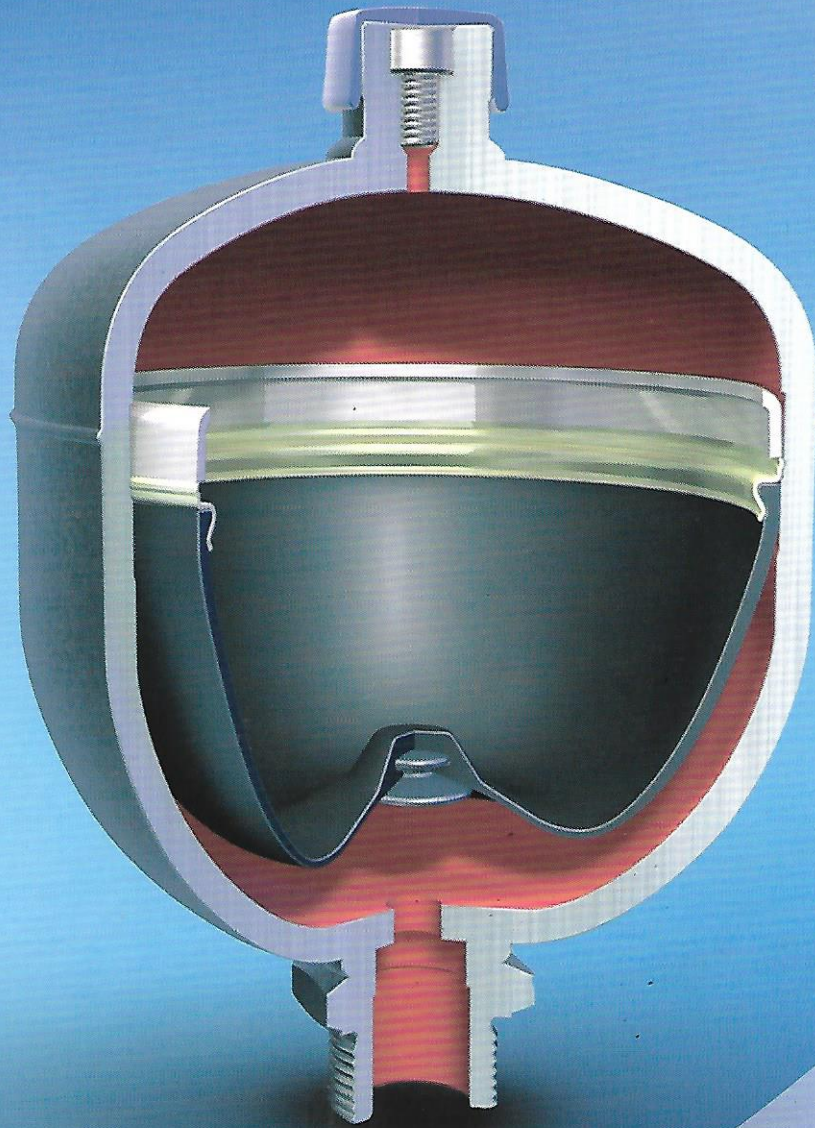


# MORE POWER FOR YOUR HYDRAULIC SYSTEMS



FREUDENBERG  
SEALING TECHNOLOGIES

**INTEGRAL 蓄能器**  
**上海巨普液压技术有限公司**

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**JUPU-HYDRAULIC CO., LTD.**



