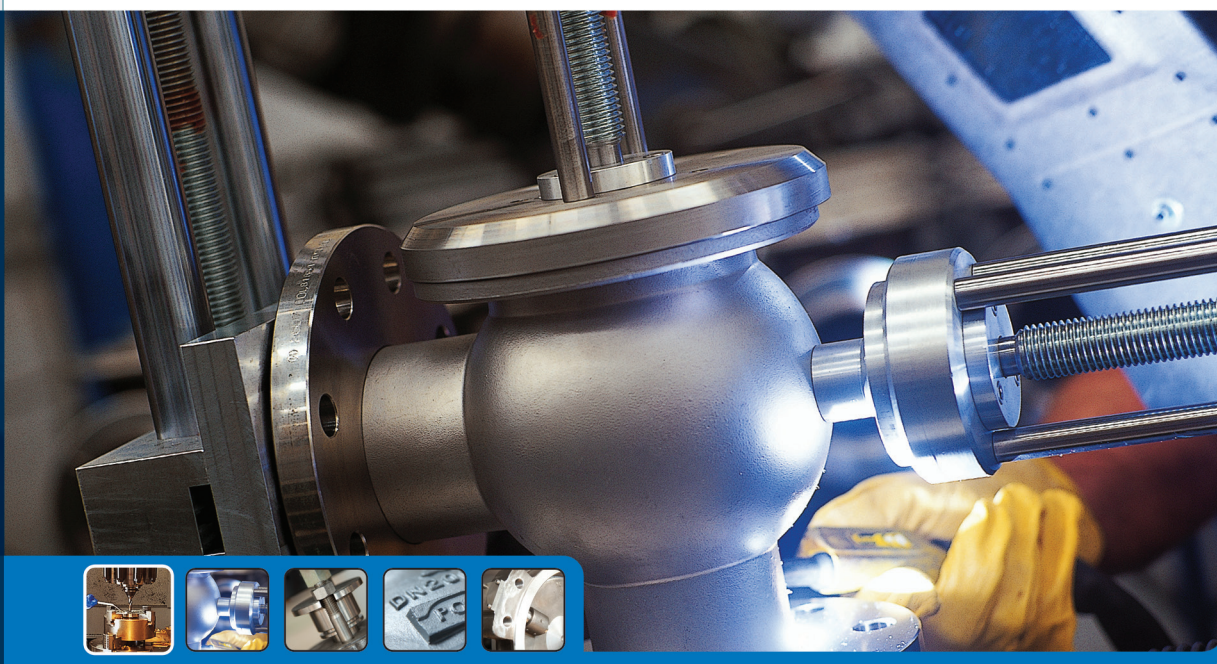


PRODUCT CATALOGUE



COMPANY OVERVIEW

VALVEA s.r.o. company has been operating since **1998** (formerly under the name of POLNA corp.) and from the early beginnings has been focused on design, calculation and delivery of industrial valves.

The products we offer are, thanks to a wide range of used materials and different designs, suitable for use in the area of measurement and regulation, especially in the following industries:

- **Petrochemical and chemical industry**
- **Pharmaceutics**
- **Power industry**
- **Technical gases**
- **Metallurgy**
- **Food industry**

We also have experience with deliveries to nuclear energy industry.

Our long-term goal is to fully meet our customers' requirements, we especially **focus on**:





- **Professional, full, technical support**
- **Proactive approach**
- **Implementation of new technical solutions**
- **High quality products**
- **Long-term reliability of equipment**
- **High-quality warranty and post-warranty service**

We use our own concept and calculation software for design and calculation of control valves.

Our company applies quality management system according to **EN ISO 9001:2016**, environmental management system according to **EN ISO 14001:2016** and occupational health and safety management system **OHSAS 18001:2008**. We also use a comprehensive quality assurance system in accordance with **Directive 2014/68/EU** of the European Parliament and the Council, Module H.

Our satisfied customers come not only from the Czech and Slovak Republic but as well as from other EU countries, Russia, the Middle East and many more countries.

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800

control valve

Nominal size

- DN 15 – DN 100

Nominal pressure

- PN 16/40

Construction

- one-seat valve – series 800
- 3-way control valve – series 803

Operating temperature range

- from -30 °C to +210 °C

Flow-rate characteristic, maximum flow-rate Kvs

- linear, equalpercentage
- 2,1 – 136 [m³/h]

Class of tightness (IEC 60534 – 4)

- class VI – standard with soft seats
- class IV – optional for metal seats

Body material

- ductile iron GGG40 – PN16
- carbon steel A216 WCB – PN40
- stainless steel AISI 316 (CF8M) – PN40

Plug and seat material

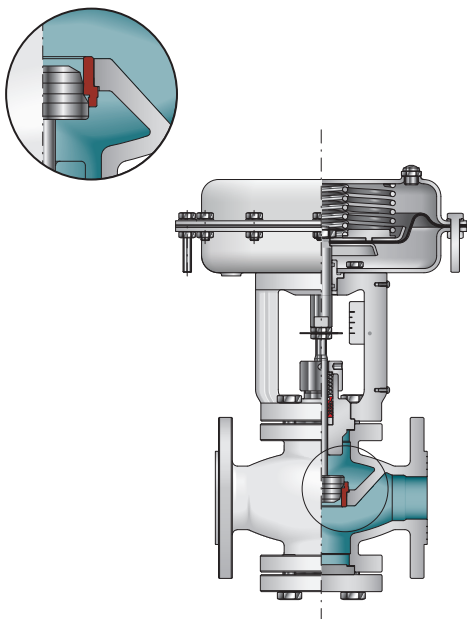
- stainless steel AISI 316L

Connection

- flanged

Actuator type

- pneumatic diaphragm
- electric



2000

control valve

Nominal size

- DN 15 – DN 100

Nominal pressure

- PN 16 – 40
- Class 150, Class 300

Construction

- one-seat valve – series 2000
- 3-way control valve – series 2003

Operating temperature ratio

- from -196 °C to +350 °C

Flow-rate characteristic, maximum flow-rate Kvs

- linear, equalpercentage
- 2,1 – 136 [m³/h]

Class of tightness (IEC 60534 – 4)

- class IV – standard
- class VI – optional

Body material

- ductile iron GGG40 – PN16
- carbon steel A216 WCB – PN40
- stainless steel AISI 316 (CF8M) – PN40

Plug and seat material

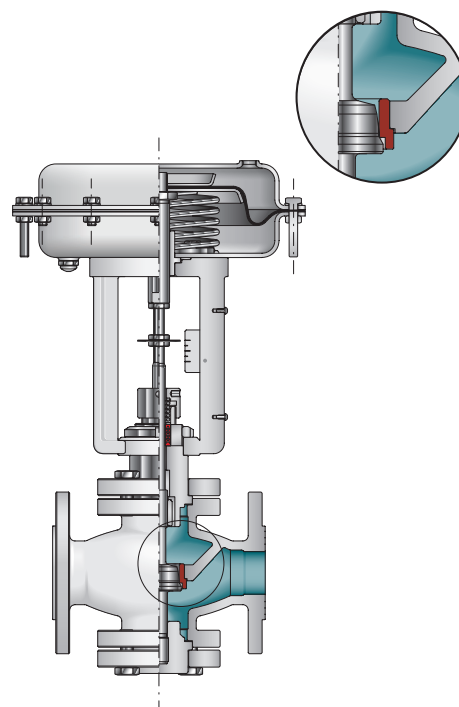
- stainless steel AISI 316L
- stellite or plasma nitridation possible

