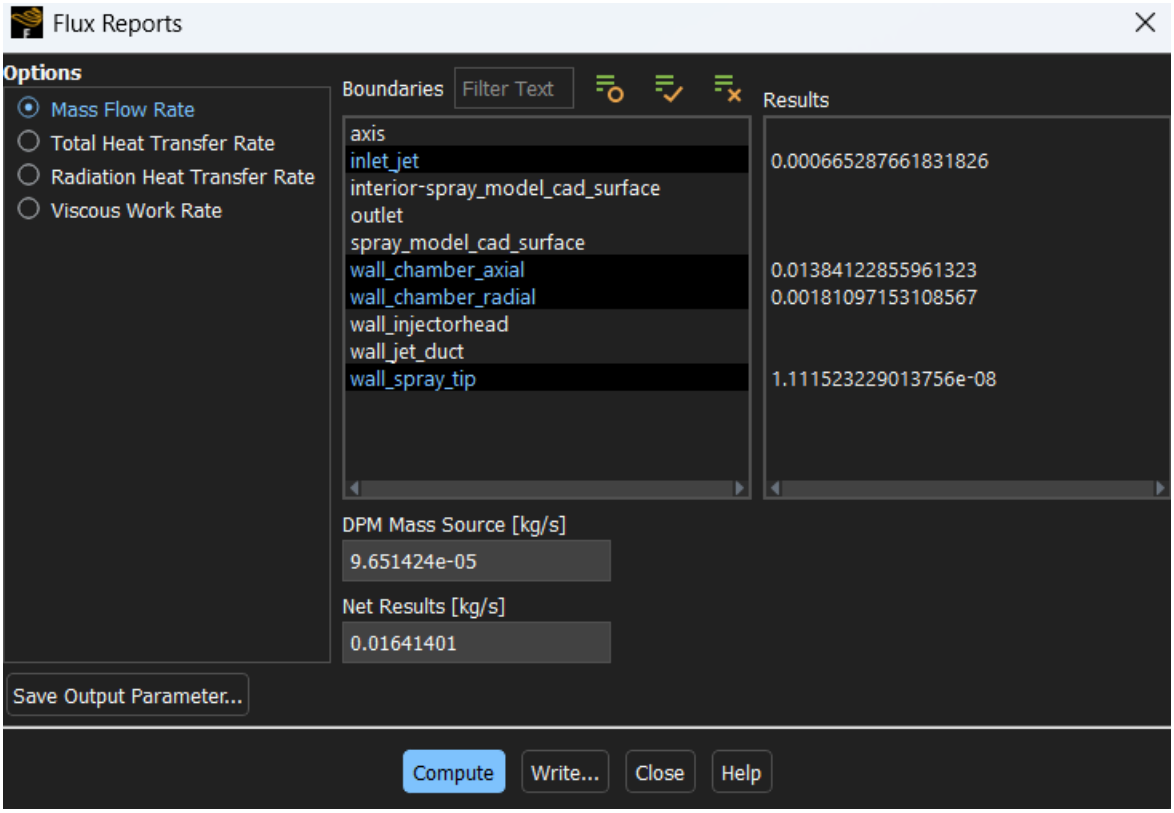
A12 - DPM modeling

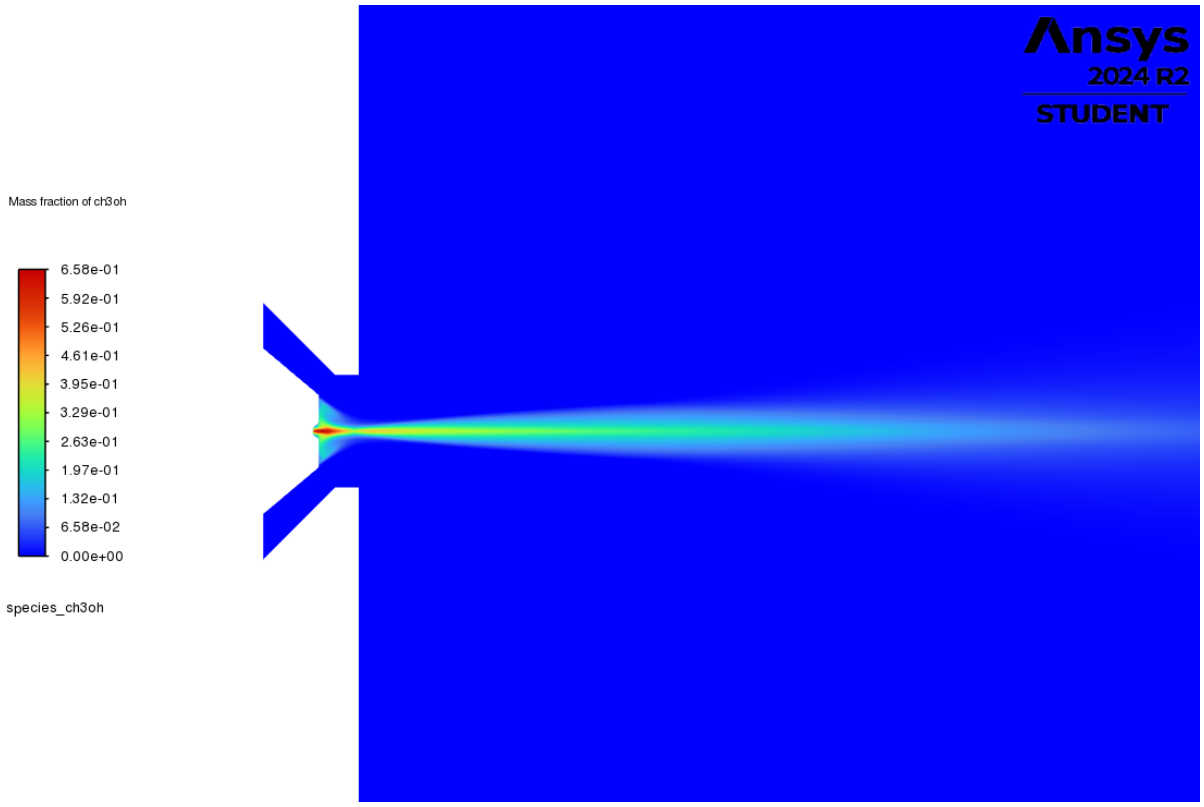
