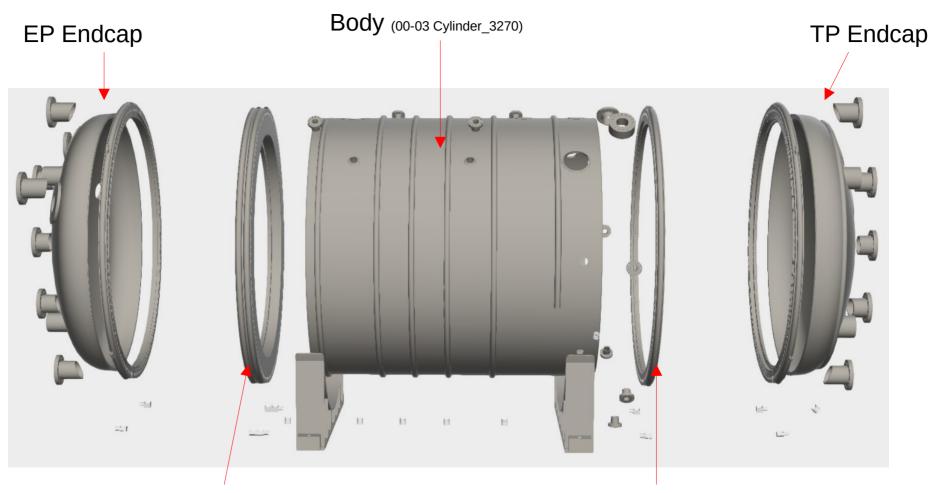
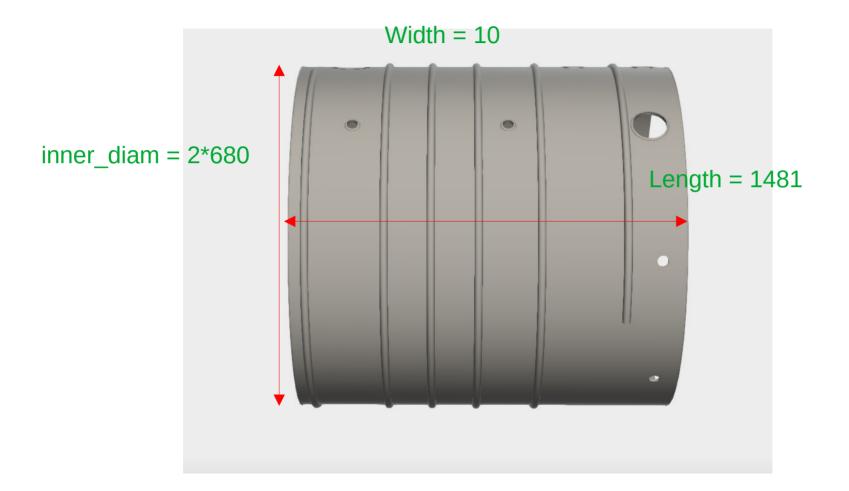
NEXT100 Vessel Nexus implementation from engineering drawings

Gonzalo Díaz López 16/07/2021



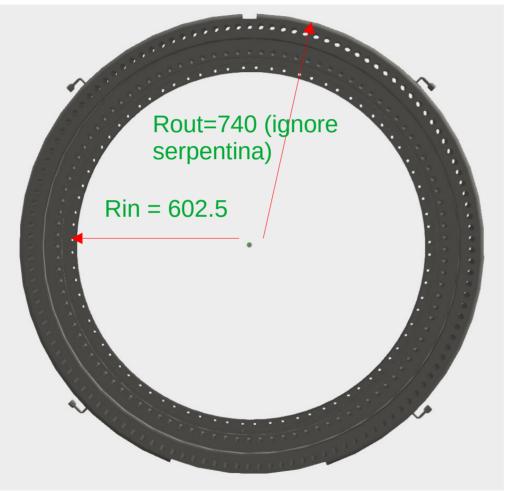
EP flange (00-02 Cylinder EP flange_3269)

TP flange (00-01 Cylinder TP flange_second option ...)

