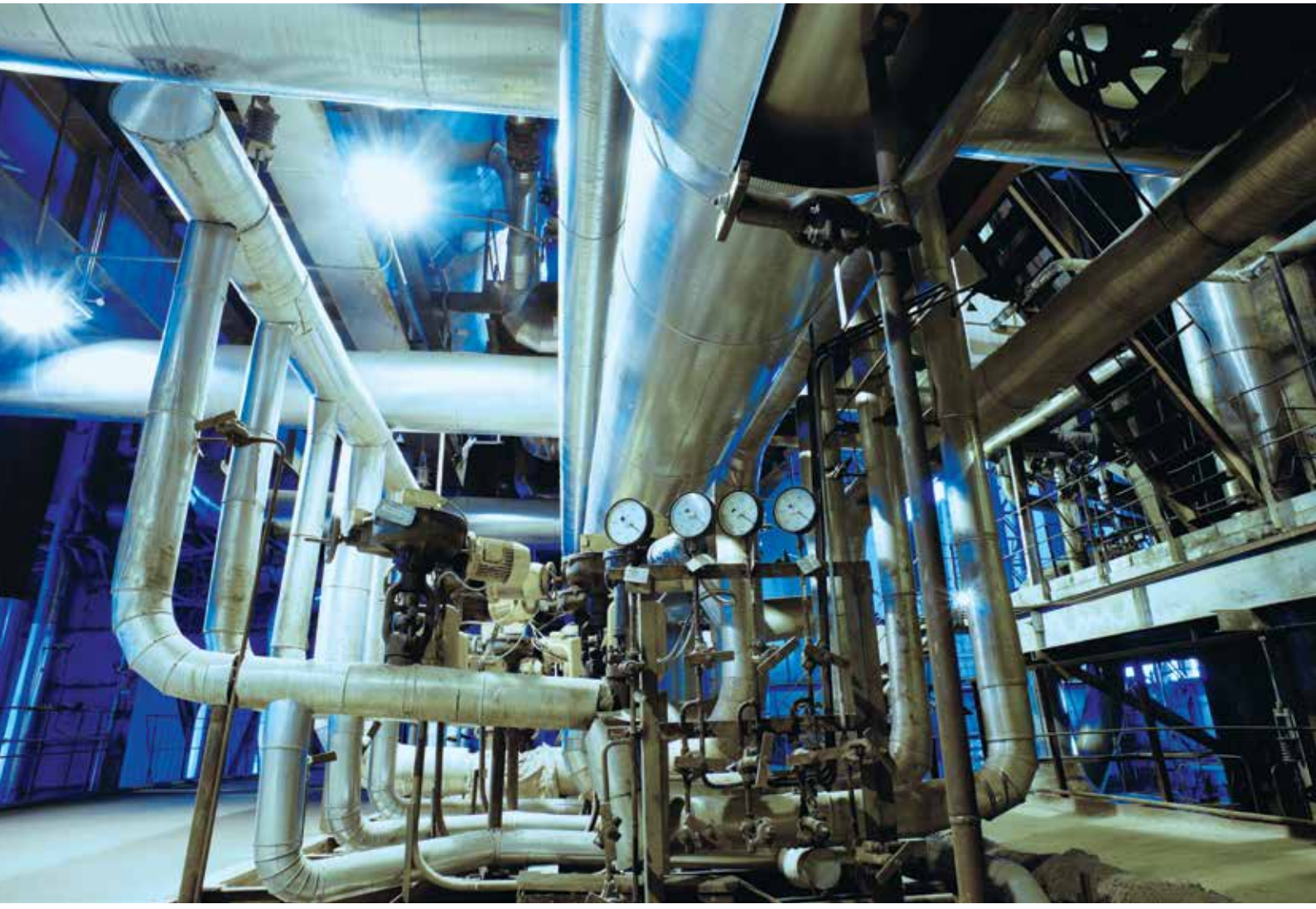
Product Catalogue



VALVEA®

www.valvea.eu

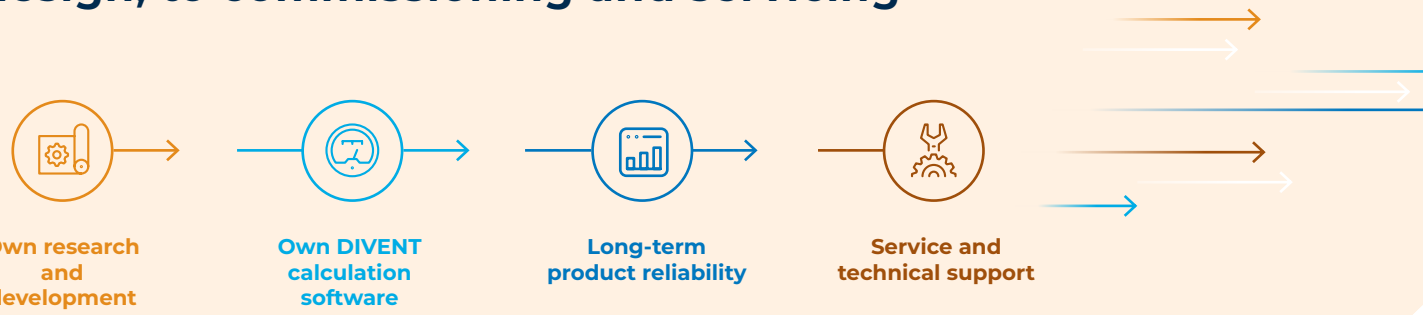
Product Summary

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



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 more than 60 countries around the world.

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 various solution of a shut-off valves intended for shutting-off media flows in a pipe branch.

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.

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.

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	linear, equal percent
Flow Coefficient kvs	0,01 – 630 [$m^3.h^{-1}$]	1,7 – 185,5 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class VI
Body Material	grey iron ductile iron carbon steel stainless steel other according to requirements	stainless steel
Inner Parts Material	stainless steel, Stellite, Monel, Hastelloy	stainless steel AISI 316L
Connection	flanged	flanged welded threaded
Actuator Types	pneumatic diaphragm (with handwheel), electric, electro-hydraulic, hydraulic, manual	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 plug perforated plug 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 [$m^3.h^{-1}$]	0,1 – 800 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	ductile iron carbon steel stainless steel	cast steel alloy cast iron stainless steel other according to requirements
Inner Parts Material	stainless steel	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged	flanged, welded
Actuator Types	pneumatic diaphragm (with handwheel) electric	pneumatic diaphragm (with handwheel), 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 plug, perforated plug cage-guided plug 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 [$m^3.h^{-1}$]	1 – 2000 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	cast steel alloy cast iron stainless steel other according to requirements	carbon steel alloy steel stainless steel other according to requirements
Inner Parts Material	stainless steel, Stellite, Monel, Hastelloy	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged, welded	flanged, welded
Actuator Types	pneumatic diaphragm (with handwheel) 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 angle valve with optional perforated plug	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	0,1 - 2500 [$m^3.h^{-1}$]	0,1 – 800 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class V	class IV, class V
Body Material	carbon steel alloy steel stainless steel	carbon steel alloy steel stainless steel
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 and integrated steam cooler optional delivery including dump-tube
