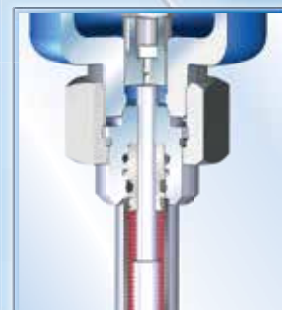


Temperature controller TEMPTROL®



Temperature control – steam pressure control shown here as an example

- Low operating costs - no maintenance required
- High control accuracy due to inlet pressure compensation by balancing tubes and bellows
- Excess temperature protector provides added safety
- Bellows seal in the actuator additionally improves safety (by preventing control liquid loss)
- High flexibility – three controller sizes allow optimal selection of the proportional band
- High performance due to the temperature sensors having different time constants
- Simple handling
 - Precise and easy adjustment
 - Adjustable setting range
 - Sensor pockets (for replacing the sensor without interrupting plant operation)
 - Manual control device (for integrated shut-off function)



Bellows seal in the actuator



Excess temperature protector

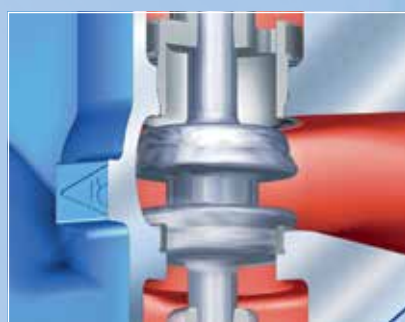
Nominal diameter: DN 15 to DN 100, 1" to 4"
 Nominal pressure: PN 16, 25, 40, ANSI 150 lbs, 300 lbs
 Materials: EN-JL 1040, EN-JS 1049, 1.0619+N, SA216 WCB, 1.4408
 Setpoint range: -20 to 50°C, 0 to 70°C, 30 to 100°C, 60 to 130°C, 130 to 200°C
 Media: Steam, vapours, neutral gases, liquids
 Industries: Industrial installations, processing technology, plant manufacturing



Thermal closing valve (for heating systems) closes when the temperature at the sensor rises



Thermal opening valve (for cooling systems) opens when the temperature at the sensor rises



Thermal mixing valve (for mixing and diverting systems) reduces or closes vertical port when the temperature at the sensor rises

In industrial installations, processing technology, plant manufacturing:
Control without auxiliary power – examples ...



Feed water tank with de-aerator dome. For supplying returned condensate and fresh water to the boiler via the de-aerator dome and the feed water tank



Pressure maintained in a condensate cooler (heat exchanger) belonging to a steam regenerator – improved energy efficiency. Valves: PRESO® or PREDEX® / CONA® / FABAs-Plus / STEVI®

