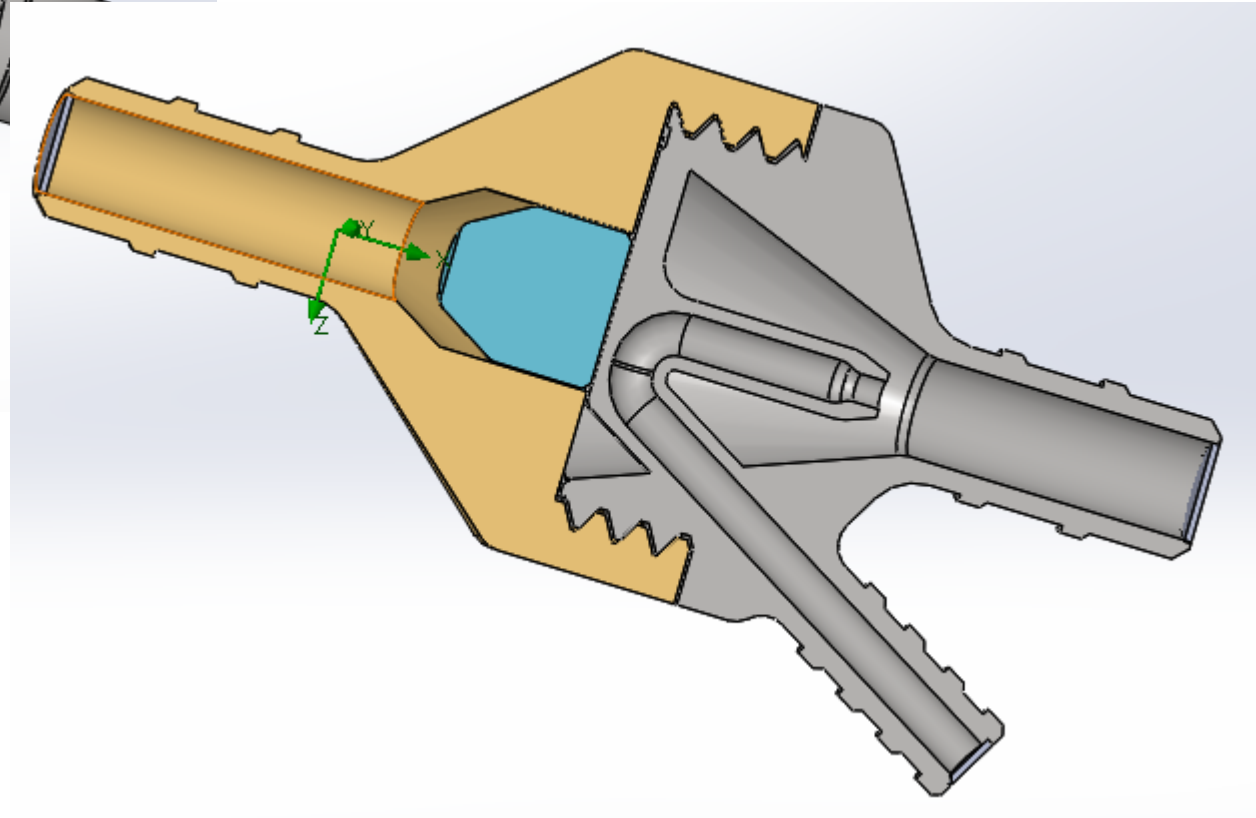