Working Temperature Range	100 °C to 650 °C
Body Material	carbon steel alloy steel
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 diverting 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	hree-way valve with mixing function three-way valve with diverting 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 [$m^3.h^{-1}$]	0,1 – 800 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class V, class VI	class IV, class V, class VI
Body Material	stainless steel	carbon steel alloy steel stainless steel other according to requirements
Inner Parts Material	stainless steel, Duplex, Monel	stainless steel, Stellite, Monel, Hastelloy
Connection	flanged, welded, threaded, clamped	flanged, welded
Actuator Type	pneumatic diaphragm (with handwheel) electric, manual	pneumatic diaphragm (with handwheel) electric, electro-hydraulic, hydraulic, manual

ROTARY CONTROL VALVE
VA3033

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

ROTARY CONTROL VALVE
VA3033.V

Ball control valve with V-port, executed as flanged 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 [$m^3.h^{-1}$]	27 – 23000 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class VI	class V – metal seat standard class VI – optional with soft seats
Body Material	carbon steel stainless steel	carbon steel stainless steel
Inner Parts Material	stainless steel, Stellite, other on request	stainless steel stainless steel + Stellite stainless steel + heat treated
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-acting input pressure, output pressure and differential pressure regulators.

PRESSURE REGULATOR p_1, p_2
VA4001.1, VA4001.3, VA4001.8

Self-acting 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	self-acting pressure regulator p_2 – type VA4003 self-acting pressure regulator p_1 – type VA4001 self-acting pressure regulator Δ_p – type VA4005	self-acting pressure regulator p_2 – type VA4001.3 and VA4001.8 self-acting pressure regulator p_1 – type VA4001.1
Working Temperature Range	-30 °C to +200 °C	-10 °C to +340 °C
Flow Characteristics	linear, proportional	linear, proportional
Flow Coefficient kvs	1 – 320 [$m^3.h^{-1}$]	1 – 400 [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class IV, class VI	class IV, class VI
Body Material	grey iron ductile iron carbon steel stainless steel	carbon steel stainless steel
Setting Range [kpa]	40 – 160, 100 – 400, 200 – 800, 280 – 1120 and others	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	stainless steel
Connection	flanged	flanged

CENTRIC BUTTERFLY VALVE
VA5001.S, VA5001.A

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

DOUBLE ECCENTRIC BUT TERFLY VALVE
VA5002.S, VA5002.A, VA5002.N

Double eccentric valve for more demanding applications.