Connection

- flanged

Actuator type

- pneumatic diaphragm
- electric



BR 11

control valve

Nominal size

- DN 15 – DN 250
- DN ½ – 10"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- single-ported valve with a lightened plug possible
- metal or soft seat

Medium temperature range

- -180 °C to +400 °C

Flow characteristic, Kvs values

- linear, equalpercentage or quick on/off
- 0,01 – 630 [m³/h]

Class of tightness (IEC 60 534-4)

- Class IV – standard, metal seats
- Class V – optional for metal seats
- Class VI – optional for soft seats

Body material

- grey cast iron, ductile iron, carbon steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

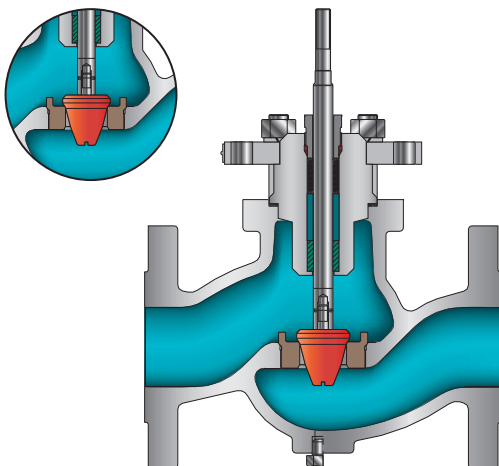
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged

Actuators

- pneumatic diaphragm
- electrohydraulic
- electric
- hydraulic
- hand operated



BR 12A

control valve

Nominal size

- DN 15 – DN 300
- DN ½ – 12"

Nominal pressure

- PN 16 – 400
- Class 150 – 2 500

Construction

- single-ported valve, with possibility of perforated plug in cage
- possibility of heated coat

Flow characteristic, Kvs values

- linear, equalpercentage or quick on/off
- 0,1 – 800 [m³/h]

Medium temperature range

- -198 °C to +650 °C

Class of tightness (IEC 60 534 – 4)

- Class IV – standard, metal seats
- Class V – possible for metal seats

Body material

- steel, alloy steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

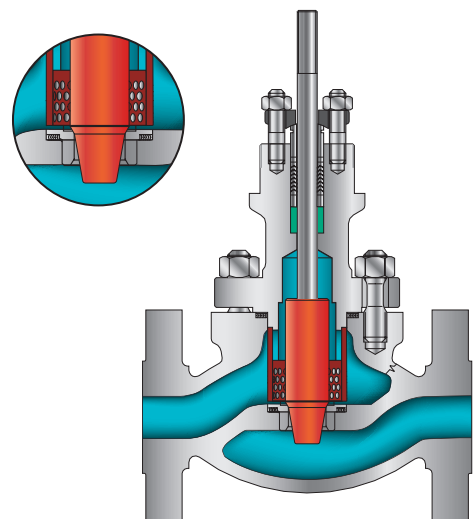
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- welded

Actuators

- pneumatic diaphragm
- electrohydraulic
- electric
- hydraulic





BR 12B

control valve

Nominal size

- DN 25 – DN 300
- 1" – 12"

Nominal pressure

- PN 16 – 400
- ANSI 150 – 2 500

Construction

- single-ported valve, possibility of plug in cage with multi-level reduction

Flow characteristic, Kvs values

- linear, equalpercentage or quick on/off
- 0,1 – 800 [m³/h]

Medium temperature range

- -198 °C to +650 °C

Class of tightness (IEC 60 534 – 4)

- Class IV – standard, metal seats
- Class V – optional for metal seats

Body material

- steel, alloy steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

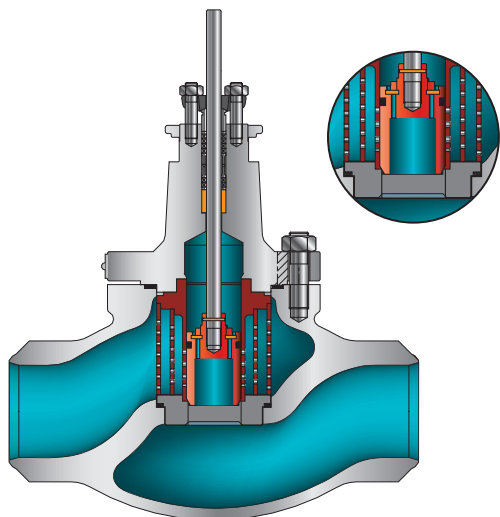
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- welded

Actuators

- pneumatic diaphragm
- electrohydraulic
- electric
- hydraulic



BR 33

rotary regulation valve

Nominal diameter

- DN 25 – DN 300
- 1" – 12"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- single-ported valve with rotary plug, fluent regulation
- metal or soft seat
- rangeability 200:1

Medium temperature range

- -46 °C to +450 °C

Flow characteristic, Kvs values

- linear, equalpercentage
- 3 – 2 160 [m³/h]

Class of tightness (IEC 60 534 – 4)

- Class IV - standard, metal seats
- Class VI - possible for metal seats

Body material

- steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

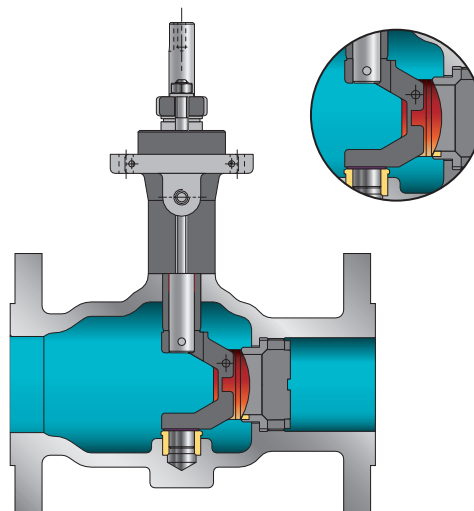
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- flangeless "sandwich"

Actuators

- pneumatic diaphragm
- electro-hydraulic
- electric
- hydraulic





Z3

3-way valve

Nominal diameter

- DN 25 – DN 300
- 1" – 12"

Nominal pressure

- PN 10 – 250
- Class 150 – 1 500

Construction

- three-way valve with plug, blending or dividing function

Medium temperature range

- -198 °C to +450 °C

Flow characteristic, Kvs values

- linear, quick on/off
- 6 – 950 [m³/h]

Class of tightness (IEC 60 534 – 4)

- Class II – standard, metal seats
- Class VI – optional for soft seats

Body material

- grey cast iron, ductile iron, carbon steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

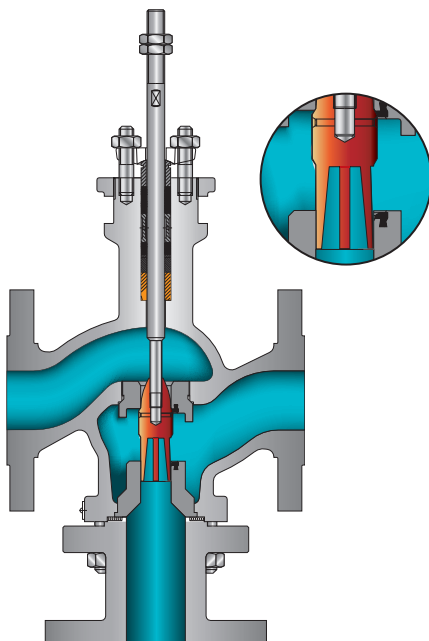
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- welded

Actuators

- pneumatic diaphragm
- electrohydraulic
- electric
- hydraulic



1-4433

angle valve

Nominal diameter

- DN 25 – DN 400
- 1" – 16"