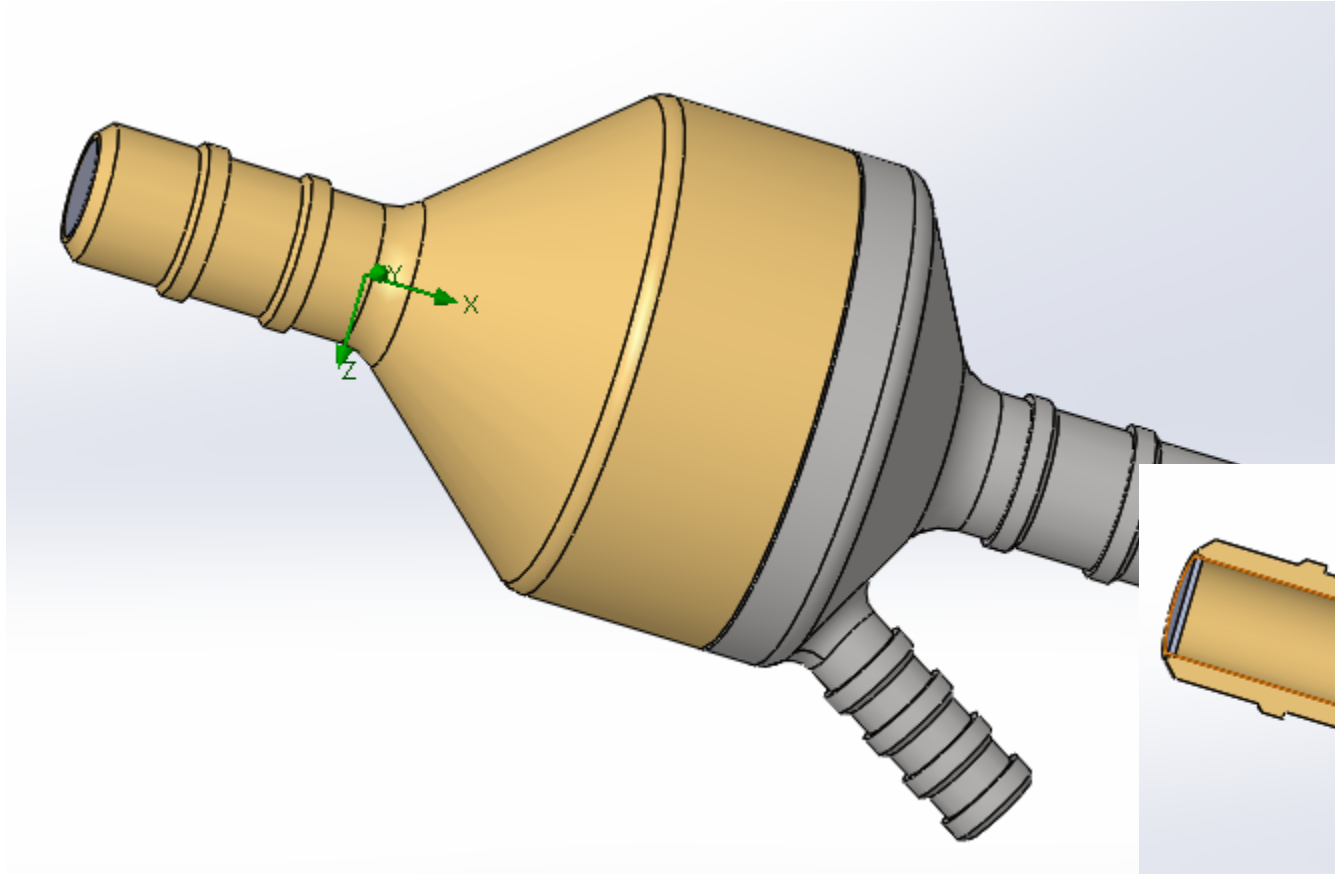