Nominal Diameters	DN 40 (1 ½“) – DN 2000 (80“)	DN 80 (1 ½“) – DN 3000 (120“)
Nominal Pressure Values	PN 6 – PN 16 Class 150	PN 10 – PN 100 Class 150 - 600
Design	butterfly valve with replaceable seat	double eccentric butterfly valve
Working Temperature Range	-20 °C to +160 °C	-50 °C to +200 °C
Flow Characteristics	on/off	on/off
Flow Coefficient kvs	69 – 51034 [$m^3.h^{-1}$]	from 219 .... [$m^3.h^{-1}$]
Leakage Class (iec 60534 – 4)	class “A”	class „A“, IV, V, VI
Body Material	ductile iron carbon steel stainless steel Al/Bronze	ductile iron carbon steel stainless steel
Disc Material	ductile iron, carbon steel stainless steel, Al/Bronze	ductile iron, carbon steel, stainless steel
Seat Material	NBR, EPDM, EPDM-HT, VITON SILIKON, PTFE and others	seat seal material: PTFE, graphite
Connection	LUG WAFER	LUG WAFER
Actuator Type	manual lever with position lock gearbox with handwheel pneumatic piston, hydraulic, electric	gearbox with handwheel pneumatic piston hydraulic, electric

TRIPLE-ECCENTRIC VALVE

VA5003.S, VA5003.A, VA5003.N

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

FLUE GAS DAMPER

VA5005

Flue gas damper for high temperatures.

Nominal Diameters	DN 80 (3“) – DN 3600 (144“)	DN 150 (6“) – DN 7000 (280“)
Nominal Pressure Values	PN 16 - 250 Class 150 – Class 1500	PN 6 - PN 10 Class 150
Design	triple-eccentric butterfly valve	centric butterfly valve radial butterfly valve
Working Temperature Range	-196 °C to +700 °C	100 °C to +1000 °C
Flow Characteristics	on/off	on/off
Leakage Class (fci 70-2)	class „A“, IV, V, VI	class I - IV
Body and Disc Material	carbon steel, stainless steel Super Duplex bronze	carbon steel stainless steel
Connection	WAFER, LUG, flanged	flanged, LUG
Actuator Type	gearbox with handwheel, pneumatic piston, hydraulic, electric	gearbox with handwheel, pneumatic piston, hydraulic, electric

GLOBE VALVE
VA1030, VA1040, VA1046

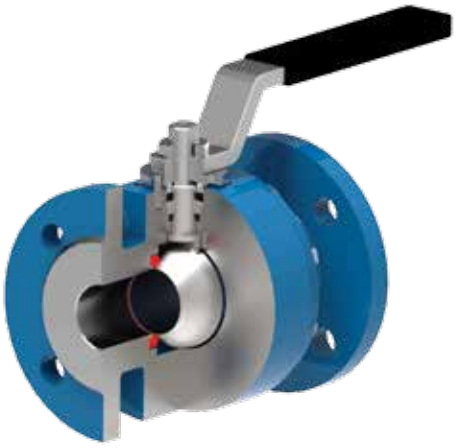
Globe valves in a wide range of designs according to requirements.

SHUT-OFF VALVE
VA1010.V

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

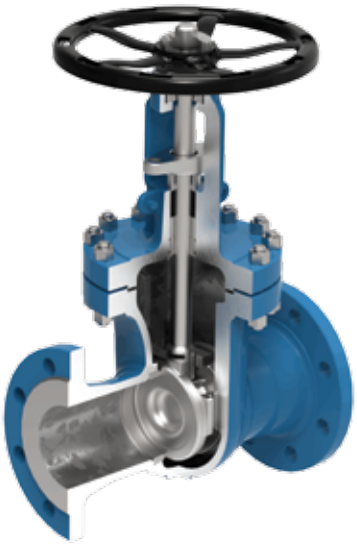
Nominal Diameters	DN 15 (½“) – DN 400 (16“)	DN 15 – DN 200
Nominal Pressure Values	PN 16 – PN 400 Class 150 – Class2500	PN 10 – PN 25
Design	single seated valve with control plug high-pressure	single-seat valve
Working Temperature Range	-60 °C to + 650 °C	-30 °C to +180 °C
Flow Characteristics	on/off	on/off
Leakage Class (iec 60534 – 4)	class A	class IV
Body Material	ductile iron carbon steel alloy steel stainless steel others	stainless steel
Inner Parts Material	stainless steel, Stellit others	stainless steel
Connection	flanged welded	flanged threaded welded
Actuator Type	manual operated, electric pneumatic, hydraulic electrohydraulic	single-acting pneumatic cylinder double-acting pneumatic cylinder