# FREUDENBERG SEALING TECHNOLOGIES ACCUMULATOR TECHNOLOGY

## SYNERGY WITH HIGH ENERGY

### About Freudenberg Sealing Technologies

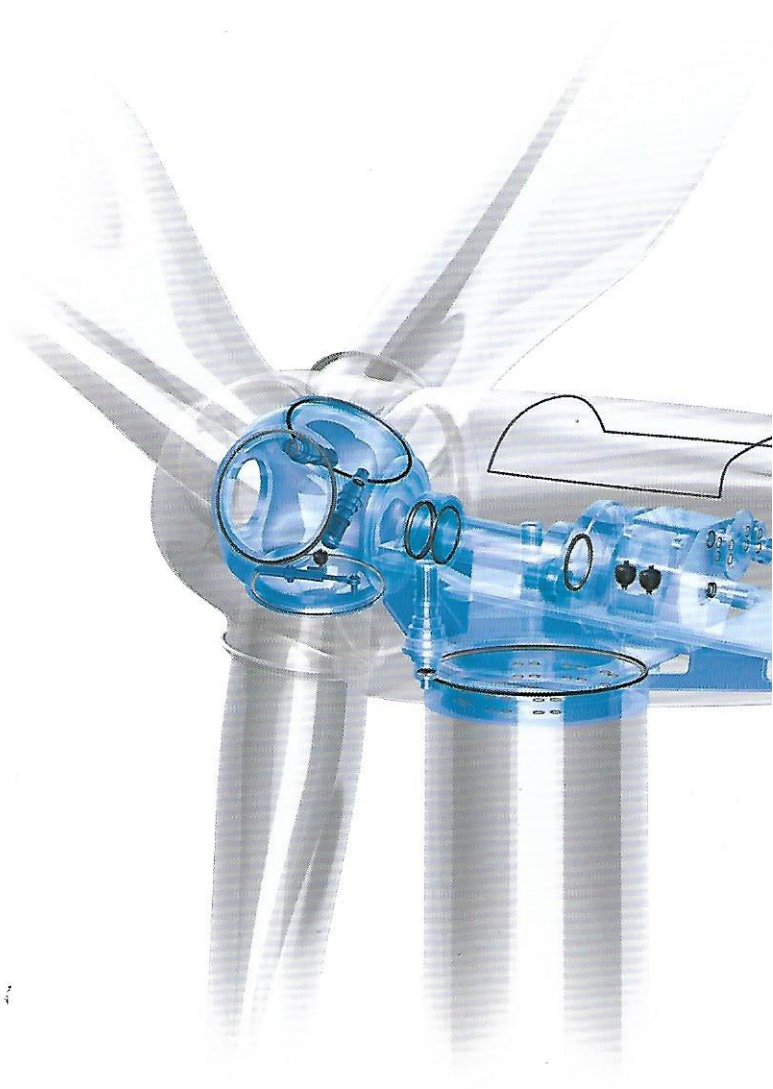
As the leading specialist in sealing applications and their markets, Freudenberg Sealing Technologies is a supplier as well as a development and service partner serving customers in a wide variety of industries, including the automotive industry, civil aviation, mechanical engineering, shipbuilding, the food and pharmaceutical industries, and the agricultural and construction machinery industries.

For decades, Freudenberg Sealing Technologies has set standards for quality, functionality and cost-effectiveness in countless applications in general industry. With a comprehensive array of products, established market expertise and an in-depth understanding of its customers' requirements, Freudenberg Sealing Technologies offers a unique performance package in the field of sealing technology.

### THE FREUDENBERG SEALING TECHNOLOGIES PERFORMANCE PACKAGE AT A GLANCE:

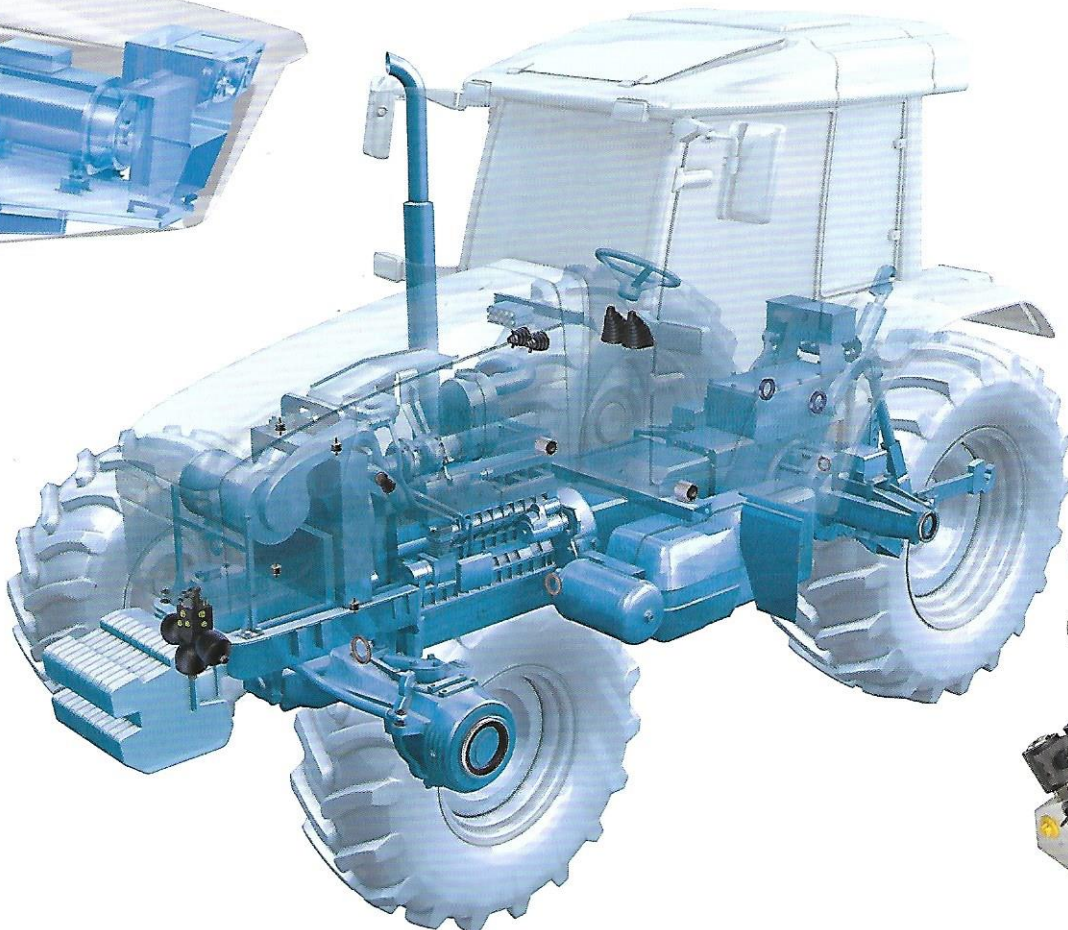
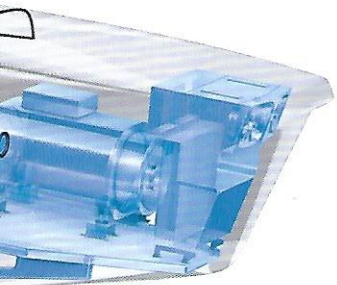
- Largest range of products worldwide
- Continuous innovation
- Unique material expertise
- High quality standards
- A variety of integrated services
- Global presence
- Knowledge of local market requirements