Name: Aditya Nilesh Dhamne

Roll No.: 24M0011

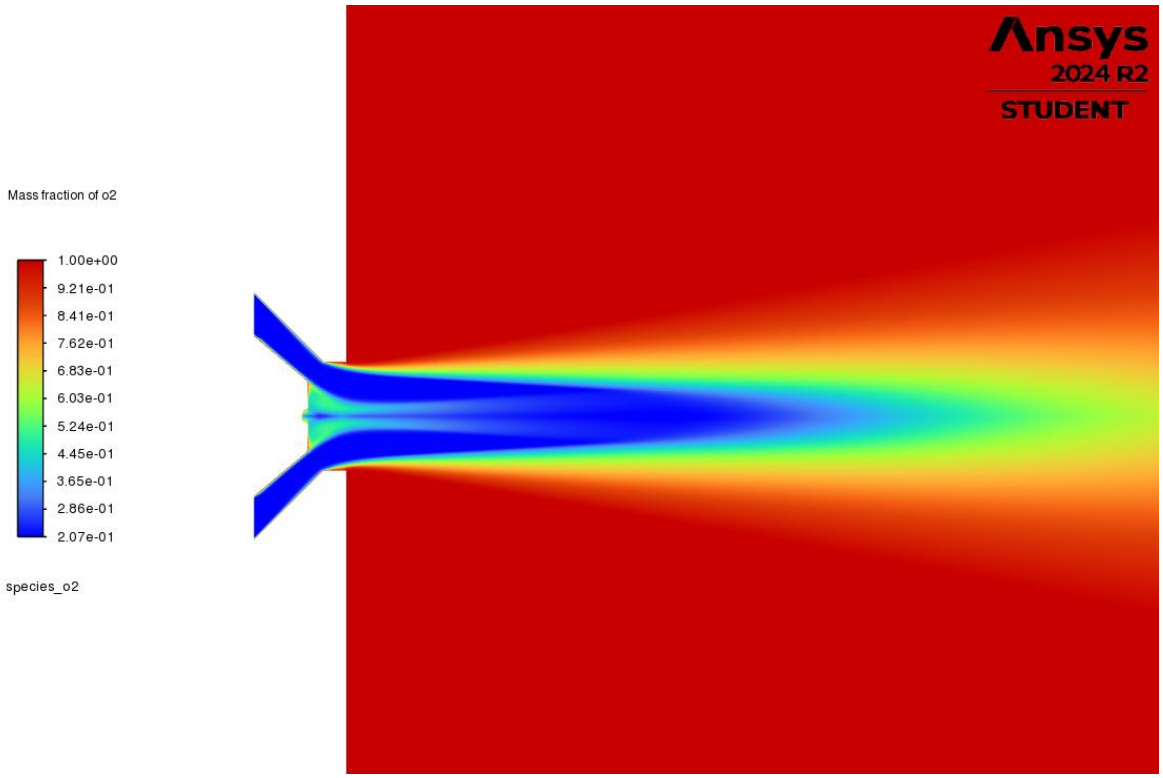
Flux Reports



