Product Catalogue

VALVEA®

www.valvea.eu

Product Summary

VALVEA s.r.o. has been operating since 1998 and has been designing, calculating and supplying industrial valves from its inception. Due to the wide range of materials and various designs, the available range of products allows their application in the field of metering and regulation, mainly in the following sectors:

- Petrochemicals and chemicals
- Pharmacy
- Power engineering
- Industrial gases
- Metallurgy
- Food industry

We also have experience with delivering products for nuclear power plants.

Obtain a complex solution, from the design, to commissioning and servicing

Own research and development → **Innovative DIVENT calculation software** → **Long-term product reliability** → **Service and technical support**

The company's long-term goal is to meet customer requirements as closely as possible with emphasis on:

- professional, complex technical support (design and calculation, technical consultations, execution of a bid, other related services)
- a proactive approach
- implementation of new technical solutions
- high product quality
- long-term product reliability
- high quality warranty and post-warranty servicing

The company uses its own computer software for executing designs and calculations for control valves.

Certification and Customers

The company implements a quality management system according to ČSN EN **ISO 9001:2016**, an environmental management system according to ČSN EN **ISO 14001:2016** and a system for management of occupational health and safety according to ČSN EN **ISO 45001:2018**. We also implement a system for complex quality assurance according to Directive of the European Parliament and Council **2014/68/EU, module H.**

As well as customers in the Czech Republic and Slovakia, we also have satisfied customers in other EU countries, in Russia, in the Middle East, Asia and many other countries. and regions.

Catalogue Content

GLOBE CONTROL VALVES
These offer the best option for control accuracy and a broad control range, with all the advantages of linear control valves.

CONTROL VALVES – MODIFIED SOLUTIONS
Intended for customers who require specific solutions and an individual approach for their most demanding applications.

SEGMENT AND ROTARY VALVES
High-performance control valves designed for application of liquid, gas, vapour and sediment management with requirements for high capacity, a wide range and difficult environments.

SELF-OPERATED REGULATORS
Reduction or relief valves controlled without the need for any other auxiliary power.

BUTTERFLY VALVES
Primarily used for their shut-off function, which allows them to fully optimise the efficiency of process operations. The wide range of standard materials also allows for many types of application.

SHUT-OFF VALVES
The simple solution of a globe shut-off valve combined with a pneumatic actuator, intended for frequently shutting-off media flows in a pipe branch.

PRESSURE REDUCING AND COOLING STATIONS
Reduces steam pressure and volume on the basis of the customer's requirements. Various design solutions are available depending on the input.

STEAM COOLERS
Equipment intended for reducing the temperature of input steam, various cooler designs are available, with fixed or variable geometry or application of steam atomisation for meeting guaranteed steam parameters.

ACTUATORS
Actuators intended for controlling valves. A wide range of reliable and high-quality pneumatic, electric or manual actuators, designed so that they maximise cycle life and process efficiency.

SKIDS
A compact, functional unit installed on a frame, with ready-to-use connection sites for easy incorporation into a system. The system usually includes valves, pipes, tanks, metering and control elements, electrical equipment and often additional equipment.

CUSTOM SOLUTIONS
Extended service life and lower maintenance costs are possible thanks to individually designed valve solutions, even in corrosive, erosive and high-speed applications.

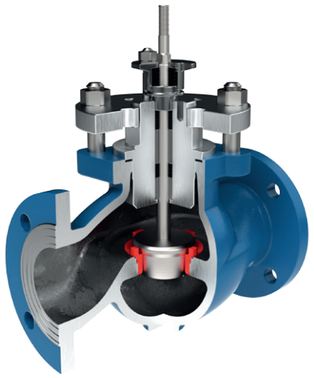
Control and Shut-off Valves

Steam Conditioning and Desuperheating Equipment

Control Elements for Valves

Skids and Custom Solutions

CONTROL VALVE
VA2011



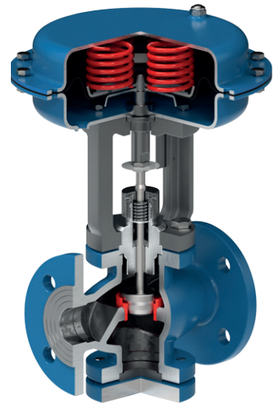
Single-seated globe valve with optional balanced plug

CONTROL VALVE
VA2011.1

Control valve for higher flow rates

Nominal Diameters	DN 15 (½“) – DN 250 (10“)	DN 15 (½“) – DN 100 (4“)
Nominal Pressure Values	PN 16 – PN 40 Class 150 - Class 300	PN 16 – PN 25
Design	single-seat globe valve with optional balanced plug	single-seat straight globe valve
Working Temperature Range	-196°C to +400°C	-30°C to +200°C
Flow Characteristics	linear, equal percentage, on/off percent	linear, equal percent
Flow Coefficient kvs	0.01 – 630 [m3.h-1]	1.7 – 185.5 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class VI
Body Material	grey iron GJL 250 (GG25) ductile iron GJS 400-18T (GGG-40) carbon steel GP240 GH(1.0619), A216 WCB stainless steel GX5CrNiMo 19-11-2 (1.4408) other according to requirements	stainless steel AISI 316L
Inner Parts Material	stainless steel, Stellite, Monel, Hastelloy	stainless steel AISI 316L
Connection	flanged	flanged, welded
Actuator Types	electric, electro-hydraulic, hydraulic, manual	thread DN15 – DN50 pneumatic diaphragm (with handwheel)