BALL VALVE
VA3010



Ball valves in a wide range of designs according to requirements.

GATE VALVE
VA1033, VA1038, VA1042



Gate valves in a wide range of designs according to requirements.

Nominal diameters	DN 8 (1/4") – DN 300 (12")	DN 50 (2") – DN 1000 (40")
Nominal pressure values	PN 16 – PN 400 Class 150 – Class2500	PN 16 – PN 400 Class 150 – Class2500
Design	fully welded, 1-piece, 2-piece, 3-piece with a floating ball, with a fixed ball three-way, special design	yoke gate valve with pressure-seal bonnet special design
Working temperature range	-60 °C to + 550 °C	-60 °C to + 650 °C
Flow characteristics	on/off	on/off
Leakage class (IEC 60534-4)	class A	class A
Body material	ductile iron carbon steel alloy steel stainless steel others	ductile iron carbon steel alloy steel stainless steel others
Inner parts material	stainless steel others	ductile iron, carbon steel alloy steel, stainless steel others
Connection	flanged, wafer welded, threated	flanged welded
Type of actuator	pneumatic, electric electrohydraulic, hydraulic manual	manual operated with gearbox electric

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 to 560 °C	100 °C to 500 °C
Inner Parts Material	carbon steel alloy steel stainless steel	carbon steel alloy steel stainless steel

STEAM ATOMISING COOLER
VA7040

Steam cooler design utilising auxiliary steam to atomize 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“) atomizing 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 atomizing 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 to 560 °C	100 °C to 560 °C
Inner Parts Material	carbon steel alloy steel stainless steel	carbon steel alloy steel stainless steel

STEAM PRESSURE REDUCING AND COOLING STATION

VA9010

Complex solution for reducing steam pressure and cooling.

Nominal Diameters	input 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 to 560 °C
Body Material	carbon steel alloy steel
Inner Parts Material	stainless steel Stellite
Connection	flanged welded
Actuator Types	pneumatic, electric, hydraulic

STEAM PRESSURE REDUCING AND COOLING STATION

VA9020

Compact, functional unit with ready connection points
for easy installation into the technology.

Nominal Diameters	input 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
Working Temperature Range	100 °C to 560 °C
Valve Body Material	carbon steel alloy steel stainless steel
Inner Parts Material	carbon steel, Stellit
End Connection	flanged welded
Optional design	pressure converter, temperature converter pressure gauge, thermometer flow meter, PID controller, control panel switchboard
Actuator Types	pneumatic, electric, hydraulic

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 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

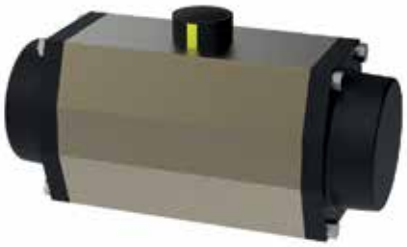
PNEUMATIC ROTARY ACTUATOR

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 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	
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	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 to +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 switches 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.

