Control valves in more than 10,000 variants! – Individual. Precise. Durable:

STEVI®
Expert control

NEW from ARI!

STEVI® Vario:
The variable, compact control valve
(Series 448/449)

NEW from ARI!

STEVI® Pro:
The high-performance control valve for critical applications
(Series 470/471 DP)

3-way valves:
Precision mixing / diverting
(Series 450/451)

STEVI® Smart:
The classic standard valve for universal applications
(Series 440/441)
STEVI® Smart (straightway valves, Series 440/441)

The classic standard valve for universal applications

- 50:1 rangeability for precision and high performance (inherent rangeability 40:1)
- Variable: stem seal options (PTFE V-ring unit, PTFE packing, graphite packing, stainless steel bellows seal, EPDM lining)
- Long life: precision stem guiding
- Safe: two-ply bellows seal (optional)

Plug design: Parabolic plug, optional V-port plug (optional pressure balancing in both cases from DN 65) / equal-percentage or linear characteristic
Nominal diameter: DN 15-500
Nominal pressure: PN 16-40
Actuators: Electric or pneumatic
Body materials: e.g. EN-JL1040, EN-JS1049, 1.0619+N, 1.4408
Flow media: e.g. cooling water, brine, warm water, hot water, steam, gas, refrigerant, heat transfer oil, etc.

STEVI® Smart (3-way valves, Series 450/451)

Precision mixing/diverting

- 30:1 rangeability for precision and high performance
- Variable: reducible Kvs values
- Variable: stem seal options (PTFE V-ring unit, PTFE packing, graphite packing, stainless steel bellows seal, EPDM linings)
- Variable and economical: two screwed seat rings (optional)
- Long life: stable plug guidance
- Long life: precision stem guiding
- Safe: two-ply bellows seal (optional)

Plug design: Mixing plug / diverting plug
Nominal diameter: DN 15-300
Nominal pressure: PN 16-40
Actuators: Electric or pneumatic
Body materials: e.g. EN-JL1040, EN-JS1049, 1.0619+N, 1.4408
Flow media: Cooling water, brine, warm water, hot water, refrigerant, heat transfer oil, etc.
STEVI® Pro (straightway valves, Series 470/471)

The high-performance control valve for professional control and critical applications

- Precise and high performance: optimised characteristic quality
- Variable: up to 6(!) reducible Kvs values
- Variable: stem seal options (PTFE V-ring unit, PTFE packing, graphite packing, stainless steel bellows seal, EPDM lining)
- Variable: changeable trim
- Minimal noise: multi-stage trim (optional)
- Safe: blow-out proof stem
- Safe: shaft guided plug
- Safe: two-ply bellows seal (optional)
- Long life: precision stem guiding
- Precise: even better control accuracy (optimised flow paths)

STEVI® Vario (straightway valves, Series 448/449)

The variable, compact control valve

- Long life: stem seals already proven millions of times over, service life now further extended (PTFE V-ring sealing units and EPDM linings)
- Optimum handling: upper part can be rotated 360°
- Flexible: changeable, variable trim (at least 4 Kvs values as well as multiple flow characteristics and plug designs)
- Precise and durable: vibration is prevented even at high differential pressures (stable shaft guiding)
- Easy handling: small footprint and reduced weight (low height)
- Economical: very low air consumption (smaller pneumatic actuators on request)

Plug design: Parabolic plug / perforated plug
Nominal diameter: DN 15-100
Nominal pressure: PN 16-40
Actuators: Electric or pneumatic
Body materials: e.g. EN-JL1040, EN-JS1049, 1.0619+N, 1.4408
Flow media: e.g. brine, warm water, hot water, refrigerant, steam, gas, etc.

