

HYDRAULIC ACCUMULATOR

Bladder type **BIG VOLUME**

BBV
10-80 Bar



DESIGN FEATURES

- Bladder type
- Cst or 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

Turbine applications oil flow required

APPLICATIONS

- 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. specifically designed for installation within turbomachinery consoles and are dedicated to maintain normal lube oil pressure at the bearings while the standby pump accelerates from an idle condition to operating speed, or during shutdown. This will prevent costly damage to the bearings, increasing bearing life and the overall reliability of the system.

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

ACCESORIES

- 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 approx
100	80	WELDED /FORGED	CE/ASME/ USTAMP	1000	610	175
150	80	WELDED /FORGED	CE/ASME/ USTAMP	1200	610	200
200	80	WELDED /FORGED	CE/ASME/ USTAMP	1450	610	250
250	80	WELDED /FORGED	CE/ASME/ USTAMP	1660	610	300
300	80	WELDED /FORGED	CE/ASME/ USTAMP	2000	610	400
500	CONSULT	WELDED /FORGED	CE/ASME/ USTAMP	2600	611	450

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Hidraer BBV s LUBE OIL SYSTEM are specifically designed for installation within turbomachinery consoles and are dedicated to maintain normal lube oil pressure at the bearings while the standby pump accelerates from an idle condition to operating speed, or during shutdown. This will prevent costly damage to the bearings, increasing bearing life and the overall reliability of the system. BBVs are simple, safe, and cost effective pressure vessels, not containing any mechanical moving parts.

The BBVs are designed in accordance with CE + PED or ASME Sec. VIII, Div. 1 and U Stamped

HIDRAER BBVs Benefits:

- Protects pipes, valves, fittings, meters, and in-line instrumentation from destructive pulsations, surges, cavitations from any system failure
- Creates steady and continuous flow from any system failure able to do an emergency stop
- Ensures protection and longevity to pumps and compressors multilube systems
- 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.



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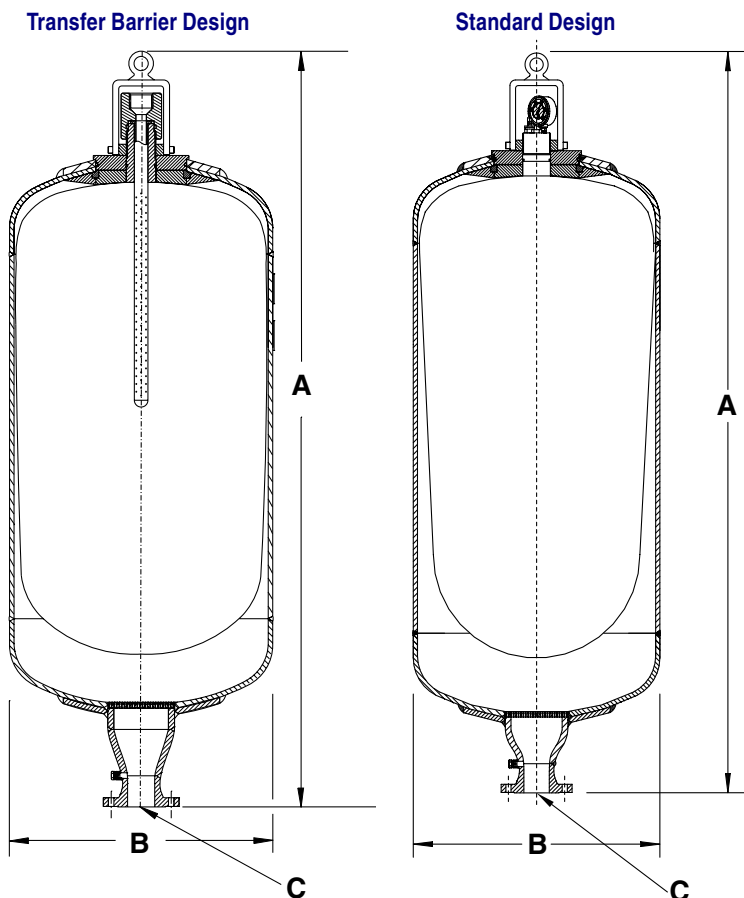
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Standard Features:

- 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



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.