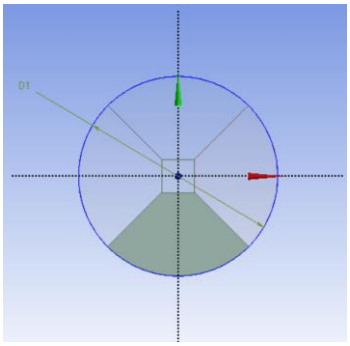
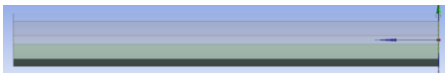
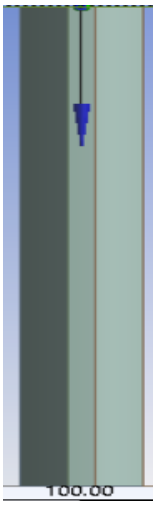
Q1)Meshthegeometry

FRONTVIEW







MeshingDetails

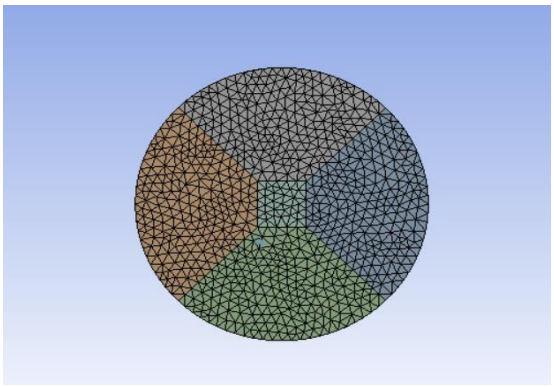
1. MeshingMethods=Tetrahedrons(PatchConforming)
2. BodySizing

3.ElementSize=2mm

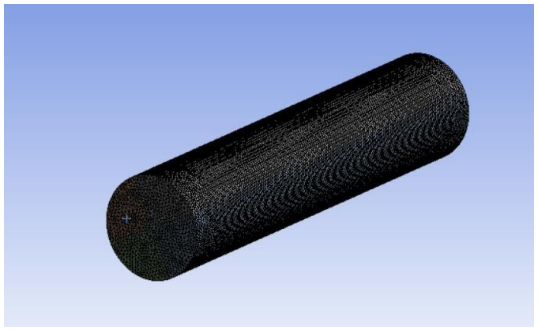
Inflation layer

1. Maxlayer=10
2. Growth-rate=1.2

Imagesaftermeshing



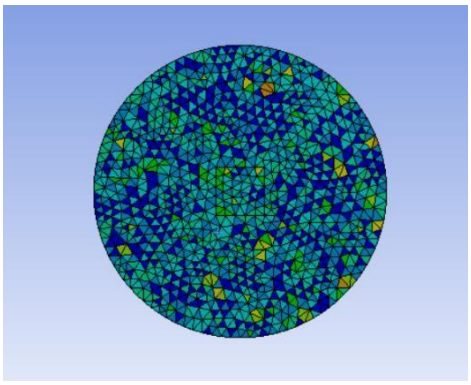
FRONTVIEW



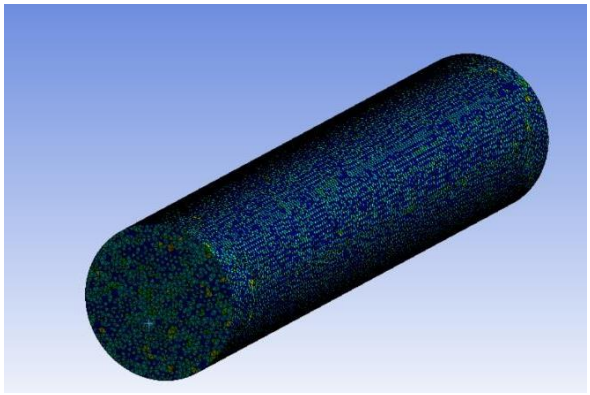
ISOMETRICVIEW

Mesh quality parameter (Graphs of Skewness, Element quality, OrthogonalQuality)