CONTROL VALVE
VA2011.8



Basic range of multi-purpose control valves for multi-purpose use, with a fast delivery time

CONTROL VALVE
VA2012.A

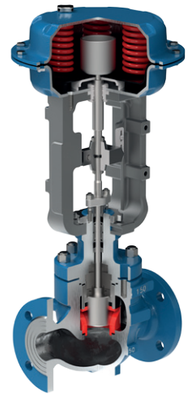
Single-seat control valve for more demanding applications with optional perforated plug and cage

Nominal Diameters	DN 15 – DN 150	DN 15 (½“) – DN 300 (12“)
Nominal Pressure Values	PN 16 – PN 40	PN 16 – PN 400 Class 150 – Class 2500
Design	single-seat straight globe valve	single-seat globe valve profiled stem perforated stem optional multi-level reduction
Working Temperature Range	-20°C to +205°C	-196°C to +650°C
Flow Characteristics	linear, equal percent	linear, equal percent, on/off
Flow Coefficient kvs	0.09 – 256 [m3.h-1]	0.1 – 800 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	ductile iron GGG40 carbon steel GP240 GH(1.0619), A216 WCB stainless steel CF8M	cast steel, GP240 GH(1.0619), A216 WCB alloy cast iron, G17CrMo 9-10 (1.7379) stainless steel, GX5CrNiMo, 19-11-2 (1.4408) other according to requirements
Inner Parts Material	stainless steel AISI 316L, 17-4PH	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged	flanged, welded
Actuator Types	pneumatic diaphragm (with handwheel) electric	electric, electro-hydraulic, hydraulic, manual

CONTROL VALVE
VA2012.B

Single-seat control valve for more demanding applications with optional multi -level reduction and balanced plug

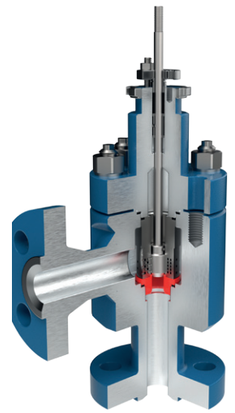
CONTROL VALVE
VA2012.R



Economic, multi-purpose range of control valves

Nominal Diameters	DN 25 (1“) – DN 400 (16“)	DN 25 (1“) – DN 500 (20“)
Nominal Pressure Values	PN 16 – PN 400 Class 150 – Class 2500	PN 16 – PN 400 Class 150 – Class 2500
Design	single-seat globe valve stem in a cage optional multi-level cage optional balanced plug	single-seat globe valve: balanced plug, profiled pinperforated pin, multi-level reduction stem in cage, multicage
Working Temperature Range	-196°C to +650°C	-29°C to +560°C
Flow Characteristics	linear, equal percent, on/off	linear, equal percent, on/off
Flow Coefficient kvs	10 – 2000 [m3.h-1]	1 – 2000 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	cast steel, GP240 GH(1.0619), A216 WCB alloy cast iron, G17CrMo 9-10 (1.7379) stainless steel, GX5CrNiMo, 19-11-2 (1.4408) other according to requirements	carbon steel A216 WCB alloy steel A217 WC6, WC9 stainless steel A351 CF8, CF8M other according to requirements
Inner Parts Material	stainless steel, Stellite, Monel, Hastelloy	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged, welded	flanged, welded
Actuator Types	electric, electro-hydraulic, hydraulic, manual	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic, manual

ANGLE VALVE
VA2012.BK



Angle design for optimising output flow in demanding applications

MULTI- CAGE DESIGN
VA2012.BM

Internal design for eliminating noise, cavitation and chocked flow

Nominal Diameters	DN 15 (½“) – DN 400 (16“)	DN 25 (1“) – DN 300 (12“)
Nominal Pressure Values	PN 16 – PN 100 Class 150 - Class 600	PN 16 – PN 400 Class 150 - Class 2500
Design	single-seat corner valve with optional perforated stem	single-seat globe valve with optional multi-level reduction
Working Temperature Range	-196°C to + 650°C	-196°C to +650°C
Flow Characteristics	linear, equal percent, on/off	linear, equal percent, on/off
Flow Coefficient kvs	6 – 2047 [m3.h-1]	0,1 – 800 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V	class IV, class V
Body Material	carbon steel GP240 GH (1.0619); A216 WCB alloy steel G17CrMo 9-10 (1.7379) stainless steel GX5CrNiMo 19-11-2 (1.4408)	carbon steel GP240 GH (1.0619), A216 WCB alloy steel G17CrMo 9-10 (1.7379) stainless steel GX5CrNiMo 19-11-2 (1.4408)
Inner Parts Material	stainless steel, Stellite, Monel, Hastelloy	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged, welded	flanged, welded
Actuator Type	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic, manual

PRESSURE REDUCING VALVE (TURBINE BY-PASS)

