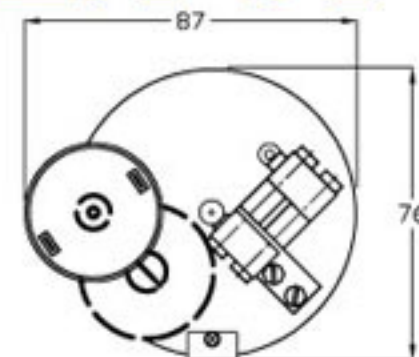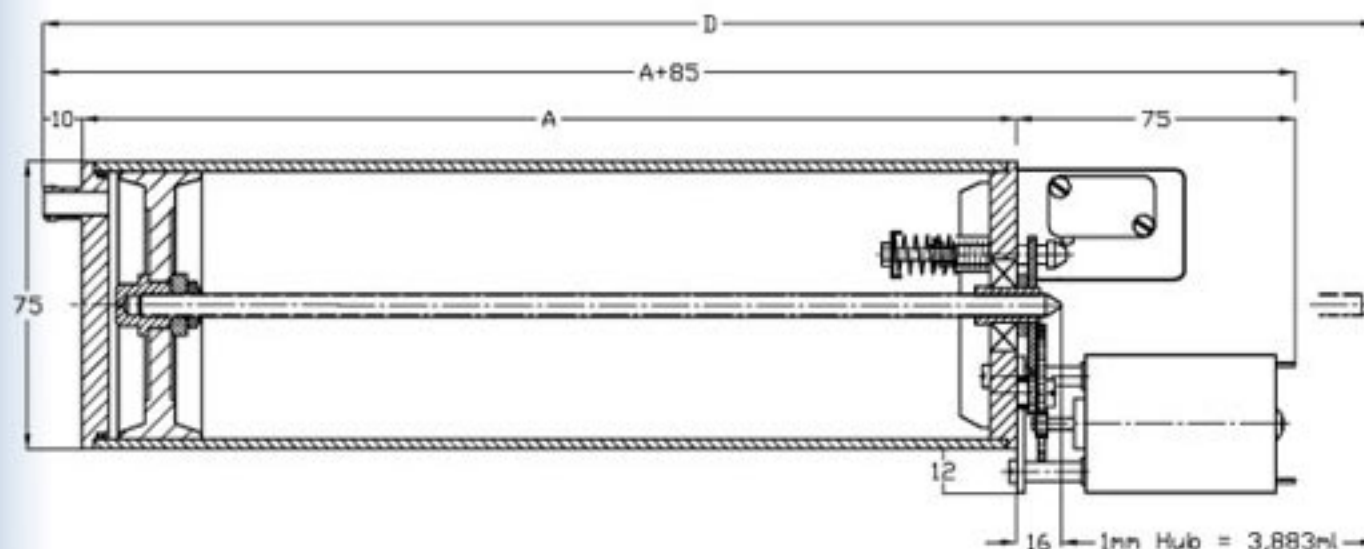**Piston Tanks - Custom Made**

1mm Hub = 3,883ml

How to calculate lengths of a custom made Piston Tank *

1. Determine operational volume of tank (approx. 7 - 10% of model's displacement)

2. Calculate piston stroke

$$1 \text{ mm of piston stroke} = 3{,}883 \text{ ml}$$

$$\text{piston stroke} = \frac{\text{operational volume (ml)}}{3{,}883 \text{ (ml)}}$$

3. Cylinder length A (empty) = piston stroke + 47 mm

4. Total length D (full) = cylinder length + 10 mm [1] + 16 mm [2] + piston stroke + safety distance (4 mm)

For example: Piston Tank with an operational volume 250 ml

$$\text{piston stroke} = \frac{250 \text{ (ml)}}{3{,}883 \text{ (ml)}} = 64{,}38 \text{ mm} + 4 \text{ mm} = 68 \text{ mm (rounded off)}$$

cylinder length A (empty) = 68 mm + 47 mm = 115 mm

length overall D (full) = A + 10 + 16 + piston stroke = 115 + 10 + 16 + 68 = 209 mm

[1] Length of connection nozzle.
[2] Projecting length of piston rod, measured from bearing plate when tank is empty.
* All data without engagement. Measurements given underlie tolerances and are approximate. Specifications may be subject to change.