Plug design: Parabolic plug, optional V-port or perforated plug (optional pressure balancing in both cases)
Nominal diameter: DN 15-250 / NPS 1”-8”
Nominal pressure: PN 16-160 / ANSI Class 150-300
Actuators: Electric or pneumatic
Body materials: e.g. EN-JL1040, EN-JS1049, 1.0619+N, SA216WCB, 1.4581 and 1.7379
Flow media: e.g. hot water, steam, gas, refrigerant, brine, etc.
ARI-DP pneumatic actuators

- High performance: broad spring rangeability (Higher closing forces)
- Practical: reversible operating direction
- Economical: favourable size / performance ratio
- Variable: wide range of accessories (positioners, solenoid valves, limit switches, etc.)
- Sizes up to 2800 cm² diaphragm area (DP 35)
- Durable even in aggressive environments: corrosion-resistant design (optional)
- Added safety through manual override (optional)

Nominal diameter: Diaphragm area 80-2800 cm²
Actuating force: 490-83,000 N
Max. permitted air supply pressure: 6 bar
Operating modes: Spring closes / air supply pressure closes body seat

ARI-PREMIO® and PREMIO® Plus 2G electric actuators

- Safe: high operating temperature protection in duty types S3 80% ED / max. 1200 c/h (2.2 kN) and S3 50% ED / max. 1200 c/h (5 kN) acc. to EN 60034-1
- High performance: optimised gear transmission and improved load cut-off
- BLDC motor: significantly reduced power consumption, exceptionally smooth and quiet running due to circular rotating field, high duty classification (ED) even at high actuating forces because self-heating of the motor is restricted to a minimum, integrated Hall sensors guarantee reliable position measurements (PREMIO® Plus 2G)
- User friendly operator panel with variable control speeds (PREMIO® Plus 2G)
- Improved Economy Function for even better durability, e.g. more efficient, low-wear conversion of control signals (PREMIO® Plus 2G)
- Variable speed control for extended gear lifetime (PREMIO® Plus 2G)
- High durability and precision because small positional deviations are approached at low speed (PREMIO® Plus 2G)
- Optional: version with fail-safe function

Other actuators available on request!

Actuating force: 2.2 kN, 5 kN, 12 kN or 15 kN
Permissible ambient temperature: -20°C to +70°C
Compatible with a wide voltage range (AC from 90 to 264 V / 47 to 63 Hz or DC from 137 to 370 V) (PREMIO® Plus 2G)
Positioner: freely selectable analogue control signal (0 to 10 V or 4 to 20 mA)
“Even more STEVI® diversity...”

STEVI® 405/460
Automatic stop valve (with electric or pneumatic actuator)
- Precise: optimised control accuracy even at low flow rates (rangeability 30:1)
- Economical: maintenance-free, frictionless EPDM lining
- Variable: available with cast iron flanges or red brass sockets
- Flexible: intelligent PACO® electric actuators
Applications: HVAC and industry (for low differential pressures and low flow velocities)

Series 405/460

STEVI® 415
Automatic blow-down valve – e.g. for steam boilers or autoclaves
- Long life: precision stem guiding
- Safe: two-ply bellows seal (optional)
- Variable: stem seal options (PTFE V-ring unit, PTFE packing, graphite packing, stainless steel bellows seal, EPDM linings)
Applications: Industry, chemicals, shipbuilding

Series 415

STEVI® 453
Feedwater control valve with integrated pump spill-back
- Permanently reliable because the pump is protected (guaranteed supply of feedwater – integrated pump spill-back)
- Variable: Kvs values adapted to the quantities required
- Long life: trim optimised for critical operating conditions
Applications: Boiler construction / plant manufacturing

Series 453
Reliable, precise, individual for more than 40 years...

... Control valve technologies for control and mixing / diverting

- More than forty years experience in the development and sale of advanced control valve technologies
- Your strong service partner – with 13 branches and sales partners in more than 60 countries worldwide
- A sharp focus on our customers, competent advice and short delivery times
- All ARI products are developed in keeping with the very latest design standards, tested under the most rigorous conditions on our in-house experimental facilities, manufactured with the highest possible precision and subjected to continuous in-process quality controls
- Comprehensive design know-how, for example through ARI-myValve®, our user-friendly sizing software
- ARI products are manufactured at three different locations – all of them in Germany. Benefit for you: quality “Made in Germany” – certified acc. to DIN ISO 9001. Numerous product approvals, e.g. Det Norske Veritas and Lloyd’s Register Quality Assurance
- High degree of vertical integration for flexibility, speed and professionalism
- What sets us apart: all valves and all electric and pneumatic actuators are developed and manufactured in-house
- We make it as simple as possible for you to order – by recommending valve-actuator combinations tailored to your individual needs
- If you too would like to profit from ARI’s extensive know-how and experience, just give us a call. You are also welcome to visit one of our regular training events in Germany or abroad!

