

PISTON ACCUMULATORS

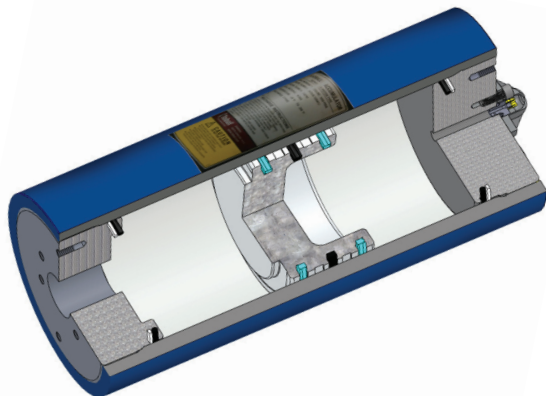


Extremely adaptable and customizable, basic and specialized designs of Piston Accumulators by Freudenberg Sealing Technologies can be produced to meet each customer's specific needs—physical size, fluid volume, pressure, corrosion resistance, method and material of construction, and/or certifications.

The wide variety and versatility of our Piston Accumulators allows their use in over 90% of all potential applications. From volume of a few cubic inches to hundreds of gallons and up, to 20,000 psi MAWP, the piston-type hydro-pneumatic accumulator can meet the diverse needs of industry with standard or custom designs.

Proven in diverse applications around the globe, Freudenberg Sealing Technologies Piston Accumulators provide reliability, durability, and cost-effective performance with:

- A comprehensive selection of gas and fluid connections
- A wide range of materials, seal types and configurations
- A range of construction techniques—Threaded, Welded, Threaded and Welded
- A comprehensive selection of regional and global design and construction certifications



VALUES FOR THE CUSTOMER

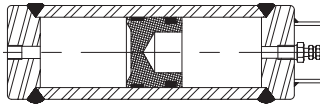
- Proven durability and performance
- Exceptional versatility with a wide range of applications
- Freedom from potential catastrophic bladder failures
- Extended maintenance intervals
- Customer-specific solutions



FEATURES AND BENEFITS

AL SERIES—All-Welded EconoLator® Type

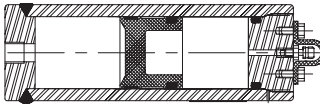
The all-welded, permanently sealed, EconoLator® is a 2500 psi MAWP accumulator design, available in sizes from 2.25" to 6.75" OD, with capacities from 0.5 pints to 7.5 gallons. It has been developed to meet the needs of the OEM market for an easily replaceable unit.



Model Number	Gas Capacity		Fluid Capacity		Dry Weight	
	In. ³	Cm. ³	Gals.	Liters	Lbs.	Kg.
022AL25-5NA09	16	257	0.0625	0.24	3	1
022AL25-1NA09	31	501	0.125	0.5	4	2
022AL25-2NA09	61	991	0.25	1	7	3

AT SERIES—Threaded and Welded

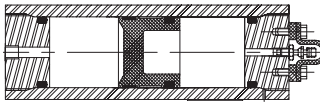
With both welded and threaded heads, the repairable AT SERIES 3000 psi accumulator readily meets the needs of many hydraulic system users. Available in sizes from 3" to 6.75" OD, with capacities from 0.5 pints to 3 gallons, these units can be manufactured with a variety of materials, seal types, and porting.



Model Number	Gas Capacity		Fluid Capacity		Dry Weight	
	In. ³	Cm. ³	Gals.	Liters	Lbs.	Kg.
047AT30-2NA1D	69	1,131	0.25	1	26	12
047AT30-4NA1D	127	2,081	0.5	2	31	14
047AT30-8NA1D	242	3,966	1	4	41	19
047AT30-12NA1D	358	5,867	1.5	6	52	24
047AT30-16NA1D	473	7,751	2	8	62	28
047AT30-20NA1D	589	9,652	2.5	10	73	33
047AT30-24NA1D	704	11,537	3	12	90	41

A SERIES—All Threaded

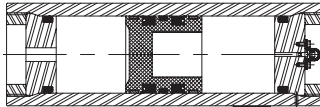
Available in a wide variety of sizes, designs, and materials, the all-threaded A SERIES accumulator can accommodate up to 10,000 psi in standard sizes, with volumes from 1 gallon to 200 gallons. Adaptable to almost any hydraulic system, our all-threaded designs from 3" to 14" OD are found all around the globe, in industrial, commercial, and oil and gas market applications. These are our most popular design.



Model Number	Gas Capacity		Fluid Capacity		Dry Weight	
	In. ³	Cm. ³	Gals.	Liters	Lbs.	Kg.
040A100-5NJ14	15	251	0.0625	0.25	25	11
040A100-1NJ14	30	493	0.125	0.49	32	14
040A100-2NJ14	60	675	0.25	1.00	45	20
040A100-4NJ14	117	1910	0.5	2.00	70	32

RR Retaining Ring Style

Larger diameter (>12" ID) ASME pressure vessel standards call for a head retention system which insures the strength of the vessel. The retaining ring style provides exceptional strength and durability for the larger volumes and higher pressures of these units, along with the ability to examine and re-seal as necessary. Retaining ring style is normally utilized for 14" through 24" OD units, in both carbon steel and stainless steel.



Model Number	Gas Capacity		Fluid Capacity		Dry Weight	
	In. ³	Cm. ³	Gals.	Liters	Lbs.	Kg.
240A30-400AG1K	12,555	205,750	50	189	3,687	1,672
240A30-800AG1K	24,100	394,944	100	379	5,027	2,280
240A30-1200AG1K	35,640	584,045	150	568	6,370	2,890
240A30-1600AG1K	47,190	773,316	200	757	7,711	3,498

Custom Design Series

Specialty accumulators and gas bottles are custom designed and built to specific requirements, with up to 20,000 psi capability, and 300 gallons of fluid capacity, utilizing many types of materials and seal configurations. Specialty units are found throughout the industrial, commercial, and oil and gas industries around the world.

Contact **Freudenberg Sealing Technologies** for more information about the variety of models and sizes available.



The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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