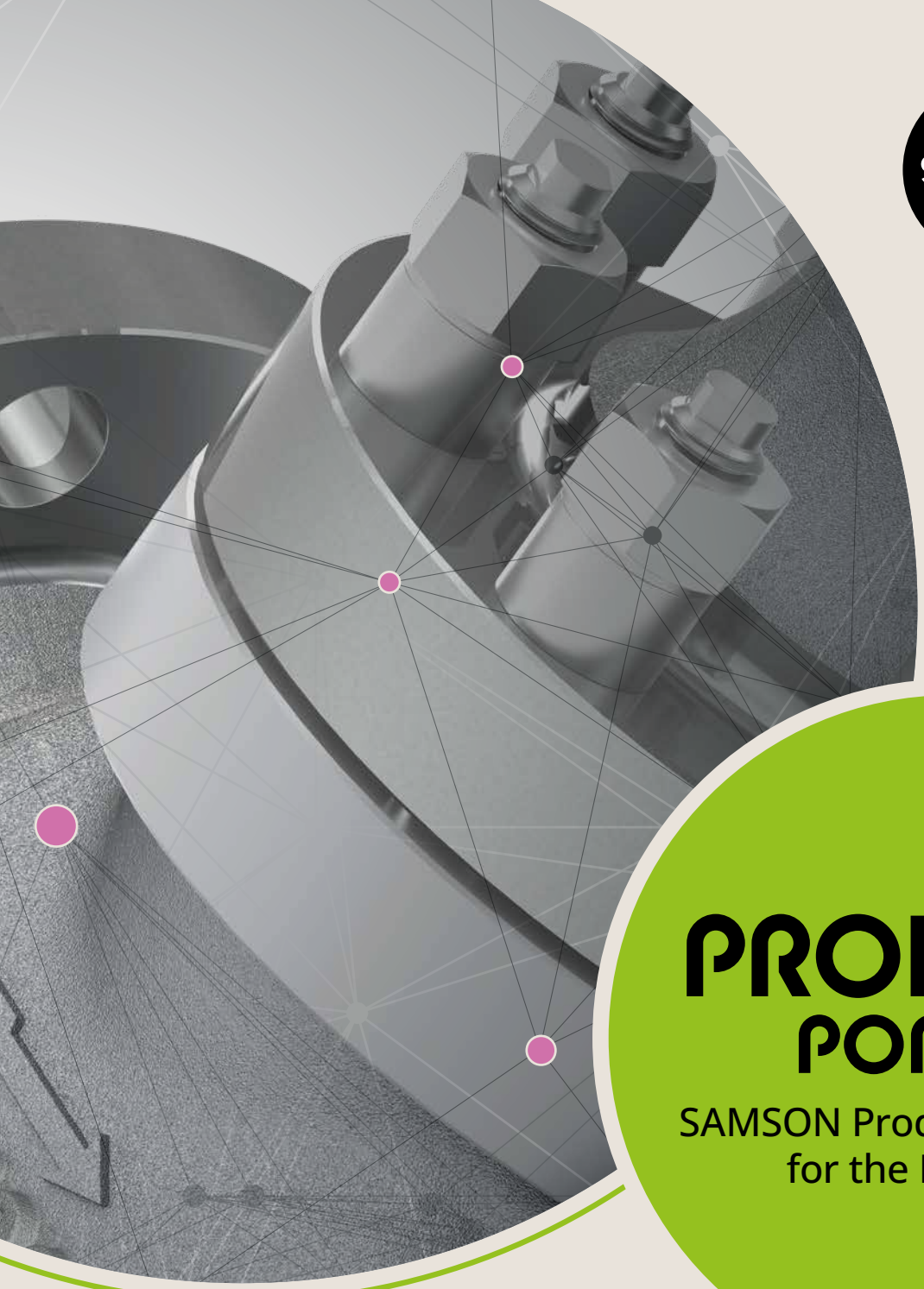


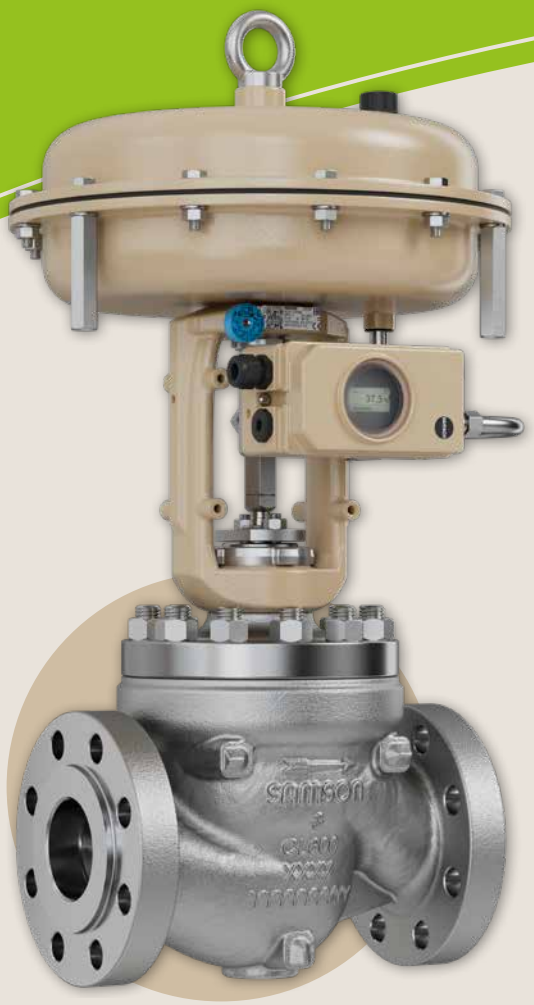
SAMSON AND EVERYTHING FLOWS

PRODUCT PORTFOLIO

SAMSON Product Highlights for the Process Industry

GLOBE VALVES

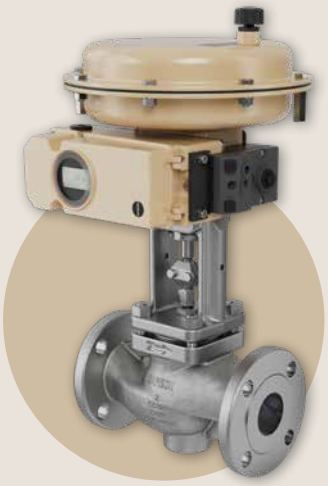
SAMSON globe valves reliably control the flow of your media: non-corrosive, corrosive or erosive media, steam as well as fluids in hygienic and aseptic applications.



SERIES SMS
TYPE 251GR, TYPE 261GR
HIGH-PRESSURE VALVES

The Type 251GR and Type 261GR Valves combine maximum modularity, optimum control performance and easy servicing based on the future-proof Series SMS platform for challenging industrial processes.

Pressures up to PN 160/Class 900
Sizes up to DN 300/NPS 12 (251GR)
up to DN 100/NPS 4 (261GR)



TYPE 3241
GLOBE VALVE

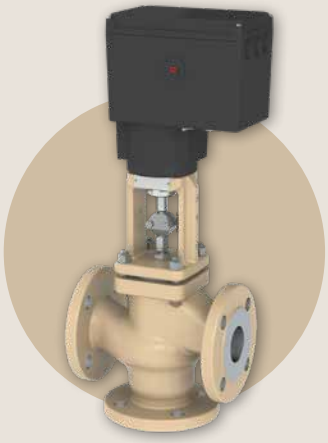
Rugged design for all fields of application, optionally with bellows seal, insulating section or for cryogenic service

Pressures up to PN 40/Class 300
Sizes up to DN 300/NPS 12

TYPE 3321
VALVE FOR UNIVERSAL USE

The perfect, cost-effective solution for less challenging applications: Type 3321 can optionally be combined with Type 3371 or Type 3372 Actuators.

Pressures up to PN 40/Class 300
Sizes up to DN 100/NPS 4



TYPE 3244
THREE-WAY VALVE

Based on the Type 3241 standard globe valve, the Type 3244 Three-way Valve can be used in both mixing and diverting service; it shares numerous options also available for Type 3241, including bellows seal and cryogenic extension bonnet.