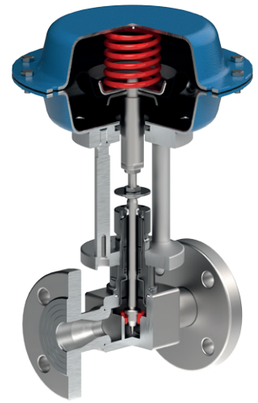
VA2012.BKM

Reducing valve with integrated cooling for turbine by-pass

Nominal Diameters	input DN 100 (4“) – DN 500 (20“) output DN 150 (6“) – DN 1000 (40“)
Nominal Pressure Values	input PN 25 – PN 630 output PN 16 – PN 250
Design	special seat design for reducing the speed and noise of flowing media, with steam cooler angle valve with balanced plug, with integrated steam cooler optional delivery including dump-tube
Working Temperature Range	100 °C – 650 °C
Body Material	carbon steel GP265 GH(1.0425), A216 WCB alloy steel G16Mo3 (1.5415) alloy steel G17CrMo 9-10 (1.7379) alloy steel X10CrMoVNb 9-1 (1.4901)
Inner Parts Material	stainless steel Stellite
Connection	flanged welded
Actuator Types	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic

CONTROL VALVE

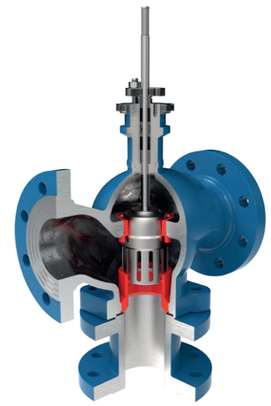
VA2012.3



Globe control valves for micro-flows

THREE-WAY VALVE

VA2013

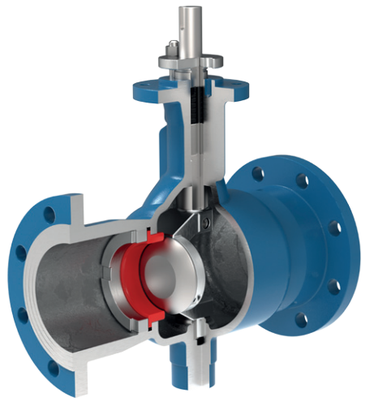


Three-way control valve with mixing or diverter function

Nominal Diameters	DN 4 (¼“) – DN 50 (2“)	DN 15 (½“) – DN 300 (12“)
Nominal Pressure values	PN 16 – PN 100 Class 150 - Class 600	PN 16 – PN 400 Class 150 – Class 2500
Design	straight single-seat globe valve	three-way valve with mixing function three-way valve with diverter function
Working Temperature Range	-196°C to +350°C	-196°C to +650°C
Flow Characteristics	linear, equal percent	linear, equal percent, on/off
Flow Coefficient kvs	0,009 – 41 [m3.h-1]	0,1 – 800 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	stainless steel AISI 316L	carbon steel GP240 GH(1.0619), A216 WCB alloy steel G17CrMo 9-10 (1.7379) stainless steel GX5CrNiMo 19-11-2 (1.4408) other according to requirements
Inner Parts Material	stainless steel AISI 316L, Duplex, Monel	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged, weld, thread, clamp	flanged, welded
Actuator Type	pneumatic diaphragm (with handwheel) electric, manual	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic, manual

Control Valves

ROTARY CONTROL VALVE
VA3033



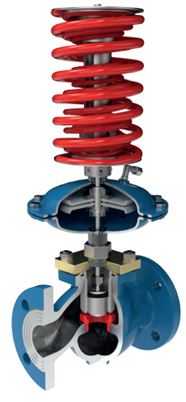
Globe control valve with eccentrically placed rotary stem, suitable for highly viscous or abrasive media

ROTARY CONTROL VALVE
VA3033.V

Ball control valve with V-port, executed as flange or wafer design

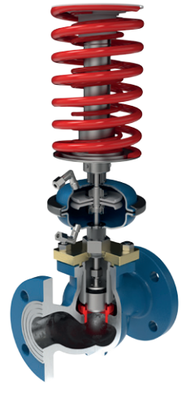
Nominal Diameters	DN 25 (1“) – DN 450 (18“)	DN 25 (1“) – DN 600 (12“)
Nominal Pressure Values	PN 10 – PN 40 Class 150 - Class 300	PN 10 – PN 63 Class 150 – Class 600
Design	valve with eccentric stem	V-ball reducing noise
Working Temperature Range	-46°C to + 450°C	-40°C to + 425°C
Flow Characteristics	linear	equal percent
Flow Coefficient kvs	3 – 3500 [m3.h-1]	27 – 23000 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class VI	class V – metal seat standard class VI – optional with soft seats
Body Material	carbon steel GP240 GH(1.0619), A216 WCB stainless steel GX5CrNiMo 19-11-2 (1.4408)	carbon steel A216 WCB stainless steel AST A351 CF8M stainless steel CF8
Inner Parts Material	stainless steel, other on request	stainless steel 17-4PH, stainless steel 1.4571 stainless steel 1.4571 + Stellite, stainless steel 1.4057 stainless steel 1.4057 + heat treated stainless steel CF8
Connection	flanged, wafer	flanged, wafer
Actuator Type	pneumatic diaphragm or piston (with handwheel), electric, electro-hydraulic, hydraulic	pneumatic diaphragm or piston electric, electro-hydraulic, hydraulic