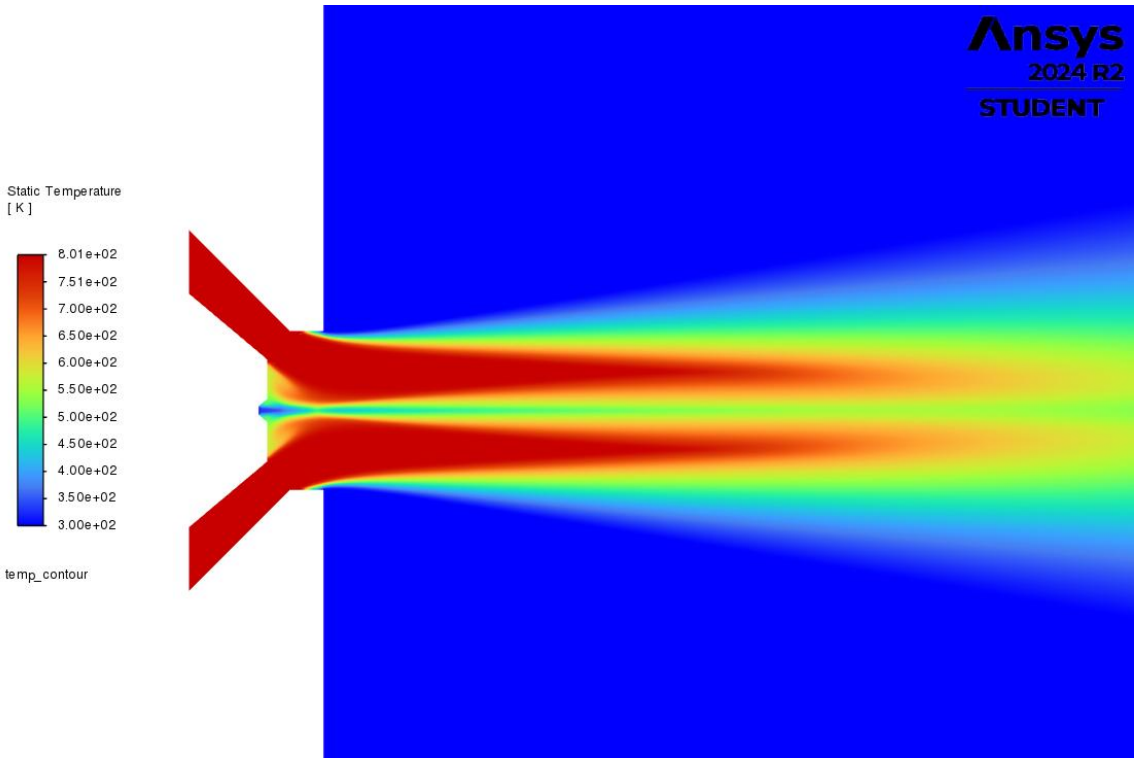
Mass Fraction of ch3oh:



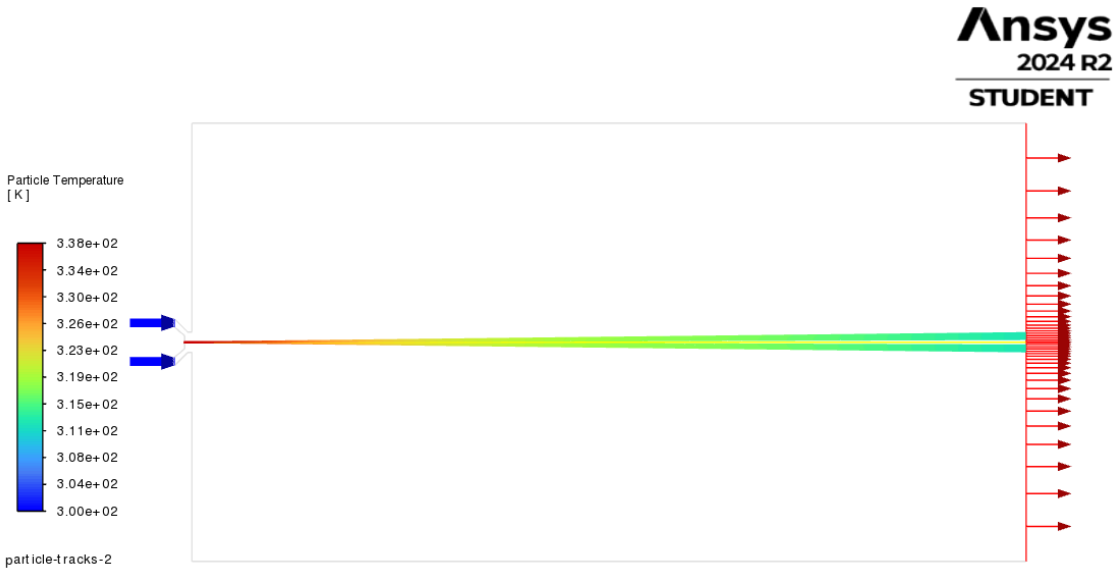
Mass Fraction of o2:



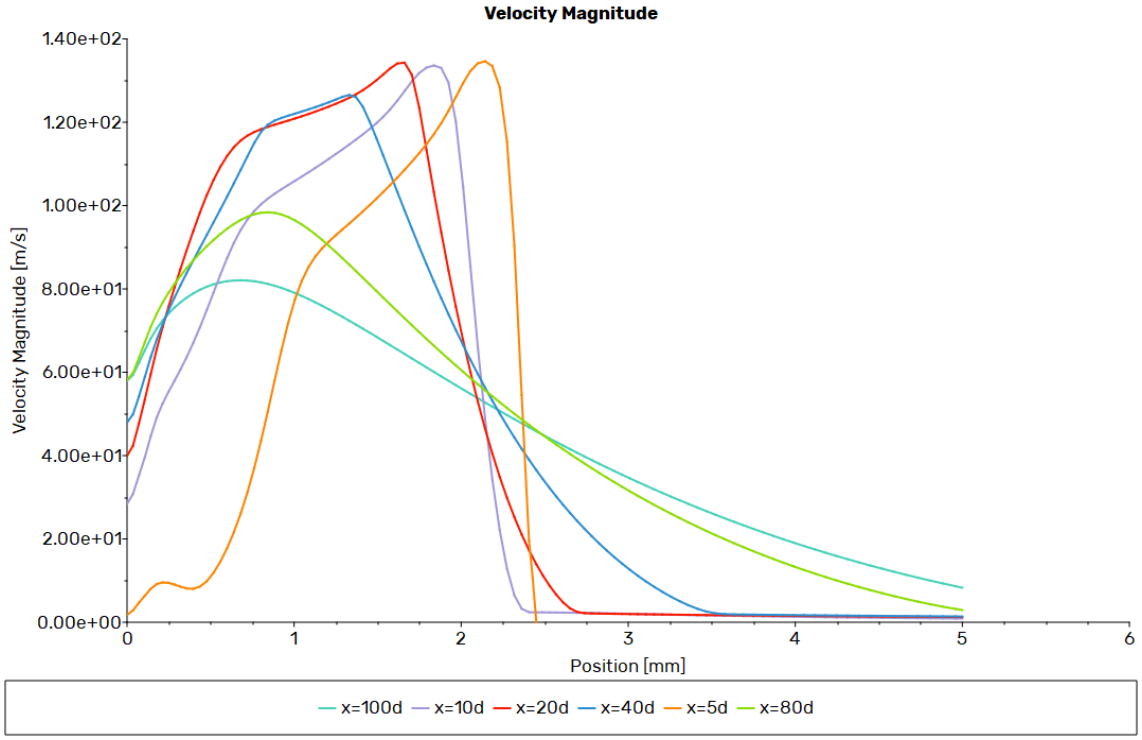
Temperature Contour



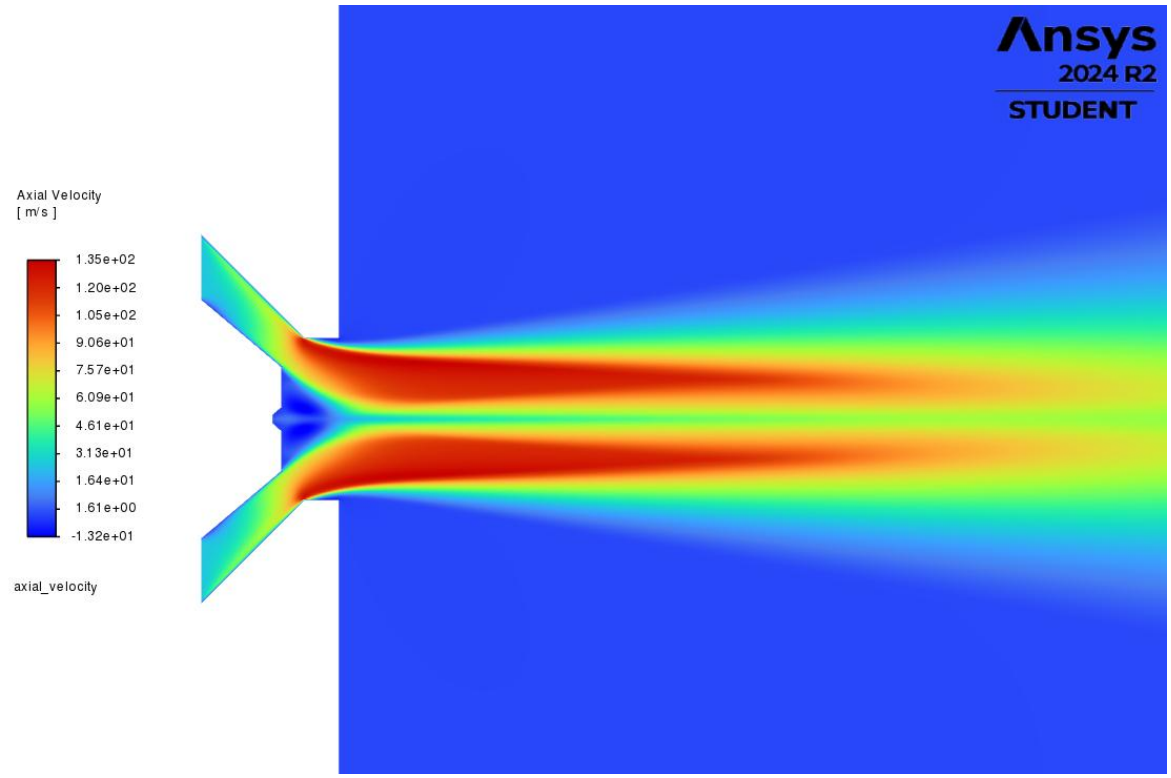
