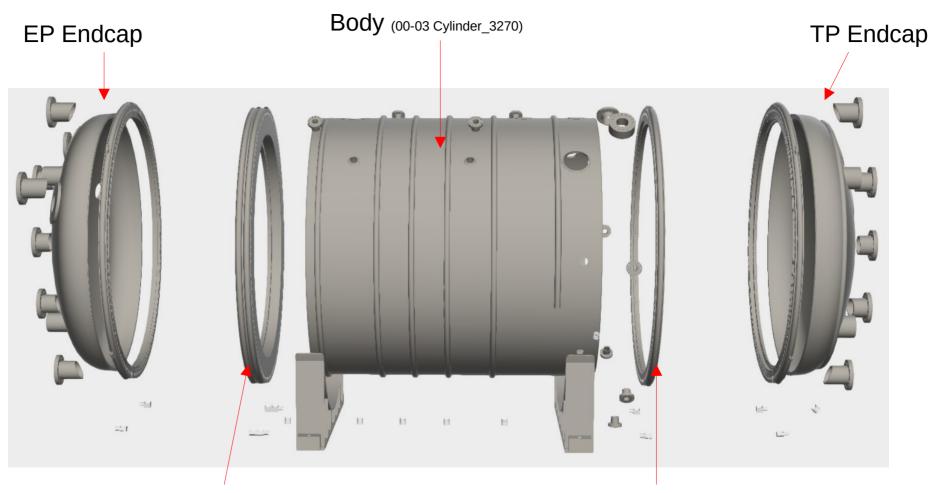
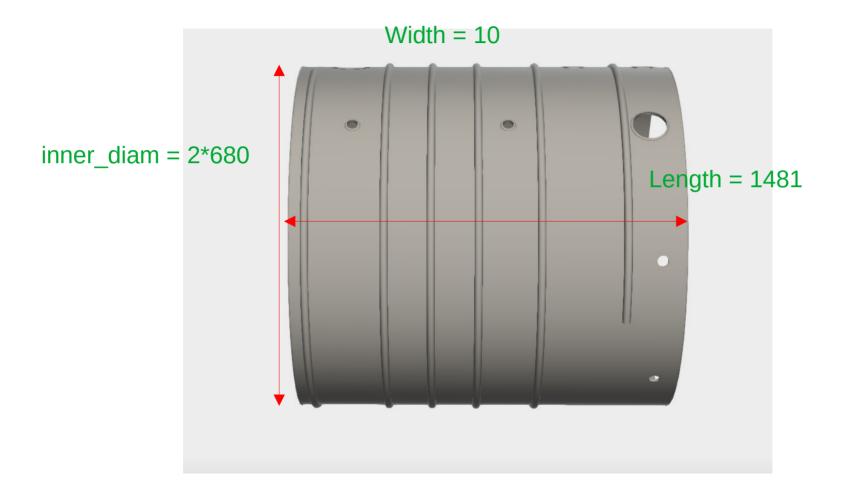
**NEXT100 Vessel Nexus implementation from engineering drawings** 

Gonzalo Díaz López 16/07/2021



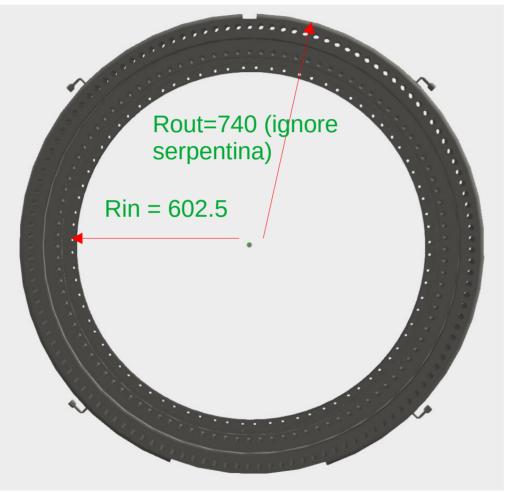
EP flange (00-02 Cylinder EP flange\_3269)

TP flange (00-01 Cylinder TP flange\_second option ...)

