Lampiran

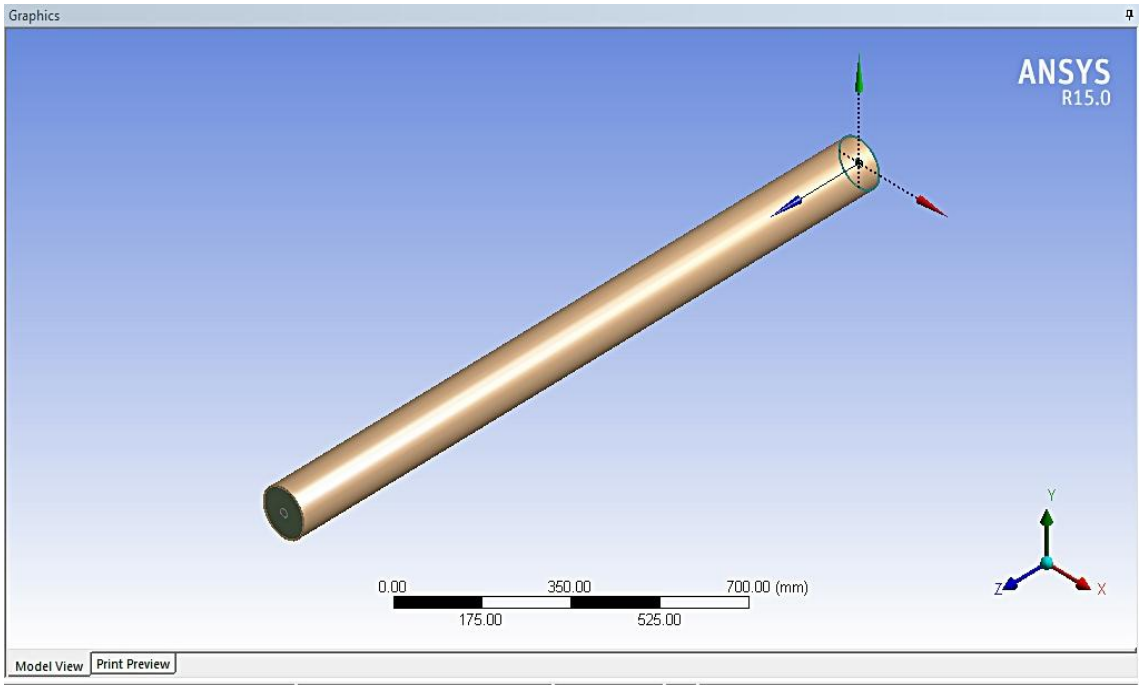
Parameter yang dimiliki

No	$\dot{m}_{tot}$	$\dot{m}_l$	$\dot{m}_{st}$	x	A	Ql	Qst	j_l	j_g
	Steam masuk	kondensat	*Steam*	kualitas *Steam*	luas	debit kondensat	debit *Steam*	kec. Superficial air pendingin	kec. Superficial *Steam*
	kg/s	kg/s	kg/s		m^2	m^3/s	m^3/s	m/s	m/s
1	0,0064	0,0050	0,00141	0,22	0,0089	0,00449	0,0013	0,5041	0,1409
2	0,0088	0,0061	0,00269	0,31	0,0089	0,00544	0,0024	0,6112	0,2697
3	0,0111	0,0052	0,00593	0,53	0,0089	0,00465	0,0053	0,5219	0,5949
4	0,0143	0,0054	0,00892	0,62	0,0089	0,00478	0,0080	0,5374	0,8940
5	0,0158	0,0051	0,01073	0,68	0,0089	0,00457	0,0096	0,5132	1,0755
6	0,0237	0,0051	0,01857	0,78	0,0089	0,00457	0,0166	0,5133	1,8620

