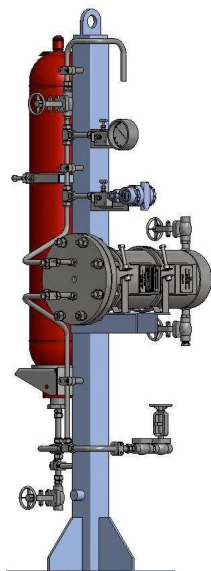


HYDRAULIC ACCUMULATOR

Bladder type *LOW PRESSURE*

BLP-SS
10-80 Bar



Design Features include:

- Bladder type
- 316 -304 Stainless steel welded-forged construction.
- Design approved to CE marked (calculated ASME VIII Div 1 available if required).
- U code option available, for more information please contact us.
- Working pressure from 10 to 80 Bar.
- Optional bladder materials to suit system fluid
- Optional fluid end connections threaded or flanged.
- Material certification to BS EN 10204 3.1 if requested.

Benefits:

High corrosion resistance typically for API systems or O&G applications
Low inertia and fast response for control system applications

Applications

- Mechanical Sealing Systems API 682: PLAN 53B, 53BM, Plan 53B is a dual pressurized system that eliminates direct gas contact with the barrier liquid. The Plan 53B uses a bladder accumulator as a physical barrier between the gas and the barrier fluid. The bladder is pressurized with gas prior to filling the system with barrier liquid. As the system is filled, the bladder is compressed thus providing a positive pressure on the barrier liquid. Circulation is via a pumping ring

- Lubricating systems;Compressor & gas turbines (API 614:PLAN 54 The purpose of LP-SS is to provide sufficient flow to API system ,in case of pump failure we can supply enough oil to lubricate the systems meanwhile the auxiliary pump reaches operating conditions.

- Water Distribution ;Processing produced fluids
- Low pressure Offshore applications ;TOP side applications
- Condition Monitoring units
- Hydraulic valve actuators ,pipeline shock absorbers

Accessories

- Safety Blocks , oil side
- Manometer, burst disc ,transfer system adapted block up side
- SS brackets , fitting, clamps

NOMINAL CAPACITY (L)	MWP (Bar)	TYPE	CERTIFICATION	L (mm)	D (mm)	WEIGHT
4	80	WELDED /FORGED	CE/ASME/ USTAMP	355	220 - 232	30
10	80	WELDED /FORGED	CE/ASME/ USTAMP	575	220 - 232	45
20	80	WELDED /FORGED	CE/ASME/ USTAMP	885	220 - 232	63
35	80	WELDED /FORGED	CE/ASME/ USTAMP	1405	220 - 232	95
50	80	WELDED /FORGED	CE/ASME/ USTAMP	1920	220 - 232	124
>50	CONSULT	WELDED /FORGED	CE/ASME/ USTAMP	CONSULT		

HYDRAULIC ACCUMULATOR
*Bladder type LOW PRESSURE***BLP-SS**
10-80 Bar

Hidraer BLP mainly range for API plans and seal applications are designed to maintain flow and pressure to the seal systems ,High reliability as a stand-alone system without need for a permanent nitrogen source and external pressure , this reduces the possibility of costly damage to the pumps , compressors ,etc,...

HIDRAER BLP Benefits:

- Protects pipes, valves, fittings, meters, and in-line instrumentation from destructive pulsations, surges, cavitations, thermal expansion, and water-hammer.
- Creates steady and continuous flow when dosing, blending or proportioning additives.
- Ensures accuracy, longevity, and repeatability of in-line meters.
- Enables uniform application of material in spraying and coating systems.
- Reduces agitation, foaming, splashing and degradation of product.
- 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.



HYDRAULIC ACCUMULATOR

Bladder type *LOW PRESSURE*

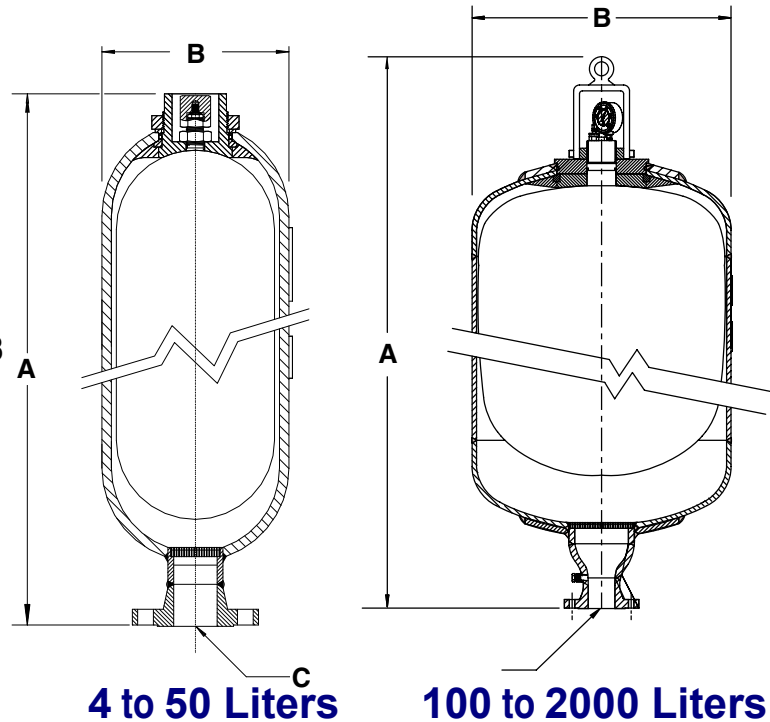
BLP-SS
10-80 Bar

Hidraer BLP 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 pre-charged 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.