Pressures up to PN 40/Class 300
Sizes up to DN 150/NPS 6

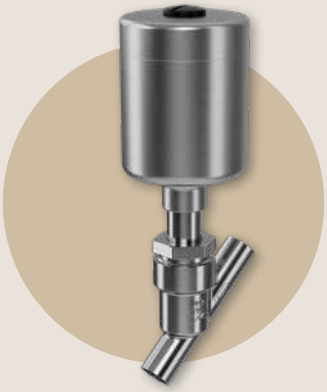
TYPE 3595
VALVE FOR SEVERE SERVICE APPLICATIONS

The globe- or angle-style bodies are made to withstand even the toughest conditions, relying on a plug that is cage guided across the entire travel range and has a minimum clearance to minimize vibrations. Optional trims for liquids and gases to minimize noise emissions and wear

Pressures up to Class 2500
Sizes up to NPS 32

SPECIAL GLOBE VALVES

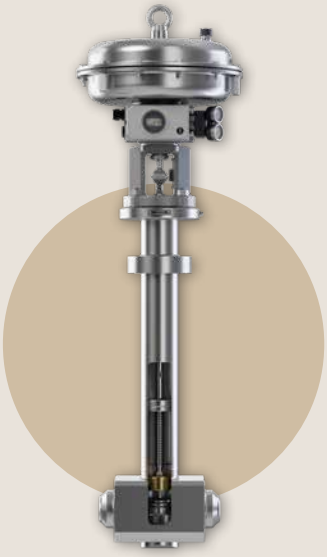
In addition to a successful range for standard applications, SAMSON has developed tailor made valves to match the specific control requirements that exist in various industrial processes.



TYPE 577
POPPET VALVE BY SED

Globe valve with an angle seat body made of stainless steel and a soft-seated flat plug with pneumatic piston actuator.
Suitable for shut-off and throttling service in the food and pharmaceutical industries

Pressures of 25 bar/360 psi
Sizes of DN 8 to 80/NPS ¼ to 3



TYPE 3248
CRYOGENIC VALVE WITH TOP-ENTRY DESIGN

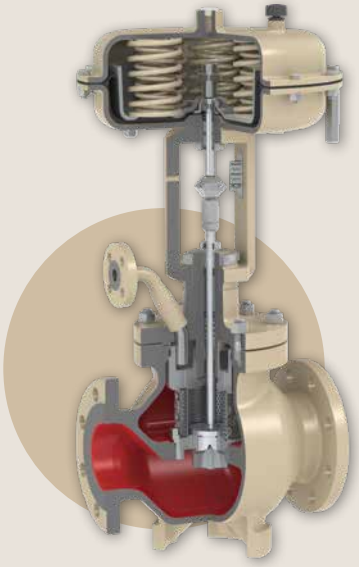
Developed for cold-box applications: minimized heat leakage thanks to the use of a circulation inhibitor and a cryogenic extension bonnet. In-service maintenance reduces downtime as well as the cost of operation in cryogenic applications down to -325 °F.