Nominal pressure

- PN 10 – 100
- Class 150 – 600

Construction

- single-ported valve, with possibility of perforated plug in cage
- special construction for anticavitation

Medium temperature range

- -198 °C to +650 °C

Flow characteristic, Kvs values

- linear, equalpercentage or quick on/off
- 6 – 2047 [m³/h]

Class of tightness (IEC 534 – 4)

- Class IV – standard, metal seats
- Class V – optional for metal seats

Body material

- steel, alloy steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

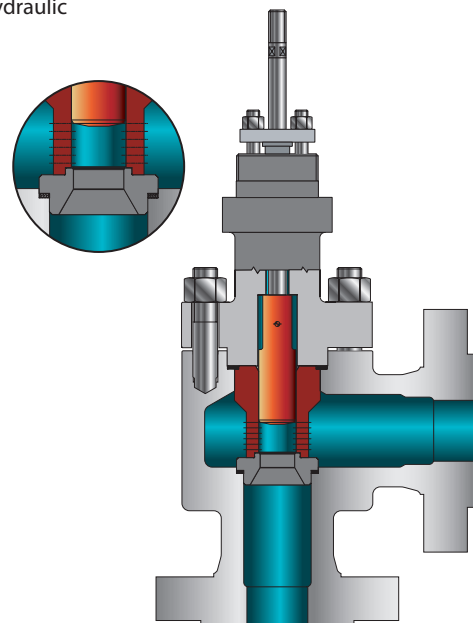
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- welded

Actuators

- pneumatic diaphragm
- electrohydraulic
- electric
- hydraulic





1-9400

reducing angle valve

Nominal diameter

- DN 25 – DN 400
- 1" – 16"

Nominal pressure

- PN 40 – 400
- ANSI 150 – 2 500

Construction

- construction with special cage – Limiphon®

Medium temperature range

- -198 °C to +650 °C

Flow characteristic, Kvs values

- linear

Class of tightness (IEC 60 534 – 4)

- Class IV – standard, metal seats
- Class V – increased for metal seats

Body material

- steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

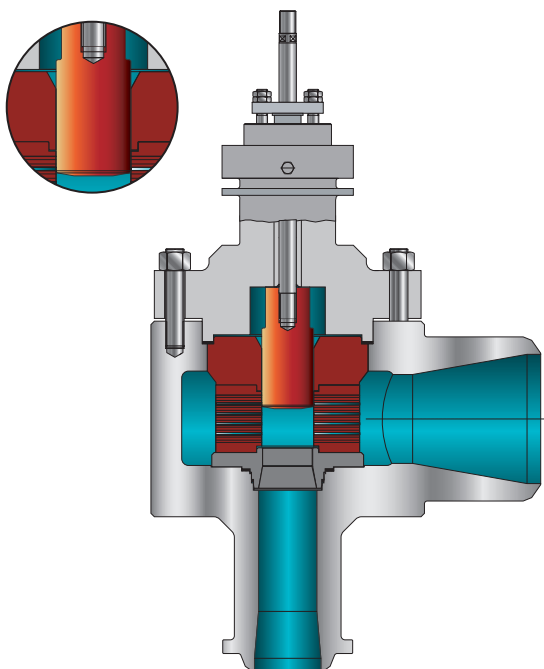
- stainless steel
- stellite or plasma nitridation possible or other technologies

Connection

- flanged
- welded

Actuators

- pneumatic
- electric
- hydraulic



1-9100

reducing direct valve

Nominal diameter

- DN 25 – DN 400
- 1" – 16"

Nominal pressure

- PN 40 – 400
- Class 300 – 2 500

Construction

- construction with special cage - Limiphon®

Medium temperature range

- -200 °C to +590 °C

Flow characteristic, Kvs values

- linear

Class of tightness (IEC 60 534 – 4)

- Class IV – standard, metal seats
- Class V – increased for metal seats

Body material

- steel, alloy steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

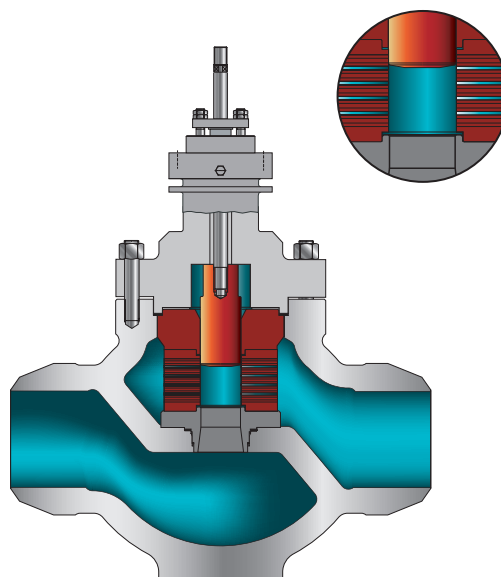
- stainless steel
- stellite or plasma nitridation possible, other technologies if appropriate

Connection

- flanged
- welded

Actuators

- pneumatic
- electric
- hydraulic



TECpress

steam pressure reducing station

Nominal diameters

- inlet max. DN 100 – DN 500
- outlet max. DN 150 – DN 2000

Nominal pressure

- inlet PN 25 – 630
- outlet PN 25 – 250

Construction

- special construction of seat for reducing the velocity and noise of flowing medium

Medium temperature range

- up to +580 °C

Body material

- WNr. 1.4902 (P91)

Inner parts material

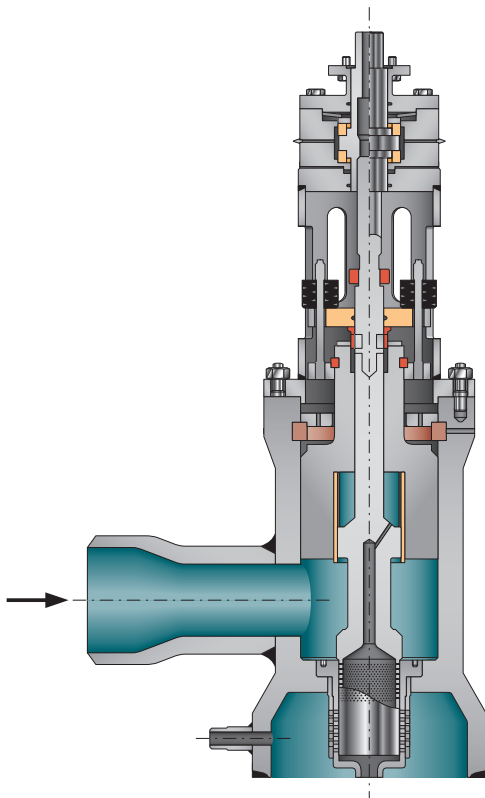
- WNr. 1.4903
- WNr. 1.4922
- WNr. 1.7380

Connection

- welded

Actuators

- pneumatic
- electric
- hydraulic



1-5700

steam conditioning reducing valve
with desuperheater

Nominal diameter

- inlet max. DN 1000
- outlet max. DN 2000

Nominal pressure

- PN 6 – 400
- ANSI 150 – 2 500

Construction

- single-ported angle valve with lightened plug incl. nozzle for steam temperature conditioning
- special construction of seat for reducing of speed and noisiness of medium

