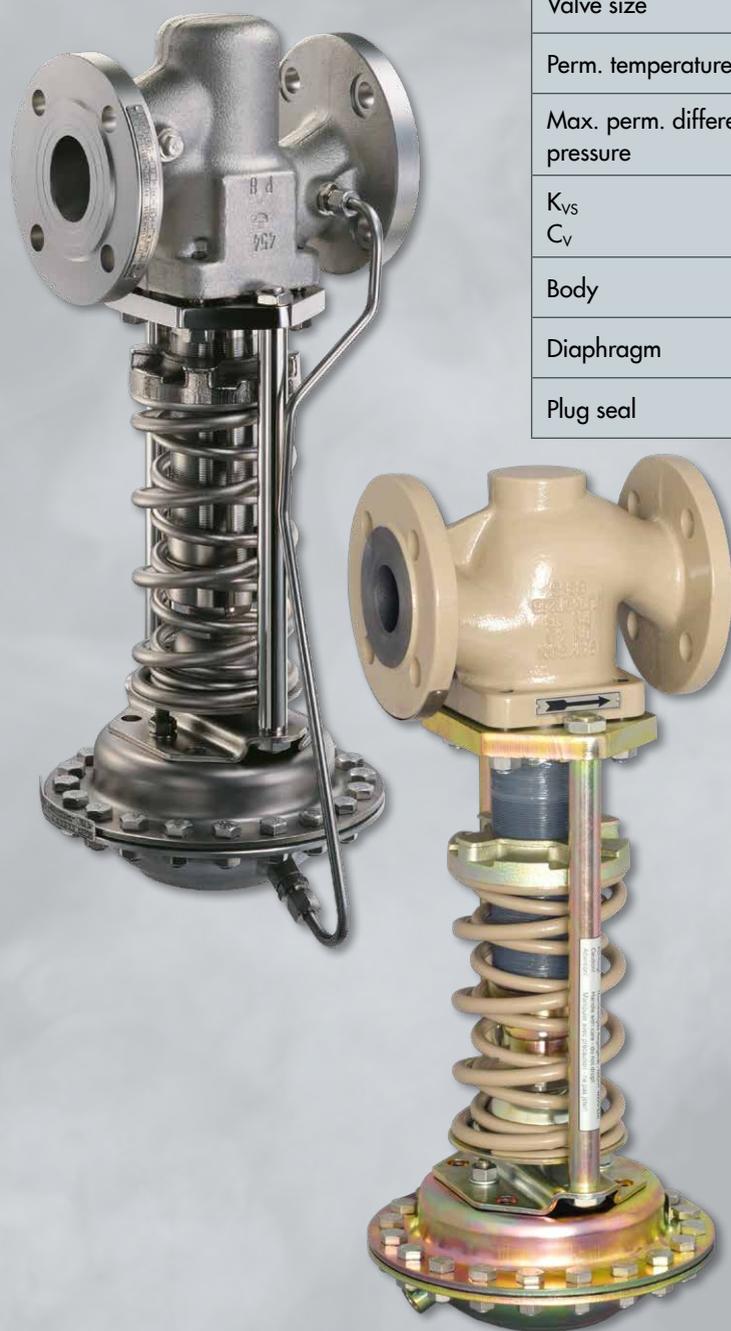


Self-operated Pressure Regulators



SMART IN FLOW CONTROL

UNIVERSAL APPLICATION



Type	41-23 Pressure Reducing Valve	41-73 Excess Pressure Valve
Versions	DIN/ANSI/JIS	
Set points	0.05 to 28 bar	
Valve size	DN 15 to 100	
Perm. temperature range	-30 to 350 °C	
Max. perm. differential pressure	25 bar	
K_{vs} C_v	0.001 to 125 0.0012 to 145	0.1 to 125 0.12 to 145
Body	Cast iron, spheroidal graphite iron, cast steel, stainless steel	
Diaphragm	EPDM, FKM, NBR	
Plug seal	Metal, EPDM, FKM, NBR, PTFE	

Type 41-23 Pressure Reducing Valve and Type 41-73 Excess Pressure Valve

The Type 41-23 and Type 41-73 Pressure Regulators are suitable for liquids, gases and vapors. They do not need any auxiliary energy as the energy required to regulate is taken from the process medium.

