

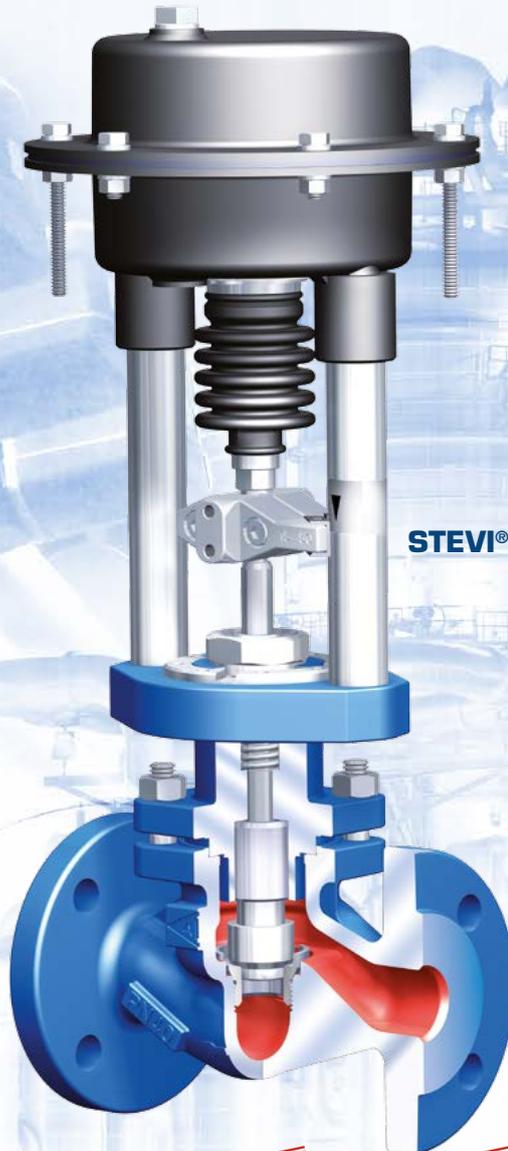
Control valves in more than 100,000 variants! – Individual. Precise. Durable:

STEVI®

Expert control



STEVI® Smart



STEVI® Vario



STEVI® Pro

NEW
from ARI!

NEW
from ARI!



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

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

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

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

STEVI® Smart (straightway valves, Series 440/441)

The classic standard valve for universal applications

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

Precision mixing/diverting



Series 440



Series 441



Series 450



Series 451



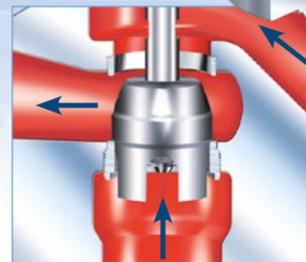
Stem seal options for flexibility (here: PTFE V-ring units)



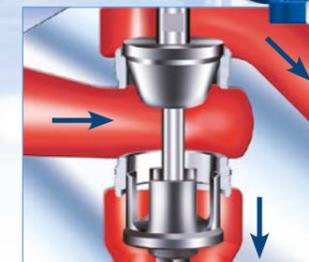
Economical due to rolled seat ring



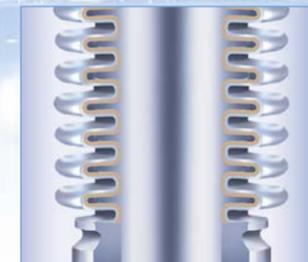
Optional pressure balancing plug reduces the required actuator forces and enables increased efficiency



Variable: mixing plug



Variable: diverting plug



Safe: two-ply bellows seal (optional)

- 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.