PRESSURE REGULATOR p_1, p_2, Δp
VA4001, VA4003, VA4005



Self-operating input pressure, output pressure and differential pressure regulators

PRESSURE REGULATOR p_1, p_2
VA4001.P1, VA4001.P3, VA4001.P8



Self-operating regulators for the most demanding applications

Nominal Diameters	DN 15 (½“) – DN 150 (6“)	DN 15 (½“) – DN 250 (10“)
Nominal Pressure Values	PN 10 – PN 40 Class 150 – Class 300	PN 10 – PN 40
Design	automatic output pressure regulator p2 – type VA4003 automatic input pressure regulator p1 – type VA4001 automatic differential pressure regulator Δp – type VA4005	automatic output pressure regulator p2 – type VA4001.P3 and VA4001.P8 automatic input pressure regulator p1 – type VA4001.p1
Working Temperature Range	-30°C to +200°C	-10°C to +340°C
Flow Characteristics	proportional	proportional
Flow Coefficient kvs	1 – 320 [m3.h-1]	1 – 400 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class VI	class IV, class VI
Body Material	grey iron GJL 250 (GG25) ductile iron GJS 400-18T(GGG-40.3) carbon steel GP240 GH(1.0619), A216 WCB stainless steel GX5CrNiMo 19-11-2 (1.4408)	carbon steel GP240 GH(1.0619) stainless steel GX5CrNiMo 19-11-2 (1.4408)
Setting Range [kpa]	40 – 160, 100 – 400, 200 – 800, 280 – 1120	10 – 40, 30 – 160, 100 – 400, 200 – 800 200 – 1100 and others
Maximum Pressure Drop	1.2 MPa	2.5 MPa
Maximum Pressure in Actuator Chamber	2 MPa	2,5 MPa
Internal Component Material	stainless steel 1.4571	stainless steel 1.4057, 1.4541
Connection	flanged	flanged

CENTRIC BUTTERFLY VALVE

VA5001.S, VA5001.A

Simple design made using a range of various rubber or elastomer materials

Nominal Diameters	DN 40 (1 ½“) – DN 1000 (40“)
Nominal Pressure Values	PN 6 – PN 16 Class 150
Design	butterfly valve with replaceable seat
Working Temperature Range	-20°C to +160°C
Flow Characteristics	on/off
Flow Coefficient kvs	69 – 51034 [m3.h-1]
Leakage Class (iec 60534 – 4)	class “A”
Body Material	ductile iron, carbon steel stainless steel, Al/Bronze, F51
Disc Material	ductile iron, carbon steel stainless steel, Al/Bronze
Steat Material	NBR, EPDM, EPDM-HT, VITON SILICONE, P.T.F.E. and others
Connection	lug wafer
Actuator Type	manual lever with position lock, gearbox with handwheel pneumatic piston, hydraulic, electric

DOUBLE ECCENTRIC BUTTERFLY VALVE

VA5002.S, VA5002.A

Double eccentric valve for more demanding applications

Nominal Diameters	DN 80 (1 ½“) – DN 1400 (56“)
Nominal Pressure Values	PN 10 – PN 16 Class 150
Design	double eccentric butterfly valve
Working Temperature Range	-50°C to +200°C
Flow Characteristics	on/off
Flow Coefficient kvs	od 219 .... [m3.h-1]
Leakage Class (iec 60534 – 4)	class VI
Body Material	ductile iron, carbon steel, stainless steel
Disc Material	ductile iron, carbon steel, stainless steel
Steat Material	seat seal material: P.T.F.E, graphite
Connection	lug wafer
Actuator Type	gearbox with handwheel, pneumatic piston hydraulic, electric

TRIPLE-ECCENTRIC VALVE

VA5003.S, VA5003.A

Triple-eccentric valve with metal seats for the most demanding applications

Nominal Diameters	DN 80 (3“) – DN 1200 (48“)
Nominal Pressure Values	Class 150 – Class 600
Design	triple-eccentric on/off flap
Working Temperature Range	-196°C to +700°C
Flow Characteristics	on/off
Leakage Class (fci 70-2)	class VI
Body Material	body and disc material: carbon steel, stainless steel, Super Duplex bronze
Connection	wafer, lug flanged
Actuator Type	gearbox with handwheel pneumatic piston, hydraulic, electric

FLUE DAMPER

VA5005

Flue damper for high temperatures

Nominal Diameters	DN 150 (6“) – DN 3000 (120“)
Nominal Pressure Values	PN 6 - PN 10 Class 150
Design	centric flap radial flap
Working Temperature Range	100°C to +1000°C
Flow Characteristics	on/off
Leakage Class (fci 70-2)	class I - IV
Body Material	carbon steel S275 JR stainless steel AISI 304 stainless steel AISI 316
Connection	flanged, lug
Actuator Type	gearbox with handwheel pneumatic piston, hydraulic, electric