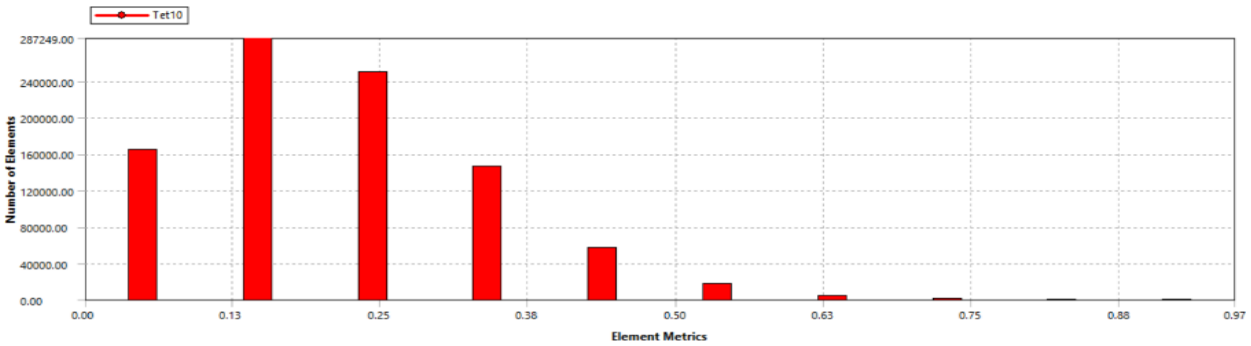
1. SKEWNESS



TOPVIEW

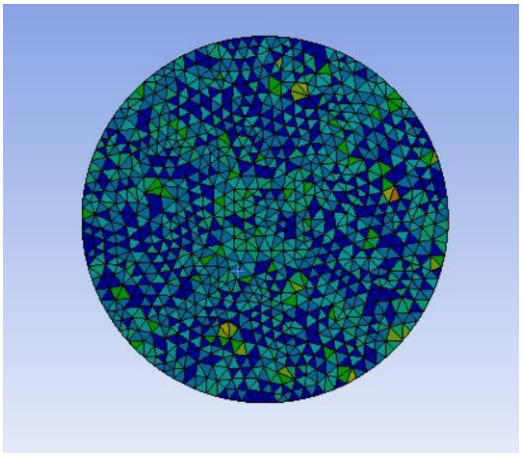


ISOMETRICVIEW

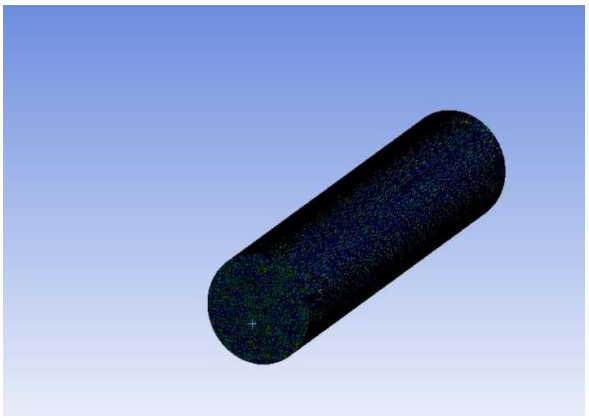


GRAPHOFSKEWNESS

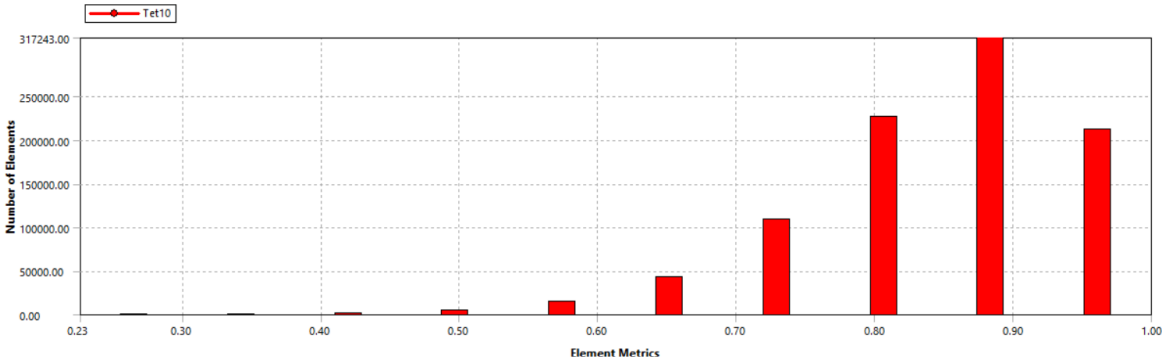
2. ELEMENTQUALITY



TOPVIEW

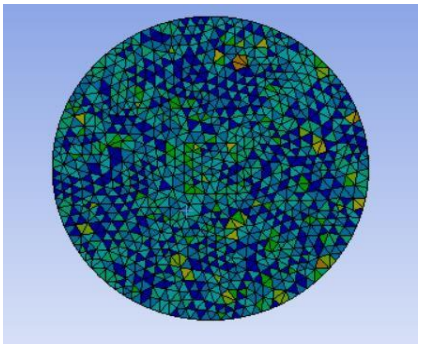


ISOMETRICVIEW