TYPE 41-23 PRESSURE REDUCING VALVE

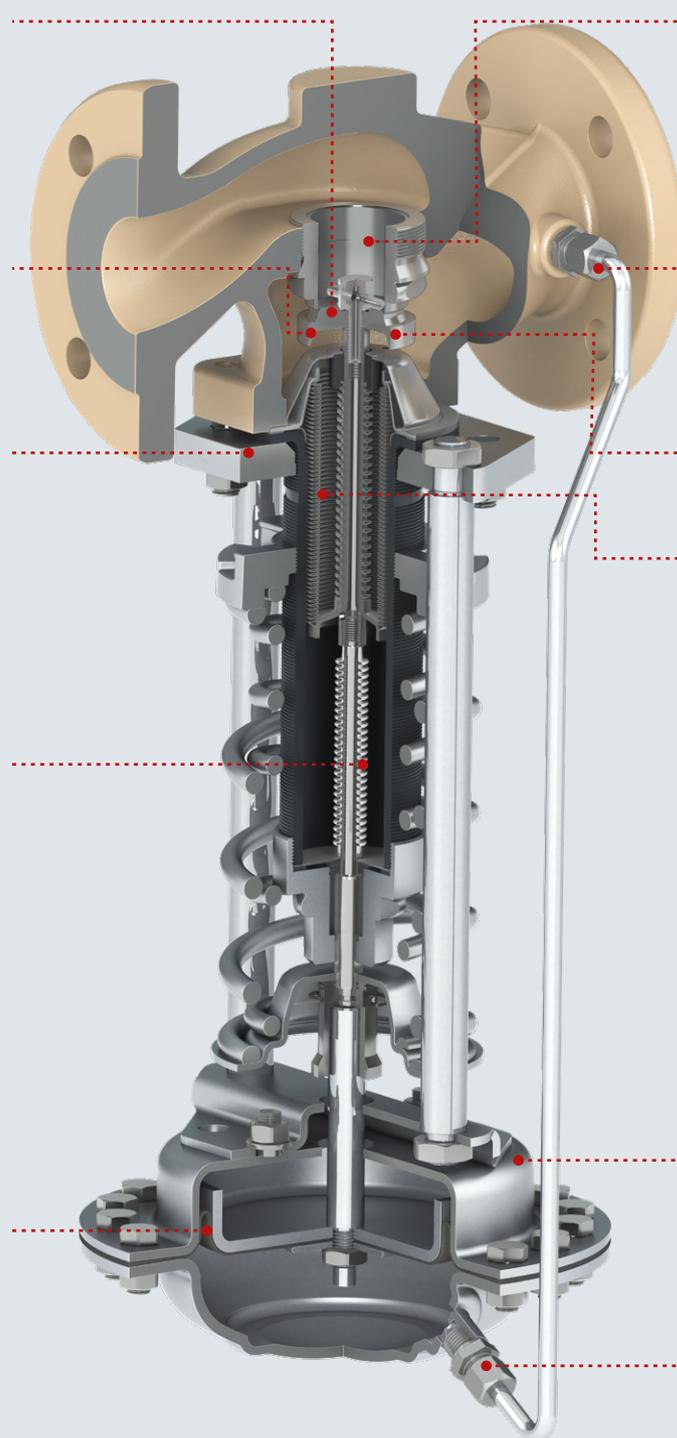
Good control behavior thanks to optimized characteristic and reduced K_{VS} coefficients, e.g. for high pressure drops

Min. two reduced K_{VS}/C_V coefficients per valve size

Simple adjustment of the pressure to be regulated by changing the spring compression at the set point adjuster

High leak tightness and low hysteresis thanks to plug stem seal with maintenance-free stainless steel bellows

Wide range of applications thanks to diaphragms made of EPDM, FKM or NBR



Easily replaceable threaded seats

Optional pressure tapping directly at the valve body

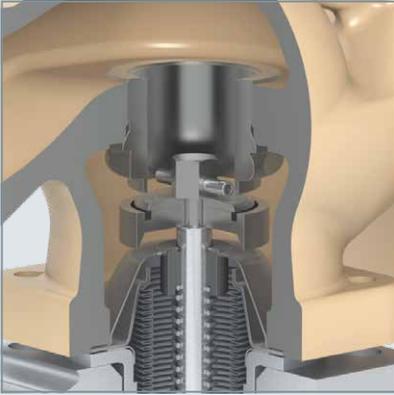
Low-noise seat-plug trim

Optimal control response thanks to pressure balancing by maintenance-free stainless steel bellows