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

The variable, compact control valve

STEVI® Pro (straightway valves, Series 422/462, 470/471, 472)

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



Series 448 PREMIO®



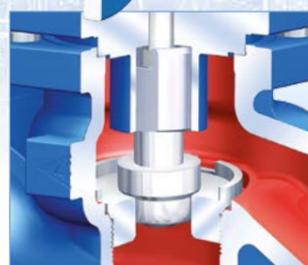
Stable shaft guiding for precision and durability



Rotatable upper part for optimum handling



Series 448 DP



Screwed seat ring provides flexibility



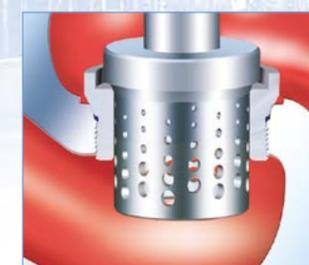
Series 470



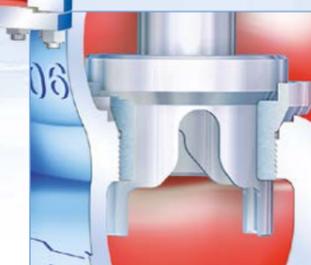
Safe even under exacting conditions (blow-out proof stem / shaft guided plug)



Series 422 DP



Flexibility: variable in situ replacement of the trim – stem, plug (here: perforated plug) and seat ring



High performance due to double guiding (V-port plug)

- 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.

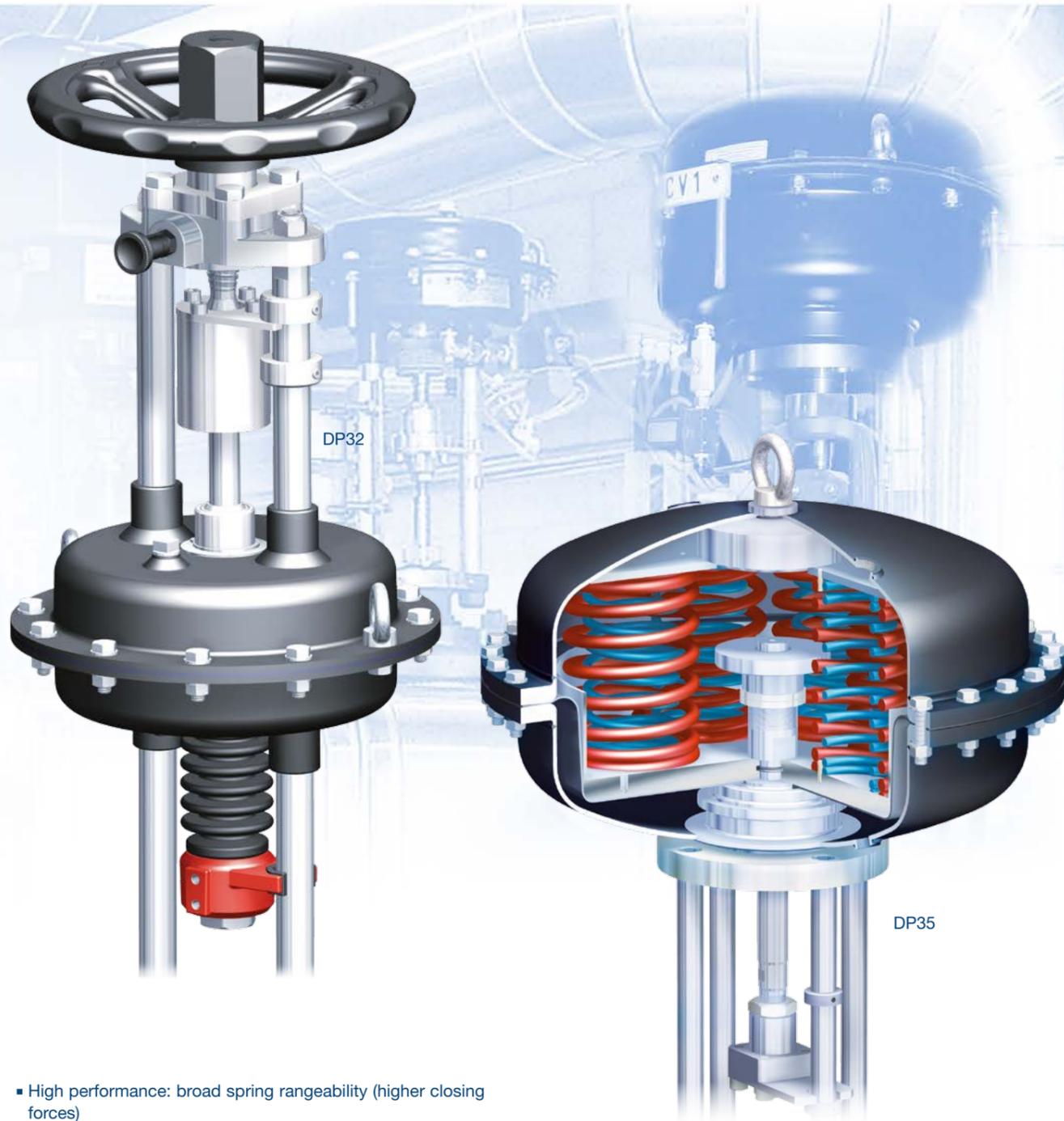
- Precise and high performance: optimised characteristic quality
- Variable: up to 6(!) reducible Kvs values
- Variable: stem seal options (PTFE V-ring unit, PTFE packing, graphite packing, stainless steel bellows seal, EPDM lining)
- Variable: changeable trim
- Minimal noise: multi-stage trim (optional)
- 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)