Pressures up to PN 100/Class 600
Sizes up to DN 150/NPS 6

TYPE 3510
MICRO-FLOW VALVE

Designed for very low flow rates, optionally with bellows seal or insulating section. Suitable for throttling service, available in special materials and a high-pressure version

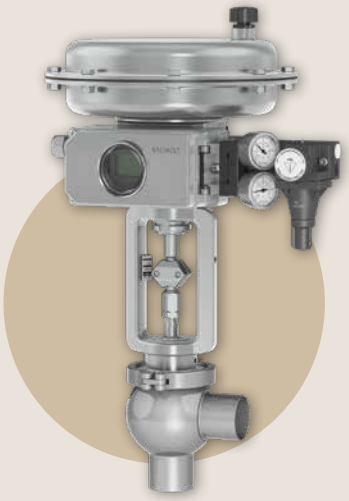
Pressures up to PN 400/Class 2500
Sizes up to DN 25/NPS 1



TYPE 3281
STEAM CONDITIONING VALVE

Designed to reduce the pressure and temperature of steam to predefined set points by injecting water downstream of the valve

Pressures up to PN 160/Class 900
Sizes up to DN 300/NPS 12



TYPE 3347
HYGIENIC ANGLE VALVE

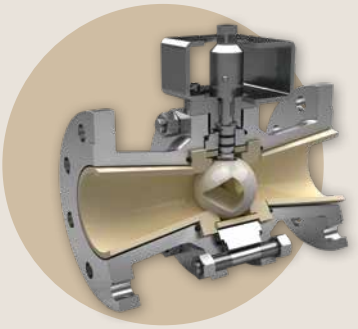
Self-draining angle valve for hygienic applications, wetted sealing materials comply with FDA and EC 1935/2004 regulations. Plug with metal or soft seal. Bar stock and cast bodies available

Pressures of 63 bar/914 psi
Sizes up to DN 150/NPS 6

TYPE 3349
ASEPTIC ANGLE VALVE

Control valve for aseptic applications in the food and pharmaceutical industries with USP-VI diaphragm. 3-A/EHEDG compliance

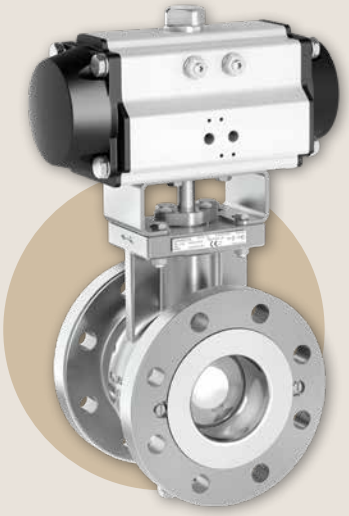
Pressures of 25 bar/360 psi
Sizes of DN 6 to 100/NPS ¼ to 4



TYPE KST
CERAMIC-LINED BALL VALVE BY CERA SYSTEM

Ceramic-lined ball valve suitable for corrosive, strongly abrasive media and media containing solids. The high-quality ceramic internal parts provide excellent resistance to wear. The ball valve is suitable for on/off service and, when fitted with a V-ball, also for throttling service.

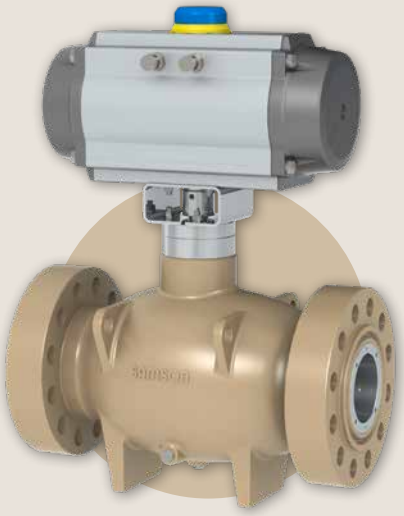
Pressures up to PN 40/Class 300
Sizes up to DN 300/NPS 12



TYPE 3310
SEGMENTED BALL VALVE

By combining a high rangeability with precise control, Type 3310 offers high flow rates in a compact design with both linear and equal percentage trims. Seals comply with EC 1935/2004 and FDA. Optionally with packings certified in accordance with ISO 15848

