

HYDRAULIC ACCUMULATOR Bladder type HIGH PRESSURE

BHP-SS 100-1000 Bar



NOMINAL CAPACITY (L)	MWP (Bar)	ТҮРЕ	CERTIFICATION	L (mm)	D (mm)	WEIGHT
10	100-1500	WELDED	CE/ASME/ USTAMP	575	220	103
20	100-1500	WELDED	CE/ASME/ USTAMP	885	220	219
35	100-1500	WELDED	CE/ASME/ USTAMP	1405	220	269
50	100-1500	WELDED	CE/ASME/ USTAMP	1920	220	370
>50	CONSULT	WELDED	CE/ASME/ USTAMP		CONSULT	





HYDRAULIC ACCUMULATOR Bladder type HIGH PRESSURE

Hidraer BHP accumulators mainly range for high pressure applications ,designed to maintain flow and pressure to high pressure systems as HPU, pannel controls ,subsea compensators ,booster stations, flushing systems , blowout preventers ,manifolds , control modules ,etc,..

The accumulator unit module produce, store and deliver hydraulic energy under the form of fluid under controlled pressure to the connection pipes/hoses sledge assembly, they are pressure vessels used to store hydraulic energy by compressing a blanked of nitrogen over an oil filled area.

HIDRAER BHP Benefits:

- Store pressurized fluid as energy
- Creates steady and continuous flow faster than any pump working in .
- Maintain system pressure
- Provides liquid energy storage for emergency valve closure and other equipment shutdown.
- Reduces overall energy cost with continuous flow, rather than start/stop flow.
- Operates as a reservoir for make-up fluid.
- Subsea compensators







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Hidraer BHP accumulators are made for mainly range for API plans ,barrier fluid system pressurized by a bladder accumulator supplying clean liquid for pressurizing the seal.

The barrier fluid and nitrogen are separated by a bladder which effectively prevents the nitrogen from mixing with the barrier fluid

Features:

- 304 Stainless Steel construction standard (316 Stainless Steel construction available)
- Designed and stamped per CE+PED 2014/68 UE or ASME Code Section VIII, Div. 1
- Other certifications available:
 European CE, Canadian CRN, Brazilian NR-13, Chinese SELO, and Malaysian DOSH
- API Standard 614
- 330 Bar maximum design
- Temperature service -40°C to +145°C
- Buna-N compound bladder (Other bladder compounds available upon request)
- Transfer barrier design to maximize usable volume
- Buna-N bladder standard; other compounds available: Viton, EPR, Hydrin





Pre-Charge Monitor Schedule

The Accumulators, Surge Suppressors and Pulsation dampeners shipped from the factory of Hidraer are normally pre-charged to 20 psi with dry Nitrogen gas. This pre-charge protects the bladders from getting damaged during shipping. After installation of the unit, the bladder inside the unit needs to be properly precharged with dry Nitrogen gas to 70-80% of the working pressure of the pipeline. The pre-charging is accomplished before the fluid starts pumping in the pipeline.

For newly installed units, the pre-charge should be monitored every two weeks. There should be no fluid pumping through the pipeline during this process. If the pre-charge has dropped, then more Nitrogen gas should be pumped into the bladder to raise the pre-charge in the bladder to the recommended pressure. When there is no loss of pre-charge noticed, the pre-charge should be monitored every four weeks.

Caution: Do not use Oxygen or air to pre-charge the bladder. Use only Nitrogen for pre-charging.



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