SHUT-OFF VALVE
VA1010

2-way or 3-way design
with shut-off function

SHUT-OFF VALVE
VA1010.V

Stainless steel shut-off valve,
with higher leakage class as standard

Nominal Diameters	DN 15 (½“) – DN 150 (6“)	DN 15 – DN 200
Nominal Pressure Values	PN 16 – PN 40 Class 300	PN 10 – PN 25
Design	single-seat valve, 2-way shut-off valve, 3-way shut-off valve	single-seat valve
Working Temperature Range	-196°C to +350°C	-30°C to +180°C
Flow Characteristics	on/off	on/off
Flow Coefficient kvs	3.5 – 256 [m3.h-1]	4.3 – 739 [m3.h-1]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV
Body Material	ductile iron GGG40 – PN 16 carbon steel A216 WCB – PN 40 stainless steel A351 CF8, CF8M – PN 40	stainless steel AISI316/316L
Inner Parts Material	stainless steel AISI 316L 17-4PH, Hastelloy, Monel	stainless steel AISI316/316L
Connection	flanged	flanged – VA1010.V - FL thread– VA1010.V -FF weld – VA1010.V -BW
Actuator Type	single-acting pneumatic cylinder double-acting pneumatic cylinder	single-acting pneumatic cylinder double-acting pneumatic cylinder

STEAM COOLER
VA7010.V, VA7010.F, VA7010.P

Lance steam cooler with fixed
or variable nozzle

INTERFLANGE STEAM COOLER
VA7020

Steam cooler design utilising auxiliary
steam to atomise injected water

Nominal Diameters	water DN 15 (½“) – DN 50 (2“) steam DN 50 (2“) – DN 200 (8“)	steam DN 80 (3“) – DN 200 (8“) water DN 15 (½“) – DN 25 (1“)
Nominal Pressure Values	PN 40 – PN 400 Class 300 - Class 2500	PN 40 Class 300
Design	lance cooler with axial cooling medium spray variable geometry spray nozzle (VA7010.V) fixed geometry spray nozzle (VA7010.F) gradually opening spray nozzle (VA7010.P)	interflange cooler with four radial-spray nozzles for cooling medium
Working Temperature Range	100°C - 560°C	100°C - 500°C
Internal Component Material	carbon steel P265 GH(1.0425), A105 alloy steel 16Mo3 (1.5415) alloy steel 17CrMo 9-10 (1.7377) stainless steel X6CrNiTi 18-10 (1.4541)	carbon steel P265 GH (1.0425), A105 alloy steel 16Mo3 (1.5415) alloy steel 17CrMo 9-10 (1.7377) stainless steel X6CrNiTi 18-10 (1.4541)

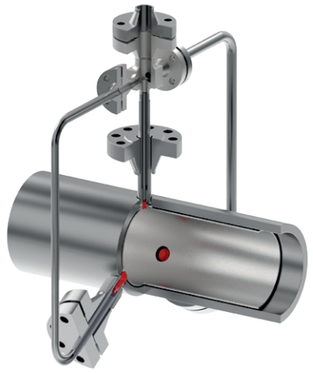
STEAM ATOMISING COOLER

VA7040

Steam cooler design utilising auxiliary steam to atomise injected water

CHAMBER STEAM COOLER

VA7050.V, VA7050.F



Steam cooler with nozzles located along the perimeter of the injection chamber

Nominal Diameters	water DN 15 (½“) – DN 50 (2“) atomising steam DN 15 (½“) – DN25 (1“) steam pipe DN 80 (3“) – DN 500 (20“)	steam DN 80 (3“) – DN 800 (32“) water DN 15 (½“) – DN 50 (2“)
Nominal Pressure Values	PN 16 – PN 400 Class 150 - Class 2500	PN 16 – PN 400 Class 150 - Class 2500
Design	cooling medium sprayed using atomising steam	lance cooler with axial cooling medium spray lance cooler with radial cooling medium spray fixed or variable nozzle geometry
Working Temperature Range	100°C - 560°C	100°C - 560°C
Internal Component Material	carbon steel P265 GH (1.0425), A105 alloy steel 16Mo3 (1.5415) alloy steel 17CrMo 9-10 (1.7377) stainless steel X6CrNiTi 18-10 (1.4541)	carbon steel P265 GH(1.0425), A105 alloy steel 16Mo3 (1.5415) alloy steel 17CrMo 9-10 (1.7377) stainless steel X6CrNiTi 18-10 (1.4541)

STEAM PRESSURE REDUCING AND COOLING STATION

VA9010

Solution for reducing steam pressure and cooling

Nominal Diameters	DN 40 (1 ½ “) – DN 400 (16“) output DN 80 (3“) – DN 1000 (40“)
Nominal Pressure Values	input PN 25 – PN 400 output PN 16 – PN 250
Design	special seat design for reducing the speed and noise of flowing media integrated steam cooler with fixed or variable geometry
Working Temperature Range	100 °C – 560 °C
Body Material	carbon steel GP265 GH(1.0425), A216 WCB alloy steel G16Mo3 (1.5415) alloy steel G17CrMo 9-10 (1.7379)
Inner Parts Material	stainless steel Stellite
Connection	flanged welded
Actuator Types	pneumatic, electric, hydraulic

