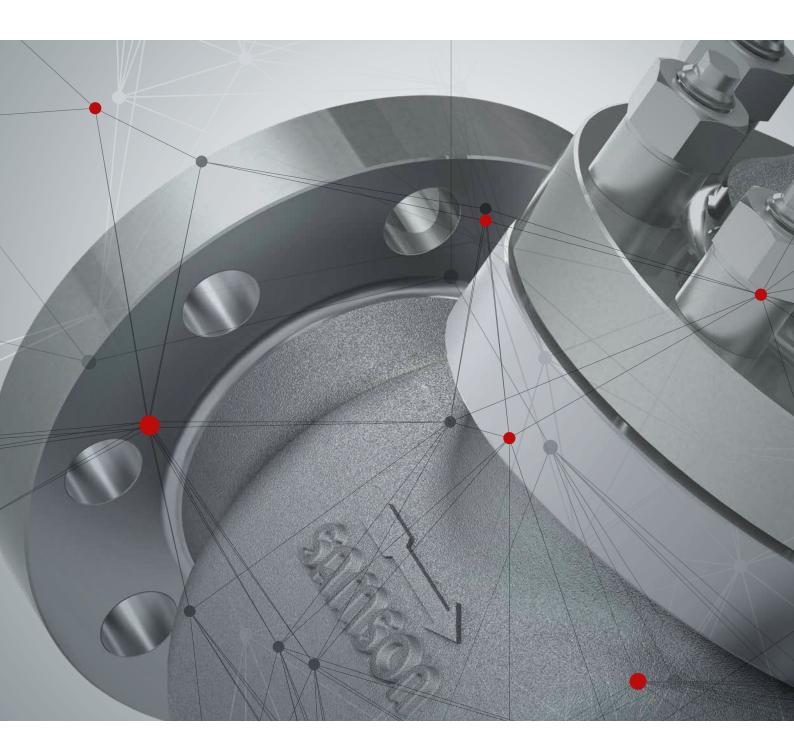
Company Products





SAMSON Product Highlights for the Process Industry

GLOBE CONTROL VALVES

SAMSON globe control valves provide measured control of your fluid processes, such as non-corrosive, corrosive and erosive media, steam, hygienic and aseptic fluids.



SMS · High Pressure · 3251-E

Designed for more demanding applications with field interchangeable seat retention designs combined with multi-plug options, this new modular design meets the requirements of the highest standards.

Pressures up to: Class 600 Sizes up to: NPS 8



Standard · 3241

Robust design for all control valve applications with optional bellows sealing, insulating sections and the ability to use in cryogenic applications.

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



General Service · 3321

The perfect economic solution for less demanding applications: the 3321 is available with alternative actuator options 3371 and 3372.

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



Three-Port · 3244

Based on the 3241 standard globe valve, the three-port 3244 provides both mixing or diverting options and has many of the options offered on the 3241 including bellows sealed and temperature extensions.

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



Severe Service · 3595

For the toughest applications with globe or angle style bodies, the plug is cage guided through the entire travel range with minimal clearance to reduce vibrations. Optional trims for liquids and gases to minimise noise and wear.

Pressures up to: Class 2500 Sizes up to: NPS 32

SPECIAL GLOBE CONTROL VALVES

SAMSON has built on the success of its standard range of control valves to develop application-specific products tailored for maximising control for those specific industries.



FROSTY · Top-entry cryogenic · 3598

Designed and prepared for cold-box applications with minimal loss of energy by using a circulation inhibitor and a cryogenic extension bonnet. In-line serviceability for low operational costs on all cryogenic applications to -273 °C. Pressures up to: Class 900 Sizes up to: NPS 8



Mirco flow · 3510

Designed for very low flow control applications with options of bellows sealing and insulating sections. Suitable for throttling service and available in special materials and high pressure versions.

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



Steam Conditioning · 3281

Designed to reduce the pressure and the temperature of steam to controlled set points by the introduction of water to the downstream side of the valve.

Pressures up to: PN 160/Class 900

Sizes up to: DN 300/NPS 12



Clean Utility · 3321CT

Full stainless design for hygienic and corrosive environments uses EN 1935/FDA-compliant seals as standard and combined with the 3379 piston actuator, it is suited for utility applications in the food and beverage and pharmaceutical industries.