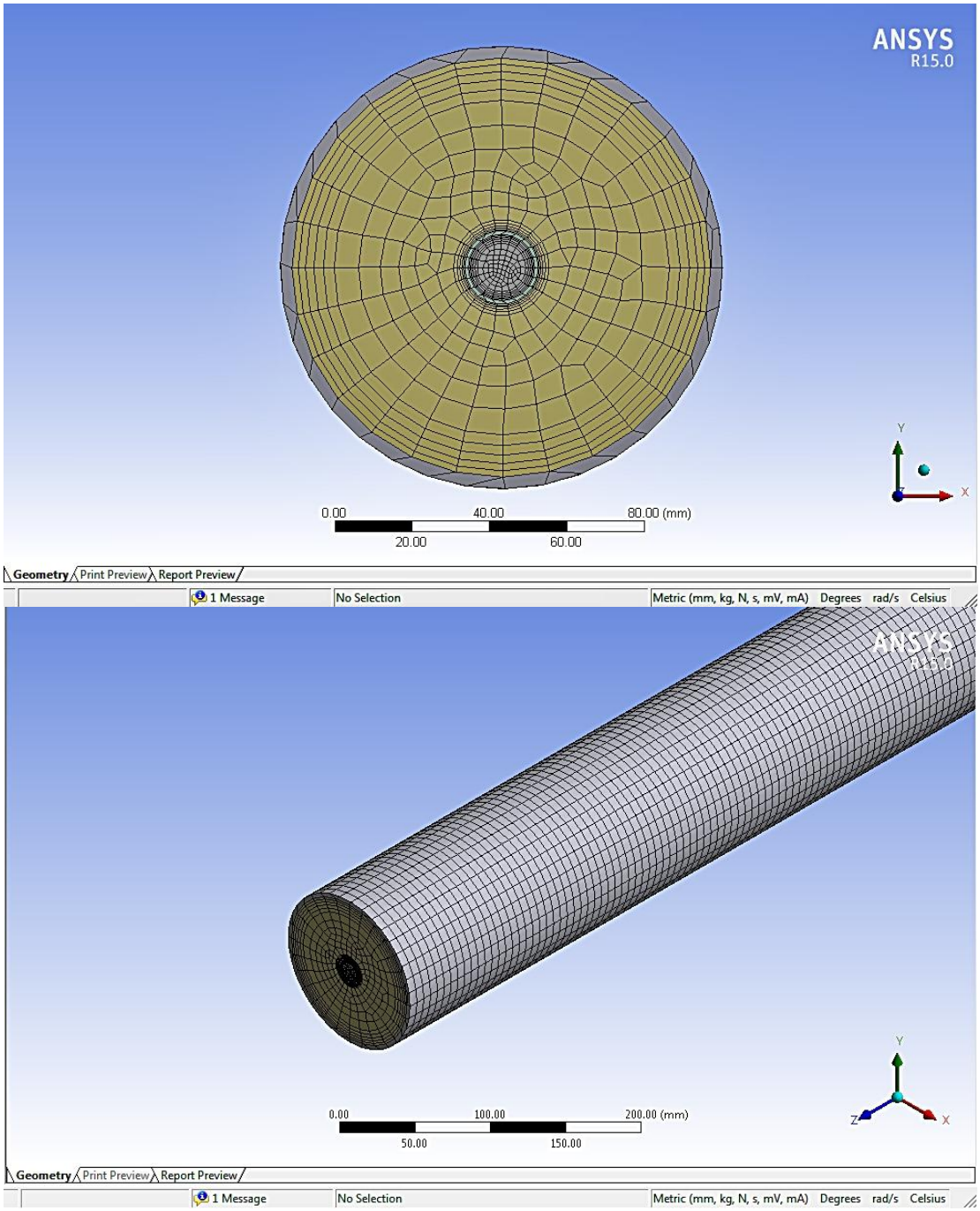
Nilai Tekanan Pada Pipa Uap

Data Beda Tekanan Manometer (Pa)	47.633,88	43.843,78	42.490,43	42.476,8	43.199,33	43.629,9
Tekanan Inlet (Pa)	108.825	108.825	108.825	108.825	108.825	108.825
Tekanan Outlet (Pa)	61.191,12	64.981,22	66.334,57	66.348,2	65.625,67	65.195,1