STEAM PRESSURE REDUCING AND COOLING STATION

VA9020

Complex solution for reducing steam pressure and cooling

Input Pipe Diameter	DN 40 (2 1/2“) – DN 300 (12“)
Output Pipe Diameter	DN 50 (2“) – DN 600 (24“)
Nominal Pressure	PN16, PN40, PN63, PN100, PN160, PN250, PN400
Working Temperature Range	100°C až +560°C
Design Standard	PED, EN13480
End Connection	flanged, welded
Valve Body Material	cast steel, alloy steel, stainless steel
Pipe Material	steel, alloy steel, stainless steel
Optional Design	pressure converter, temperature converter, pressure gauge, thermometer, flow meter, PID controller, control panel, distributor, frame

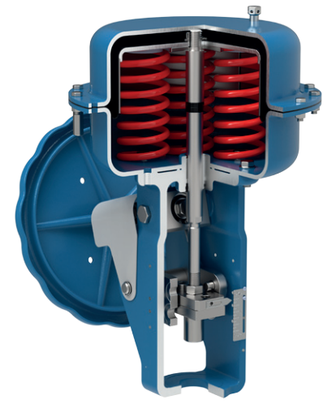
PNEUMATIC ACTUATOR

LP0

Linear diaphragm spring actuator
controlled by compressed air
with optional top handwheel control

PNEUMATIC ACTUATOR

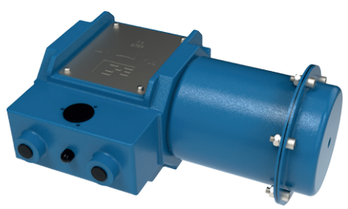
LP1



Linear diaphragm spring actuator
controlled by compressed air
with optional side handwheel control

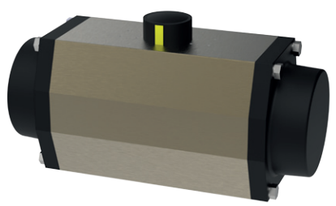
Actuator Function	direct – the spring opens without air pressure indirect - the spring closes without air pressure	direct – the spring opens without air pressure indirect - the spring closes without air pressure
Actuator Type	single-acting pneumatic diaphragm actuator	single-acting pneumatic diaphragm actuator
Actuator Stroke [mm]	20, 38, 50, 60, 80, 100	20, 38, 50, 60, 80, 100
Diaphragm Working Area [cm2]	250, 400, 630, 2x630, 1000, 1500, 2x 1500	250, 400, 630, 1000, 1500, 3000
Spring Deflection Range [kpa]	20 – 100, 40 – 120, 60 – 140 (3 springs) 40 – 200, 80 – 240, 120 – 280 (6 springs) 180 – 380 (12 springs)	20 – 100, 40 – 120, 60 – 140 (3 springs) 40 – 200, 80 – 240, 120 – 280 (6 springs) 180 – 380 (12 springs)
Potential Force [kn]	1 – 90 (air) 0.5 – 54 (spring)	1 – 90 (air) 0.5 – 54 (spring)
Maximum Supply Pressure [kpa]	450	140 / 250 / 450
Working Temperature Range	-40 °C to +80 °C – standard -60 °C to +80 °C – low-temperature design	-40 °C to +80 °C – standard -60 °C to +80 °C – low-temperature design
Hand Control	top handwheel	side handwheel
Optional Accessories	pneumatic positioner electropneumatic positioner position transmitter, limit switches 3/2 – way control valve supply pressure reducing unit filter lock-up valve, pneumatic booster	pneumatic positioner electropneumatic positioner position transmitter, limit switches 3/2 – way control valve supply pressure reducing unit filter lock-up valve, pneumatic booster

PNEUMATIC ROTARY ACTUATOR
RP99



Single-acting rotary diaphragm spring actuator

PNEUMATIC PISTON ACTUATOR
AP



Quarter-turn pneumatic rotary piston actuator

Actuator Function	direct – the spring opens without air pressure indirect - the spring closes without air pressure	single-acting - SR double-acting - DA
Actuator Type	single-acting pneumatic diaphragm actuator	pneumatic piston actuator – quarter-turn
Working Angle of Rotation	0° - 25°, 0° - 40°, 0° - 60°, 0° - 90°	0° - 90°
Diaphragm Working Area [cm2]	120 (99/I), 240 (99/II), 780 (99/III)	
Spring Deflection Range [kpa]	80 – 160, 100 – 200, 160 – 320	
Maximum Supply Pressure [kpa]	450	
Control Force		6,5 – 3876 Nm – single-acting 5,9 – 4312 Nm – double-acting
Supply Pressure Range [kpa]		200 - 800
Working Temperature Range	-30 °C to +80 °C – standard	-20 °C to +80 °C – Buna N seal -20 °C to +150 °C – Viton seal -50 °C to +80 °C – Silicone seal
Manual Control	side handwheel	
Connection	pneumatic positioner electropneumatic positioner position transmitter, limit switches 3/2 – way control valve supply pressure reducing unit filter lock-up valve, pneumatic booster	3/2 or 5/2 – way control valve pneumatic positioner electropneumatic positioner position transmitter, limit switches supply pressure reducing unit filter lock-up valve