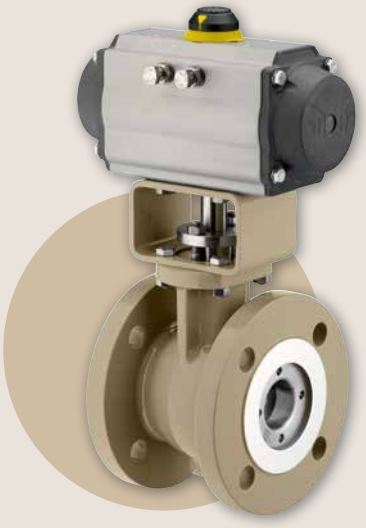
Pressures up to PN 40/Class 300
Sizes up to DN 300/NPS 12



TYPE 3599
AXIAL FLOW VALVE

Excellent control accuracy to handle high flow rates at a high rangeability fitted into a compact body with balanced plug and stem guiding for smooth operation, variety of cage designs to handle critical applications

Pressures up to PN 420/Class 2500
Sizes up to DN 1200/NPS 48



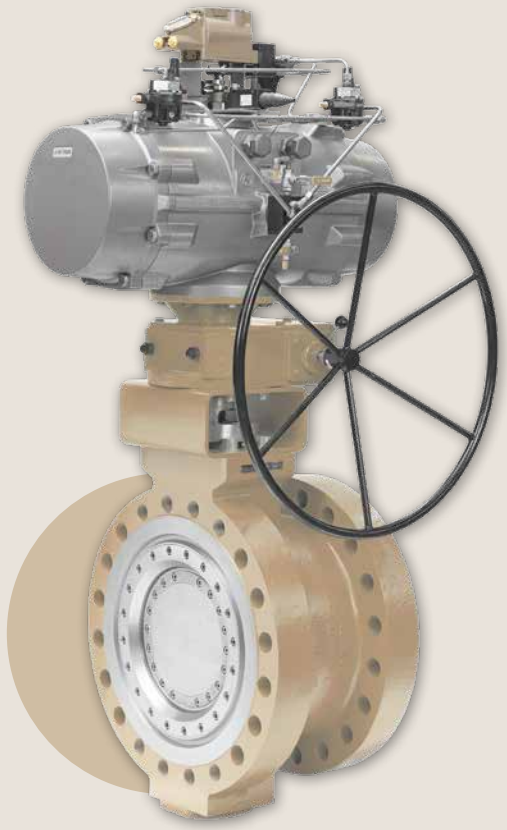
ROTARY PLUG VALVES

Double-eccentric rotary plug valves are the perfect choice for applications where a high rangeability or a high flow rate to valve size ratio is essential Extremely insensitive to dirt and particles in severe service

Pressures up to PN 320/Class 2500
Sizes up to DN 600/NPS 24

ROTARY VALVES

SAMSON manufactures a variety of rotary valves that provide high flow capacities in a compact body tailor made to meet specific application requirements.



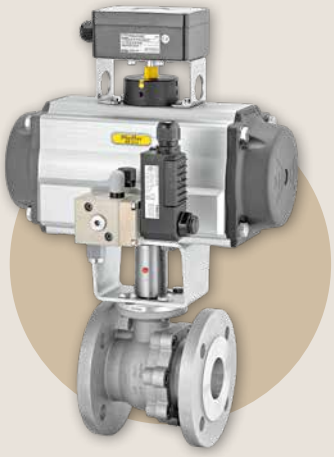
TYPE LTR 43
TRIPLE-ECCENTRIC CONTROL AND SHUT-OFF BUTTERFLY VALVE BY LEUSCH

The triple-eccentric design ensures that the rotary plug touches the seat in the CLOSED position only. This minimizes wear and allows for a high flow capacity when the valve is fully open. Thanks to low operating torques, smaller actuators can be used, resulting in compact assemblies. Optionally available as cryogenic or high-temperature versions, also suitable for on/off service

Pressures up to PN 320/Class 2500
Sizes up to DN 2000/NPS 80

ON/OFF VALVES

SAMSON produces a wide variety of on/off valves to complement the throttling valve range.



TYPE 26D BALL VALVE

Full bore design available in both DIN and ANSI face-to-face dimensions. Corrosion-resistant version with live-loaded packing available

Pressures up to PN 40/Class 300
Sizes up to DN 150/NPS 4

TYPE KMA 905 DIAPHRAGM VALVE

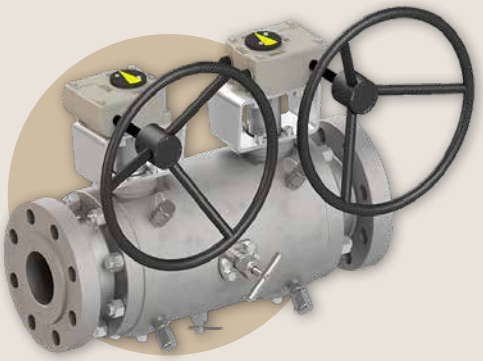
Cavity-free diaphragm valve with rising handwheel, optical and travel indicators, integrated travel stop, lockable handwheel. CDSA sealing system eliminates product entrapment to improve cleanliness and drainability.