- Flexible: wide range of applications (very high differential pressures up to max. nominal pressure)

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.

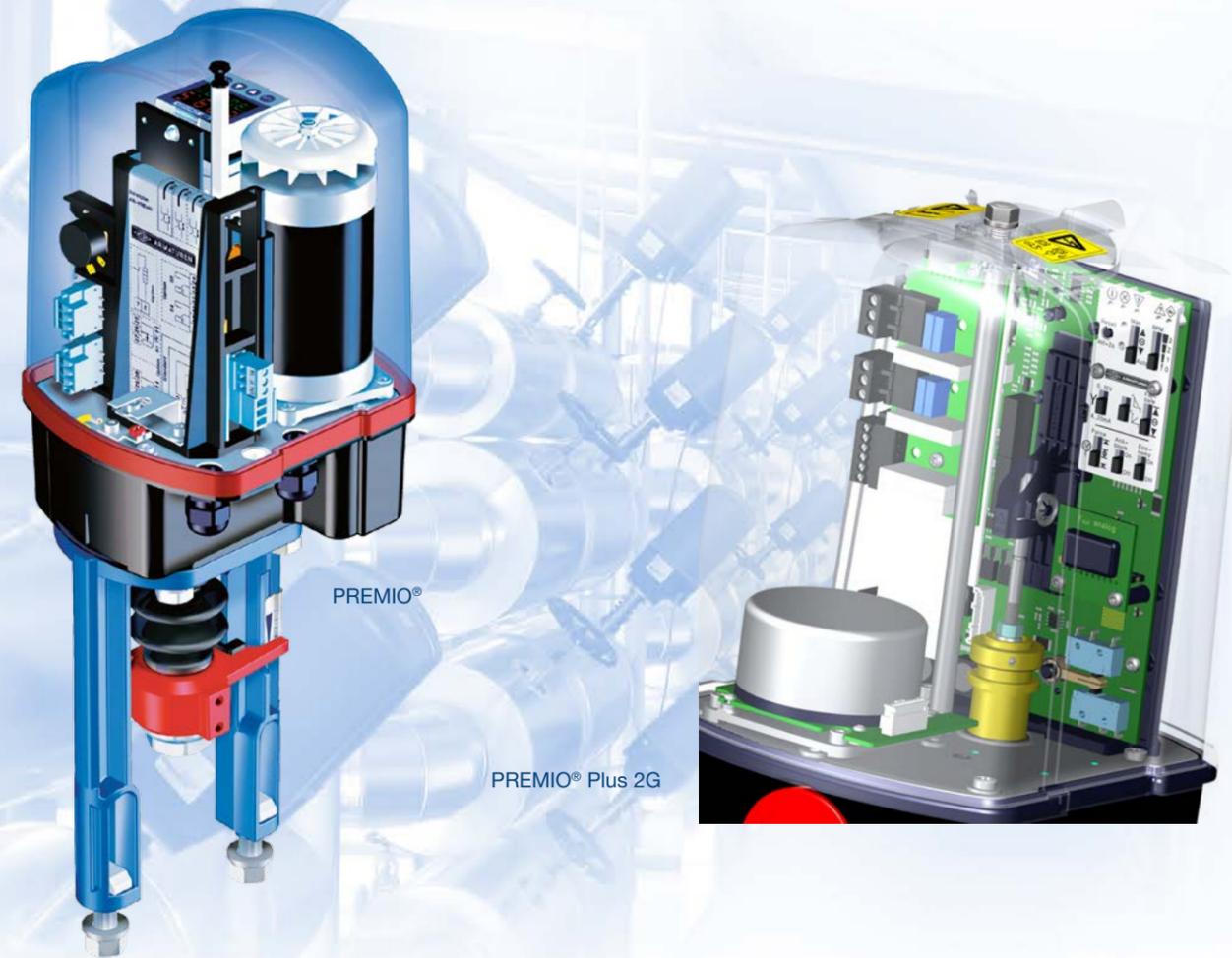
ARI-DP pneumatic actuators

ARI-PREMIO® and PREMIO® Plus 2G electric 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



Reduced power consumption, optimised handling, extended lifetime

- 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...”



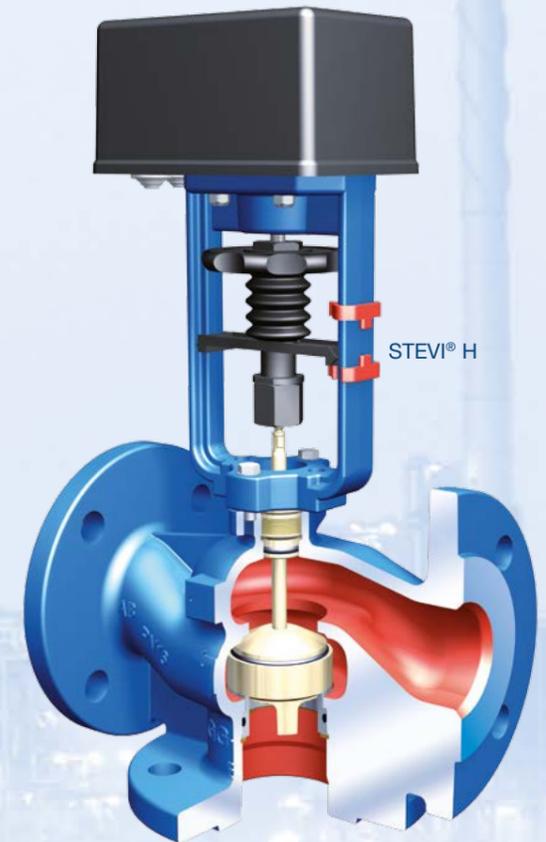
Series 453



Series 415



Series 405/460



STEVI® H

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

STEVI® 415

Automatic blow-down valve – e.g. for steam boilers or autoclaves

- Optimum handling: compact design
 - Flexible: accessories adapted to the blow-down process (e.g. limit switches, solenoid valve, time delay relays, etc.)
 - Optional: operation by means of a separate lever (for quick and easy manual control)
- Applications: Boiler construction

STEVI® 405/460

Automatic stop valve (with electric or pneumatic actuator)

