



**10- 57 Litre (2.5-15 USG)  
Bladder Accumulators  
3000/4000 PSI ASME VIII  
Division 1 'U' Stamp**

**BESPOKE ACCUMULATORS AVAILABLE UPON REQUEST**

**CONTACT QHP LTD FOR MORE INFORMATION:  
T: +44 (0) 1244 393500 | E: [info@qhp.co.uk](mailto:info@qhp.co.uk) | W: [www.qhp.co.uk](http://www.qhp.co.uk)**

# Bladder Accumulators

We offer fully repairable bladder type accumulators in a wide variety of sizes from 1 litre to 57 litres. We also offer protective internal and external coatings or corrosion resistant materials as required.

Our standard bladder accumulators are manufactured to international standards up to pressures of 690 bar (10,000 PSI) as standard (see our Design Standards section for more information). The components for this large range of Accumulators are usually carried in stock.

Bespoke units are available upon request to cope with low/high temperatures, aggressive fluids, or high flow rates, again many components will be carried in stock.

## **STANDARD BLADDER TYPE HYDRAULIC ACCUMULATORS:**

- 1 to 57 Litre Nominal Capacity
- Chrome Molybdenum Steel
- Stainless Steel or Carbon Steel Connections available
- MaWP of 420 Bar & 690 Bar Standard Vessels
- BSEN 14359 Design Standard
- PED 2014/68/EU Certified (CE Marked)
- Non standard options are available
- ASME VIII Division 1 with the option for U Stamp and National Board Registration
- AS1210 Australian Pressure Vessel Standard
- Others available on request

## **DESIGN STANDARDS**

QHP can design and manufacture to the following standards:

- BSEN 14359 (British/European Accumulator Code)
- ASME VIII Division 1 (U Code Stamp available)
- AS1210 (Australian Pressure Vessel Code)

## **QHP CAN ALSO OFFER THE FOLLOWING APPROVALS:**

- PED 2014/68/EU (European Pressure Equipment Directive)
- ATEX 2014/34/EU
- Lloyds Register
- NB (National Board)
- DNV GL (Det Norske Veritas)
- ABS (American Bureau of Shipping)
- USCG (US Coast Guard)
- BV (Bureau Veritas)
- CRN (Canadian Registration Number)
- Australian Design Registration for all Australian States.
- SELO for China
- DOSH for Malaysia
- NR13 for Brazil
- 3A Marking for Serbia



**SPECIFICATION:**

3,000/4,000 PSI ASME VIII Division 1 (U Stamped) Bladder Accumulator

- Capacity: 10 to 57 Litre (2.5 to 15 US Gallon)
- Shell Material: Chromium Molybdenum Alloy Steel
- Connection Material: Stainless Steel
- Gas Connection: ¼" BSP Male Gas Valve (316 Stainless Steel)
- Fluid Connection: See Table Below (Others Available Upon Request)
- Maximum Working Pressure: 3,000 PSI/4,000 PSI (Appendix 22)
- Design Pressure: 3,000 PSI/4,000 PSI (Appendix 22)
- Hydrostatic Test Pressure: Design Pressure x 1.5
- Metallic Design Temperature: -40°C to +93°C (Standard)
- Elastomeric Operating Temperature: Various Elastomers Available
- Design Code: ASME VIII Division 1
- Approval: U Stamp
- Dimensions & Weight: See Table Below

**BLADDER & ELASTOMER:**

- Available In A Range Of Elastomers To Suit Operating Conditions

**FLUSHING:**

- SAE AS4059 Class 6B-F or NAS 1638 Available
- Medium: Water Glycols & Mineral Oils

**EXTERNAL COATING:**

- Special Offshore Topside Paint Specifications Available Upon Request
- Norsok M501 System Coatings