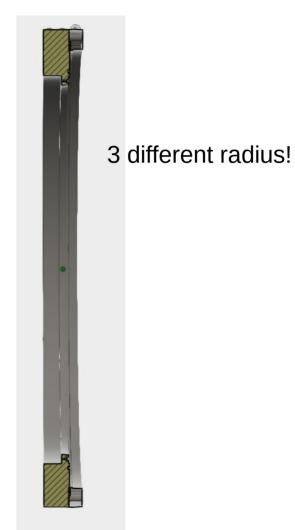


Body

EP flange



Width = 77.5

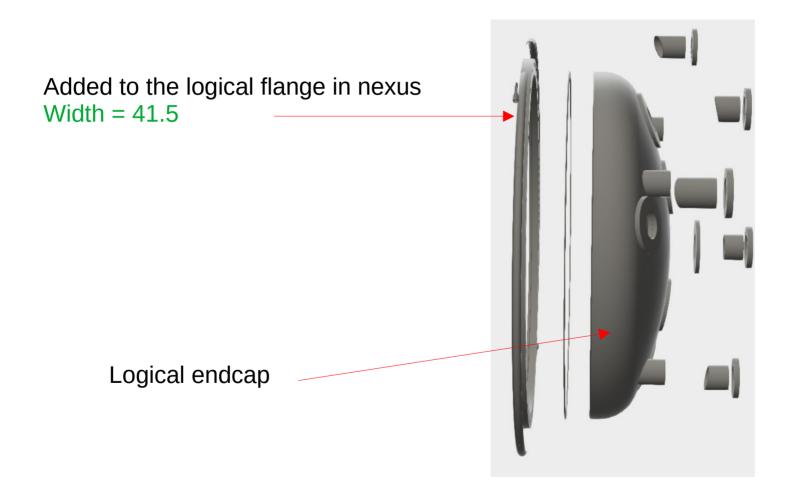


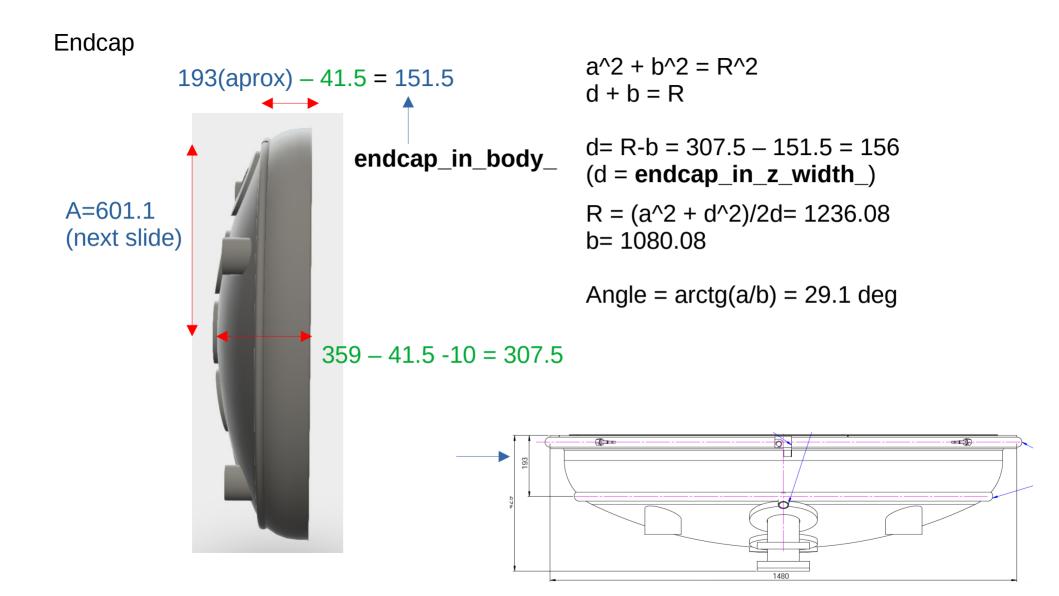
TP Flange

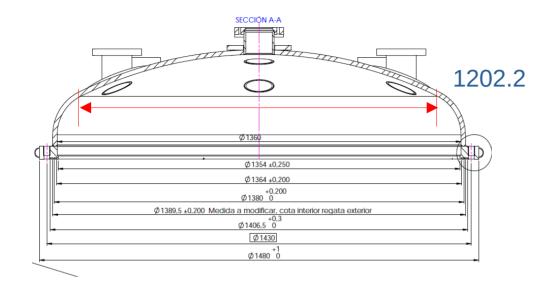


Width=41.5

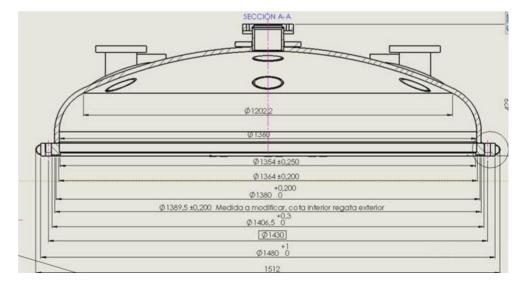
Endcaps (same for TP and EP)







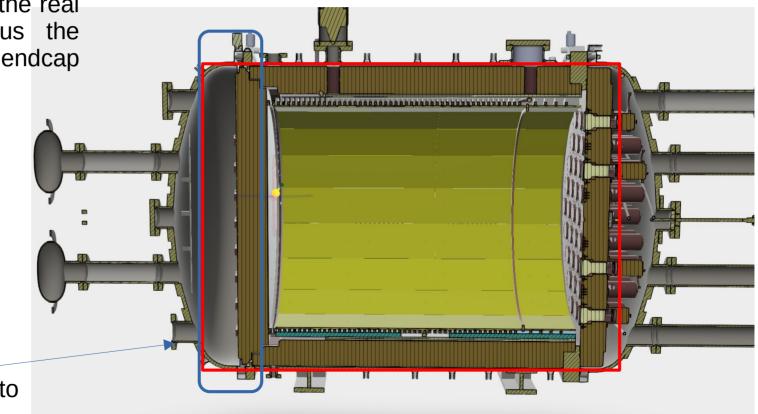
Dimension not in drawings, provided by Jordi