Expert control made by ARI – profit from a wide array of services and a strong partnership!
Modern development methods, tested in our own experimental lab

Finite element analysis
The finite element analysis (FEA) is a numerical calculation technique that is used to simulate stresses and their distribution. The aim is to achieve the required strength at pressure load levels in combination with an optimal weight and a flow friendly shape.

State-of-the-art flow simulations
The twofold objective of uniform flow and high flow capacity is realised with the aid of special flow software. The software simulations enable the flow velocity, flow direction and pressure distribution to be visualised. Due to the optimised geometry, turbulences and pressure loss are reduced to a minimum.

Optimum handling: easy start-up of the PREMIO® / PREMIO® PLUS 2G

Modern technologies
are the key to optimal safety and reliability.
Our products are manufactured at three different locations – all of them in Germany – promptly and according to rigorous quality criteria.
High performance machining centres, automated assembly cells, programmable assembly robots and a highly qualified team of staff are vital prerequisites of top-quality product solutions specially tailored to your individual requirements.
The benefit for you: Optimal reliability and efficiency.
Technology is our life
Highly qualified ARI engineers develop products for tomorrow's world using the very latest techniques. Our suppliers are selected according to the strictest possible criteria, to ensure that only premium quality materials are used. Our state-of-the-art production technologies leave no room for mistakes.

Thanks to our dense sales network, expert advice is available from a sales partner close to you in more than 60 countries worldwide as well as from ARI branches in Austria, Denmark, the UK, France, Spain, Italy, Russia, the USA, India, China, Malaysia, Singapore and Dubai.

Are you a professional user of high-quality, heavy-duty valves? Would you like to reap the benefits of a strong partner? Our mission is to help you maximise your profit.

Tailor-made solutions
20,000 products in more than 200,000 variants mean almost unlimited possibilities depending on your application, with solutions specially tailored to your individual requirements.

Control valves, pressure reducing valves, pressure regulators, temperature controllers without auxiliary power, butterfly valves, globe valves, safety valves, steam traps, measuring technologies and accessories such as pressure reducing stations, heat exchangers, condensate return systems and condensate pumps – your key to maximum flexibility and efficiency.

Your strong partner – in more than 60 countries worldwide


Quality that pays off
Our continuous quality monitoring throughout all phases of the production process is documented in some twenty system approvals from acceptance bodies and classification societies like Det Norske Veritas, Lloyd’s Register Quality Assurance, German Lloyd, SELO (China), CCS (China), the Korean Register, the Russian Maritime Register of Shipping, TR CU (EAC), Rostecnadhzor (Russia) and many more.

Quality made by ARI – your key to reliability, durability and guaranteed safety.
ARI product diversity

**Control**

- Control valve
  - STEVI® Smart
    (Series 423/463, 425/426, 440/441, 450/451)
  - STEVI® Vario
    (Series 448/449)
  - STEVI® Pro
    (Series 422/462, 470/471, 472)
- Control without auxiliary power
  - PREDU® / PREDEX® / PRESO® / TEMPTROL®

**Isolation**

- Process valve
  - ZETRIX®
- Butterfly valve
  - ZIVA®
- Bellows sealed valve
  - FABA® Plus, FABA® Supra I/C
- Stop valves with gland seal
  - STOBU®

**Safety**

- Safety valves (DIN)
  - SAFE
- Safety valves (API 526)
  - SAFE TCP
- Safety valves (ANSI)
  - ARI-REYCO™ RL-series

**Steam trapping**

- Steam traps
  - CONA® (mechanical ball float / thermostatic bimetallic and membrane / thermodynamic), monitoring systems
  - CONA® Control
- Manifolds
  - CODI® for collecting and diverting purpose
- Steam trap with multi-valving technology
  - CONA® “All-in-One”
    (incl. stop valve, inside strainer, back-flow protection, drain valve)
- Mechanical pump systems
  - CONLIFT®, CONA® P

Profit from diversity made by ARI.
Please don’t hesitate to ask for more information!

www.ari-armaturen.com