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### **FREUDENBERG ACCUMULATOR PARTNER**

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

Our preferred partners provide you with products and knowledge expertly, reliably and quickly – close to the customer worldwide.

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# **PISTON ACCUMULATORS EUROPEAN STANDARD RANGE**

**FOR INDUSTRIAL APPLICATIONS**

# PISTON ACCUMULATORS

## UP TO 350 BAR / THREADED VERSION

Hydraulic accumulators support the oil-hydraulics within an exceptionally wide spectrum of applications, where it is particularly important to ensure that the correct configuration of hydraulic accumulator is specified according to different design requirements. Our screwed versions are designed according to the European directive of pressure vessels. With different configurations and sizes up to 350 bar Freudenberg offers catalog series as well as customer specific solutions.

### VALUES TO THE CUSTOMERS

- Application-optimized in-house sealing development
- Long service life
- Low hysteresis
- Compact design
- A wide range of materials, seal types and configurations
- A comprehensive selection of gas and fluid connections
- Threaded versions are completely repairable
- Produced by proven and reliable technologies
- Reduced stick-slip effect

### APPLICATION

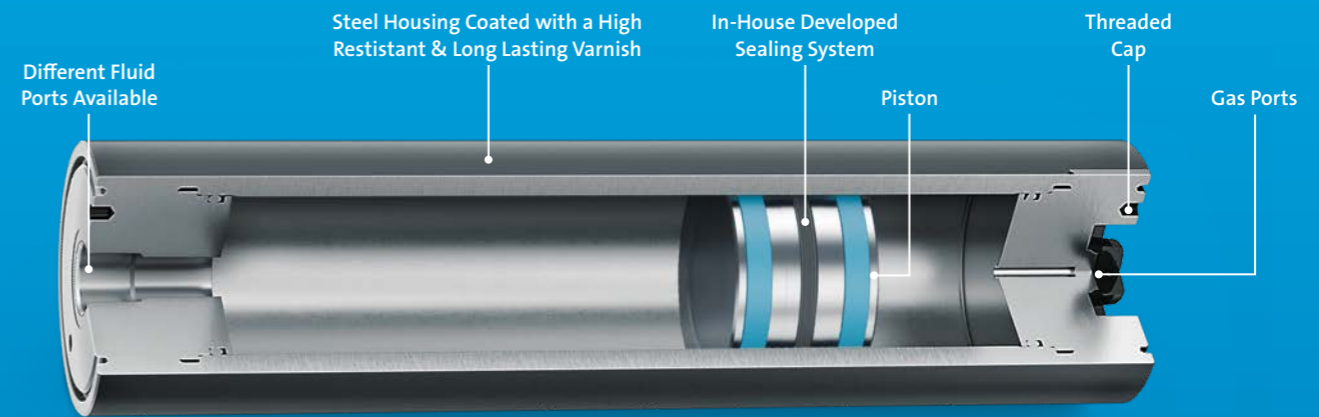
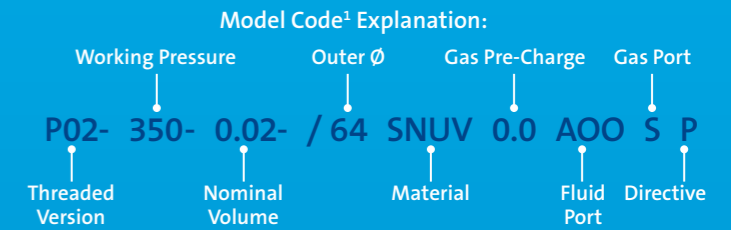
Exceptionally wide spectrum of applications, as in e.g.

- Heavy industry
- Construction
- Agricultural machinery
- Wind turbines
- Power units

# EUROPEAN STANDARD SERIES



We listed the mostly used Piston Accumulator volumes and configurations with pressures up to 350 bar. Other options are available on request. These sizes can also be found through our e-Catalog: <https://ecatalog.fst.com/seals/all/accumulator/>



### STANDARD SERIES CONFIGURATIONS

Sealing Material <sup>2</sup>	Material Temperature	Piston Material	Suggested Oil Type	Gas	Port		Installation Position	Directives	Documents <small>PED documents included</small>	Pressure Ratio
					Fluid	Gas				
NBR	- 20 °C to + 80 °C	Aluminum/Steel	Mineral based oil of PED fluid group 2	Nitrogen	G ½; G ¾; G1; G 1 ½	M28x1.5	Different positions possible	PED <sup>3</sup>	• Declaration of Conformity/ • Manufacturer Certification • User Manual	∞:1

### EXAMPLE RFQ<sup>4</sup>

Model Code	Fluid Port	Gas Pre-Charge Pressure [bar]	Operating Fluid / Temperature Range / Ports
P02-350-0.20-60 / 80SAIAAOOSP	G ¾	20.00	Standard

Gas Port	Model Code <sup>1</sup>	Drawing No.	Nominal Volume [dm <sup>3</sup> ]	Length [mm]	Diameter Ø [mm]		Female Thread IG
					Outer	Inner	
A	P02-350-0.20-60/80SAIAAOOSP	060-1314-022-711	0.2	200	80	60	G ½
B	P02-350-0.50-80/100SAIAAOOSP	080-1314-022-711	0.5	250	100	80	G ½
A	P02-350-0.50-60/80SAIAAOOSP	060-1314-022-711	0.5	305	80	60	G ½
A	P02-350-0.75-60/80SAIAAOOSP	060-1314-022-711	0.75	390	80	60	G ½
B	P02-350-1.00-80/100SAIAAOOSP	080-1314-022-711	1.0	350	100	80	G ½
B	P02-350-1.00-100/125SAIAAOOSP	100-1314-022-711	1.0	295	125	100	G ½
A	P02-350-1.00-60/80SAIAAOOSP	060-1314-022-711	1.0	485	80	60	G ½
B	P02-350-1.50-80/100SAIAAOOSP	080-1314-012-711	1.5	450	100	80	G ½
B	P02-350-1.50-100/125SAIAAOOSP	100-1314-012-711	1.5	360	125	100	G ½
B	P02-350-2.00-80/100SAIAAOOSP	080-1314-012-711	2.0	550	100	80	G ½
B	P02-350-2.00-100/125SAIAAOOSP	100-1314-012-711	2.0	425	125	100	G ½
B	P02-350-2.00-125/155SAIXOOSP	125-1314-012-711	2.0	345	155	125	G 1 ½
B	P02-350-2.50-100/125SAIAAOOSP	100-1314-012-711	2.5	490	125	100	G ½
B	P02-350-3.00-100/125SAIAAOOSP	100-1314-012-711	3.0	555	125	100	G ½
B	P02-350-4.00-125/155SAIXOOSP	125-1314-012-711	4.0	505	155	125	G 1 ½
B	P02-350-5.00-125/155SAIXAOS	125-1314-012-711	5.0	590	155	125	G 1 ½
B	P02-350-6.00-150/185SAIXOOSP	150-1314-012-711	6.0	545	185	150	G 1 ½

<sup>1</sup> Description of a standard accumulator without a gas pre-charge. The description will be adapted when volume, operating fluid, temperature range, fluid or gas port differ from standard configurations.

<sup>2</sup> Application optimized sealing packages, further material or design options are available on request.

<sup>3</sup> Further directives on request

<sup>4</sup> Usage of engineering information sheet recommended. Can be found through our download center on fst.com.