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# ACCUMULATORS FOR DIVERSE APPLICATIONS

Freudenberg Sealing Technologies accumulators are energy collectors and accumulators that are indispensable to all hydraulic systems, from presses to construction machinery all the way to industrial robots. They offer high performance, variability for an extremely wide range of oil and gas connections and stand out for their robustness in handling dynamic loads.





# DIAPHRAGM ACCUMULATORS

RANGE OF DIFFERENT APPLICATIONS WITH  
OPERATING PRESSURES UP TO 350 BAR



Our diaphragm accumulators offer exceptionally high functional reliability and longevity and open up a variety of areas of application for you – in operating pressures up to 350 bar.

In today's accumulators, the hydraulic fluid is separated from a gas by a diaphragm, a rubber bladder or a piston. Today it is no longer possible to get around the use of hydraulic accumulators in machines with hydraulic drives. From presses to construction and farm machinery, all the way to wind turbines, they support oil hydraulic systems in an extremely broad range of applications. So it is all the more important to configure the designs of hydraulic accumulators exactly to their diverse requirements. With versions of diaphragm accumulators handling operating pressures of up to 350 bar, Freudenberg Sealing Technologies offers you a wide range of performance in first-class quality from a single source.

## **Innovative solutions in materials, designs and functionality**

With a leading technology specialist's capacity to innovate, Freudenberg Sealing Technologies has further developed its hydraulic accumulators for specific applications. With outstanding characteristics for the areas of application that you require.

## **Impressive performance:**

- Optimized design
- High performance
- Availability of extremely diverse oil and gas connections
- Availability of extremely diverse diaphragm and housing materials
- Material diversity: acrylonitrile butadiene rubber (NBR), ethylene oxide epichlorohydrin rubber (ECO), butyl rubber (IIR), fluoro rubber (FKM)
- High bursting strength and high permissible dynamic stresses on the accumulator housing

## **THE ADVANTAGE TO YOU AT A GLANCE:**

- Broader range of performance
- Complete product line from a single source with permissible operating overpressure of up to 350 bar
- Coverage of a broad temperature range due to a variety of diaphragm materials
- Broad range of applications
- Customer-specific solutions