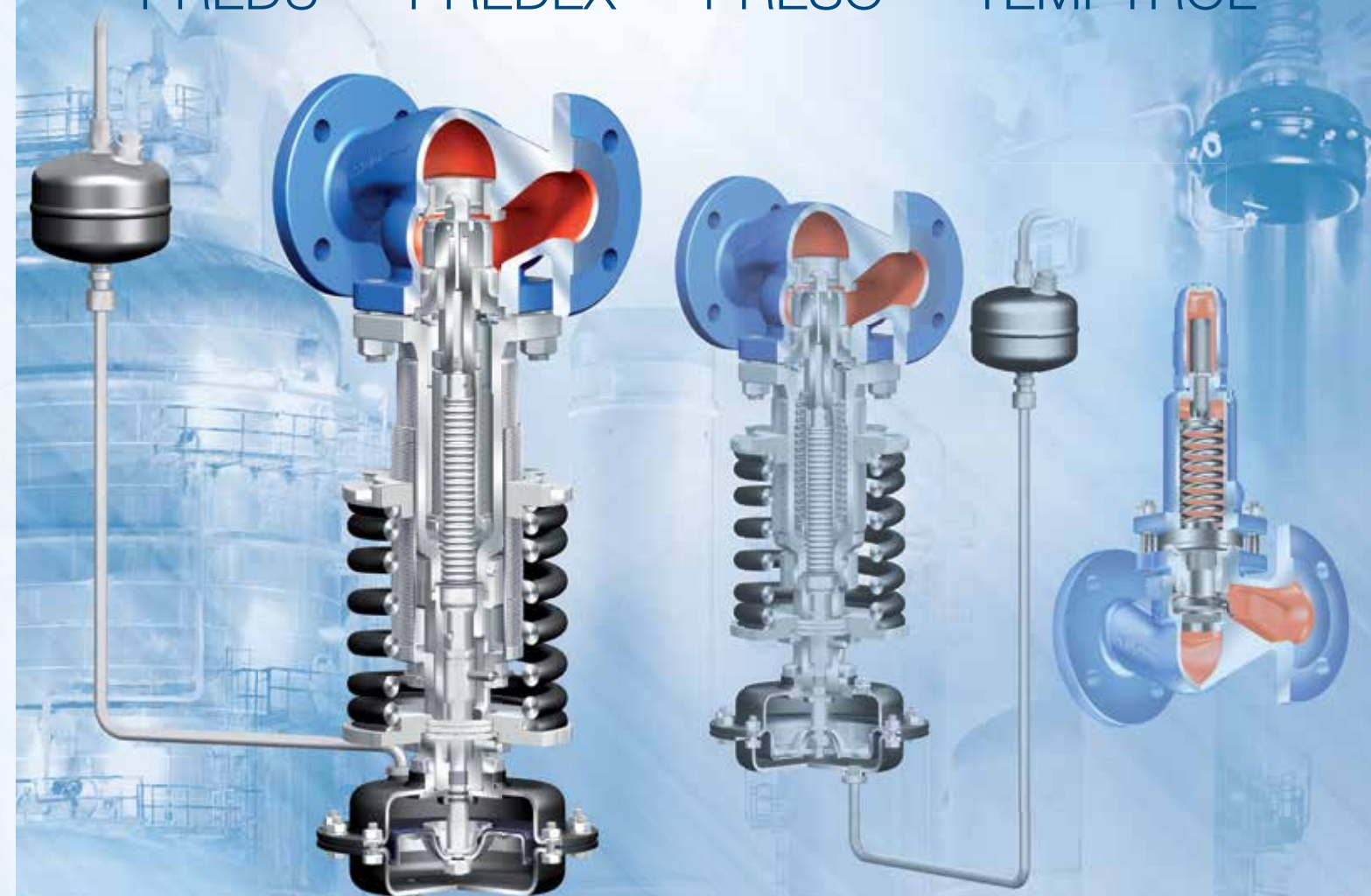


Steam pressure reduction. PREDU® with an upstream separator and ARI strainer

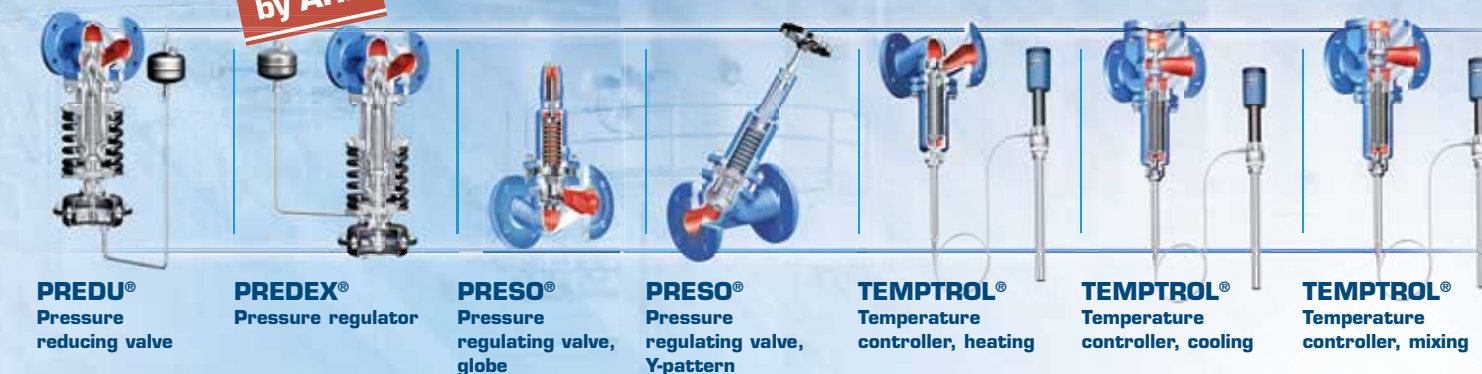
Profit from diversity made by ARI. Please don't hesitate to ask for more information!

CONTROL WITHOUT AUXILIARY POWER

PREDU® – PREDEX® – PRESO® – TEMPTROL®



**NEW
by ARI!**



PREDU®
Pressure reducing valve

PREDEX®
Pressure regulator

PRESO®
Pressure regulating valve, globe

PRESO®
Pressure regulating valve, Y-pattern

TEMPTROL®
Temperature controller, heating

TEMPTROL®
Temperature controller, cooling

TEMPTROL®
Temperature controller, mixing

Pressure reducing valve

PREDU®

NEW
by ARI!