Maximal temperature of medium

- up to +650 °C

Body material

- steel, alloy steel, stainless steel according to EN, DIN or ASTM

Plug and seat material

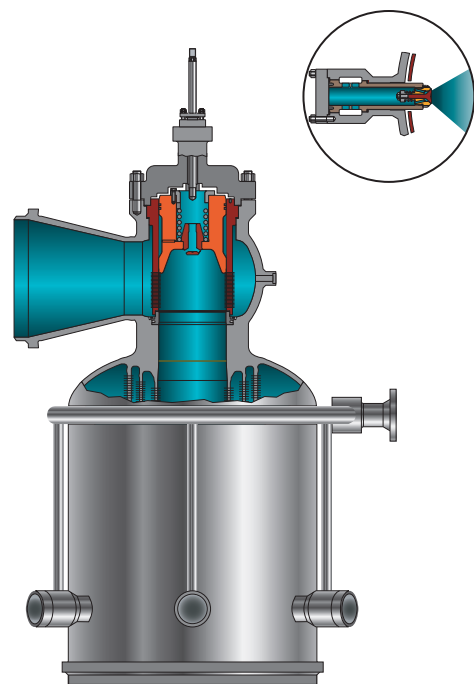
- stainless steel
- stellite or plasma nitridation possible

Connection

- flanged
- welded

Actuators

- pneumatic diaphragm
- electrohydraulic
- hydraulic





TECtemp

desuperheater

Nominal diameters

- steam: DN 80 – 100
- water: DN 25 – 65

Nominal pressure

- steam: PN 25 – 400
- water: PN 25 – 400

Construction

- desuperheating control valve with integral cooler nozzle

Medium operating temperature

- maximum up to +750 °C

Rangeability ratio

- 50:1

Body material

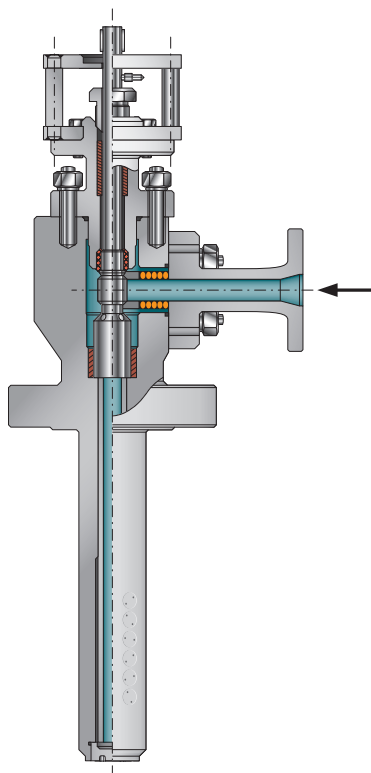
- alloy steel (WNr. 1.7380)
- alloy steel (WNr. 1.4903)

Nozzle material

- steel or alloy steel

Connection

- flanged
- welded



LVP

desuperheater with variable area

Nominal diameters

- steam: DN 100 – 700, 4" – 28"
- water: DN 15 – 50, ½ – 2"

Nominal pressure

- steam: PN 16 – 400, Class 150 – 2 500
- water: PN 16 – 400, Class 150 – 2 500

Construction

- separated variable area nozzle designed for required steam parameters

Medium temperature range

- up to +590 °C

Body material

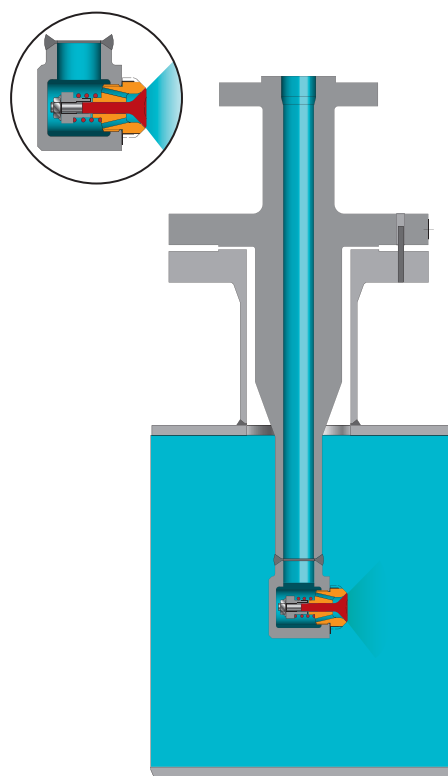
- steel, alloy steel according to EN, DIN or ASTM

Nozzle material

- steel or alloy steel

Connection

- flanged





SC510

aseptic control valve

Nominal diameters

- DN ½ – 2"

Nominal pressure

- PN 20

Construction

- one-seat angle valve

Medium temperature range

- -20 °C to +150 °C

Flow-rate characteristic, maximum flow-rate Kvs

- linear, equalpercentage
- 0,043 – 34 [m³/h]

Class of tightness (IEC 60534 – 4)

- class III – standard

Body material

- rolled stainless steel AISI 316L (~ WNr. 1.4435)

Plug and seat material

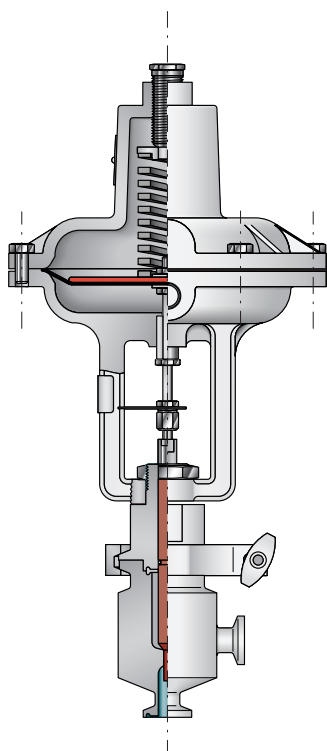
- rolled stainless steel AISI 316L (~ WNr. 1.4435)

Connection

- clamp
- welded

Actuators

- pneumatic diaphragm
- electric



SC500

aseptic control valve

Nominal diameters

- DN 1 – 1½"

Nominal pressure

- PN 20

Construction

- one-seat angle valve

Medium temperature range

- -20 °C to +150 °C

Flow-rate characteristic, maximum flow-rate Kvs

- linear, equalpercentage
- 0,043 – 17,1 [m³/h]

Class of tightness (IEC 60534 – 4)

- class III – standard

Body material

- cast stainless steel CF-3M / 316L (~ WNr. 1.4404)

Plug and seat material

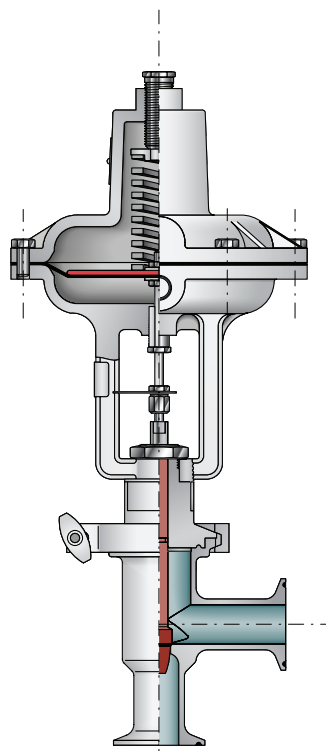
- rolled stainless steel AISI 316L (~ WNr. 1.4435)

Connection

- clamp
- welded

Actuators

- pneumatic diaphragm
- electric





VP00

shut-off valve

Nominal diameters

- DN 15 – DN 150

Nominal pressure

- PN 16 – 40
- Class 150, Class 300

Construction

- on/off one-seat valve – VP00 series
- 2/3-way valve – VP00/3 series

Medium temperature range

- -196 °C to +350 °C

Class of tightness (IEC 60 534 – 4)

- class VI – standard

Body material

- ductile iron GGG40 – PN16
- steel A216 WCB – PN40
- stainless steel AISI 316 (CF8M) – PN40

