

HIPRES[®] ACCUMULATOR DESIGN DATA SHEET

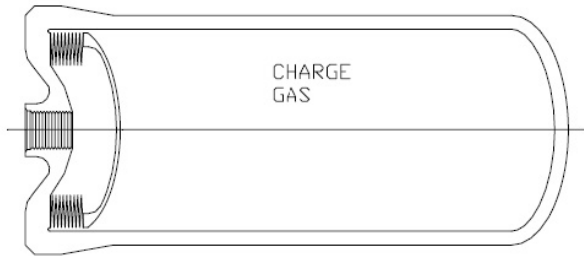
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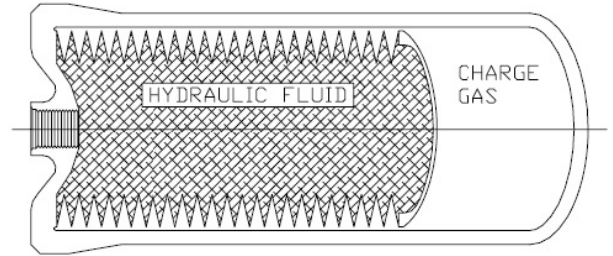
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In order to properly size the accumulator, we must understand what displaced fluid volume is required from what high pressure to what low pressure, and over what temperature range.

Accumulator Empty Condition



Accumulator Full Condition



Fluid Pressure [PSIG] / [bar] _____

Fluid Temperature [F] / [C] _____

Fluid Volume [IN³] / [Liters] _____

This will be 0 unless you wish some fluid remaining in the accumulator

Fluid Pressure [PSIG] / [bar] _____

Fluid Temperature [F] / [C] _____

Fluid Volume [IN³] / [Liters] _____

For the pressure vessel design, we must understand proof and burst pressure requirements. Standard values are described below but the customer may allow for different values to suit specific applications. Further, we need to understand at what temperatures these pressures are to be measured. Standard temperature of 68F is typical.

From ARP4378:

Proof pressure = 1.5 x maximum operating pressure or 3 x precharge pressure (whichever is higher)

Burst pressure = 4 x maximum operating pressure or 5 x precharge pressure (whichever is higher)

Burst Pressure [PSIG] / [bar] _____

Proof Pressure [PSIG] / [bar] _____

At what temperature [F] / [C] _____

At what temperature [F] / [C] _____

Envelope Constraints _____

Maximum Diameter [IN] / [CM] _____

Maximum Length [IN] / [CM] _____

Pressure indicator required? NO YES

Fill Rate [IN³/Min] / [L/M] _____

Empty Rate [IN³/Min] / [L/M] _____

Number of fill/empty cycles _____

Application description _____

Miscellaneous _____

Hydraulic port requirement _____

Fluid type _____

Target Weight [LBS] / [KG] _____

What type: _____