Pressures up to: PN 40 Sizes up to: DN 50



Hygienic · 3347

Self-draining angle design for hygienic applications, wetted sealing materials comply with EN 1935/FDA regulations. Metal or soft sealing plug. Bar stock and cast bodies available. Pressures up to: 40 bar/580 psi Sizes up to: DN 150/NPS 6

ROTARY CONTROL VALVES

SAMSON manufactures a variety of rotary control valves that provide high flow capacity in a compact envelope to meet specific application needs.



Segmented Ball · 3310

The combination of high rangeability and precise control, the 3310 offers high flow in a compact design with both linear or equal percentage trim available. The 3310 also has EN 1935/FDA seals and optional ISO 15848 approved packing.

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



Ceramic-lined KST

Ceramic-lined ball valve suitable for corrosive media with abrasive solids content. The high quality ceramic internal parts provide excellent wear resistance and the valve can operate as an on/off as well as a control valve when using the V-ball.

Pressures up to: PN 100/Class 600 Sizes up to: DN 300/NPS 12



Triple Offset Butterfly · LTR 43

The triple-offset design ensures only seat contact when fully closed, minimising wear but providing high flow capacity when fully open. The low operating torque reduces the actuator size, resulting in a compact control solution. Cryogenic and high-temperature options available and also suitable for on/off applications.

Pressures up to: PN 420/Class 2500 Sizes up to: DN 3000/NPS 118



Axial Flow · 3599

Giving precision control with high flow capacity combined with high rangeability in a compact design with balanced plug and stem guiding for smooth operation and a variety of cage designs to handle critical applications.

Pressures up to: PN 40/Class 2500

Sizes up to: DN 1200/NPS 48



Rotary Plug

With a double eccentricity design the rotary plug valves are perfectly suited for applications where high volume flow vs. size ratio or the outstanding rangeability is a decisive factor with extremely low sensitivity to dirt and particles in severe service applications. Pressures up to: PN 420/Class 2500 Sizes up to: DN 600/NPS 24

ON/OFF VALVES

SAMSON produces a wide range of on/off valves for applications to complement the control valve range providing a full valve product range portfolio.



Severe Service Ringo

Wide range of pressure and design standards with fully welded, top entry and trunnion-mounted options.

API 6A compatible with a range of seat options to meet application requirements.

Pressures up to: Class 2500 Sizes up to: NPS 56



Globe · 3351

Utilising the functionality of a globe control but for on/off applications requiring class VI shut-off. Complete with self-adjusting stem packing and actuator. The 3351 also has EN 1935/FDA seals available on request.

Pressures up to: PN 40/Class 300

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



Ball · BR 26d

Full bore design available in both DIN and ANSI face-to-face lengths. Corrosion resistant with loaded stem packing available.

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



Diaphragm · KMA 905

Cavity-free diaphragm valve with rising handwheel with optical safety indicator, sealed bonnet with internal travel stop and locking device. CDSA sealing concept eliminates product entrapment increasing cleanliness and drainability.

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



Butterfly · BR 14b

Double-eccentric design for general service applications with low and high temperature options available.

Lugged design with anti-blowout stem for safety.

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

SELF-OPERATED REGULATORS

SAMSON self-operated regulators for liquids, gases and vapors use the process medium to function. Auxiliary energy is not required. SAMSON offers self-operated regulators for pressure, temperature, differential pressure, flow, as well as combination regulators.



Flow · 42-36 E

Designed to control the flow rate in the pipeline with an adjustable set point at restriction. Can be installed in either the flow or return pipe giving high control authority. Screw connection option available.

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



Pressure · 41-23

Requiring no auxiliary energy the valve closes as the downstream pressure increases. Wide set point range with easy adjustment with low noise plug as standard and optional control line directly from valve cavity. Also available as excess pressure valve (opens as the upstream pressure increases). Pressure up to: PN 40/Class 300 Sizes up to: DN 100/NPS 4



Temperature · Type 4/2231

Low maintenance requiring no auxiliary energy with a wide set point range with easy 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



Differential Pressure · 42-24

Low-noise, medium-controlled proportional regulator requiring little maintenance. Suitable for circuit water, water/glycol mixtures, steam and air as well as other liquids, gases and vapors. Wide range of set point adjustment.

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



Hygienic · 2371

Designed especially for pressure reducing applications within food and beverage and pharmaceutical industries. EN 1935/FDA/USP-VI compliant materials. Self-draining design with no dead space within the cavity. Also available as excess pressure version. Pressures up to: 10 bar/150 psi

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

PTFE/PFA-LINED VALVES

SAMSON specialises in tailoring lined valves to meet strictest requirements and offers 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.



