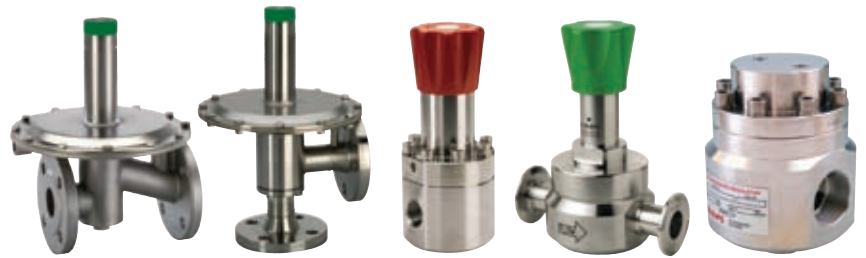


Pressure Regulators



The thing as a whole is more than the sum of its single components.

Pressure regulators are among our products of strategic importance. We specialised ourselves in design and manufacture of pressure regulators so that we are your experts in the field of pressure regulation. Pressure regulators are our everyday business.

Since 1986 we have been suppliers of pressure regulators and valves to internationally reputed companies working in the fields of pharmaceutical industry, chemical engineering, food production, biotechnology, power generation and plant construction, mechanical engineering, plus general industrial and process engineering. Our top-quality products and services are available at attractive and reasonable prices.

Acceptance / Certificates

- ATEX Ex II 2 GDc IIB/IIC
- CE nach DGRL 97/23EG
- ISO 9001:2000

Delivery programme for pressure regulators

- Low-pressure regulators
- Spring-loaded pressure reducing valves
- Spring-loaded overflow regulators
- Sterile low-pressure regulators
- Dome-type pressure reducing valves
- Dome-type relief valves
- Sterile pressure regulators
- Safety valves
- Industrial pressure regulators

Pressure Regulators

Low-pressure regulators



Low-pressure, reducing and relief valves DN15 - DN100

Low-pressure valves of inline and angle pattern are designed to control the inlet or outlet pressures in the mbar range. They serve to effect pressure superimposition in storage tanks, agitator tanks, centrifuges or vessels with inert gas, such as nitrogen. The large diaphragm area guarantees exact setting and control of smallest pressures. The integral pressure recuperation makes it possible to install the pressure regulators both in horizontal and in vertical position without any extra drain connections.

Options: Vacuum-pressure and differential-pressure design, with pressure gauge, heating jacket, rain bonnet, facilities for setting and lead-sealing, sterile version, electro-polished, seals in conformity with FDA requirements, etc.

Body: Stainless steel, Hastelloy, internal FEP lining

Connections: DIN or ANSI flanges, screwed ends, special connections

Spring-loaded pressure reducing valves



Spring-loaded process pressure reducing valves 1/4" - 3"

Reducing valves are designed to control the pressure at the regulator outlet. When in rest position (without pressure), the seat of pressure reducing valve is open. Piston or diaphragm-controlled spring-loaded reducing valves are designed for liquids or gases with maximum inlet pressures up to 400 bar and outlet pressures between 0.5 and 350 bar. Pressure regulators with pressure-relieved plug/seat assemblies are almost totally resistant to inlet pressure variations. Integrated sinter filters are available for gas applications. Valves close tight in case of zero delivery. A wide field of spring setting ranges is available for selection.

Options: Sterile design, with pressure gauge, with re-vent, pressure relief, line filter, heating jacket, facilities for setting and lead-sealing, electro-polished, Differential-pressure design, seals in conformity with FDA requirements, etc.

Body: Stainless steel, special materials

Connections: DIN or ANSI flanges, screwed ends, special connections

Spring-loaded relief valves



Spring-loaded process relief valves 1/4" - 3"

Relief valves are process valves and no safety valves. Relief valves are designed to control the pressure at the regulator inlet. When in rest position, the seat of relief valve is closed. Piston or diaphragm-controlled spring-loaded relief valves are designed for liquids or gases in the control range between 1.0 and 360 bar. A wide field of spring setting ranges is available for selection.

Options: Sterile design, with pressure gauge, with re-vent, pressure relief, line filter, heating jacket, facilities for setting and lead-sealing, electro-polished, Differential-pressure design, seals in conformity with FDA requirements, etc.