Geometri Benda



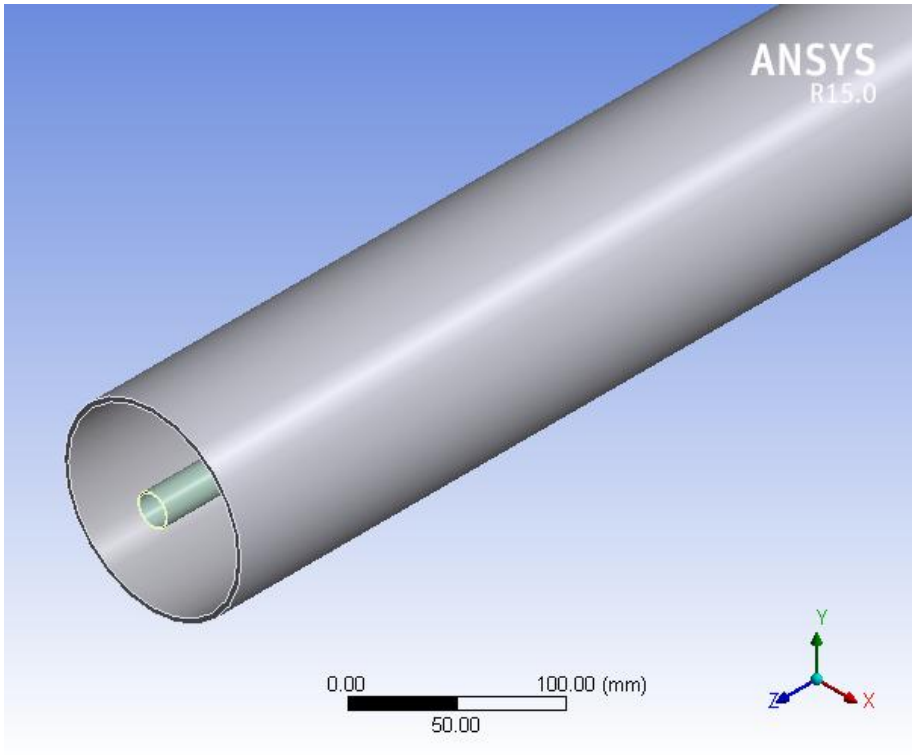
Meshing


ANSYS
R15.0
0.00
40.00
80.00 (mm)
20.00
60.00
Y
Z
X
Geometry
Print Preview
Report Preview
1 Message
No Selection
Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius
0.00
100.00
200.00 (mm)
50.00
150.00

Report Meshing

Project

First Saved	Tuesday, March 01, 2016
Last Saved	Monday, August 08, 2016
Product Version	15.0 Release
Save Project Before Solution	No
Save Project After Solution	No



Contents

Units

TABLE 1

Unit System	Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

Model (A3)

Geometry

TABLE 2
Model (A3) > Geometry

Object Name	*Geometry*
State	Fully Defined
Definition	
Source	D:\SKRIPSI\Data Fluent 6-13\9.3 jgjl les wale_files\dp0\FFF\DM\FFF.agdb
Type	DesignModeler
Length Unit	Meters
Bounding Box	
Length X	114.3 mm
Length Y	114.3 mm
Length Z	1600. mm
Properties	
Volume	1.6417e+007 mm³
Scale Factor Value	1.

Statistics	
Bodies	4
Active Bodies	4
Nodes	163250
Elements	159360
Mesh Metric	None
Basic Geometry Options	
Parameters	Yes
Parameter Key	DS
Attributes	No
Named Selections	No
Material Properties	No
Advanced Geometry Options	
Use Associativity	Yes
Coordinate Systems	No
Reader Mode Saves Updated File	No
Use Instances	Yes
Smart CAD Update	No
Compare Parts On Update	No
Attach File Via Temp File	Yes
Temporary Directory	C:\Users\Haris\AppData\Local\Temp
Analysis Type	3-D
Decompose Disjoint Geometry	Yes
Enclosure and Symmetry Processing	No

TABLE 3
Model (A3) > Geometry > Body Groups

Object Name	*Part*
State	Meshed
Graphics Properties	
Visible	Yes
Definition	
Suppressed	No
Coordinate System	Default Coordinate System
Bounding Box	
Length X	114.3 mm
Length Y	114.3 mm
Length Z	1600. mm
Properties	
Volume	1.6417e+007 mm³
Statistics	
Nodes	163250
Elements	159360
Mesh Metric	None

TABLE 4
Model (A3) > Geometry > Part >Parts

Object Name	*uap*	*copper*	*air*	*steel*
State	Meshed			
Graphics Properties				
Visible	Yes			
Transparency	0.1	1	0.1	1
Definition				
Suppressed	No			
Coordinate System	Default Coordinate System			
Reference Frame	Lagrangian			
Material				
Fluid/Solid	Defined By Geometry (Fluid)	Defined By Geometry (Solid)	Defined By Geometry (Fluid)	Defined By Geometry (Solid)
Bounding Box				
Length X	17.2 mm	19. mm	108.3 mm	114.3 mm
Length Y	17.2 mm	19. mm	108.3 mm	114.3 mm
Length Z	1600. mm			
Properties				
Volume	3.7176e+005 mm³	81882 mm³	1.4285e+007 mm³	1.6784e+006 mm³
Centroid X	9.5418e-017 mm	2.6399e-016	-3.9917e-016 mm	-5.4952e-015 mm

		mm		
Centroid Y	-2.6836e-016 mm	-9.3074e-017 mm	-6.0312e-016 mm	-9.4898e-015 mm
Centroid Z	800. mm			
Statistics				
Nodes	45250	10500	108750	16250
Elements	42330	5478	102339	9213
Mesh Metric	None			