Pressures of 10 bar/150 psi
Sizes up to DN 50/NPS 2½

TYPE 3351
GLOBE VALVE

Shut-off valve with tight shut-off (leakage class VI). Live-loaded packing and actuator. Seals complying with EC 1935/2004 and FDA regulations available on request

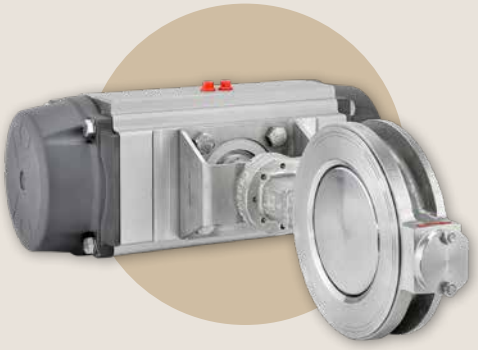
Pressures up to PN 40/Class 300
Sizes up to DN 100/NPS 4



BALL VALVES FOR OIL AND GAS
BY STARLINE

STARLINE specializes in high-quality forged ball valves for applications in the oil, gas, power, energy and process industries. The SAMSON company is recognized the world over for quality, reliability and innovative solutions.

Pressures up to Class 2500
Sizes up to NPS 36



TYPE 14B
BUTTERFLY VALVE

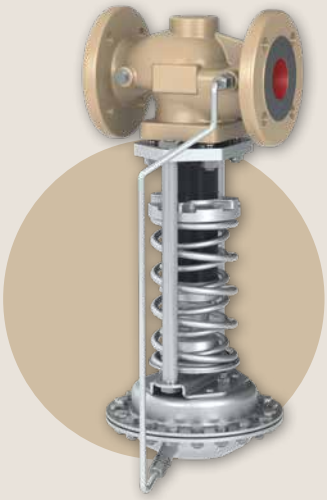
Double-eccentric design for general service applications, low- and high-temperature versions available. Lug-type valve with anti-blowout shaft

Pressures up to PN 40/Class 300
Sizes up to DN 800/NPS 32

SEVERE SERVICE VALVES
BY RINGO VÁLVULAS

RINGO VÁLVULAS specializes in high-performance valves for use in severe service applications. With over 30 years of experience, the SAMSON company manufactures prime-quality solutions for oil and gas, chemicals and petrochemicals, energy generation and industrial gases. RINGO VÁLVULAS stands for innovative solutions, the highest level of reliability and many years of experience in challenging process environments.

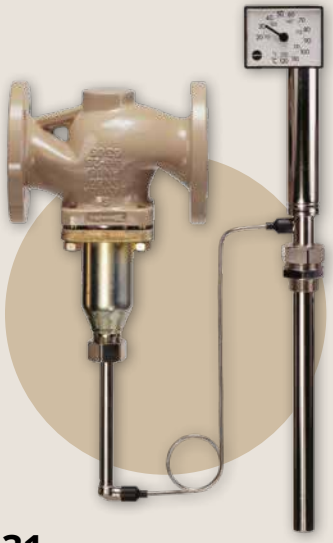
Pressures up to PN 40/Class 300
Sizes up to DN 800/NPS 32



TYPE 41-23
PRESSURE REDUCING VALVE

The valve closes when the downstream pressure rises. Wide set point range and convenient set point adjustment. Low-noise plug (standard). Control line kit available for tapping the pressure directly at the valve body. Also available as excess pressure valve (opens when the upstream pressure rises)

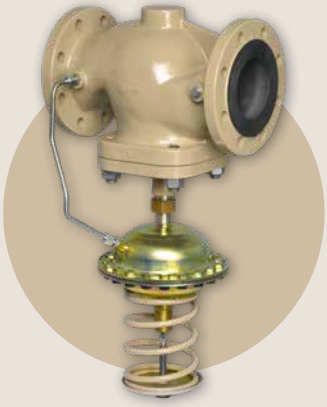
Pressures up to PN 40/Class 300
Sizes up to DN 100/NPS 4



TYPE 4/2231
TEMPERATURE REGULATOR

Low-maintenance proportional regulator requiring no auxiliary energy. Wide set point range and convenient set point adjustment. Suitable for liquids, gases and vapors, especially for heat transfer media, such as water, oil and steam

Pressures up to PN 40/Class 300
Sizes up to DN 150/NPS 6



TYPE 42-24
DIFFERENTIAL PRESSURE REGULATOR

Low-noise, low-maintenance proportional regulator requiring no auxiliary energy. Suitable for circuit water, water-glycol mixtures, steam and air as well as other liquids, gases and vapors. Wide set point range

Pressures up to PN 40/Class 300
Sizes up to DN 250/NPS 10

TYPE 2371
PRESSURE REDUCING VALVE

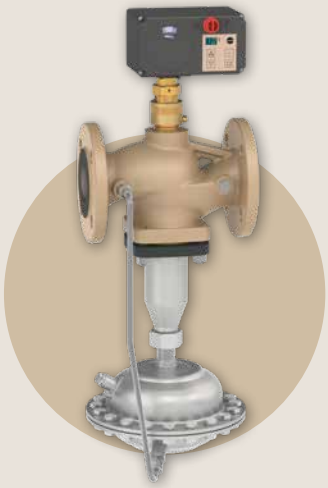
Pressure reducing valve for the food and pharmaceutical industries. Materials comply with EC 1935/2004, FDA and USP VI. Self-draining, cavity-free design. Also available as excess pressure valve

Pressures of 10 bar/150 psi
Sizes up to DN 50/NPS 2

TYPE 2488 PRESSURE-INDEPENDENT CONTROL VALVE (PICV)

Compact, pressure-independent control valve for optimized control and fixed flow limitation within a system. Also available as Type 2488-N for local heat supply.

