

ACCUMULATORS





POUR ON THE PRESSURE

Hydraulic accumulators are devices in which potential energy is stored in the form of a compressed gas to be used to exert a force against a relatively incompressible fluid. They are used in fluid power systems for pressure maintenance/energy recapture, hydraulic axle suspension, and dampening of vibrations, pulsations and shocks. They shorten cycle times, increase operating life, and increase efficiency.

In modern accumulators the hydraulic fluid is separated from the gas by a piston, a diaphragm, or a rubber bladder. Today's machinery with hydraulic drives would be unthinkable without these hydraulic accumulators—they support the oil-hydraulics within an exceptionally wide spectrum of applications. And, it is particularly important to ensure that the correct configuration of the hydraulic accumulator is specified according to the particular design requirements.

As a leading technology specialist, Freudenberg Sealing Technologies continues to develop accumulators which meet the requirements of a wide range of specific applications. Our accumulators demonstrate outstanding characteristics for every area of application, no matter what the pressure.

GLOBAL SOLUTIONS

With a broad product range and a global support network of experts, Freudenberg is your single source for accumulators. We drive innovation with research, development, and production

YOUR ADVANTAGES AT A GLANCE:

- Complete array of products from a single source
- Customer-specific solutions
- Permeation-optimized materials
- Application-optimized in-house development of rubber material and sealing solutions
- High bursting strength and high permissible dynamic loads on the accumulator
- Permissible operating overpressure up to 1500 bar
- A wide range of materials and product configurations to cover customers' needs
- Wide application range

teams integrated across our global operations to meet the demands of worldwide and local markets.

ACCUMULATORS

Extremely adaptable and customizable, basic and specialized designs of Accumulators by Freudenberg Sealing Technologies can be produced to meet each customer's specific needs—physical size, fluid volume, pressure, corrosion resistance, materials, construction, and/or certifications. We offer One-Stop-Solutions with a comprehensive range of superior quality products and services.

PISTON ACCUMULATORS

The wide variety and versatility of our Piston Accumulators allows their use in over 90% of all potential applications. Proven durability and performance deliver freedom from potential bladder failure. From volumes of a few cubic inches to hundreds of gallons and up to 20,000 psi MAWP (1380 bar), the piston-type hydro-pneumatic accumulator can meet the diverse needs of industry with standard or custom designs, a comprehensive selection of gas and fluid connections, and a wide range of materials, seal types, and configurations.



DIAPHRAGM ACCUMULATORS

Designed for the most challenging applications that demand lightweight and high-strength performance, our diaphragm accumulators come in a variety of materials, seal types, and configurations. Our Diaphragm Accumulators offer exceptional functional reliability and durability, and expand versatile application areas with operating pressures up to 350 bar. Freudenberg meets your application challenges by providing accumulators that cover wide temperature ranges and deliver longer service life.



BLADDER ACCUMULATORS

Constructed of high-strength, seamless, chrome-moly-carbon steel shells, our Bladder Accumulators provide a quick response to fluid system demands while combating extreme pressure. Utilized for a wide variety of applications we strive to meet the challenges of your application by providing Bladder Accumulators that cover wide temperature ranges and provide longer service life. Available in a variety of industry standard capacities and pressures, our bladder-type accumulator excels at absorbing system shocks and pulsations, especially those of high frequency/low modulation.



CERTIFICATIONS

Standard certifications

- ASME/NB
- CE/PED
- SELO

Special certifications on demand

- CRN
- NR-13
- AS-1210
- DNV
- ABS
- BV
- GOST

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