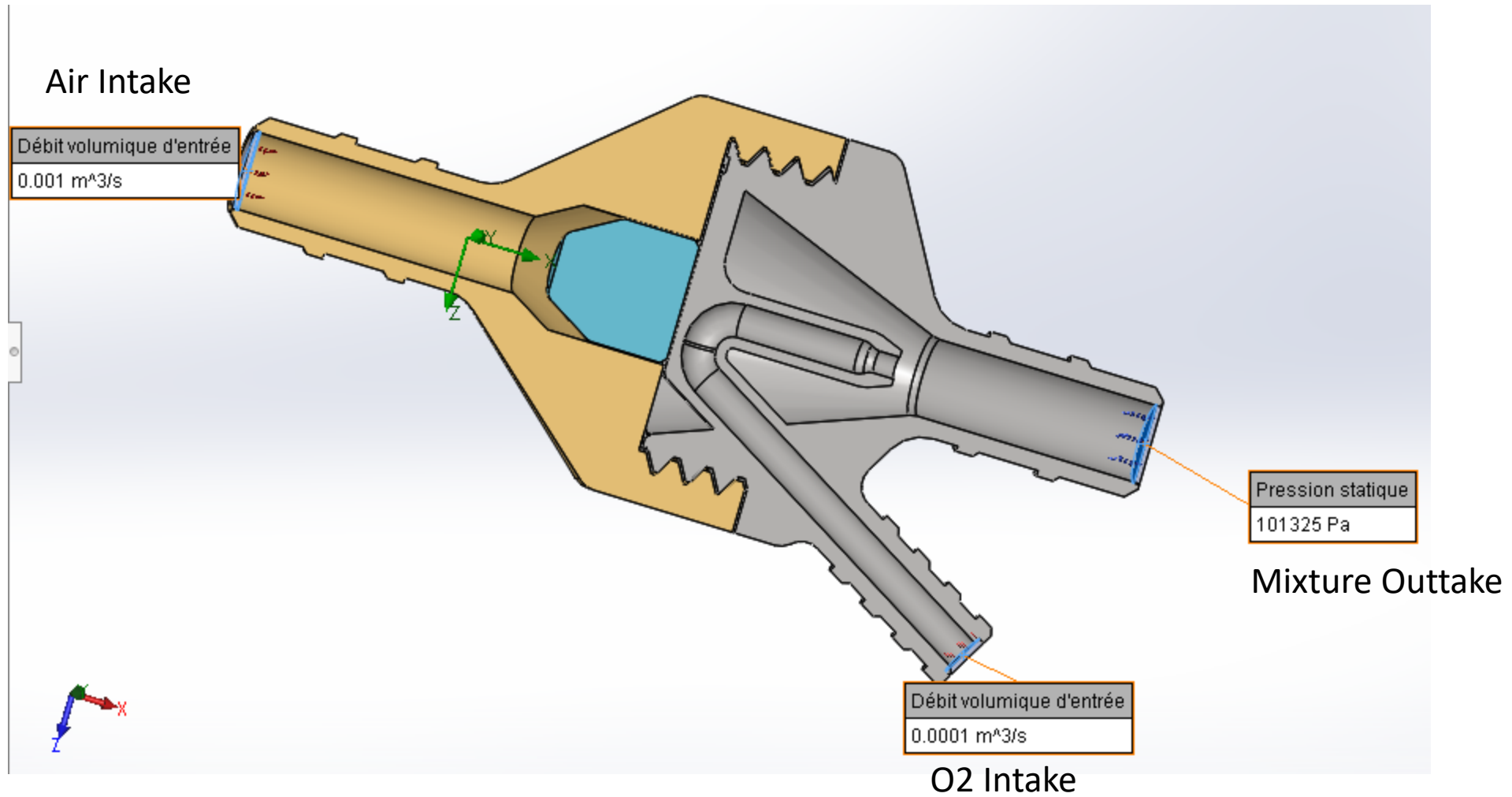