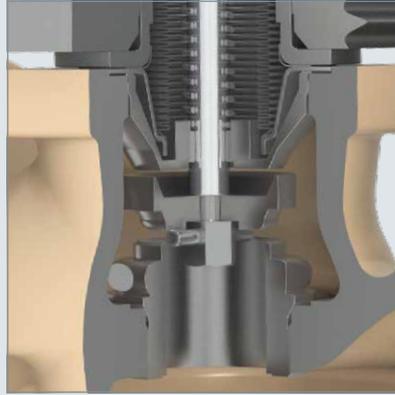
High control quality thanks to actuator sizes tailored to the set point range

Stable control response thanks to optional screw joint with restriction

MODULAR DESIGN ALLOWS FOR MANY OPTIONS



Soft seals made of EPDM, FKM or NBR for leakage class VI



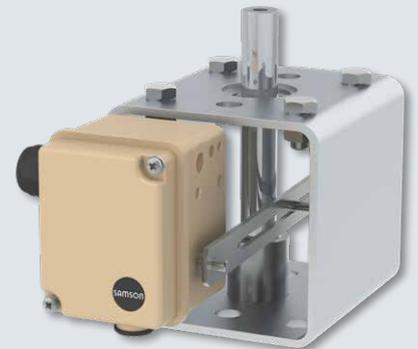
Special plug stem guiding for use in vertical pipelines



Micro trims to regulate even the smallest flow rates



Metal bellows actuator for set points up to 28 bar, high temperatures and corrosive media



Position transmitter or limit switch for plant monitoring



Double diaphragm actuator with safety function for high plant availability



Actuator with leakage line connection for critical media



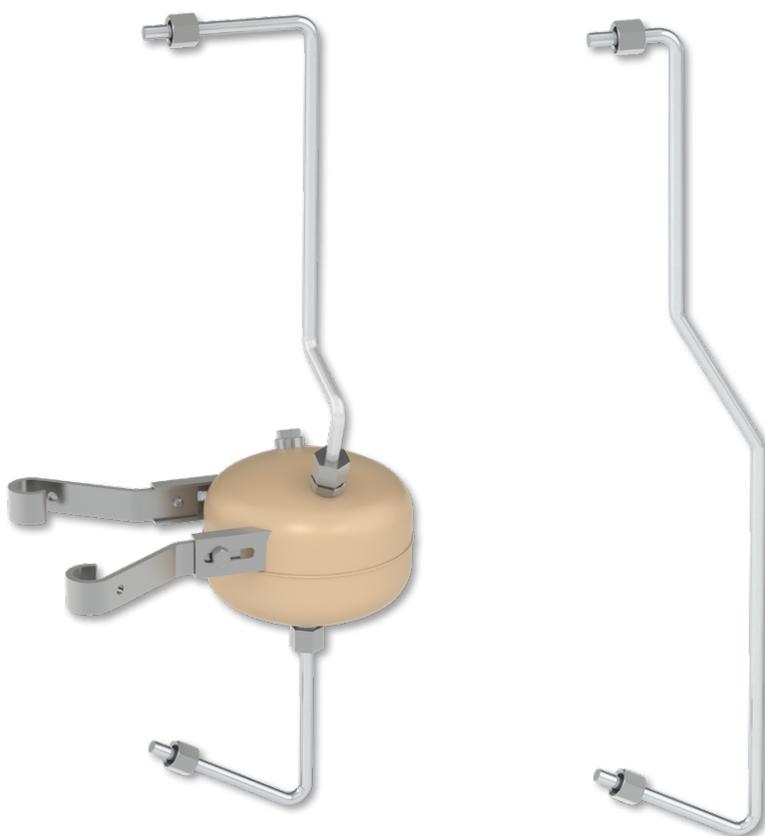
Flow dividers to reduce the noise emissions when regulating gases and vapors



Protective sleeves, e.g. against dust, erosion during sandstorms or against corrosion in offshore service

Accessories

Quick mounting thanks to control line kits for pressure tapping at the valve body



Intermediate tank for steam and medium temperatures exceeding 150 °C



Screw joint with restriction for connection to the actuator's control line

SAMSON AT A GLANCE



STAFF

- Worldwide 4,500
- Europe 3,600
- Asia 600
- Americas 200
- Frankfurt am Main, Germany 1,900

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

SAMSON AKTIENGESELLSCHAFT

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