ELECTRIC ACTUATOR
AUMA

Linear or rotary electric actuators with a range of control options

ELECTRIC ACTUATOR
REGADA

Linear or rotary electric actuators with a range of control options

Actuator Function	linear (direct) quarter-turn multi-turn	linear (direct) quarter-turn multi-turn
Control Signals	3 position current loop 4 .. 20 mA HART, Profibus, Fieldbus, Modbus	3 position current loop 4 .. 20 mA Profibus
Power Supply		1 x 230V/50Hz 24VAC, 24VDC 3 x 400V/50 Hz
Working Temperature Range	-30 °C to +70 °C – standard -60 °C to +60 °C – low-temperature design	-30 °C to +70 °C – standard -60 °C - +60 °C – low-temperature design
Enclosure	IP 66, IP 67	IP 65, IP 66, IP 67
Manual Control	side handwheel	side handwheel
Optional Accessories	position transmitters torque switches signalling switch es AUMATIC AC control unit transmitter: RWG, MWG, resistive local control LCD Display reduction gearbox design for EEx explosive atmospheres	position transmitters torque switches signalling switches Rematic AC control unit transmitter: current, resistive local control LCD Display design for EEx explosive atmospheres back-up power supply

ELECTROPNEUMATIC POSITIONER

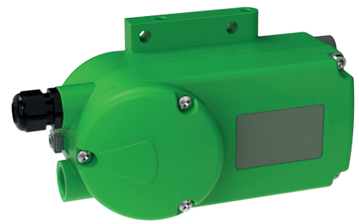
SIPART PS2

Control element for pneumatic actuators assuring precise positioning according to input signal

Input Control Signal	4 ... 20 mA, 4 ... 20 mA + HART 7, Profibus PA, FOUNDATION Fieldbus“
Diagnostics	standard
Air Supply Pressure	1.4 - 7 bar
Electric Shielding According to IEC 60529, NEMA	IP66, NEMA 4x
Operating Temperature	-30 °C až +80 °C
Protection Against Explosion	ATEX, IECEx: Ex i, Ex e, EX t, Ex d FM, CSA: IS, NI/I/2, DIP, XP
Key Properties	digital, intelligent equipment, LCD display failsafe function easily programmed functions binary input valve diagnostics
Optional Accessories	feedback module 4 ... 20 mA induction limit switches (ISL) mechanical limit switches (MLS) alarm module- 3 x digital output and 1 x digital input (DIO) manometer block integrated booster full stainless steel design

ELECTROPNEUMATIC POSITIONER

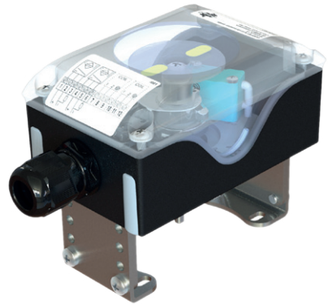
SRD 998



Control element for pneumatic actuators assuring precise positioning according to input signal

4 ... 20 mA, 4 ... 20 mA + HART	
basic or advanced	
1,4 - 10 bar	
IP66, NEMA 4x	
-40 °C až +80 °C	
Intrinsically Safe according to ATEX/IEC Ex II 2 G Ex ia IIC T4/T6 Gb/II 1 D Ex ia IIIC T100°C II 2 G Ex ib IIC T4/T6 Gb/II 2 D Ex ib IIIC T100°C Db II 3 G Ex ic IIC T4/T6 Gc/II 3 D Ex ic IIIC T100°C Dc	
digital, intelligent equipment, LCD display Czech menu failsafe function easily programmed functions valve diagnostics stroke 8 – 260 mm	
feedback 4 ... 20 mA Hart 7 communication single-acting or double-acting design optional Cv = 0.2 or 0.5 or 0.85 manometer block	

LIMIT SWITCHES



Mechanical or inductive sensors for signalising limit positions

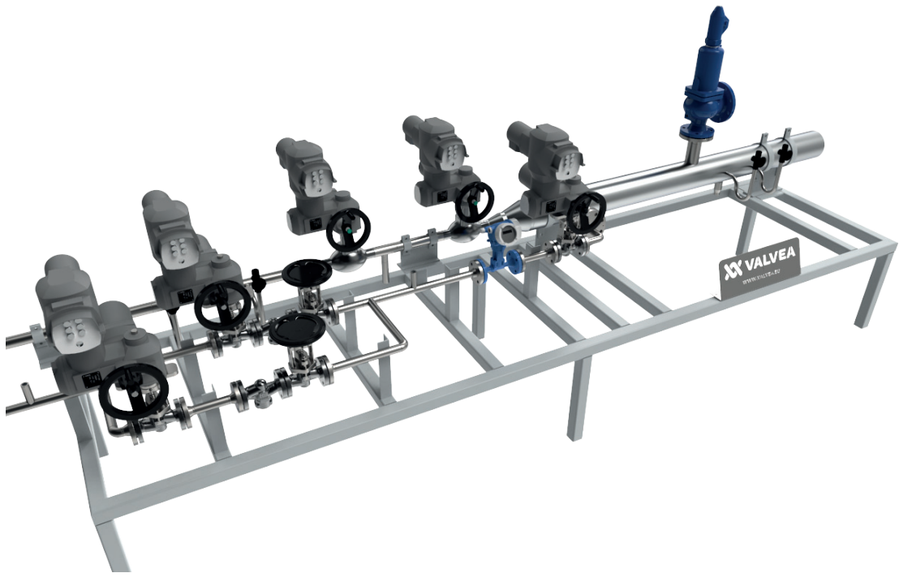
Sensor Type	mechanical, inductive
Contact Type	SPDT, DPDT, PNP, NPN, Namur
Ambient Temperature Range	-55 °C až +90 °C
Shielding	IP66, IP67, IP68
Box	polyamide, vestiamid aluminium, stainless steel
Electric Connection	bushing M20x1.5 connector M12 with 5 pins internal thread NPT 1/2“
Installation to Pneumatic Actuator by Stainless Steel Bracket	linear – according to DIN EN 60534-6-1 rotating – according to VDI/VDE 3845
Design	standard Ex ia, Ex eia, Ex de, Ex t
Certificates	ATEX, IECEX, EAC, EAC Ex NEPSI/CCC Ex, SIL 1-3

