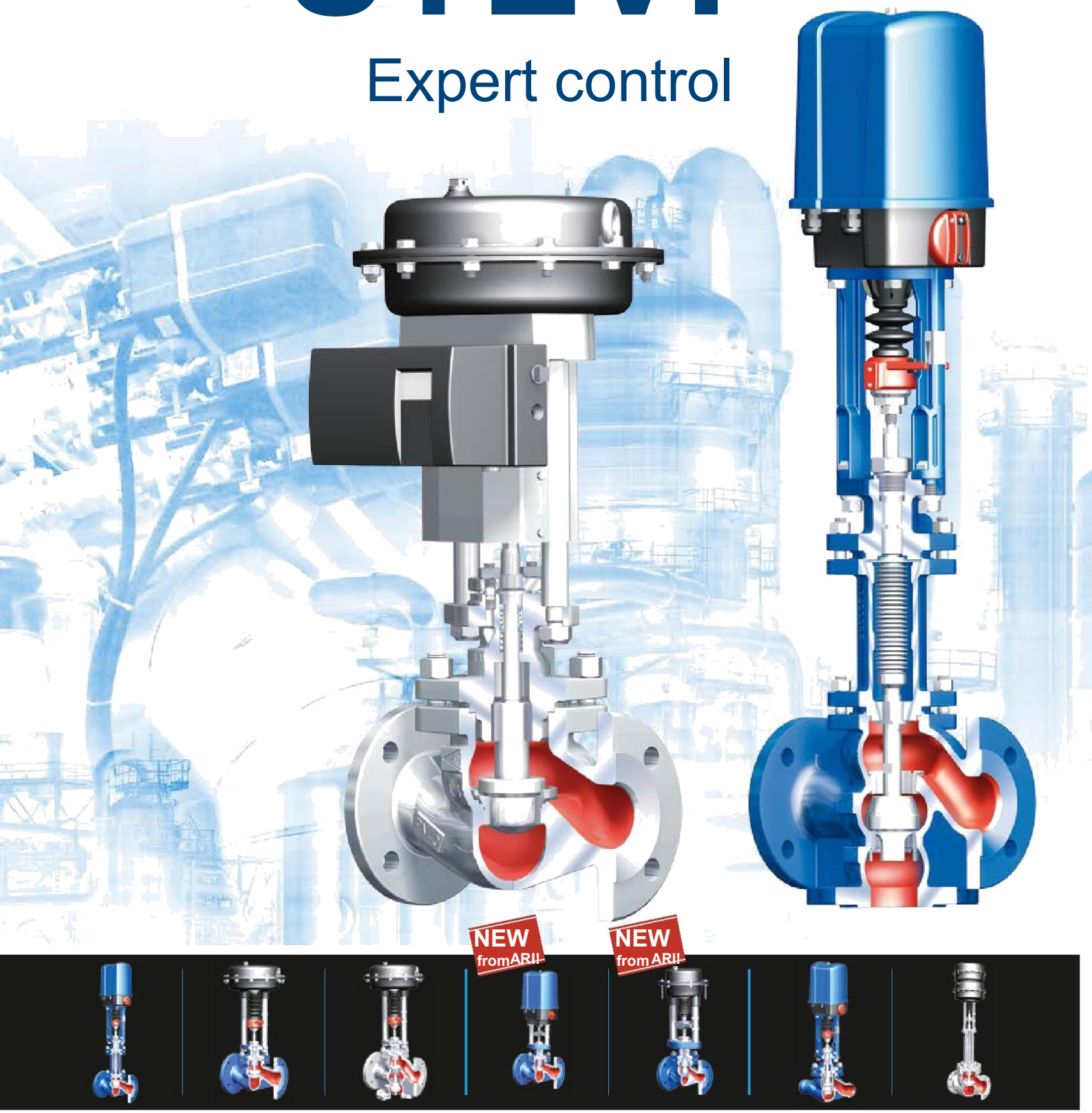
Control valves in more than 10,000 variants! – Individual. Precise. Durable:

STEVI®

Expert control



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

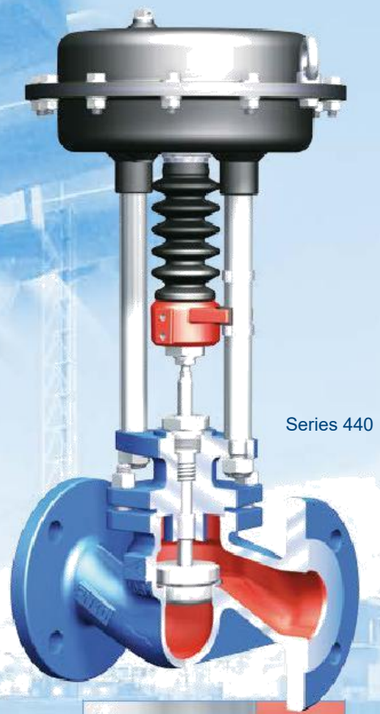
3-way valves:
Precision mixing / diverting (Series 450/451)