Coordinate Systems

TABLE 5
Model (A3) > Coordinate Systems > Coordinate System

Object Name	*Global Coordinate System*
State	Fully Defined
Definition	
Type	Cartesian
Coordinate System ID	0.
Origin	
Origin X	0. mm
Origin Y	0. mm
Origin Z	0. mm
Directional Vectors	
X Axis Data	[1. 0. 0.]
Y Axis Data	[0. 1. 0.]
Z Axis Data	[0. 0. 1.]

Connections

TABLE 6
Model (A3) > Connections

Object Name	*Connections*
State	Fully Defined
Auto Detection	
Generate Automatic Connection On Refresh	Yes
Transparency	
Enabled	Yes

TABLE 7
Model (A3) > Connections > Contacts

Object Name	*Contacts*
State	Fully Defined
Definition	
Connection Type	Contact

Scope	
Scoping Method	Geometry Selection
Geometry	All Bodies
Auto Detection	
Tolerance Type	Slider
Tolerance Slider	0.
Tolerance Value	4.0204 mm
Use Range	No
Face/Face	Yes
Face/Edge	No
Edge/Edge	No
Priority	Include All
Group By	Bodies
Search Across	Bodies

Mesh

TABLE 8
Model (A3) > Mesh

Object Name	*Mesh*
State	Solved
Defaults	
Physics Preference	CFD
Solver Preference	Fluent
Relevance	0
Sizing	
Use Advanced Size Function	On: Curvature
Relevance Center	Medium
Initial Size Seed	Active Assembly
Smoothing	Medium
Transition	Slow
Span Angle Center	Fine
Curvature Normal Angle	Default (18.0 °)
Min Size	Default (0.400780 mm)
Max Face Size	Default (40.0780 mm)
Max Size	Default (80.1560 mm)
Growth Rate	Default (1.20)
Minimum Edge Length	54.0350 mm
Inflation	
Use Automatic Inflation	None
Inflation Option	Smooth Transition
Transition Ratio	0.272
Maximum Layers	5
Growth Rate	1.2

Inflation Algorithm	Pre
View Advanced Options	No
Assembly Meshing	
Method	None
Patch Conforming Options	
Triangle Surface Mesher	Program Controlled
Patch Independent Options	
Topology Checking	Yes
Advanced	
Number of CPUs for Parallel Part Meshing	Program Controlled
Shape Checking	CFD
Element Midside Nodes	Dropped
Straight Sided Elements	
Number of Retries	0
Extra Retries For Assembly	Yes
Rigid Body Behavior	Dimensionally Reduced
Mesh Morphing	Disabled
Defeaturing	
Pinch Tolerance	Default (0.36070 mm)
Generate Pinch on Refresh	No
Automatic Mesh Based Defeaturing	On
Defeaturing Tolerance	Default (0.200390 mm)
Statistics	
Nodes	163250
Elements	159360
Mesh Metric	None

TABLE 9
Model (A3) > Mesh > Mesh Controls

Object Name	*Inflation*	*Inflation 2*	*Inflation 3*
State	Fully Defined		
Scope			
Scoping Method	Geometry Selection		
Geometry	1 Face		
Definition			
Suppressed	No		
Boundary Scoping Method	Geometry Selection		
Boundary	1 Edge		
Inflation Option	Smooth Transition		
Transition Ratio	Default (0.272)		
Maximum Layers	5		
Growth Rate	1.2		
Inflation Algorithm	Pre		

Named Selections

TABLE 10
Model (A3) > Named Selections > Named Selections

Object Name	*inlet_uap*	*inlet_air*	*outlet_uap*	*outlet_air*	*Insulation_surface*
State	Fully Defined				
Scope					
Scoping Method	Geometry Selection				
Geometry	1 Face				
Definition					
Send to Solver	Yes				
Visible	Yes				
Program Controlled Inflation	Exclude				
Statistics					
Type	Manual				
Total Selection	1 Face				
Suppressed	0				
Used by Mesh Worksheet	No				