# DIAPHRAGM ACCUMULATORS TECHNICAL PARAMETERS

## COMPREHENSIVE PRODUCT LINE FOR DIAPHRAGM ACCUMULATORS:

Type	Item no.*	Nominal volume [l]	Permiss. working pressure [bar]	Oil connection			Gas connection	Ø [mm]	Height [mm]	Weight approx. [kg]	P0 : P2** max. perm. press. ratio
				SW	IG	AG					
MBSP 0,07–250	007-1315-013-6X1	0,07	250	6kt32	G1/2"	–	M28x1,5	64	118	0,7	1:8
MBSP 0,07–250	007-1315-074-6X1	0,07	250	6kt19	–	M14x1,5	M28x1,5	64	119	0,7	1:8
MBSP 0,16–250	016-1315-024-6X1	0,16	250	6kt32	G1/2"	–	M28x1,5	75	126	1,0	1:6
MBSP 0,32–210	032-1315-044-6X1	0,32	210	6kt32	G1/2"	–	M28x1,5	92	141	1,5	1:8
MBSP 0,50–210	050-1315-013-6X1	0,5	210	6kt41	G1/2"	–	M28x1,5	107	159	2,0	1:8
MBSP 0,50–210	050-1315-023-6X1	0,5	210	6kt41	G1/2"	M33x1,5	M28x1,5	107	170	2,0	1:8
MBSP 0,50–330	050-1315-033-7X1	0,5	330	6kt41	G1/2"	–	M28x1,5	110	169	2,7	1:8
MBSP 0,50–330	050-1315-013-7X1	0,5	330	6kt41	G1/2"	M33x1,5	M28x1,5	110	180	2,7	1:8
MBSP 0,60–330	060-1315-013-7X1	0,6	330	6kt41	G1/2"	–	M28x1,5	110	178	3,0	1:4
MBSP 0,60–330	060-1315-023-7X1	0,6	330	6kt41	G1/2"	M33x1,5	M28x1,5	110	189	3,0	1:4
MBSP 0,75–210	075-1315-043-6X1	0,75	210	6kt41	G1/2"	–	M28x1,5	122	173	2,6	1:8
MBSP 0,75–210	075-1315-053-6X1	0,75	210	6kt41	G1/2"	M33x1,5	M28x1,5	122	184	2,6	1:8
MBSP 0,75–250	075-1315-063-6X1	0,75	250	6kt41	G1/2"	–	M28x1,5	124	176	3,2	1:8
MBSP 0,75–250	075-1315-073-6X1	0,75	250	6kt41	G1/2"	M33x1,5	M28x1,5	124	187	3,2	1:8
MBSP 0,75–350	075-1315-012-7X1	0,75	350	6kt41	G1/2"	–	M28x1,5	129	180	4,0	1:8
MBSP 0,75–350	075-1315-022-7X1	0,75	350	6kt41	G1/2"	M33x1,5	M28x1,5	129	191	4,0	1:8
MBSP 1,0–210	100-1315-083-6X1	1,0	210	6kt41	G1/2"	–	M28x1,5	136	187	3,7	1:8
MBSP 1,0–210	100-1315-113-6X1	1,0	210	6kt41	G1/2"	M33x1,5	M28x1,5	136	198	3,7	1:8
MBSP 1,0–350	100-1315-043-7X1	1,0	350	6kt41	G1/2"	–	M28x1,5	129	205	5,0	1:4
MBSP 1,0–350	100-1315-053-7X1	1,0	350	6kt41	G1/2"	M33x1,5	M28x1,5	129	217	5,0	1:4
MBSP 1,4–140	140-1315-033-5X1	1,4	140	6kt41	G1/2"	–	M28x1,5	147	198	4,5	1:8
MBSP 1,4–140	140-1315-043-5X1	1,4	140	6kt41	G1/2"	M33x1,5	M28x1,5	147	209	4,5	1:8
MBSP 1,4–210	140-1315-143-6X1	1,4	210	6kt41	G1/2"	–	M28x1,5	147	198	4,5	1:8
MBSP 1,4–210	140-1315-153-6X1	1,4	210	6kt41	G1/2"	M33x1,5	M28x1,5	147	209	4,5	1:8
MBSP 1,4–250	140-1315-112-6X1	1,4	250	6kt41	G1/2"	–	M28x1,5	152	202	5,5	1:8
MBSP 1,4–250	140-1315-122-6X1	1,4	250	6kt41	G1/2"	M33x1,5	M28x1,5	152	213	5,5	1:8
MBSP 1,4–350	140-1315-012-7X1	1,4	350	6kt41	G1/2"	–	M28x1,5	156	201	7,0	1:8
MBSP 1,4–350	140-1315-022-7X1	1,4	350	6kt41	G1/2"	M33x1,5	M28x1,5	156	212	7,0	1:8
MBSP 2,0–250	200-1315-142-6X1	2,0	250	6kt41	G3/4"	–	M28x1,5	156	255	9,5	1:6
MBSP 2,0–350	200-1315-042-7X1	2,0	350	6kt41	G3/4"	–	M28x1,5	156	255	9,5	1:6
MBSP 2,8–250	280-1315-032-6X1	2,8	250	6kt41	G3/4"	–	M28x1,5	169	270	8,5	1:6
MBSP 3,5–250	350-1315-072-6X1	3,5	250	6kt41	G3/4"	–	M28x1,5	169	304	10,2	1:4

\* X corresponds to the index number for the respective diaphragm material:  
Standard material NBR = 1; material IIR = 2; material FKM = 3;  
material ECO = 4; other materials upon request

\*\* Permissible pressure ratio for diaphragms = P0 (charging pressure) / P2 (max. working pressure)

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