Ball · BR 20a

For on/off applications in extremely corrosive media. Two-piece design for easy maintenance with exchangeable PTFE seat rings. Compact solution. Pressures up to: PN 16/Class 150 Sizes up to: DN 200/NPS 8



Globe Control · BR 1a/b

Fully lined for corrosive applications with exchangeable PTFE seat and plug. Stem sealing with PTFE bellows and monitoring port for primary stem leakage.

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



Microflow · BR 6a

Globe control for very low flow rates, fully lined for corrosive applications with PTFE bellows seals as standard, special material trims available.

Pressures up to: PN 10 Sizes up to: DN 15

(female thread)



Diaphragm · KMA 495

With a PFA lining generating smooth internal surfaces particles cannot adhere easily making this ideal for corrosive gases, liquids fine chemical and sea water applications.

Pressures up to: 10 bar

Sizes up to: DN 50/NPS 2



Butterfly · BR 10a

Optimal solution for aggressive and corrosive media with all wetted parts PTFE coated. Double-eccentric design to reduce seat wear and disc can be removed with the shaft for maintenance purposes.

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

ACTUATORS

SAMSON offers pneumatic, electric, electropneumatic, and hydraulic actuators for linear and rotary high and low pressure valves of all sizes for all applications including speciality applications such as cryogenic, food and beverage, and severe service.





Pneumatic - Linear · 3277/3271

Rolling diaphragm design with integrated accesory attachment. Suitable up to 250 mm linear travel with handwheel and travel stop options.



Electric · Linear 3374

The actuators are used in HVAC applications, district heating and cooling networks and processing plants. They can be configured to perform specific control tasks. Actuator versions with communication interface are suitable for connection to the SAM DISTRICT ENERGY web portal or a process control system.





Piston design, linear fail-safe actuator directly integrated with hygienic and aseptic valve bonnets and is 3A certified. Suitable for caustic washdown with optional 3724 integrated 4 to 20 mA positioner.



Pneumatic · Diaphragm Rotary · R

With a linear travel of 200 mm this pneumatic diaphragm actuator provides a highly accurate degree of rotation and combined with virtually no friction gives an incredible hysteresis-free control performance. Available with a maximum torque of 1000 Nm and supply pressure up to 6 bar.



Pneumatic · Rotary · BR 31a

Rack and pinion design with limit stops as standard and encapsulated springs for safe and easy maintenance. VDI/VDE 3845 and VDI/VDE 3847 assessory mounting and available in a large range of sizes to economically match torque requirements.

POSITIONERS

With over 60 years control experience SAMSON manufactures pneumatic, electropneumatic and smart positioners for all linear and rotary actuator applications, complying to all international standards and communication protocols.



Pneumatic · 3766

Pneumatic positioner suitable for singleacting, pneumatic linear or rotary actuators. Suitable for hazardous environments or where electrical input signals are not available.



Standard · TROVIS 3730

Smart with non-contact travel sensing and optional limit contacts and feedback transmission. Auto calibration and tuning with LCD display and connection with TROVIS-VIEW software (free). Available with HART® communication protocol. Stainless steel and hazardous area options available.



General Purpose · 3725

Electropneumatic, compact design suitable for linear and rotary actuators. Three touch-sensitive keys and LCD display provide intuitive operation with auto-calibration function. Protected non-contact sensor for precise control, UV-resistant housing and attachment options. Hazardous area option available.



Explosion Proof · 3731

Ex d electropneumatic, compact design suitable for linear and rotary actuators. Auto calibration and tuning with LCD display and connection with TROVIS-VIEW software (free). Available with HART® and FOUNDATION™ fieldbus communication protocols.



High Capacity · TROVIS 3793

Smart with high air capacity for larger linear or rotary actuators without the use of additional accessories.

Auto calibration and tuning with LCD display and connection with TROVIS-VIEW. Suitable for single and double acting with hazardous area available.

AUTOMATION ACCESSORIES

SAMSON manufactures a wide range of its accessories to complement its actuator products but also to be used on third-party equipment.



Limit Switches · 3738

For on/off applications both rotary and linear, self-calibrating, contactless position sensing and integrated partial stroke test diagnostic function.



Solenoids · 3967

Suitable for linear or rotary actuators with a wide range of switching functions. Explosion-proof option 3966 available.



Supply Pressure Regulator \cdot 4708

Provides constant air supply independent of upstream pressure with optional set point ranges. Suitable for direct or panel mounting.



Quick Exhaust Valve · 3711

Allows for quick venting/operation of actuator, available in both aluminium and stainless steel housing with integrated restriction to adjust venting speed.