Geometry:

Oxygen Mixer v6_v30



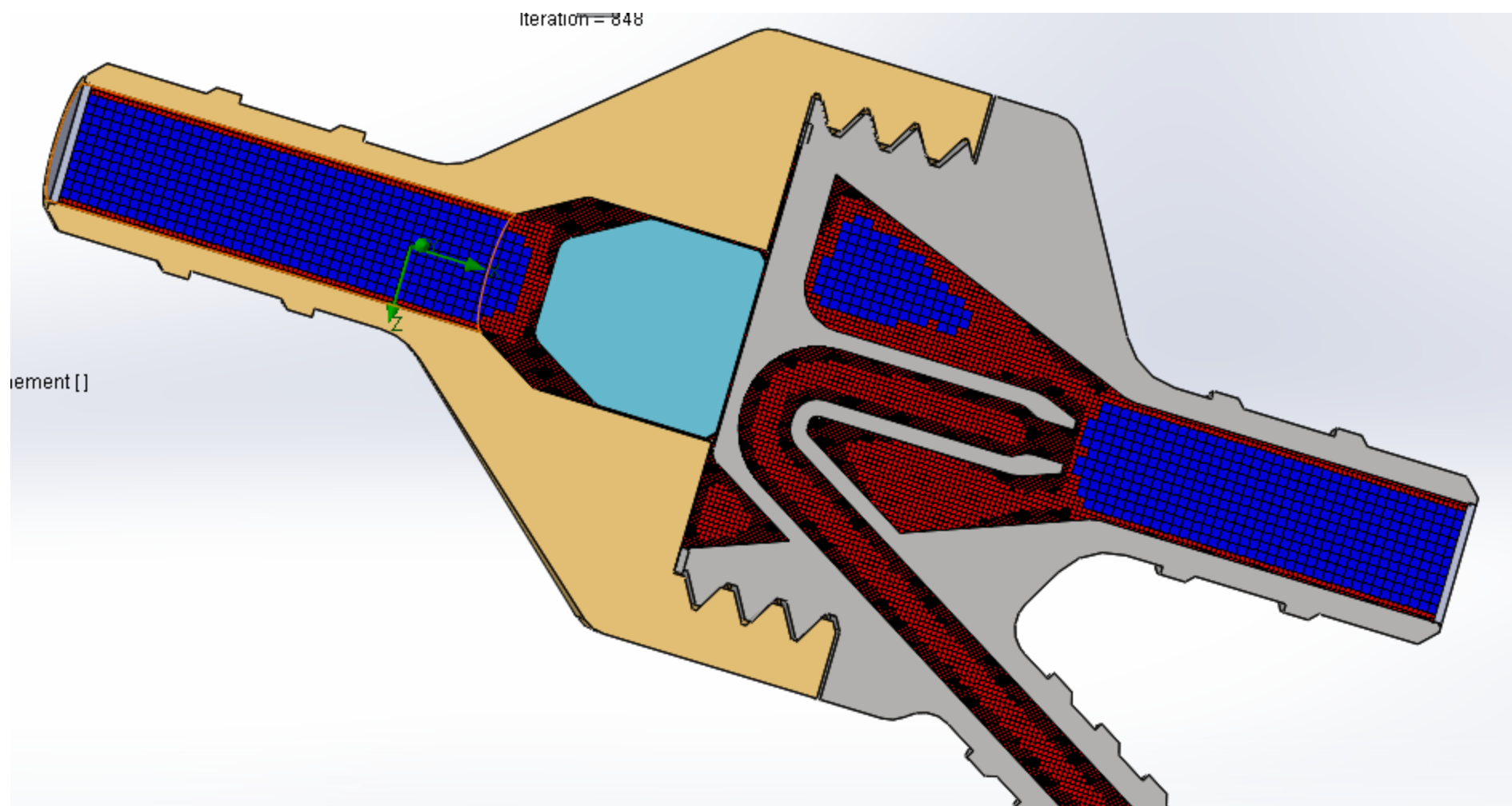
Limit Conditions



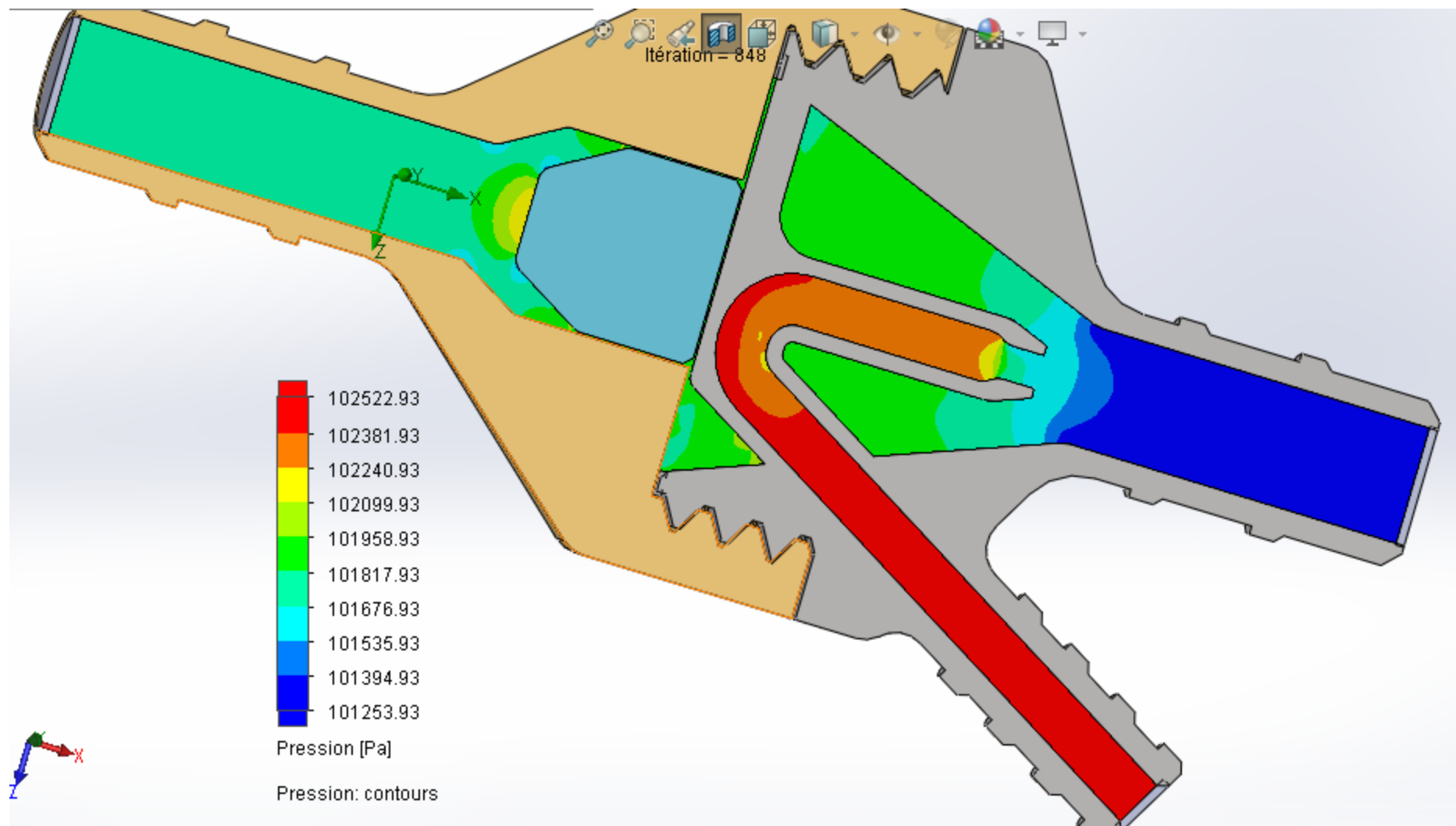
Preliminary Analysis

	Air Intake	O2 Intake	Mixture Outtake
Diameter	7mm	3mm	7mm
Volumetric Flow	60 L/mn	6 L/mn	66 L/mn
Reynolds	3 000	12 000	13 500

Grid = 950 000 cells



Results: Pressure



Results: Pressure

Air Intake

Paramètre local	Minimum	Maximum	Moyenne	Moyenne pondérée	Superficie [m ²]		Paramètre intégral	Valeur	C
Pression [Pa]	101763.75	101789.26	101770.33	101770.33	3.8440e-05		Débit volumique [m ³ /s]	0.0010	