Plug and seat material

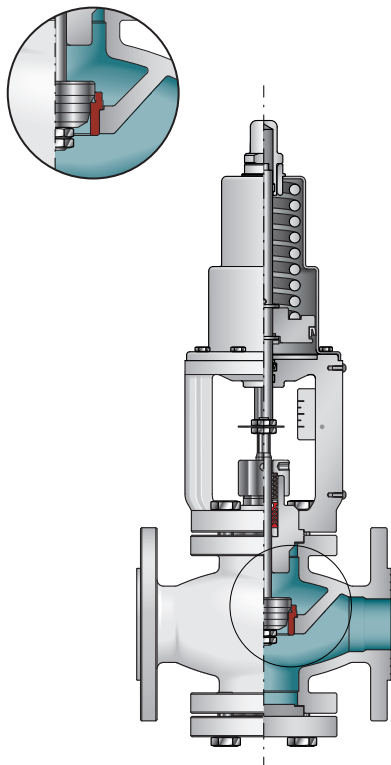
- stainless steel AISI 316L
- stellite or plasma nitridation possible

Connection

- flanged

Actuators

- pneumatic piston – single-acting
- pneumatic piston – double-acting



VPFL, VP/FF

shut-off valve

Nominal diameters

- DN 15 – DN 200

Nominal pressure

- PN 10/16/25

Construction

- on/off seat

Medium temperature range

- -30 °C to +200 °C

Class of tightness (IEC 60 534 – 4)

- class VI – standard

Body material

- stainless steel AISI 316/316L

Plug and seat material

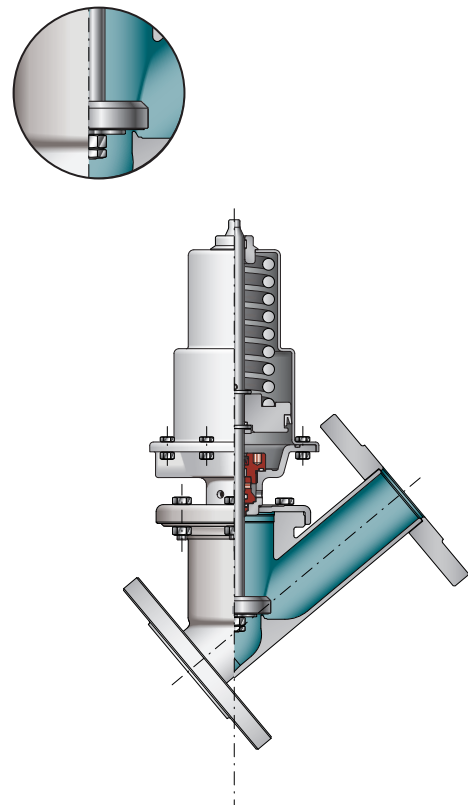
- stainless steel AISI 316

Connection

- flanged – VPFL series
- threaded – VP/FF series

Actuators

- pneumatic piston – single-acting
- pneumatic piston – double-acting



301

centric flap

Nominal diameters

- DN 40 – DN 600
- DN 1½ – 24"

Nominal pressure

- PN 2,5 – 16
- Class 150

Construction

- shut-off butterfly valve with exchangeable sleeve

Medium temperature range

- -35 °C to +160 °C

Sleeve material

- EPDM, EPDM-HT, NBR, HYPALON
- SILIKON, VITON, P.T.F.E.

Flow rate Kvs

- 69 – 24 000 [m³/h]

Class of tightness (IEC 60534 – 4)

- class VI

Body material

- ductile iron, steel, stainless steel
- Duplex, Hastelloy C-276, Monel 400

Disc material

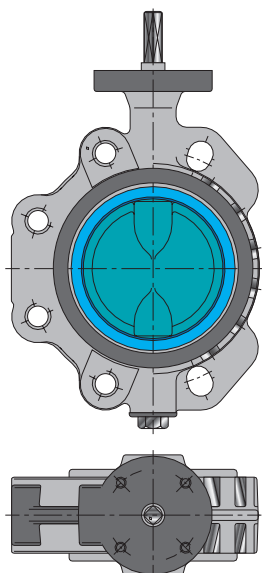
- ductile iron, steel, stainless steel
- Duplex, Hastelloy C-276

Connection

- inter flange joint/wafer
- on flange/lug

Actuators

- hand lever with arrest of position
- gearbox with handwheel
- pneumatic piston
- hydraulic
- electric



7400

double eccentricity flap

Nominal diameters

- DN 50 – DN 1800
- 2" – 72"

Nominal pressure

- PN 6 – 40
- Class 150, Class 300

Construction

- with double eccentricity

Operating temperature of medium

- -29 °C to +300 °C

Flow rate Kvs

- 42 – 200 000 [m³/h]

Class of tightness (IEC 60534 – 4)

- class IV – metal seats
- class VI – optional with soft seats

Body material

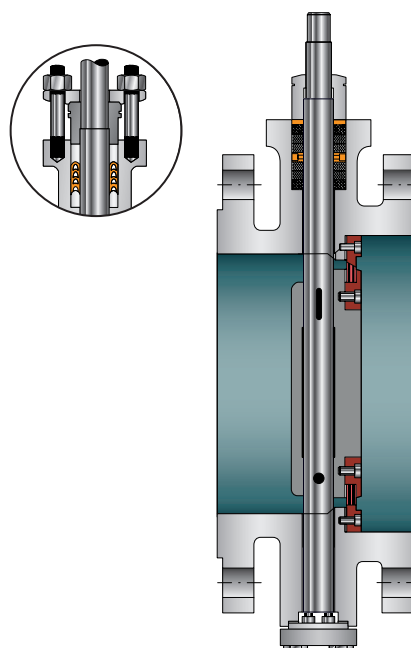
- steel ASTM A216 WCB
- stainless steel ASTM A351CF8M
- Super Duplex ASTM A590GR. 6A
- brass BS1400 AB2

Connection

- flanged
- on flange/lug
- inter flange joint/wafer

Actuators

- gearbox with handwheel
- pneumatic piston
- hydraulic
- electric





1-2473

control eccentric flap

Nominal diameters

- DN 200 – DN 2000
- 8" – 80"

Nominal pressure

- PN 16 – 40
- Class 150, Class 300

Construction

- eccentric flap with linear characteristic and rangeability 100:1

Medium temperature range

- -46 °C to +375 °C

Flow rate Kvs

- 600 – 245 000 [m³/h]

Class of tightness (IEC 60 534 – 4)

- class IV – standard, metal seats
- class V – optional for metal seats

Body material

- steel, stainless steel, Hastelloy, Monel according to EN, DIN or ASTM

Disc material

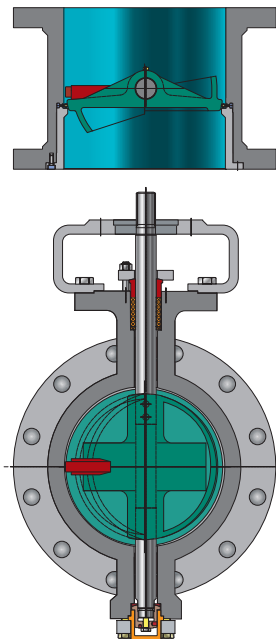
- steel, stainless steel, Hastelloy, Monel according to EN, DIN or ASTM

Connection

- flanged/wafer
- flanged according to ANSI, ISO

Actuators

- pneumatic
- electric
- hydraulic



7600

flap with triple eccentricity

Nominal diameters

- DN 80 – DN 1200
- 3" – 48"

Nominal pressure

- Class 150 – 600

Construction

- flap with triple eccentricity

Operating temperature of medium

- -29 °C to +528 °C

Flow rate Kvs

- 137 – 71 700 [m³/h]