- 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

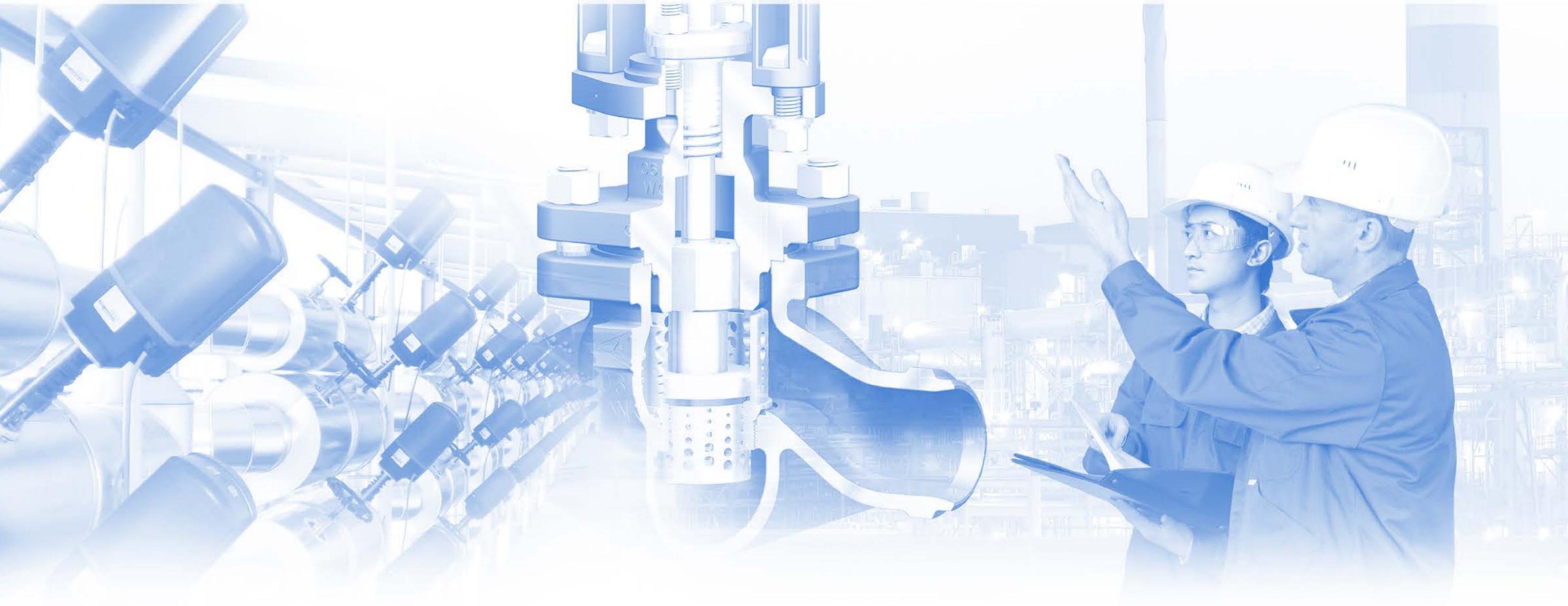
STEVI® H

Lightweight, compact valve

- 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)