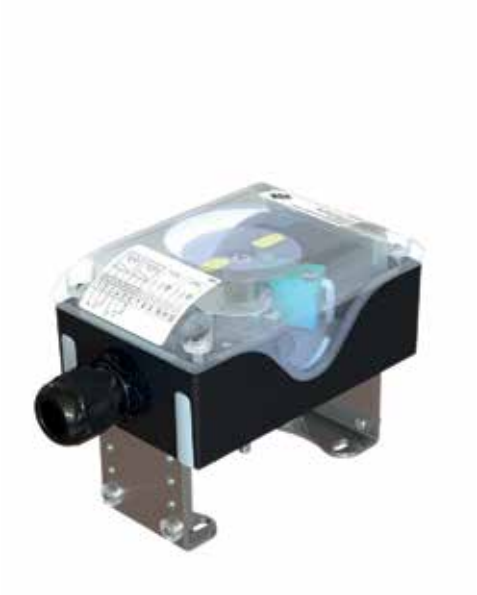
ELECTROPNEUMATIC POSITIONER

SRD 998

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“	4 ... 20 mA, 4 ... 20 mA + HART 7
Diagnostics	standard	basic or advanced
Air Supply Pressure	1,4 - 7 bar	1,4 - 10 bar
Electric Shielding According to IEC 60529, NEMA	IP66, NEMA 4x	IP66, NEMA 4x
Working Temperature	-30 °C to +80 °C	-40 °C to +80 °C
Protection Against Explosion	„ATEX, IECEx: Ex i, Ex e, EX t, Ex d FM, CSA: IS, NI/I/2, DIP, XP“	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
Key Properties	digital, intelligent equipment, LCD display failsafe function easily programmed functions binary input valve diagnostics	digital, intelligent equipment, LCD display Czech menu failsafe function easily programmed functions valve diagnostics stroke 8 – 260 mm
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	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 to +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 to 8 bar
Used Materials	plastic, aluminium, stainless steel
Desludging	manual automatic
Temperature Range	-55 °C to +90 °C
Filter Insert	30 µm
Design	ATEX 2 GD (Ex h IIC T6 Gb)
Connection	G¼“; G½“ NPT ¼“, NPT½“

SKIDS - Pressure reduction and cooling station - on the frame

VA9030

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

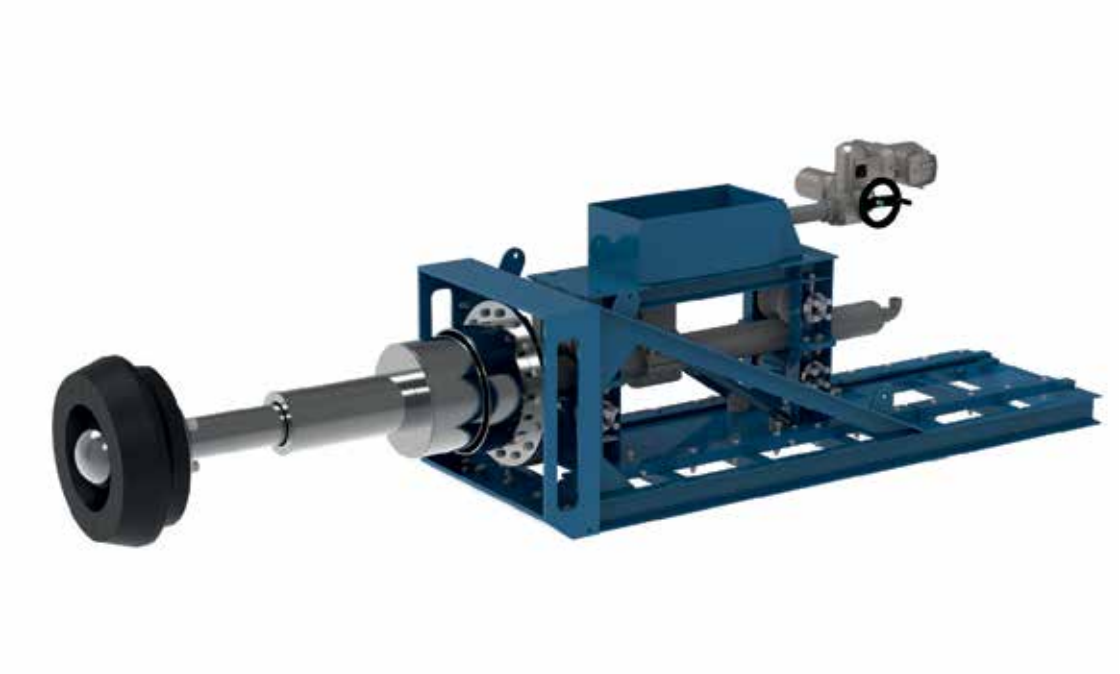
Input Pipe Diameter	DN 40 (2 1/2“) – DN 300 (12“)
Output Pipe Diameter	DN 50 (2“) – DN 600 (24“)
Nominal Pressure	PN 16, PN 40, PN 63, PN 100, PN 160, PN 250, PN 400
Working Temperature Range	100 °C to +560 °C
Design Standard	PED, EN13480
End Connection	flanged, welded
Valve Body Material	carbon steel, alloy steel, stainless steel
Material	carbon steel, alloy steel, stainless steel
Optional Design	pressure converter, temperature converter pressure gauge, thermometer flow meter, PID controller, control panel switchboard, frame
Actuator Types	pneumatic, electric, hydraulic

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 to +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

CUSTOM SOLUTIONS



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