Class of tightness (IEC 60534 – 4)

- class VI

Body material

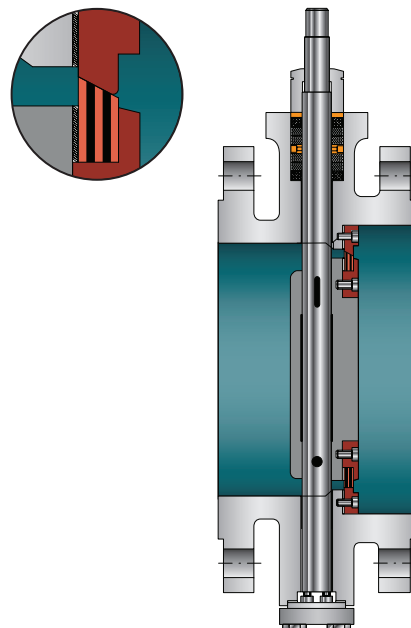
- steel ASTM A216 WCB
- stainless steel ASTM A351CF8M
- Super Duplex ASTM A590GR. 6A
- brass BS1400 AB2

Connection

- flanged
- on flange/lug

Actuators

- gearbox with handwheel
- pneumatic piston
- hydraulic
- electric



ZSN1, ZSN3

inlet and outlet pressure regulators

Nominal diameters

- DN 15 – DN 100
- ½ – 4"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- self-actuating regulator of outlet pressure p_2 – type ZSN 1

Medium temperature range

- 0 °C to +200 °C

Flow-rate characteristic, maximum flow-rate Kvs

- proportional
- 1 – 125 [m³/h]

Class of tightness (IEC 60 534 – 4)

- class IV – standard, metal seats
- class VI – optional with soft seats

Body material

- grey cast iron, ductile iron, steel, stainless steel according to EN, DIN or ASTM

Setting range [kPa]

- 40 – 160
- 100 – 400
- 200 – 800
- 280 – 1 120

Maximum loss of pressure on the valve [MPa]

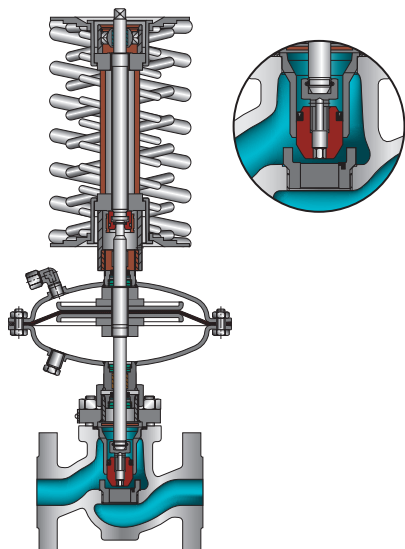
- 1,2

Maximal pressure in actuator chamber [MPa]

- 2,0

Connection

- flanged



ZSN5, ZSN6, ZSN7

regulator of differential pressure

Nominal diameters

- DN 15 – DN 100
- ½ – 4"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- self-actuating regulator of differential pressure Δp

Medium temperature range

- 0 °C to +200 °C

Flow-rate characteristic, maximum flow-rate Kvs

- proportional
- 1 – 125 [m³/h]

Class of tightness (IEC 60 534 – 4)

- class IV – standard, metal seats
- class VI – optional with soft seats

Body material

- grey cast iron, ductile iron, steel, stainless steel according to EN, DIN or ASTM

Setting range [kPa]

- 10 – 40
- 20 – 80
- 40 – 160
- 80 – 320

Maximal loss of pressure on the valve [MPa]

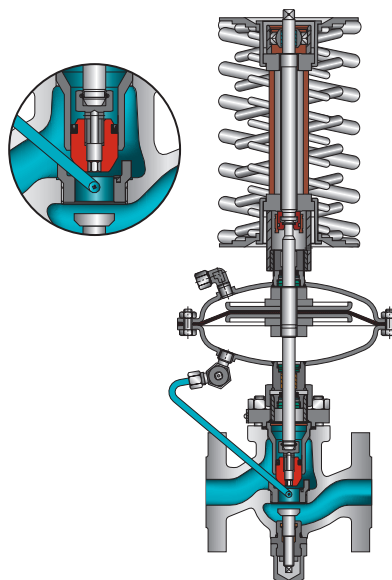
- 1,2

Maximal pressure in actuator chamber [MPa]

- 2,0

Connection

- flanged





ZSN8, ZSN91, ZSN10

regulator of differential pressure and flow Q

Nominal diameters

- DN 15 – DN 100
- ½ – 4"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- self-actuating regulator of flow Q

Medium temperature range

- 0 °C to +200 °C

Flow-rate characteristic, maximum flow-rate Kvs

- proportional
- 1 – 125 [m³/h]

Class of tightness (IEC 60 534 – 4)

- class IV – standard, metal seats
- class VI – optional with soft seats

Body material

- grey cast iron, ductile iron, steel, stainless steel according to EN, DIN or ASTM

Setting range ZSN 8

- 4 – 40 % Kvs – $\Delta p = 20$ kPa
- 7 – 70 % Kvs – $\Delta p = 50$ kPa

Maximal loss of pressure on the valve [MPa]

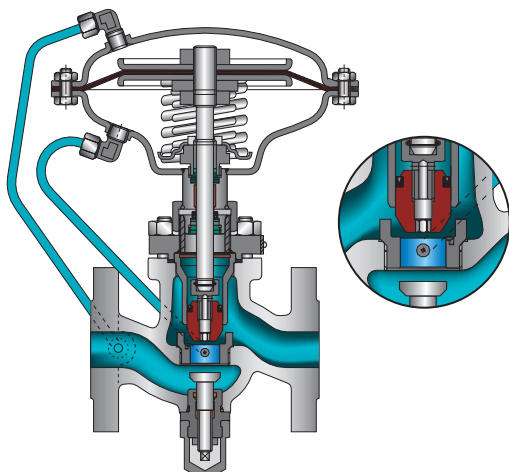
- 1,2

Maximal pressure in actuator chamber [MPa]

- 2,0

Connection

- flanged



RCP8

p2 outlet pressure regulator

Nominal diameters

- DN 15 – DN 250
- 1/2" – 10"

Nominal pressure

- PN 10 – 40
- Class 150, Class 300

Construction

- self-actuating outlet pressure regulator (p2)

Medium temperature range

- -30 °C to +300 °C

Flow-rate characteristic, maximum flow-rate Kvs

- proportional
- 1 – 630 [m³/h]

Class of tightness (IEC 60 534 – 4)

- class IV – standard, metal seats
- class VI – optional with soft seats

Body material

- grey cast iron, ductile iron, steel, stainless steel according to EN, DIN or ASTM

Setting range [kPa]

- 40 – 200
- 100 – 480
- 200 – 1 000
- 300 – 1 500
- for other possibilities see catalog

Maximal loss of pressure on the valve [MPa]

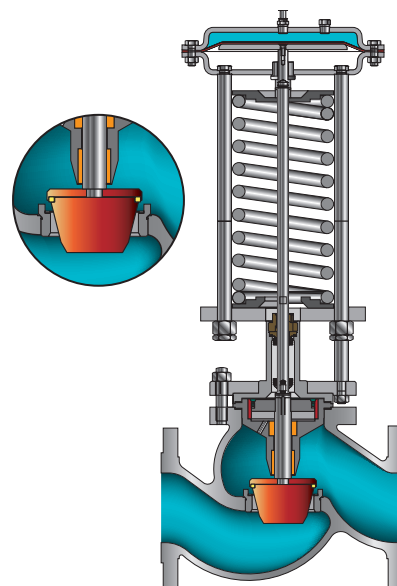
- 2,5

Maximal pressure in actuator chamber [MPa]