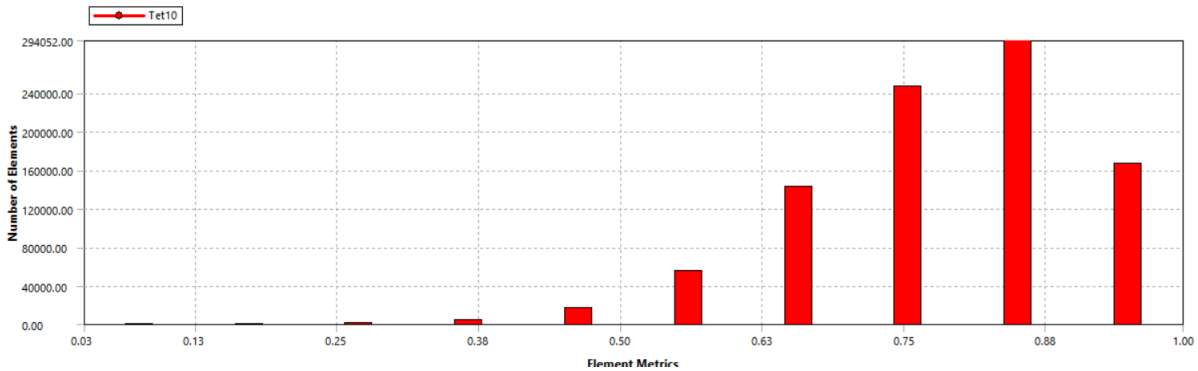


GRAPHOFELEMENTQUALITY

3. ORTHOGONALQUALITY



TOPVIEW

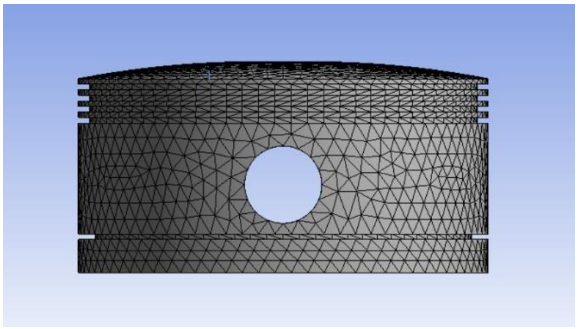


GRAPHOFORTHOGONALQUALITY

Q2)Staticstructuralanalysis

MeshingDetails

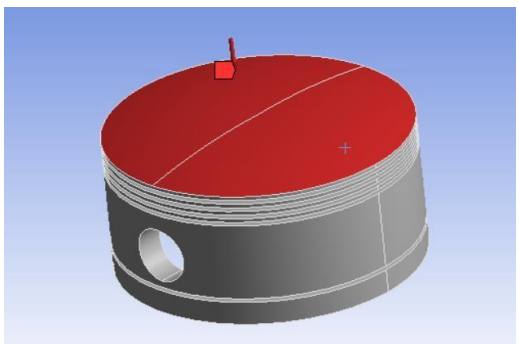
- MeshingMethods=Automatic
- BodySizing
- ElementSize=3mm