Pressures up to PN 50/PN 15 (N)
Sizes up to DN 25/DN 10 (N)



TYPE 42-36 E PRESSURE-INDEPENDENT CONTROL VALVE (PICV)

Controls the flow rate in the pipeline to a set point adjusted at the restriction. Can be installed in the flow or return pipe, high valve authority. Optionally with screwed ends

Pressures up to PN 40/Class 300
Sizes up to DN 250/NPS 10

SELF-OPERATED REGULATORS

SAMSON self-operated regulators for liquids, gases and vapors use the process medium to function. No auxiliary energy is required.

SAMSON offers self-operated regulators for pressure, temperature, differential pressure and flow as well as combined regulators.

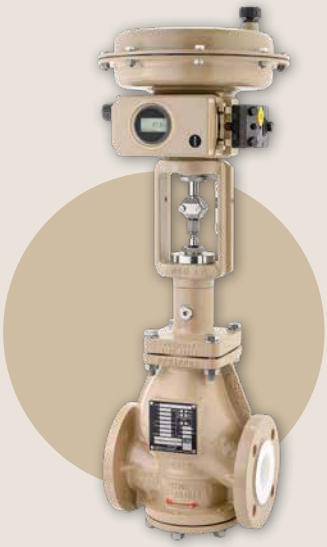
VALVES WITH PTFE/PFA LINING

SAMSON specializes in tailoring valves to meet the strictest requirements. We offer solutions across the entire valve size range: lined ball and globe valves in small and medium sizes as well as lined butterfly valves in medium and large sizes.

TYPE 20A
BALL VALVE

For on/off applications in extremely corrosive media. Two-piece design for easy servicing with exchangeable PTFE seat rings. Compact design

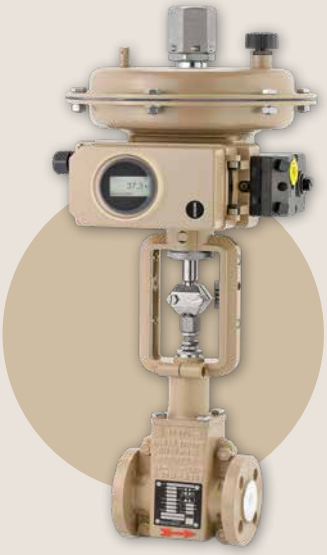
Pressures up to PN 16/Class 150
Sizes up to DN 200/NPS 8



TYPE 01A/B
GLOBE VALVE

Fully lined valve to handle corrosive media, exchangeable PTFE seat and plug. Stem sealed by PTFE bellows, test connection to detect stem leakage

Pressures up to PN 16/Class 150
Sizes up to DN 200/NPS 8



TYPE 06A
MICRO-FLOW VALVE

Globe valve for very low flow rates, fully lined for corrosive media, standard PTFE bellows seals, trims made of special materials available

Pressures up to PN 10
Sizes up to DN 15 (female thread)

TYPE 10A
BUTTERFLY VALVE

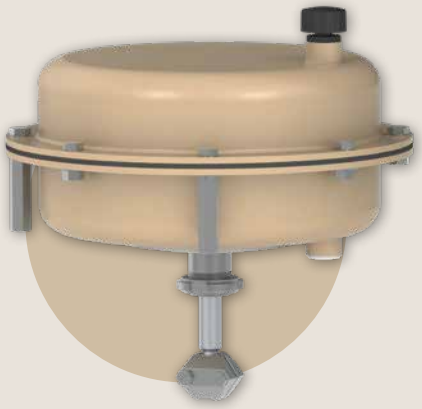
The perfect solution for corrosive media as all wetted parts are lined with PTFE. Double eccentric design to reduce wear on the seat. Disk and shaft can be removed for servicing.

Pressures up to PN 16/Class 150
Sizes up to DN 800/NPS 32

TYPE KMA 495
DIAPHRAGM VALVE

PFA lining prevents particle adhesion. Perfect solution for corrosive gases, liquids, fine chemicals and seawater applications

Pressures of 10 bar/150 psi
Sizes up to DN 50/NPS 2

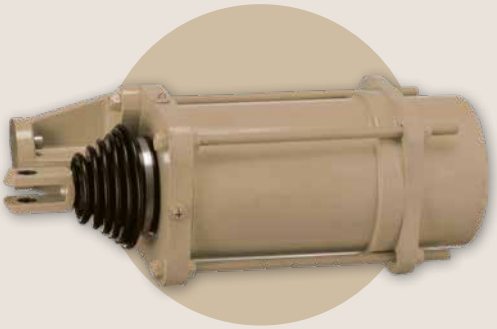


TYPE 3277, TYPE 3271
PNEUMATIC LINEAR ACTUATORS

Rolling diaphragm, integral attachment of valve accessories. Up to 160 mm travel with handwheel and travel stop

TYPE 3374
ELECTRIC LINEAR ACTUATOR

Developed for use in HVAC applications, district heating and cooling networks as well as industrial plants. Can be customized to handle specific tasks. Actuator versions with communication interface are suitable for connection to the SAM DISTRICT ENERGY web portal or a process control system.