STEVI®

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

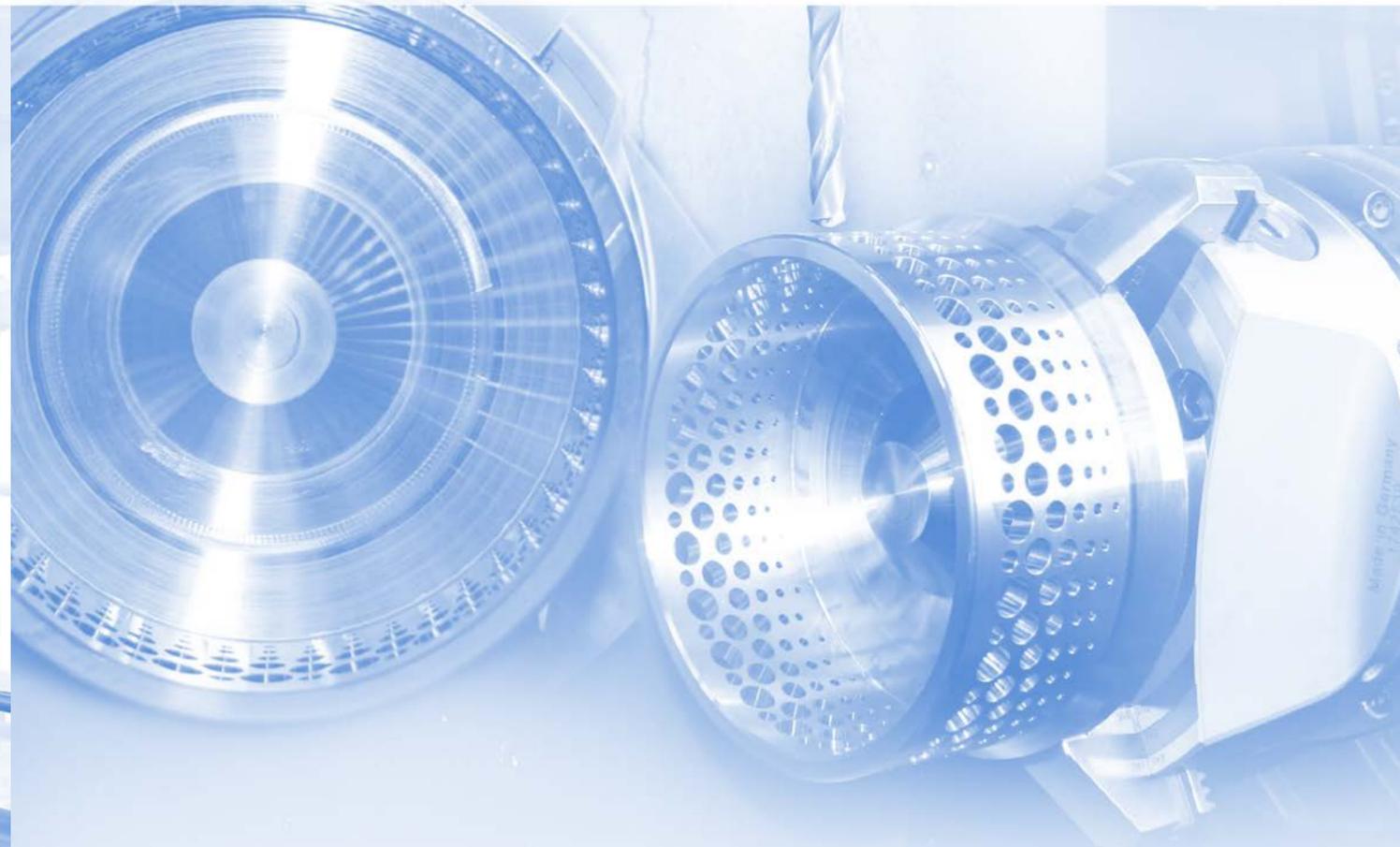
- High degree of vertical integration for flexibility, speed and professionalism
- What sets us apart: all valves and all electric and pneumatic actuators are developed and manufactured in-house
- We make it as simple as possible for you to order – by recommending valve-actuator combinations tailored 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!

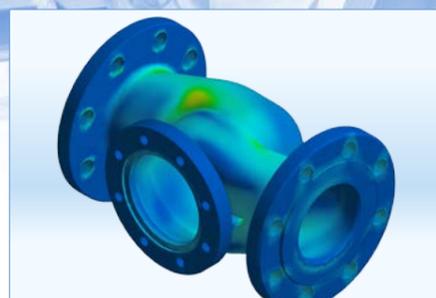
**Expert control made by ARI –
profit from a wide array
of services and a strong
partnership!**

Modern development methods, tested in our own experimental lab

High-precision manufacturing

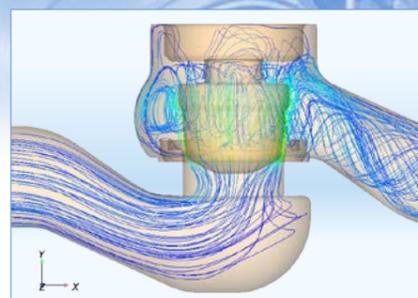


ARI's own test bench



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.

Your strong partner – in more than 60 countries worldwide

For control – isolation – safety – steam trapping – system engineering.



● Branch offices
● Agents

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.



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), Rostechнадзор (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® / TEMPTRON®

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
SAFE TCP



Safety valves (API 526)
ARI-REYCO™



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