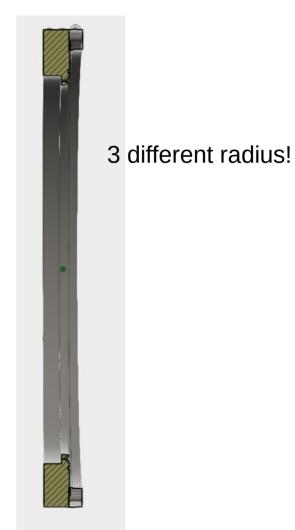


Body

## EP flange



## Width = 77.5

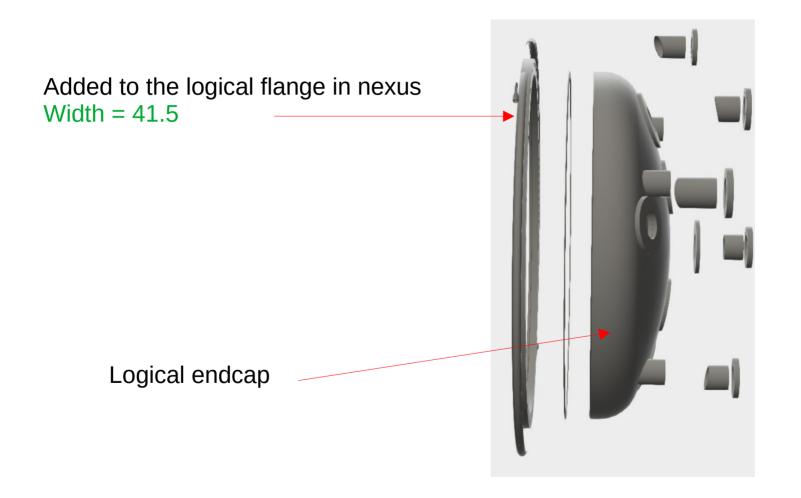


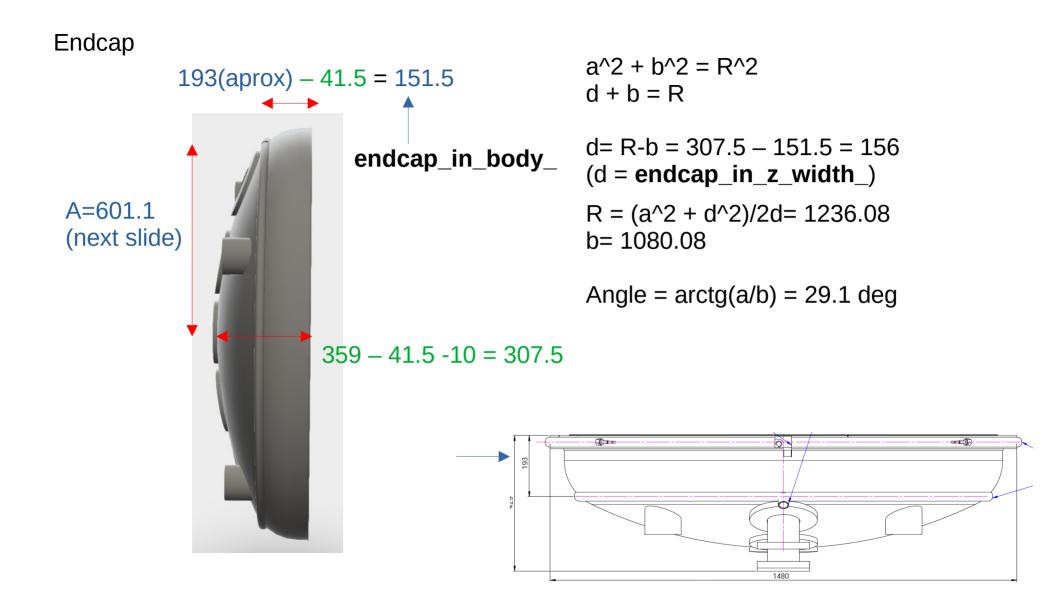
**TP** Flange

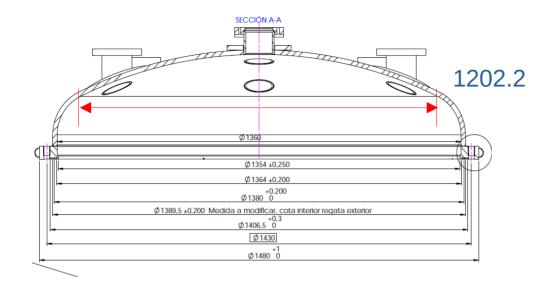


Width=41.5

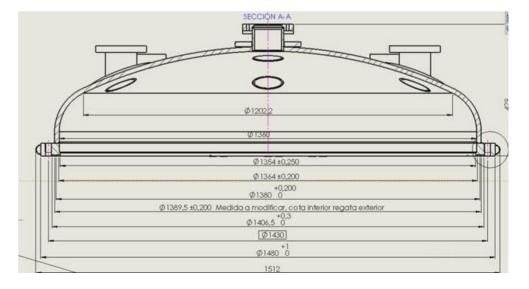
Endcaps (same for TP and EP)







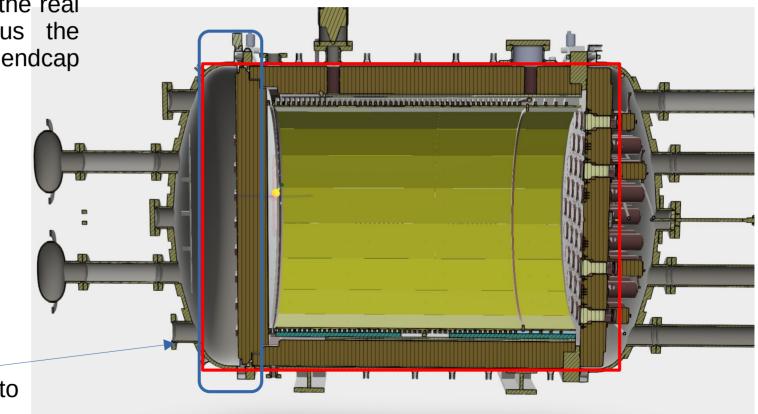
Dimension not in drawings, provided by Jordi