Volume Booster · 3755

Designed to increasing the positioning speed on actuators by mounting between the positioner and the actuator.



Lock-up Valves · 3709

Used to shut off the signal pressure when the air supply falls below an adjusted limit or fails completely. This causes the actuator to fail in place.



Signal Converter · 6111

This i/p converter changes a directcurrent input signal into a pneumatic output signal. Suitable as intermediate element between electric control devices and pneumatic control valves.



Signal Converter · 6116

Based on the 6111, this i/p converter proportionally converts the electric input signal into a pneumatic output signal but within a certified explosion-proof housing.

DIGITAL SOLUTIONS

SAMSON is taking on the challenge of digitalisation. We are working to become the first choice for smart valves, flexible production processes. SAM is not just an abbreviation of the SAMSON name, but also stands for SAMSON ASSET MANAGEMENT.



Valve Identification Data Matrix Code

The Data Matrix code on SAMSON controls valves provides a unique valve identifier that relates back to the valve build on the SAMSON website.



Differential Pressure Meters · Media 7

The Media 7 Differential Pressure
Meter and the SAM Connect gateway are suitable for wireless connection to SAM TANK MANAGEMENT.
This ensures safe data exchange all
across the world, polling of states,
monitoring of limits and operation
of Media devices.





SAM GUARD

The SAM GUARD® predictive analytics solution for the process industry quickly and accurately identifies equipment failures and suspicious operating modes days to weeks in advance. It provides an average of five early, accurate and actionable alerts a day.



SAM VALVE MANAGEMENT

SAM VALVE MANAGEMENT is a web-based solution for the smart monitoring and management of control valves installed in process plants. It provides a complete overview of all connected control valves fitted with smart SAMSON positioner.



SAM TANK MANAGEMENT

SAM TANK MANAGEMENT is a web-based application specifically developed for monitoring the filling levels of liquids, gases and vapors stored in stationary or truck-mounted pressure vessels. Any smart mobile device can be used to access SAM TANK MANAGEMENT.

SAMSON AT A GLANCE



STAFF

- Worldwide 4,500
- Europe 3,600
- Asia 700
- Americas 200
- Frankfurt am Main, Germany 1,800

INDUSTRIES AND APPLICATIONS

- Chemicals and petrochemicals
- Food and beverages
- Pharmaceuticals and biotechnology
- Oil and gas
- Liquefied Natural Gas (LNG)
- Marine equipment
- Power and energy
- Industrial gases
- Cryogenic applications
- District energy and building automation
- Metallurgy and mining
- Pulp and paper
- Water technology
- Other industries

PRODUCTS

- Valves
- Self-operated regulators
- Actuators
- Positioners and valve accessories
- Signal converters
- Controllers and automation systems
- Sensors and thermostats
- Digital solutions

SALES SITES

- More than 60 subsidiaries in over 40 countries
- More than 200 representatives

PRODUCTION SITES

- SAMSON Germany, Frankfurt, established in 1916
 Total plot and production area: 150,000 m²
- SAMSON France, Lyon, established in 1962
 Total plot and production area: 23,400 m²
- SAMSON Turkey, Istanbul, established in 1984
 Total plot and production area: 11,100 m²
- SAMSON USA, Baytown, TX, established in 1992
 Total plot and production area: 20,000 m²
- SAMSON China, Beijing, established in 1998
 Total plot and production area: 47,000 m²
- SAMSON India, Pune district, established in 1999
 Total plot and production area: 28,000 m²
- SAMSON AIR TORQUE, Bergamo, Italy Total plot and production area: 27,000 m²
- SAMSON CERA SYSTEM, Hermsdorf, Germany Total plot and production area: 14,700 m²
- SAMSON KT-ELEKTRONIK, Berlin, Germany Total plot and production area: 1,100 m²
- SAMSON LEUSCH, Neuss, Germany Total plot and production area: 18,400 m²
- SAMSON PFEIFFER, Kempen, Germany Total plot and production area: 20,300 m²
- SAMSON RINGO, Zaragoza, Spain Total plot and production area: 19,000 m²
- SAMSON SED, Bad Rappenau, Germany Total plot and production area: 10,400 m²
- SAMSON STARLINE, Bergamo, Italy
 Total plot and production area: 27,000 m²
- SAMSON VDH PRODUCTS, the Netherlands Total plot and production area: 12,000 m²
- SAMSON VETEC, Speyer, Germany Total plot and production area: 27,100 m²

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