Pressure regulator

PREDEX®

Pressure regulating valve

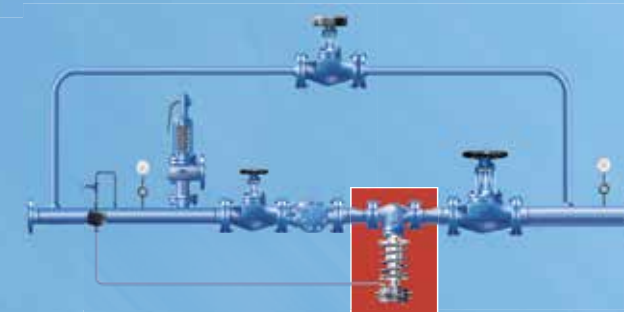
PRESO®



Valve closes when the DOWNSTREAM pressure rises. Diaphragm operated. High performance.

- Low operating costs - no maintenance required
- Easy adjustment due to pillar free design
- Space saving installation due to compact construction
- Flow divider for noise reduction (also suitable for retrofitting)
- Very high control accuracy due to inlet pressure compensation by balancing tubes and bellows
- Diaphragm actuator for high flow capacities
- High control accuracy due to reducible kv values
- Bellows sealing provides plant safety
- Permanent leak proof performance due to soft sealing plug (leakage rate A acc. to EN 12266-1) (optional)

Nominal diameter: DN 15 to DN 150, 1" to 6"
Nominal pressure: PN 16, 25, 40, ANSI 150 lbs, 300 lbs
Materials: EN-JL 1040, EN-JS 1049, 1.061 9+N, SA216 WCB
Set point range: 0,2 to 16 bar (downstream pressure)
Media: Steam, vapours, neutral gases, liquids
Industries: Industrial installations, processing technology, plant manufacturing



Valve opens when the UPSTREAM pressure rises. Diaphragm operated. High performance.

- Low operating costs - no maintenance required
- Easy adjustment of the inlet pressure due to stainless steel set point bonnet and pillar-free design
- Space-saving installation due to compact construction
- Flow divider for noise reduction (also suitable for retrofitting)
- Very high control accuracy due to inlet pressure compensation by balancing tubes and bellows
- Diaphragm actuator for high flow capacities
- High control accuracy due to reducible kv values
- Bellows sealing provides plant safety
- Permanent leak proof performance due to soft sealing plug (leakage rate A acc. to EN 12266-1) (optional)

Nominal diameter: DN 15 to DN 150, 1" to 6"
Nominal pressure: PN 16, 25, 40, ANSI 150 lbs, 300 lbs
Materials: EN-JL 1040, EN-JS 1049, 1.061 9+N, SA216 WCB
Setpoint range: 0.2 to 16 bar (upstream pressure)
Media: Steam, vapours, neutral gases, liquids
Industries: Industrial installations, processing technology, plant manufacturing



Valve opens when the differential pressure rises. Directly operated. The economical alternative – for low flow capacities.

- Low operating costs - no maintenance required
- Optimal leak proof performance due to soft sealing plug (optional)
- Space-saving installation due to compact construction
- High reliability due to rugged plug guide (shaft guided plug)
- Easy adjustment permits optimal handling (handwheel)
- No pressure fluctuations due to proportional control characteristics (regulating plug guarantees uniform function)
- Lean technology concept means economical operation
- Durable because standard version has a bellows seal

Nominal diameter: DN 15 to DN 100
Nominal pressure: PN 16
Materials: EN-JL 1040, EN-JS 1049, 1.0619+N, SA216 WCB, 1.4408
Setpoint range: 0.5 to 10 bar (differential pressure)
Media: Steam, vapours, neutral gases, liquids
Industries: Industrial installations, processing technology, plant manufacturing



Very high control accuracy due to inlet pressure compensation by balancing tubes (PREDU® / PREDEX®)



Easy adjustment due to pillar free design (PREDU® / PREDEX®)



All PREDU®s generally with bellows sealing



Easy adjustment of the inlet pressure due to stainless steel set point bonnet (PREDEX®)



Flow divider for noise reduction (PREDEX® / PREDU®)



Permanent leak proof performance due to soft sealing plug (PREDEX® / PREDU®)



Durable because standard version has a bellows



Optimal leak proof performance due to soft sealing plug



Easy adjustment with handwheel permits optimal handling