

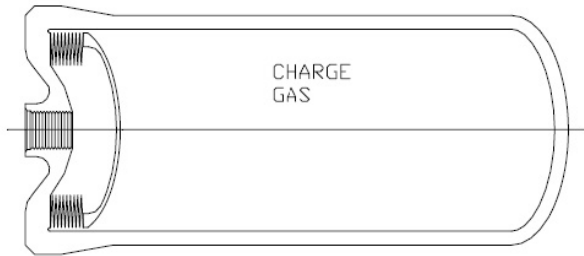
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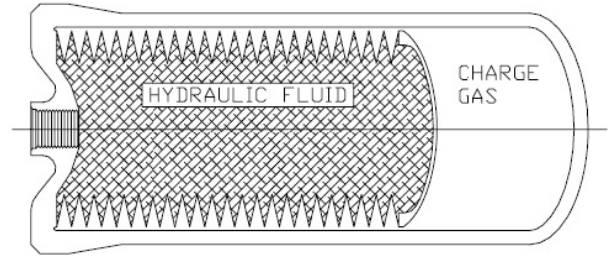
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In order to properly size the accumulator, we must understand what displaced fluid volume is required from what high pressure to what low pressure, and over what temperature range.

**Accumulator Empty Condition**



**Accumulator Full Condition**



Fluid Pressure [PSIG] / [bar] \_\_\_\_\_

Fluid Temperature [F] / [C] \_\_\_\_\_

Fluid Volume [IN<sup>3</sup>] / [Liters] \_\_\_\_\_

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

Fluid Pressure [PSIG] / [bar] \_\_\_\_\_

Fluid Temperature [F] / [C] \_\_\_\_\_

Fluid Volume [IN<sup>3</sup>] / [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 [IN<sup>3</sup>/Min] / [L/M] \_\_\_\_\_

Empty Rate [IN<sup>3</sup>/Min] / [L/M] \_\_\_\_\_

Number of fill/empty cycles \_\_\_\_\_

Application description \_\_\_\_\_

Miscellaneous \_\_\_\_\_

Hydraulic port requirement \_\_\_\_\_

Fluid type \_\_\_\_\_

Target Weight [LBS] / [KG] \_\_\_\_\_

What type: \_\_\_\_\_