### Conclusions

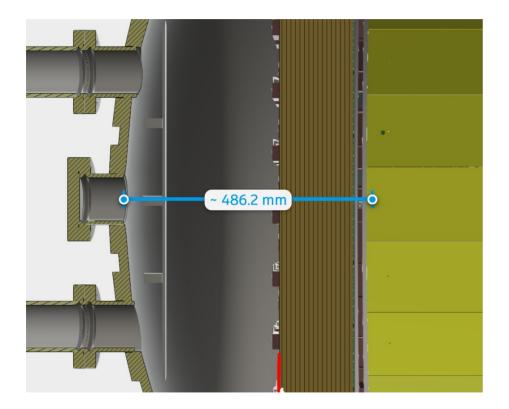
#### Important note

The Body is implemented as a G4Tubs with the real Body cylinder plus the flanges plus the endcap cilindrical part. Body G4Tubs Length = 1481 (body) + 41.5 + 77.5 (flanges) + 2x193 (endcaps)= 1986

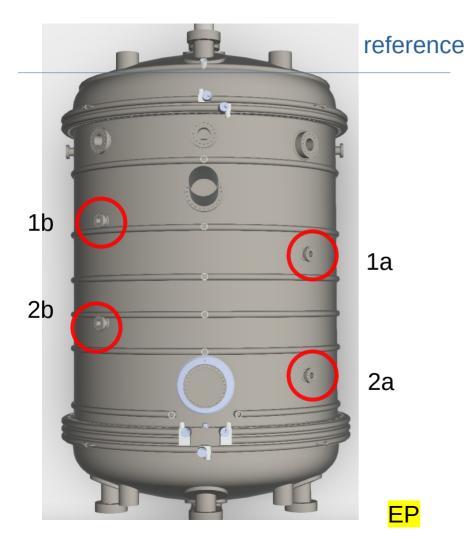


Flange + endcap lengths are added to the Body

# Approximate endcap-gate distance

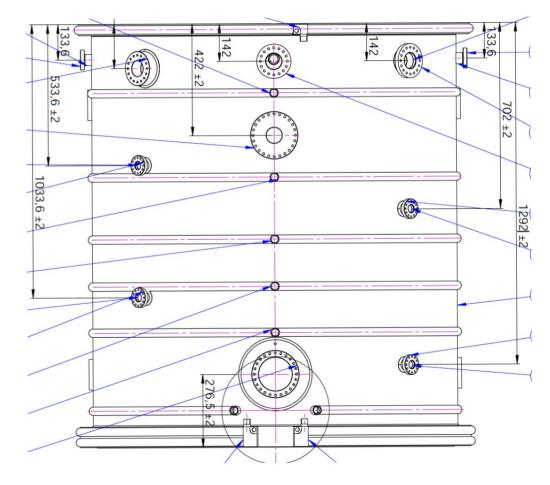


### Calibration ports



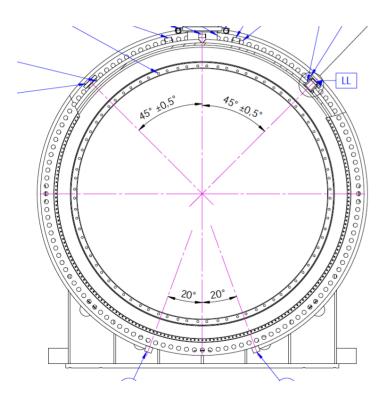
TΡ

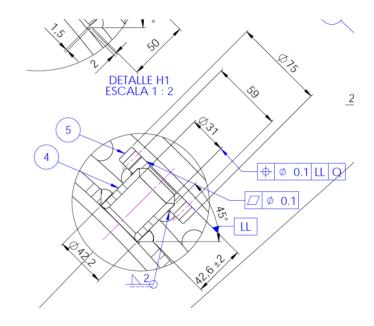
Port distances referenced from the Body as shown in the left plot, thus a +151.5 mm must be added to the distances below.



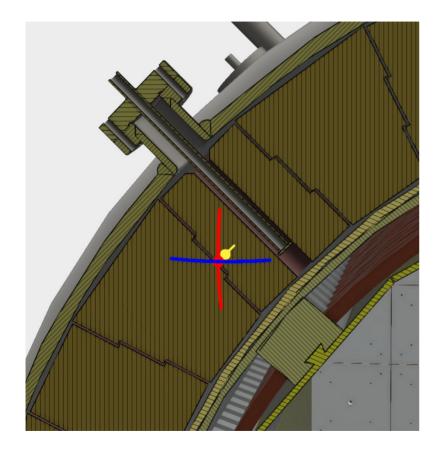
## Calibration ports

45 °





## Calibration ports



Steel tube with air, Thickness = 1.2 mm Radious = 4 mm