TYPE R
PNEUMATIC ROTARY ACTUATOR WITH ROLLING DIAPHRAGM

Pneumatic rolling diaphragm actuator, excellent control accuracy, nearly frictionless control behavior without hysteresis. Max. 1000 Nm torque, up to 6 bar supply pressure

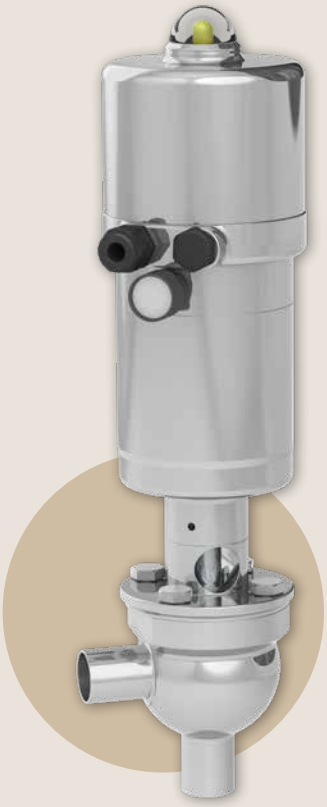
TYPE 31A
PNEUMATIC ROTARY ACTUATOR

Rack-and-pinion actuator with limit stops and various spring cartridges for safe and easy servicing

Attachment according to VDI/VDE 3845 and 3847, wide range of actuator sizes to meet different torque requirements

ACTUATORS

SAMSON offers pneumatic, electric, electropneumatic and hydraulic linear and rotary actuators for attachment to high- and low-pressure valves in all sizes for general service and special applications, for example in cryogenic, life sciences or critical applications.



TYPE 3379
PNEUMATIC ACTUATOR

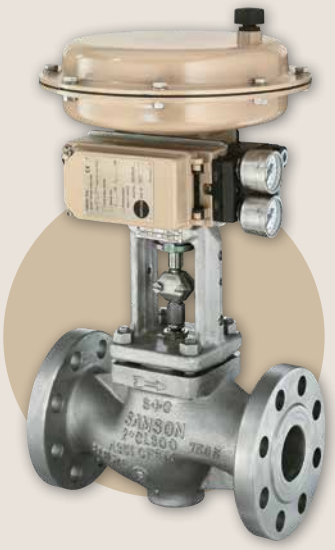
Linear piston actuator with fail-safe action, direct integration into the bonnets of hygienic or aseptic valve bonnets. 3-A certification. Suitable for caustic washdown, optionally with integrated Type 3724 Positioner (4–20 mA)

POSITIONERS

With many years of experience in control engineering, SAMSON manufactures pneumatic, electropneumatic and intelligent positioners for attachment to linear and rotary actuators in compliance with international standards and communication protocols.

TYPE 732
POSITIONER BY SED

Our smallest electropneumatic positioner is optimized for life sciences applications. New operating scheme using two touch-sensitive keys. Developed to accurately control linear valves (NPS ¼ to 2), reliable and intuitive to operate, even under challenging conditions



TYPE 3766
PNEUMATIC POSITIONER

Pneumatic positioner for attachment to single-acting pneumatic linear or rotary actuators. Can be used in hazardous areas or where no electrical input signal is available

TROVIS 3730-3: STANDARD USE

Smart positioner non-contact travel sensing system, optional limit contacts and position feedback. Auto-calibration and auto-tune with LCD, connection to the free TROVIS-VIEW software. With HART® communication. Versions with stainless steel housing and explosion protection available

TYPE 3725: GENERAL USE

Compact electropneumatic positioner for linear and rotary actuators. Intuitive operation and auto-calibration using three capacitive keys and LCD. Protected non-contact sensor for precise control, UV-resistant housing, numerous attachment options. Version for use in hazardous areas

TROVIS 3793: HIGH AIR CAPACITY

Smart positioner with high air capacity for large linear or rotary actuators requiring no additional mounting parts. Auto-calibration and auto-tune with LCD, connection to the free TROVIS-VIEW software. Suitable for single- and double-acting actuators, explosion-protected version

TYPE 3731: FLAMEPROOF ENCLOSURE

Compact electropneumatic Ex d positioner for linear and rotary actuators. Auto-calibration and auto-tune with LCD, connection to the free TROVIS-VIEW software. With HART® and FOUNDATION™ fieldbus communication

TYPE 3967
SOLENOID VALVE

Suitable for linear and rotary actuators with a wide range of switching functions.

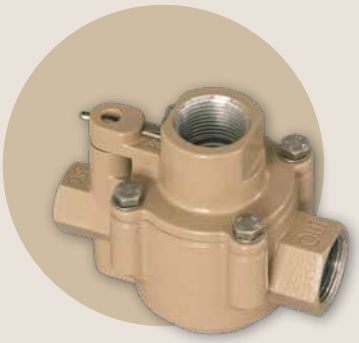
Universal direct attachment to NAMUR interface. Reliable operation

TYPE 4708
SUPPLY PRESSURE REGULATOR

Supplies pneumatic measuring and control equipment with a constant supply pressure. Almost independent of upstream pressure. Direct attachment or panel mounting

TYPE 3709
PNEUMATIC LOCK-UP VALVE

Shuts off the line to the actuator when the air supply fails or falls below an adjusted limit. This causes the actuator to fail in place.