- 2,5

Connection

- flanged
- welded



LPS25

low pressure overflow valve

Nominal diameters

- DN 25
- 1"

Nominal pressure

- PN 16
- ANSI 150

Construction

- self-acting low pressure regulator of inlet pressure p1, overflow valve

Operating temperature of medium

- -30 °C to +180 °C

Maximum operating pressure

- type LPS 25 - p1max. 500 mbar (g) p2 - atmosphere
- type LPS/D 25 - p1max. 500 / 2000 mbar (g) p2 - atmosphere
- type LPS/N 25 - p1max. -220 ... +5 mbar (g) p2 - vacuum
- type LPS/NL25 - p1max. +500 ... +5 mbar (g) p2min - 500 mbar (g)

Flow rate Kvs [m³/h]

- 6,5

Class of tightness (VDI/VDE 2174)

- class VI – standard with soft seats

Materials involved with medium

- stainless steel 1.4571/1.4404/1.4408/316Ti
- Hastelloy C (2.4819/C276)

Diaphragm material

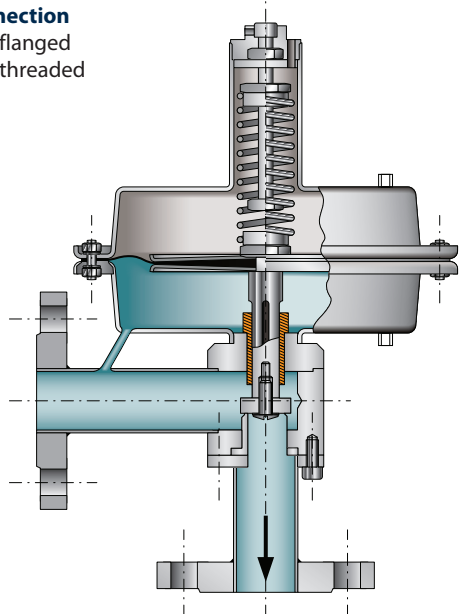
- PTFE, J-6000
- Viton

Springs adjustment ratio

- 3 ... 500 mbar, type LPS, LPS/D
- -220 ... +5 mbar, type LPS/N
- -500 ... -3 mbar, type LPS/L

Connection

- flanged
- threaded



LPR25

low pressure reducing valve
outlet pressure p2 regulator

Nominal diameters

- DN 25
- 1"

Nominal pressure

- PN 16
- ANSI 150

Construction

- self-acting low pressure regulator of outlet pressure p2

Operating temperature of medium

- -30 °C to +180 °C

Flow rate Kvs [m³/h]

- 0,15 – 1,25

Class of tightness (VDI/VDE 2174)

- class VI – standard with soft seats

Materials involved with medium

- stainless steel 1.4571/1.4404/1.4408/316Ti
- Hastelloy C (2.4819/C276)

Diaphragm material

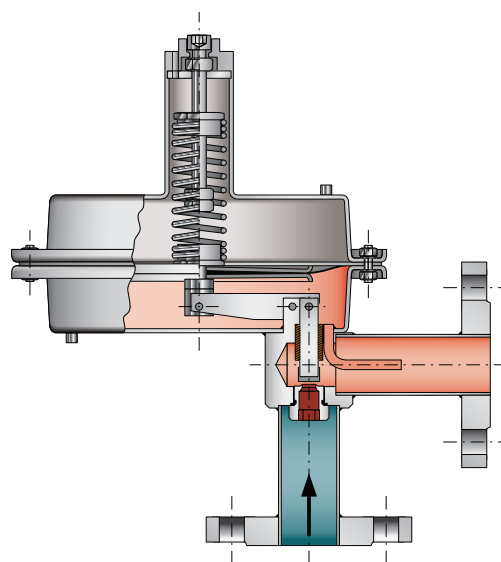
- PTFE, J-6000
- Viton

Springs adjustment ratio

- 0 ... 22 mbar, type LPR, LPR/D
- 10 ... 220 mbar, type LPR, LPR/D
- -220 ... +5 mbar, type LPR/N

Connection

- flanged
- threaded



P/R

diaphragm pneumatic actuator

Actuator function

- direct action – P (air-to-close)
- reverse action – R (air-to-open)

Actuator type

- pneumatic membrane single-acting actuator

Actuator stroke [mm]

- 20, 38, 50, 63

Diaphragm effective area [cm²]

- 250, 400, 630, 1000

Range of springs [kPa]

- 20 – 100, 40 – 200
- 40 – 120, 80 – 240
- 60 – 140, 120 – 280
- 180 – 380

Maximum supply pressure [kPa]

- 450

Medium temperature range

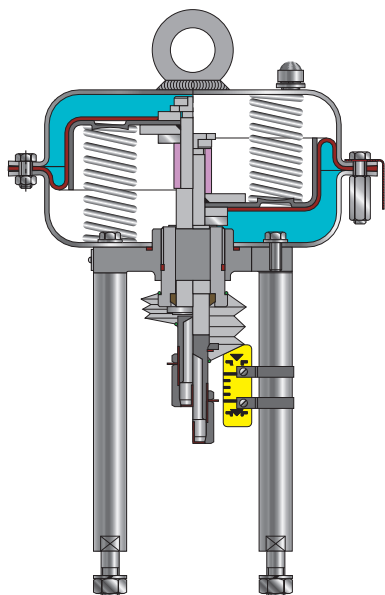
- -40 °C to +80 °C ... standard
- -60 °C to +80 °C ... low temperature type

Handwheel

- top handwheel – PN/RN

Accessories

- pneumatic positioner
- electropneumatic positioner
- digital positioner
- limit switches
- position transmitter
- filter-reducer of supply pressure
- blocking valve



P1/R1

diaphragm pneumatic actuator

Actuator function

- direct action – P1 (air-to-close)
- reverse action – R1 (air-to-open)

Actuator type

- pneumatic membrane single-acting actuator

Actuator stroke [mm]

- 20, 38, 50, 63, 80, 100

Diaphragm effective area [cm²]

- 250, 400, 630, 1 000, 1 500, 3 000

Range of springs [kPa]

- 20 – 100, 40 – 200
- 40 – 120, 80 – 240
- 60 – 140, 120 – 280
- 180 – 380

Maximum supply pressure [kPa]

- 450

Medium temperature range

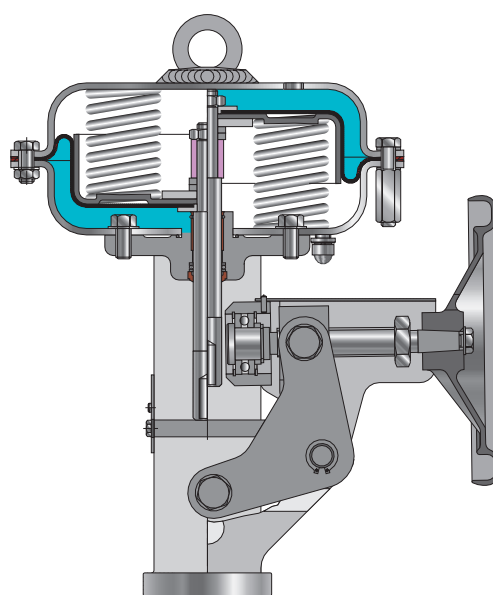
- -40 °C to +80 °C ... standard
- -60 °C to +80 °C ... low temperature type

Handwheel

- side handwheel – P1B/R1B

Accessories

- pneumatic positioner
- electropneumatic positioner
- digital positioner
- limit switches
- position transmitter
- filter-reducer of supply pressure
- blocking valve



