## NEXT100 Vessel

Nexus implementation from engineering drawings
Gonzalo Díaz López
16/07/2021



Width $=77.5$
EP flange


3 different radius!

TP Flange

Width=41.5


## Endcaps (same for TP and EP)

Added to the logical flange in nexus Width $=41.5$


## Endcap




Dimension not in drawings, provided by Jordi


Conclusions
Body G4Tubs
Length $=1481$ (body) $+41.5+77.5$ (flanges) $+2 \times 193$ (endcaps) $=1986$
Important note
The Body is implemented as a G4Tubs with the real Body cylinder plus the flanges plus the endcap cilindrical part.

Flange + endcap lengths are added to
 the Body

Approximate endcap-gate distance


Calibration ports
TP


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
$45^{\circ}$


Calibration ports


Steel tube with air, Thickness $=1.2 \mathrm{~mm}$ Radious = 4 mm