Conclusions

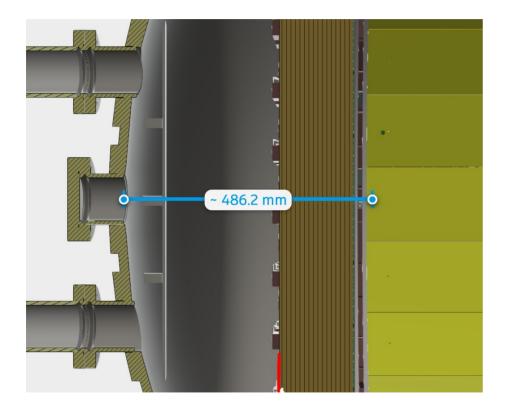
Important note

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

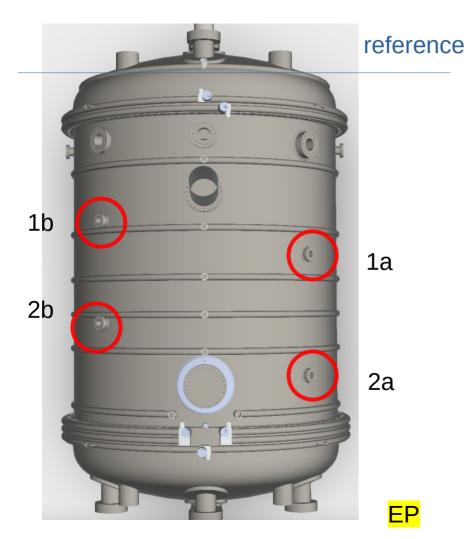


Flange + endcap lengths are added to the Body

Approximate endcap-gate distance

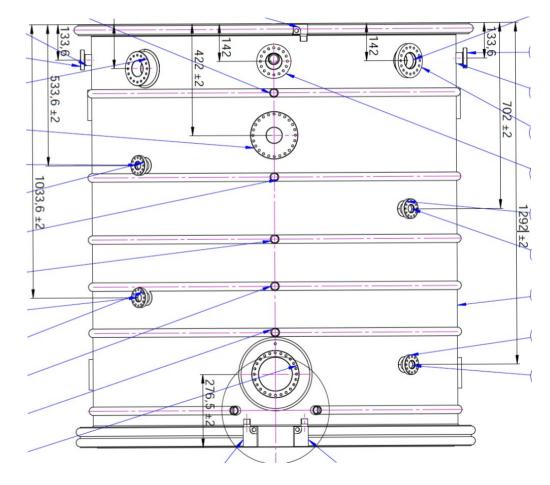


Calibration ports



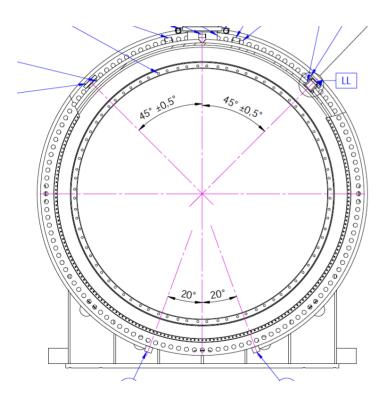
TΡ

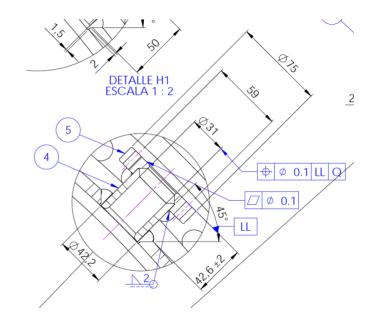
Port distances referenced from the Body as shown in the left plot, thus a +151.5 mm must be added to the distances below.



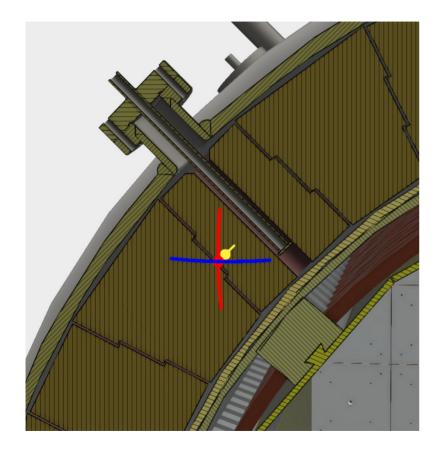
Calibration ports

45 °





Calibration ports



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