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

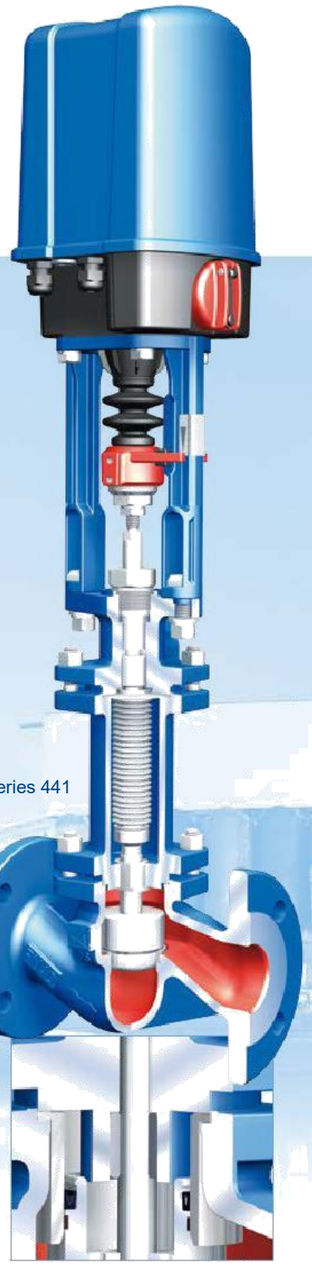
STEVI® Pro:
The high-performance control valve for critical applications (Series 470/471 DP)

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

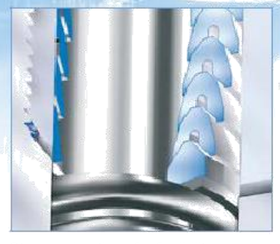
The classic standard valve for universal applications



Series 440



Series 441



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

- 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.

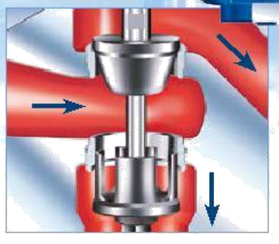
STEVI® Smart (3-way valves, Series 450/451)

Precision mixing/ diverting

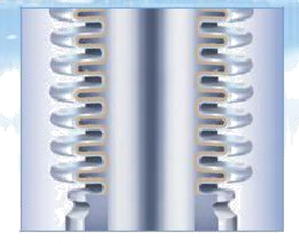
Series 450

Series 451

Variable: mixing plug



Variable: diverting plug



Safe: two-ply bellows seal (optional)

- 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)

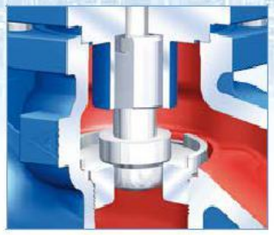
The variable, compact control valve

Series 448 PREMIO®

Stable shaft guiding for precision and durability

Rotatable upper part for optimum handling

Series 448 DP



Screwed seat ring provides flexibility

- 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.

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

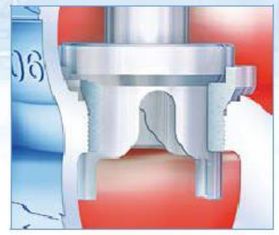
The high-performance control valve for professional control and critical applications

Series 470

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

Series 471 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)

- 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)

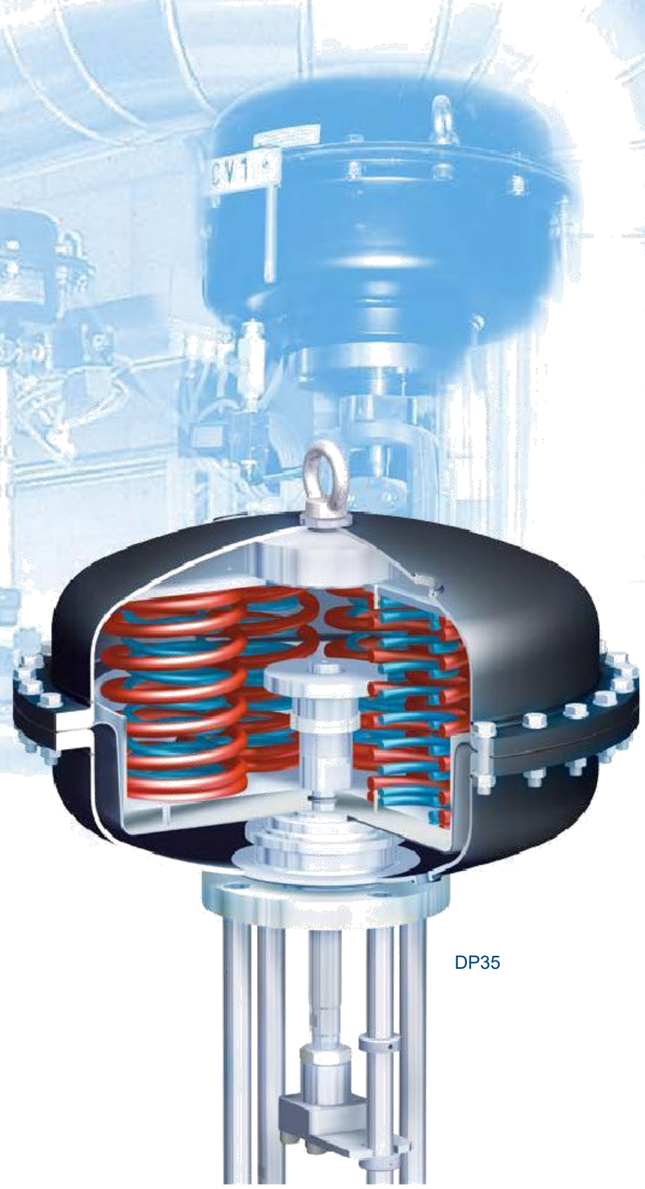
Nominal diameter: DN 15-250 / NPS 1"-8" Nominal pressure: PN 16-160 / ANSI Class 150-300 Actuators: Electric or pneumatic