Body: Stainless steel, special materials

Connections: DIN or ANSI flanges, screwed ends, special connections

Sterile, pressure reducing and relief valves DN25 - DN50

Low-pressure sterile regulators, inner and outer faces are electro-polished, angle pattern. In case of ultra-clean fluids, the process space (plug/seat) is isolated from the control space (diaphragm). The process pressure is transmitted to the pressure regulator via a pneumatic transmitter. The clean connection permits CIP or SIP cleaning of regulator. Low-pressure sterile regulators are used for germ-free pressure superimposition in vessels, agitator tanks, storage tanks and filling plants. The inert gas used for pressure superimposition in the mbar range may be nitrogen or sterile air. The minimum gas consumption is due to the low superimposition pressure, normally between 10 and 50 mbar.

Options: Vacuum-pressure and differential-pressure variants, with pressure gauge, heating jacket, rain bonnet, facilities for setting and lead-sealing, seals in conformity with FDA requirements, etc.

Body: Stainless steel, special materials

Connections: TriClamp, DIN 11851, welding ends, special connections

Sterile low-pressure regulators



Dome-type pressure-controlled process reducing valves 1/2" - 4"

Dome-type pressure reducing valves are designed to control the pressure at the regulator outlet by means of adjustable pilot pressure. When in rest position (without pressure), the seat of pressure reducing valve is open. Piston or diaphragm-controlled spring-loaded reducing valves are designed for liquids or gases with maximum inlet pressures up to 400 bar and outlet pressures between 1.0 and 400 bar. Pressure regulators with pressure-relieved plug/seat assemblies are almost totally resistant to inlet pressure variations. Tight shut-off in case of zero discharge.

Options: Pilot control, with pressure gauge, proportional regulator, pressure relief, line filter, heating jacket, facilities for setting and lead-sealing, electro-polished, etc.

Body: Stainless steel, special materials

Connections: DIN or ANSI flanges, screwed ends, special connections

Dome-type pressure reducing valves



Dome-type pressure-controlled process relief valves 1/2" - 3"

Dome-type relief valves are process valves and no safety valves. They are designed to control the pressure at the inlet of the regulator by means of an adjustable gas cushion in the dome. When in rest position (no pressure), the seat of relief valve is closed. Piston or diaphragm controlled relief valves are designed for liquids or gases in the control range between 1.0 and 400 bar.

Options: Pilot control, with pressure gauge, proportional regulator, pressure relief, line filter, heating jacket, facilities for setting and lead-sealing, electro-polished, etc.

Body: Seals in conformity with FDA requirements, etc.

Connections: DIN or ANSI flanges, screwed ends, special connections

Dome-type relief valves



Sterile pressure regulators



Sterile pressure regulators DN15 - DN100

Sterile pressure regulators for inlet pressures up to 20 bar and control pressures between 1.0 and 9.0 bar. The process space of sterile regulator has a small volume, is electropolished and meets the sterility requirements. The sterile regulator is made from solid material, installed in the clean room and tested. After final assembly, the regulator is cleaned and subjected to a helium leak test. Sterile regulators are used in such applications like electronics industry.

Options: Vacuum-pressure and differential-pressure design, with pressure gauge, heating jacket, rain bonnet, facilities for setting and lead sealing, seals in conformity with FDA, cryogenic version, etc.

Body: Stainless steel, special materials

Connections: DIN flanges, screwed ends, special connections

Safety valves



Nominal-lift and full-lift safety valves DN15 - DN100

Safety valves for the protection of tanks, pipelines and plant components against inadmissibly high pressures; straightway or angle pattern; safety valves for use in chemical and pharmaceutical plants, for foodstuff industry and for tank construction in the range between 0.1 and 1100 bar.

Options: Compact design for smallest lines, with rupture discs, heating jacket, facilities for setting and lead-sealing, sterile design

Body: Stainless steel, nodular cast iron, steel, brass

Connections: DIN flanges, screwed ends, special connections

Industrial pressure regulators



Spring-loaded industrial pressure regulators DN15 - DN200 PN16/40

Due to their robust and simple design, the spring-loaded pressure regulating and relief valves with internal and external pulse line are designed especially for use in industrial applications. These pressure regulators are frequently used in dirty environments, such as power supply, water management or industrial cryogenic systems. The pressure regulators are suited for liquids, gases and vapours with inlet pressures up to 40 bar and outlet pressures between 0.5 and 22 bar. The plug/seat assembly may be resilient or metal-to-metal seated, single-seat or double-seat.

Options: With pressure gauge, differential-pressure regulator, line filter, bellows, steam trap.

Body: Stainless steel, nodular cast iron, steel

Connections: DIN flanges or screwed ends