BR99

diaphragm pneumatic actuator

Actuator function

- direct action – P (air-to-close)
- reverse action – R (air-to-open)

Actuator type

- pneumatic membrane single-acting actuator

Rotation angle

- 0 – 90°

Diaphragm effective area [cm²]

- BR 99/I – 120
- BR 99/II – 240
- BR 99/III – 780

Range of springs [kPa]

- 80 – 160
- 100 – 200
- 160 – 320

Maximum supply pressure [kPa]

- 450

Medium temperature range

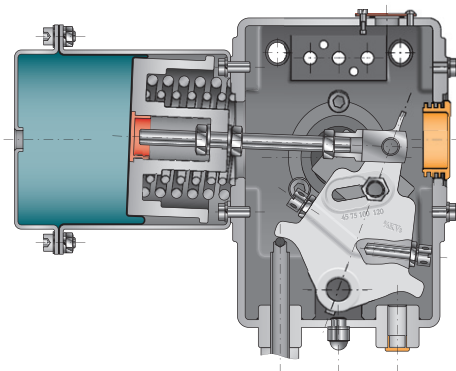
- -40 °C to +80 °C ... standard
- -60 °C to +80 °C ... low temperature type

Handwheel

- side handwheel

Accessories

- pneumatic positioner
- electropneumatic positioner
- digital positioner
- limit switches
- position transmitter
- filter-reducer of supply pressure
- blocking valve



AP

pneumatic piston actuator

Actuator function

- single acting – SR
- double acting – DA

Actuator type

- pneumatic piston actuator – quarter revolution

Rotation angle

- 0 – 90° + 3°

Torsion force

- 6,5 – 3 876 Nm → single-acting
- 5,9 – 4 312 Nm → double-acting

Feeding pressure range

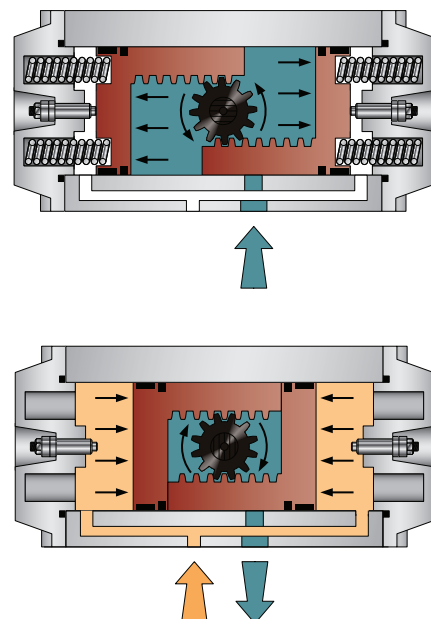
- 2 – 10 bar

Medium temperature range

- -20 °C to +80 °C – sealing Buna N
- -20 °C to +150 °C – sealing Viton
- -50 °C to +80 °C – sealing Silicon

Accessories

- top handwheel
- 3/2 – 5/2 way control valve
- pneumatic positioner
- electropneumatic positioner
- limit switches – inductive, mechanical
- position transmitter
- filter-reducer of supply pressure
- blocking valve



TZID-C

electropneumatic positioner

Input control signal

- current loop 4 ... 20 mA

Output position feedback

- current loop 4 ... 20 mA

Maximum supply pressure

- clean, dry (frozen) air 600 kPa

Protection enclosure

- IP65

Operating temperature

- -40 °C to +85 °C

Explosion protection

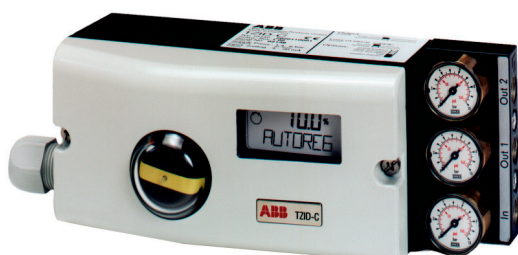
- ATEX certificate
- II 2 G EEx ib IIC T6
- II 2 G EEx ia IIC T6

Main features

- digital, intelligent (smart) device
- LCD display
- Failsafe function
- Fail-freeze function
- simply programmable functions
- valve diagnostic

Optional equipment

- position feedback module 4 ... 20 mA
- HART communication
- inductive limit switch module
- mechanical limit switch module
- gage block



SIPART PS2

electropneumatic positioner

Input control signal

- current loop 4 ... 20 mA

Output position feedback

- current loop 4 ... 20 mA

Maximum supply pressure

- clean, dry (frozen) air 700 kPa

Protection enclosure

- IP65

Operating temperature

- -30 °C to +80 °C

Explosion protection

- ATEX certificate
- II 2 G EEx ia IIC T6
- II 2 G EEx d IIC T6

Main properties

- digital, intelligent (smart) device
- LCD display
- Failsafe function
- simply programmable functions
- binary input
- valve diagnostic

Optional equipment

- position feedback module 4 ... 20 mA
- HART communication
- PROFIBUS PA communication
- FOUNDATION fieldbus communication
- SIA module (inductive limit switches)
- Alarm module (binary limit switches)
- gage block
- mechanical limit switches



AUMA

electric actuator

Actuator function

- linear actuators
- part-turn actuators

Torques

- 2 000 – 217 000 N
- 63 – 500 Nm

Voltage

- 230 V/50 Hz
- 3 x 400 V/50 Hz; 3 x 500 V/50 Hz

Control signals

- OPEN-STOP-CLOSE control
- current loop 4 ... 20 mA
- PROFIBUS DP

Protection enclosure

- IP67

Handwheel

- yes

Equipment

- limit switches (gilded, tandem sw., triple sw.)
- torque switches
- signaling switches
- heater
- position indicator
- position controller (4 ... 20 mA input signal)
- RWG transmitter (with/without power supply)
- magnetic position or segmental torque switch



HP

hydraulic actuator

Actuator function

- single-acting
- double-acting

Actuator type

- hydraulic ¼ revolution modular with stirrup or comb construction
- hydraulic linear with return spring – single acting
- hydraulic linear with emergency gas-hydraulic accumulator

Nominal power

- 20 ... 600 000 Nm – for ¼ revolution actuator
- 20 ... 80 000 Nm – for linear actuator

Operating and control system for hydraulic actuator

- classic solution – open/close – limit positions defined by limit switches
- linear actuators – position regulation function – linear transmitter built-in inside hydromotor

Maximum feeding pressure

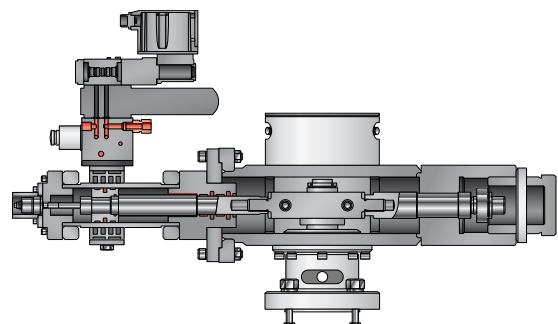
- 320 bar

Hydraulic aggregates

- mini-aggregates type MHG 20 xx and type MHG 40 xx
- hydraulic aggregates type HG 60 xx, HG 100 xx
- bigger hydraulic aggregates with oil volume 160 liters, 250 liters, 400 liters, 630 liters
- implementation of units exactly according to customer requirements

Operating liquid

- Mineral hydraulic oil – HLP
- Hardly-flammable liquid – water glycol – HFC
- Hardly-flammable synthetic liquid – HFD-U, HFD-R



REMARKS



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