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

DP32



DP35

- 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)

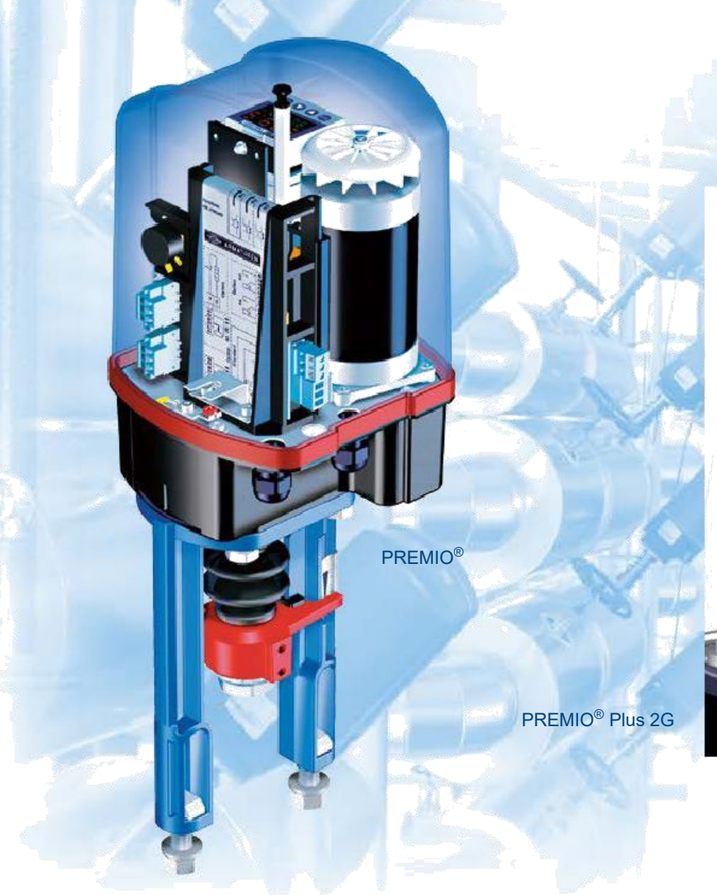
Nominal diameter: Diaphragm area 80-2800 cm²

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



PREMIO®

PREMIO® Plus 2G

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)

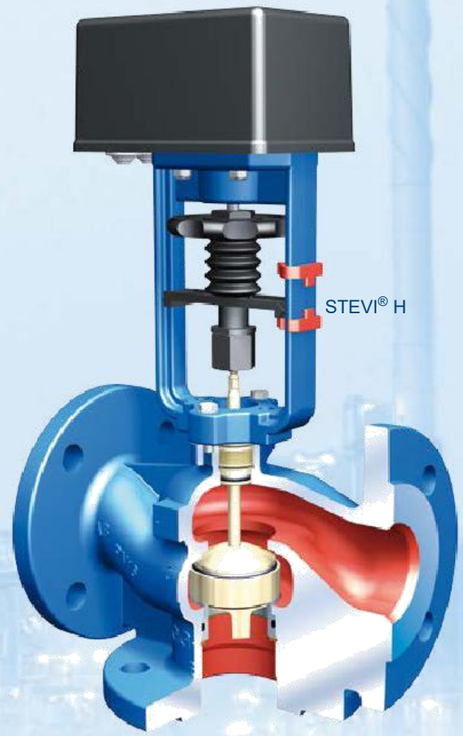
Positioner: freely selectable analogue control signal (0 to 10 V or 4 to 20 mA)

“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)