FILTER-REGULATOR

For filtering and conditioning air for pneumatic actuators

Maximum Supply Pressure	16 bar
Adjustable Range	0 až 8 bar
Used Materials	plastic, aluminium, stainless steel
Desludging	manual, automatic
Temperature Range	-55 °C až +90 °C
Filter Insert	30 µm
Design	ATEX 2 GD (Ex h IIC T6 Gb)
Connection	G¼“; G½“ NPT ¼“, NPT½“

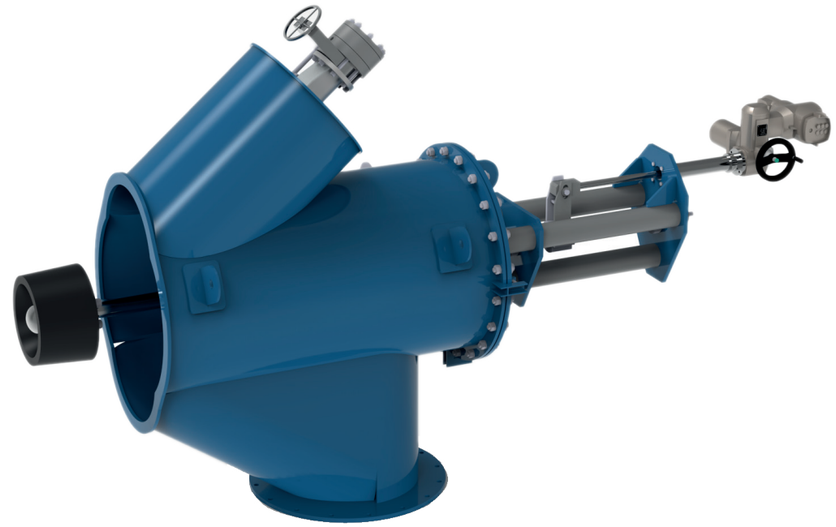
SKIDS



A modular, ready-to-install solution for steam conditioning

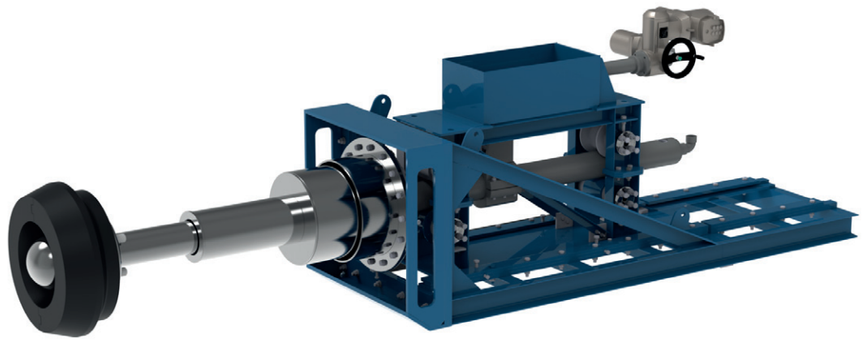
Input Pipe Diameter	DN 40 (2 1/2“) – DN 300 (12“)
Output Pipe Diameter	DN 50 (2“) – DN 600 (24“)
Nominal Pressure	PN16, PN40, PN63, PN100, PN160, PN250, PN400
Working Temperature Range	100°C až +560°C
Design Standard	PED, EN13480
End Connection	flanged, welded
Valve Body Material	cast steel, alloy steel, stainless steel
Pipe Material	steel, alloy steel, stainless steel
Optional Design	pressure converter, temperature converter, pressure gauge, thermometer, flow meter, PID controller, control panel, distributor, frame

CUSTOM SOLUTIONS



Design and manufacture of special valves to meet customer requirements

Use	control of fluid ash flow discharging fluid ash from the incineration chamber
Size	DN 80 - DN 600
Working Temperature Range	800°C až +1000°C
Material Options	carbon steel heat-resistant steel nickel-based alloys
Internal Insert	heat-resistant lining
Standard Design	ceramic seat, which is part of the heat-resistant stem packing made from special alloy permanently water-cooled guide shaft Steel structure, used to anchor the chamber casing shaft guide, used to precisely position the shaft with the stem apertures for visual inspection of the flow of the fluid layer through the fitting
Actuator Control	electric, pneumatic, hydraulic



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Notes

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