TYPE 3711
QUICK EXHAUST VALVE

Mounted between the positioner/ solenoid valve and actuator, used to vent pneumatic actuators more quickly. Aluminum or stainless steel body. Integrated restriction to adjust the dynamic response

TYPE 3755
VOLUME BOOSTER

Used in combination with positioners to increase the positioning speed of pneumatic actuators

TYPE 6111
SIGNAL CONVERTER

Converts the electric input signal into a pneumatic output signal. Interface between electric control devices and pneumatic control valves

VALVE ACCESSORIES

SAMSON manufactures a wide range of valve accessories for attachment to SAMSON and third-party control valves.

TYPE 6116 SIGNAL CONVERTER

Proportionally converts an electric input signal into a pneumatic output signal, explosion-proof housing

MODULAR SYSTEMS AND SOLUTIONS

Our Modular Systems and Solutions unit tailors modular engineering, design and manufacturing solutions to our customers' needs, integrating global standards and local manufacturing to maximize quality, efficiency and flexibility.

STEAM CONDITIONING

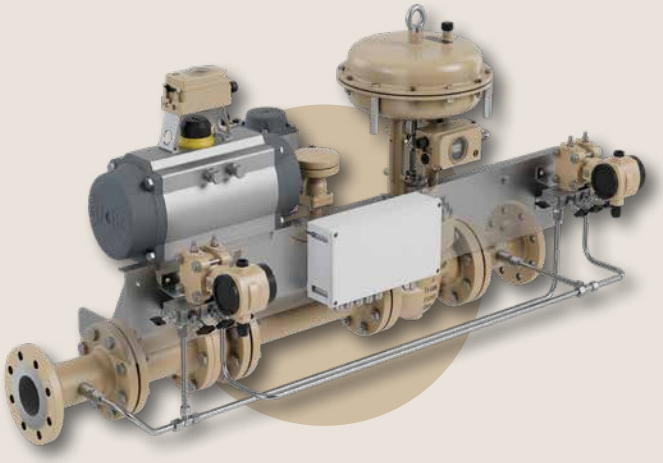
With our steam-conditioning valves, cooling nozzles and saturated steam generators, SAMSON provides the right type of steam for your process while protecting your plant and downstream systems and making them more energy efficient.

STEAM GENERATION

Steam generation systems by SAMSON use electric generators for decentralized steam generation directly where the steam is needed. They are energy-efficient, flexible and – if powered by green electricity – climate-neutral solutions requiring no fossil fuels and only minimal installation work.

STEAM AND CONDENSATE SYSTEMS

Steam and condensate systems by SAMSON ensure that steam and condensate handling in industrial processes is efficient and stable. Accurate control and conditioning of steam minimize energy losses, lower the cost of operation and guarantee a high level of safety in your plants.



SIS/SIL

Safety-instrumented systems (SIS) by SAMSON are used to protect critical industrial processes, ensuring that plants are reliably shut off or fail in place in the event of an emergency. Solutions with safety levels SIL 2 and SIL 3 comprise valves, positioners and sensors to form integrated safety systems, which maximize plant safety and availability.

IDENTIFY

Base for transparency
The first steps towards successful asset management are a manufacturer-independent inventory, unique asset identification and a visual assessment of the installed base.

Viewing electronic nameplate information
Electronic nameplates grant quick access to technical data, spare parts kits, product documentation, certificates and further product-specific information.

SAMSON's **ASSET ENTRY** tool helps you record control valves in a well-structured system to create a reliable data basis for operation, maintenance and subsequent plant digitalization, for example using electronic nameplates or RFID tags.

MANAGE

Smart positioners by SAMSON provide valuable diagnostic information directly from the field. We apply algorithms to analyze these positioner data and give you actionable recommendations. Valve status data help identify changes within your processes at an early stage, which allows for the targeted planning of maintenance activities and improves the availability of your plants.

Central asset data management
The web-based **SAM VALVE MANAGEMENT** platform makes asset data available at one central location. The tool is designed for the transparent management of current and historic valve data and documented records, which makes this information usable for monitoring, diagnostics, maintenance scheduling and plant optimizations.

AFTER-SALES SERVICE

IDENTIFY | MANAGE | CARE: Taking a holistic approach, SAMSON combines services and digital solutions to optimize the performance of your valves. Our goals are: clear asset identification, utilization of valve data as well as the targeted planning and implementation of maintenance, repairs and plant turnarounds.

CARE

Targeted support for maintenance, repairs and plant turnarounds

CARE | Our services include on-site maintenance, repairs, plant turnaround planning and support, spare parts management, remote support, consulting services as well as qualification and training.

SAM GUARD®

SAM GUARD adds a high-performance predictive valve analytics and process monitoring solution to our product portfolio.

Using Artificial Intelligence, SAM GUARD detects anomalies and deviations in your processes to predict potential failures days or weeks in advance. Continuous analyses of plant data make it possible to act ahead of time, reducing unplanned downtimes and sustainably improving plant availability, efficiency and productivity.

SAMSON AND EVERYTHING FLOWS

PRODUCT PORTFOLIO

SAMSON Product Highlights for the Process Industry

SAMSON AKTIENGESELLSCHAFT
Weismuellerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507
E-mail: samson@samsongroup.com · www.samsongroup.com

2026-10 · WA 443 EN