Pair – Pout = 445 Pa

O2 Intake

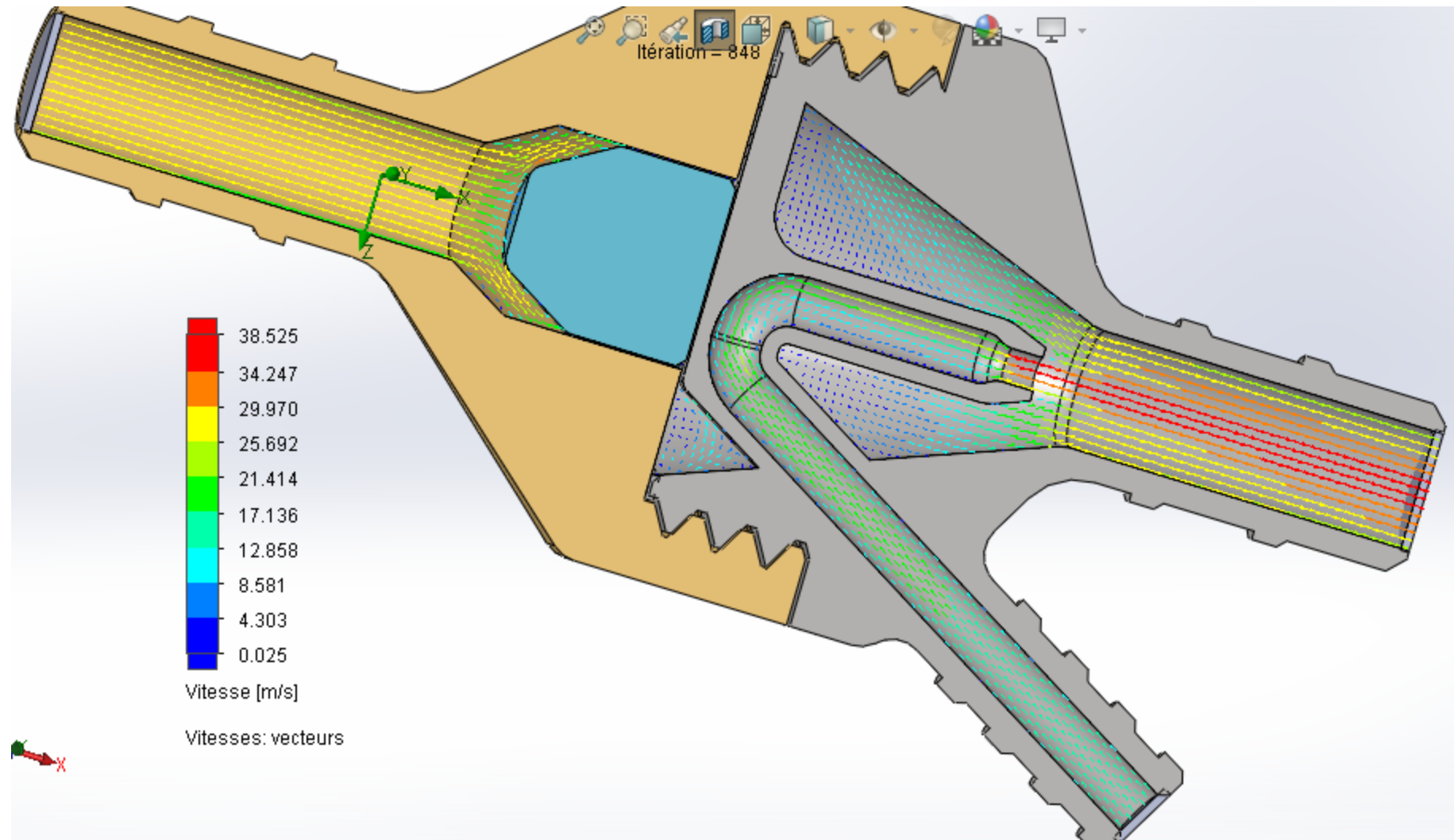
Paramètre local	Minimum	Maximum	Moyenne	Moyenne pondérée	Superficie [m ²]		Paramètre intégral	Valeur	C
Pression [Pa]	102503.70	102519.90	102507.54	102507.54	7.0590e-06		Débit volumique [m ³ /s]	1.0000e-04	

