customized solutions.**
You can always rely on our valves, even under **extreme conditions**. This is also reflected in our slogan:

We start, where others stop!

Orifice
1 mm up to 250 mm

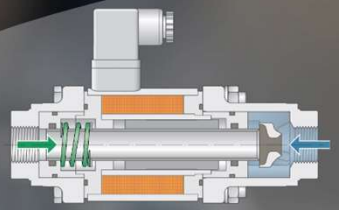
Kv value
0,06 m³/h up to 650 m³/h

Pressure range
0 bar (0 psi) up to 500 bar (7252 psi)

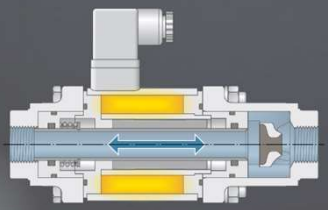
Temperature range
-196°C (-321°F) up to +400°C (752°F)

More than 60.000 valve variants!
We offer the best solution for every application.

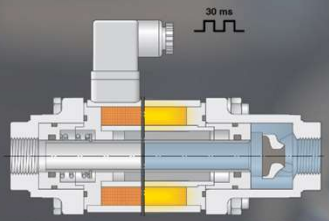
COAX – THE ORIGINAL



back pressure tight

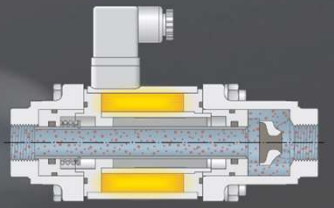


bi-directional operation

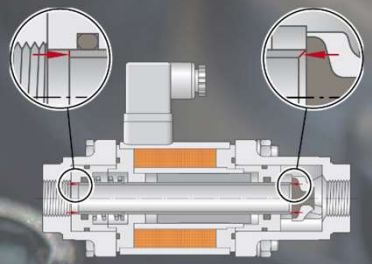


fast actuation

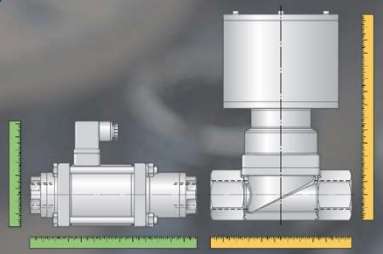
Inventor of the coaxial valve



contamination resistant



pressure balanced



compact size

Coaxial means that the actuator is located **around the control tube**: they are on **one axis.**

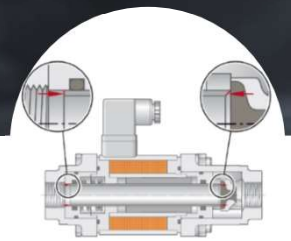
Our solutions offer **process optimization and effiency** for our customers.

Click here for more information:

Overview coaxial valves

Valve animations

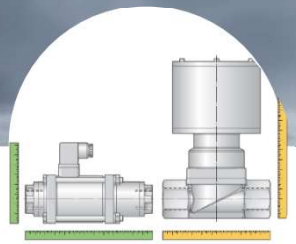
FEATURES AND BENEFITS OF COAXIAL VALVE TECHNOLOGY



Pressure balanced

➢ **Due to the pressure balanced valve design, the system pressure or Δp has no effect on the switching forces (no plug effect)**

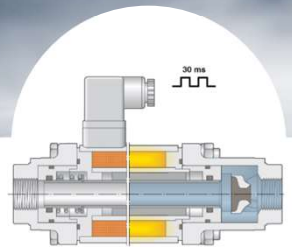
- Unlike conventional valves, coaxial valves require no minimum pressure differential in order to function/ operating from 0 bar
- Whether controlling vacuum or high pressure - performance remains precise and dependable
- High pressures can be switched with low energy



Compact size

➢ **The compact size results from the unique coaxial valve design: the actuator is located around the control tube**

- The coaxial valve design provides a compact package by eliminating bulky actuators
- The coaxial valves fit into the pipeline and perfectly suitable for small installation space

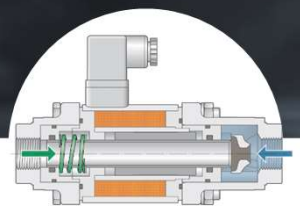


Fast actuation

➢ **Fast actuation and short switching times due to pressure balanced valve design**

- Repeatable operation in less than 30 milliseconds
- For applications that require precise switching and a high number of switching cycles

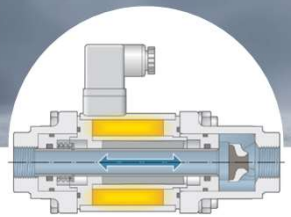
FEATURES AND BENEFITS OF COAXIAL VALVE TECHNOLOGY



Back pressure tight

➢ **When the valve is closed, the pressure at the outlet side can be higher without any leakage due to the pressure balanced valve design**

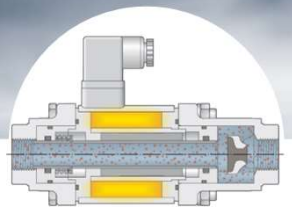
- For pneumatic or hydraulic operated valves, back pressures up to the full pressure level are possible
- For electric operated valves, back pressures up to 16 bar are possible
- Other valves such as check valves are not required



Bi-directional operation

- **The valve design allows the medium to flow through in both directions**

- Eliminating the need for multiple valves
- 100% reliability for the operation in both directions



Contamination resistant

➢ **The coaxial valves are contamination resistant due the special valve seat design and only one moving part**

- No failure of the valves even with contaminated media
- Process reliability
- 100% tightness and with solenoid valves also to the outside
- Long lifetime and low maintenance

eXceed the limits

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