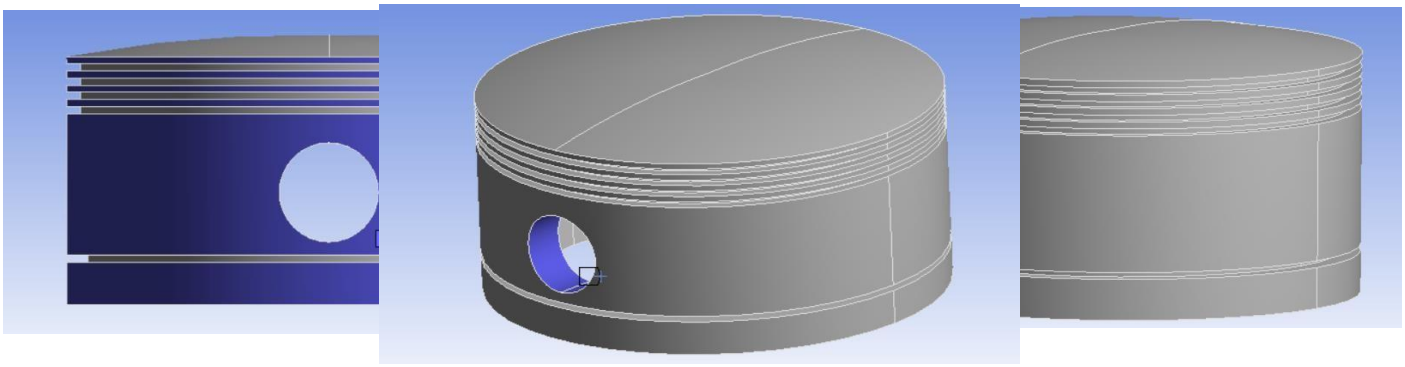


BoundaryCondition

- Material–StructuralSteel
- Pressure 5Mpa
- Frictionlesssupport

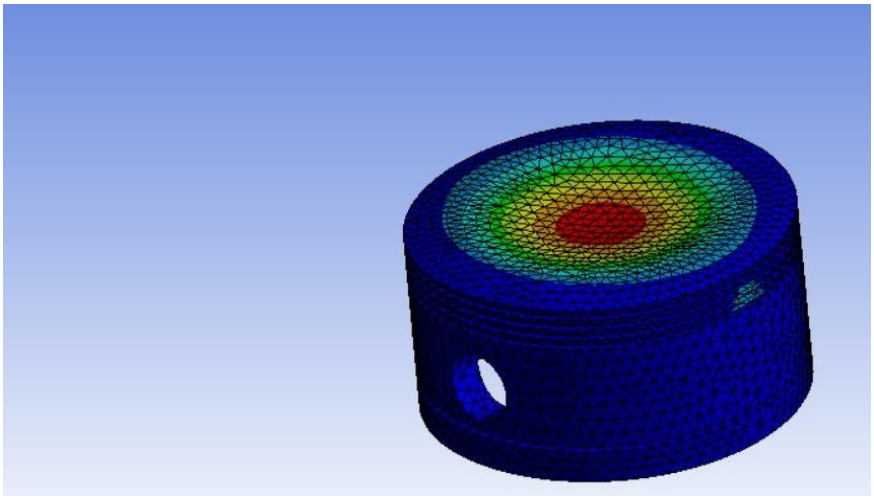
PRESSUREAPPLIED





FRICTIONLESSSUPPORTS

1. Totaldeformation



2. Directionaldeformation