PO2 – Pout = 1183 Pa

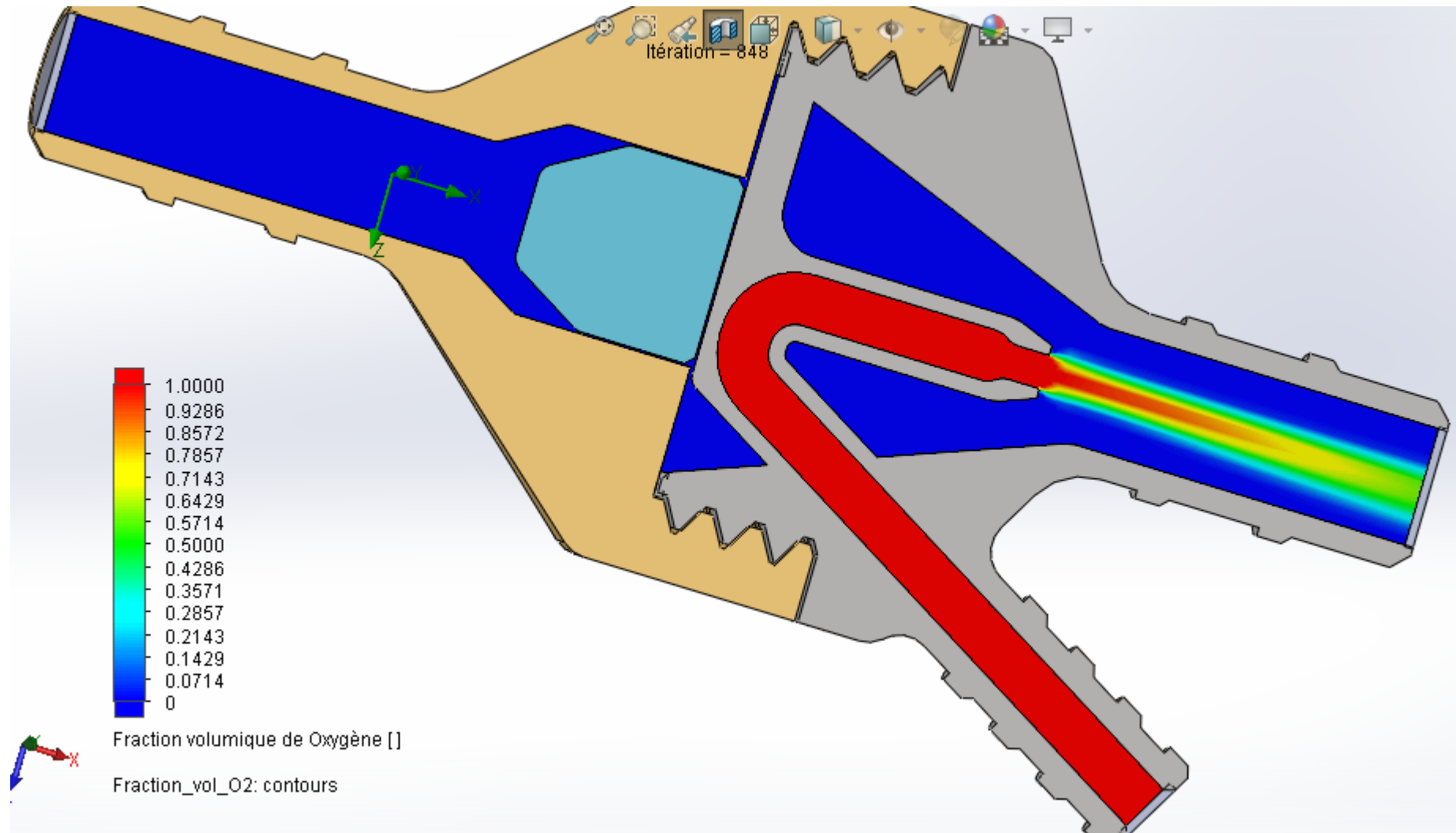
Mixture Exhaust

Paramètre local	Minimum	Maximum	Moyenne	Moyenne pondérée	Superficie [m ²]		Paramètre intégral	Valeur
Pression [Pa]	101325.00	101325.00	101325.00	101325.00	3.8440e-05		Débit volumique [m ³ /s]	-0.0011

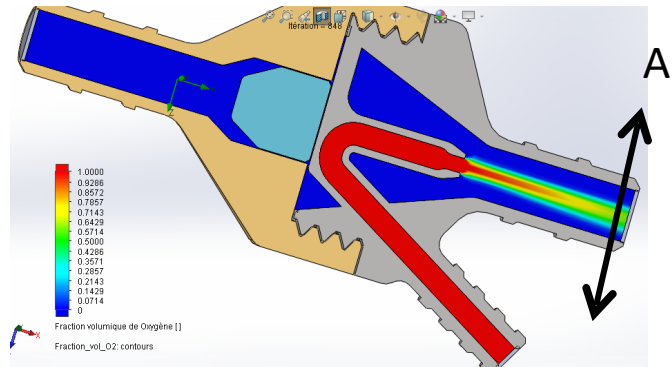
Results: Speed



Results: Volume Fraction of O₂

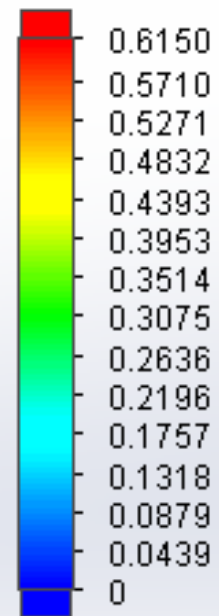


Beware: this does not show the O₂ volume percentage in the mixture (the O₂ contents in air is not being accounted for there)



Results: Volume Fraction of O2

Cut-Off View



Fraction volumique de Oxygène []

Fraction_vol_O2: contours

Plan de visualisation 4: contours