**MATERIAL CERTIFICATION:**

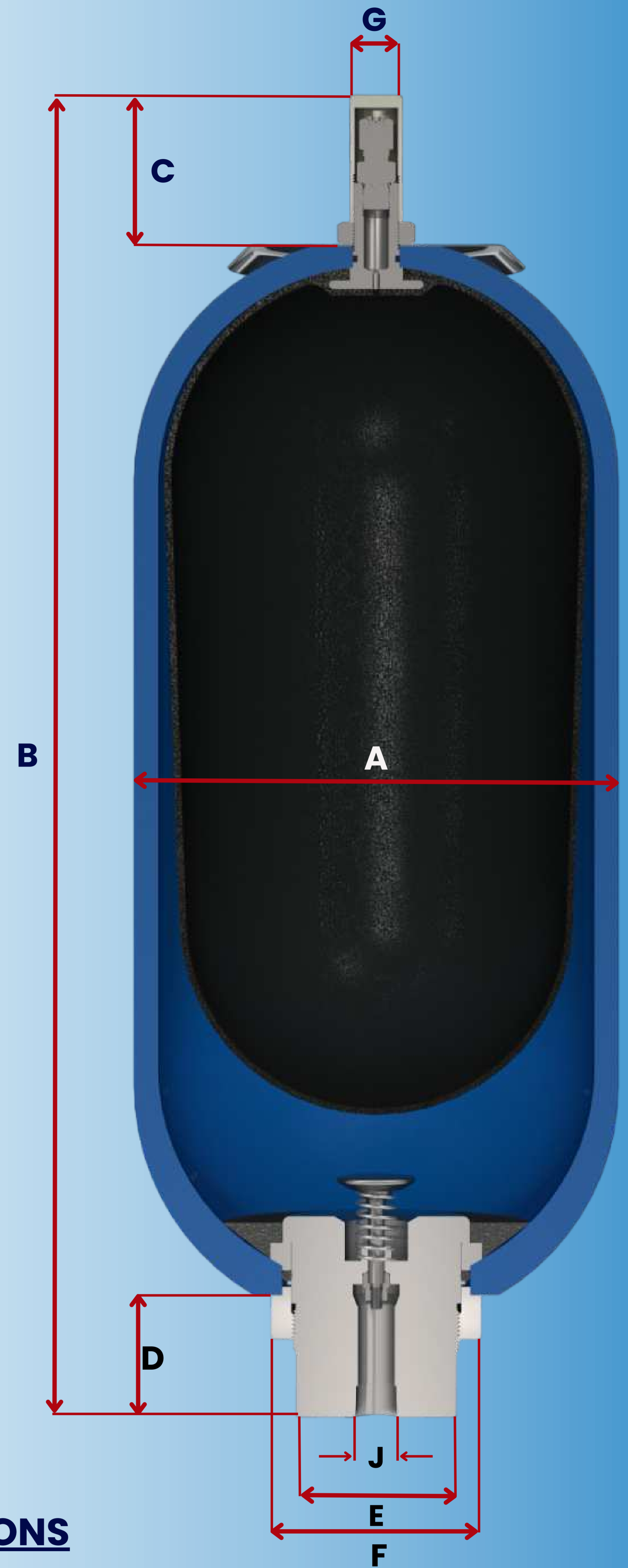
- BS EN 10204-3.1 For Major Pressure Retaining Components
- C of C, ASME U1A Form & Process Certification

**ACCESSORIES AVAILABLE:**

- Clamps & Brackets (Carbon & Stainless Steel)
- Fluid Side Safety Blocks (Optional relief valves)
- Portable Charging Sets
- Internal Electroless Nickel Plating (ENP)

**PERMANENT CHARGING BLOCKS:**

- ¼" BSP Gas Valve Connection
- Burst Disc (Option)
- Various Connections Available



**DIMENSIONS**

Nominal Capacity (Litres)	Gas Volume (Litres)	Weight (kg)	ø A (mm)	B Max. (mm)	C (mm)	D (mm)	ø E (mm)	ø F (mm)	ø G (mm)	J (NPT)
10.00	9.25	45	229	542	70	60	76	100	25	1/2"
20.00	18.75	65	229	854	70	60	76	100	25	1/2"
35.00	35.25	100	229	1390	70	60	76	100	25	1/2"
50.00	49.25	135	229	1894	70	60	76	100	25	1/2"
57.00	54.5	140	229	1975	70	60	76	100	25	1/2"