Particle Temperature:



Velocity at different x/D locations:

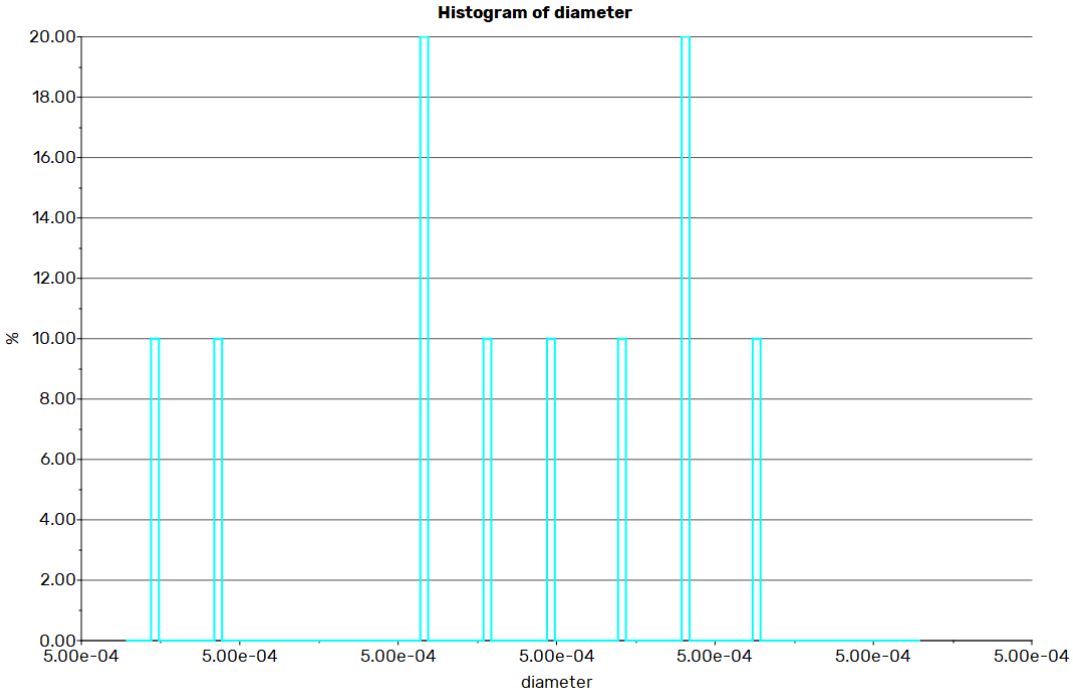


Axial Velocity:

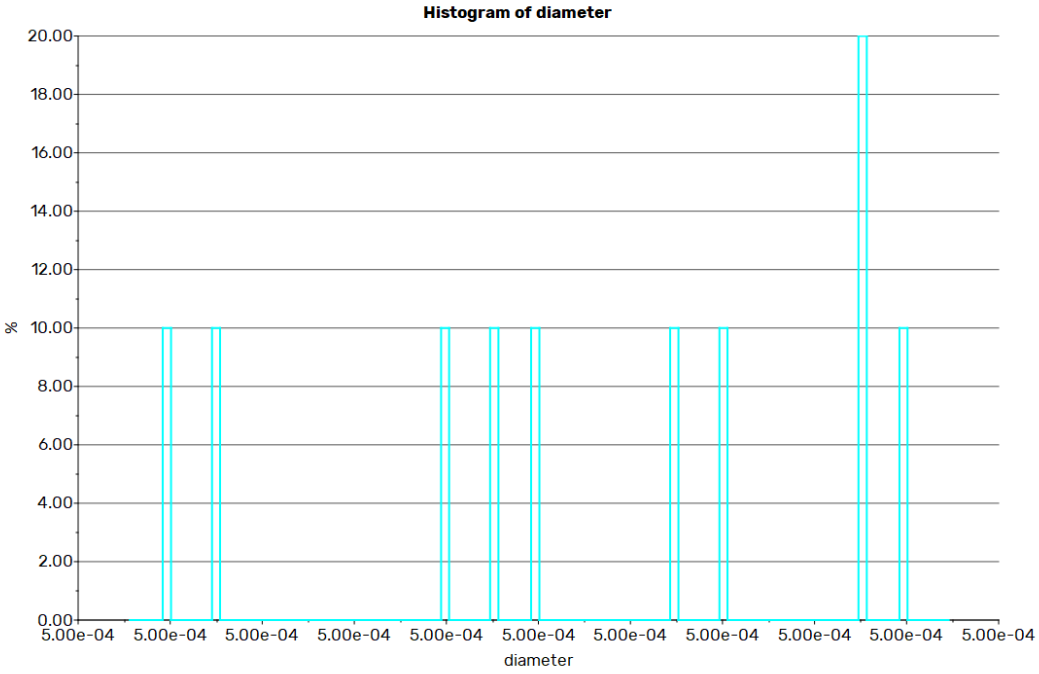


Histograms:

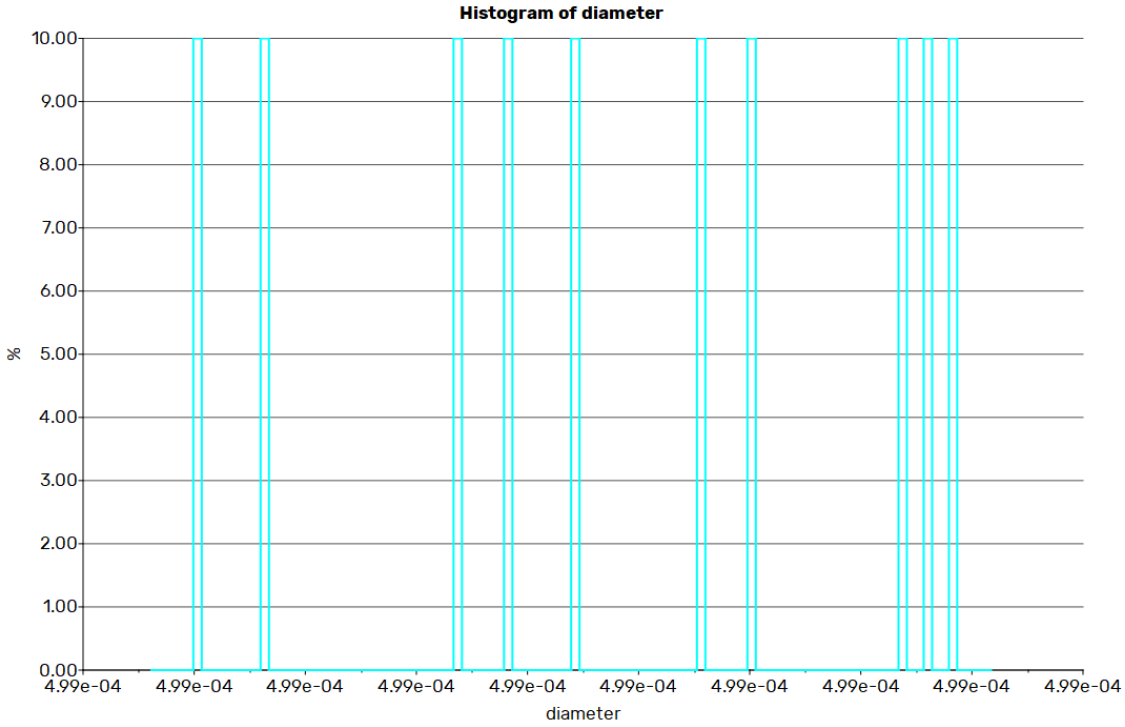
X = 5D:



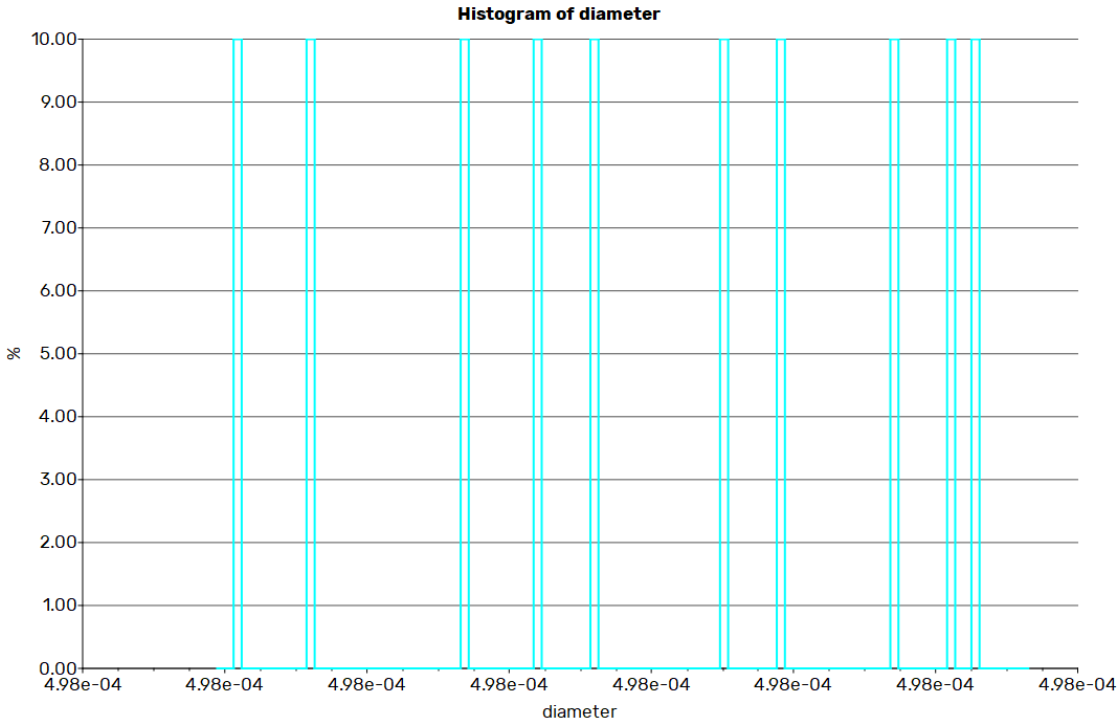
X = 10D:



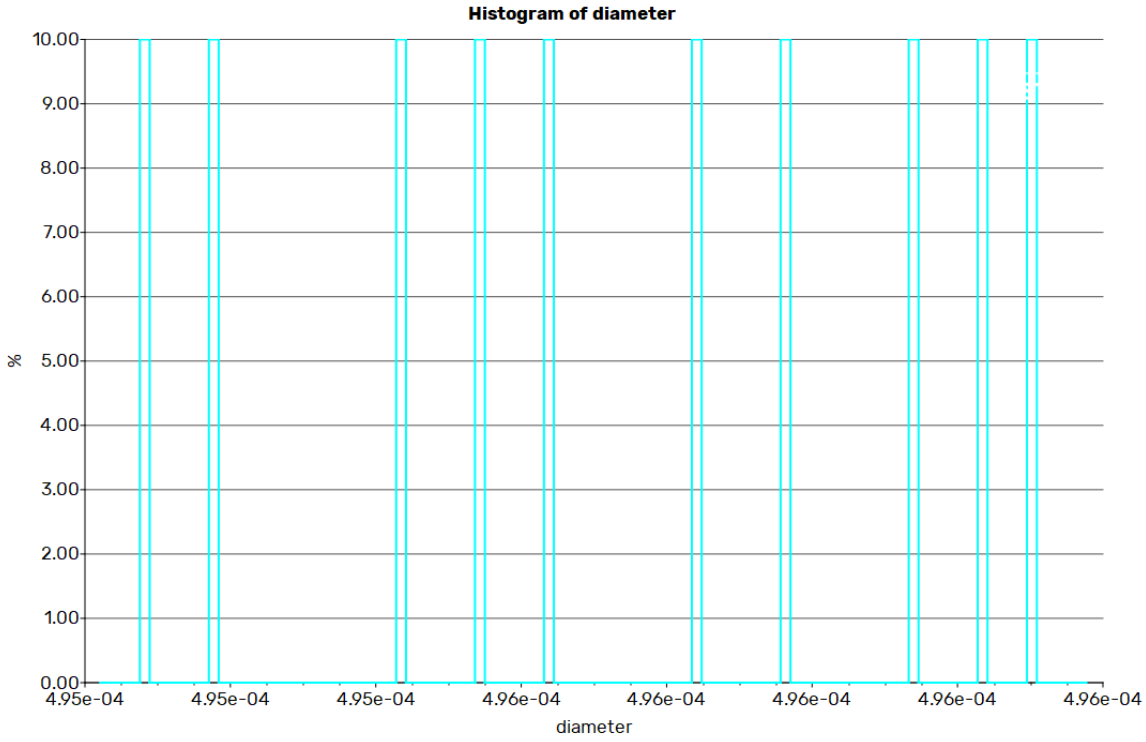
x = 20D:


Histogram of diameter
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
%
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
4.99e-04
diameter

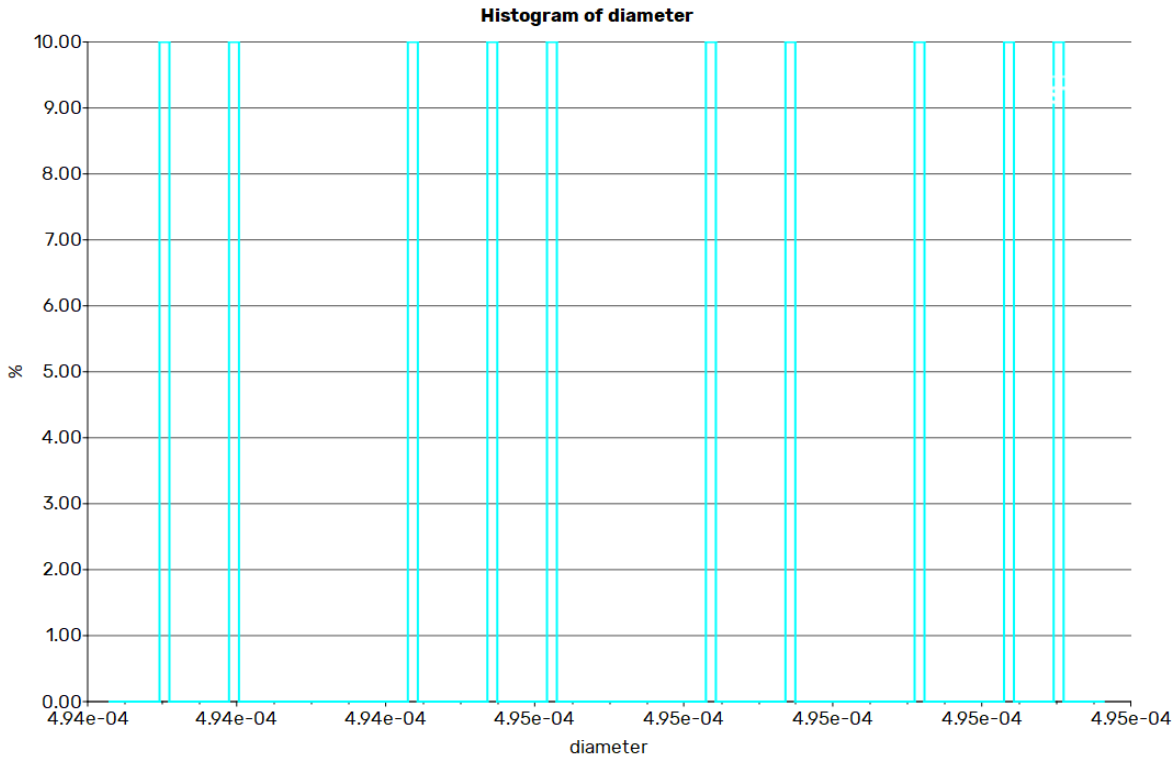
X = 40D:


Histogram of diameter
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
%
4.98e-04
4.98e-04
4.98e-04
4.98e-04
4.98e-04
4.98e-04
4.98e-04
4.98e-04
diameter

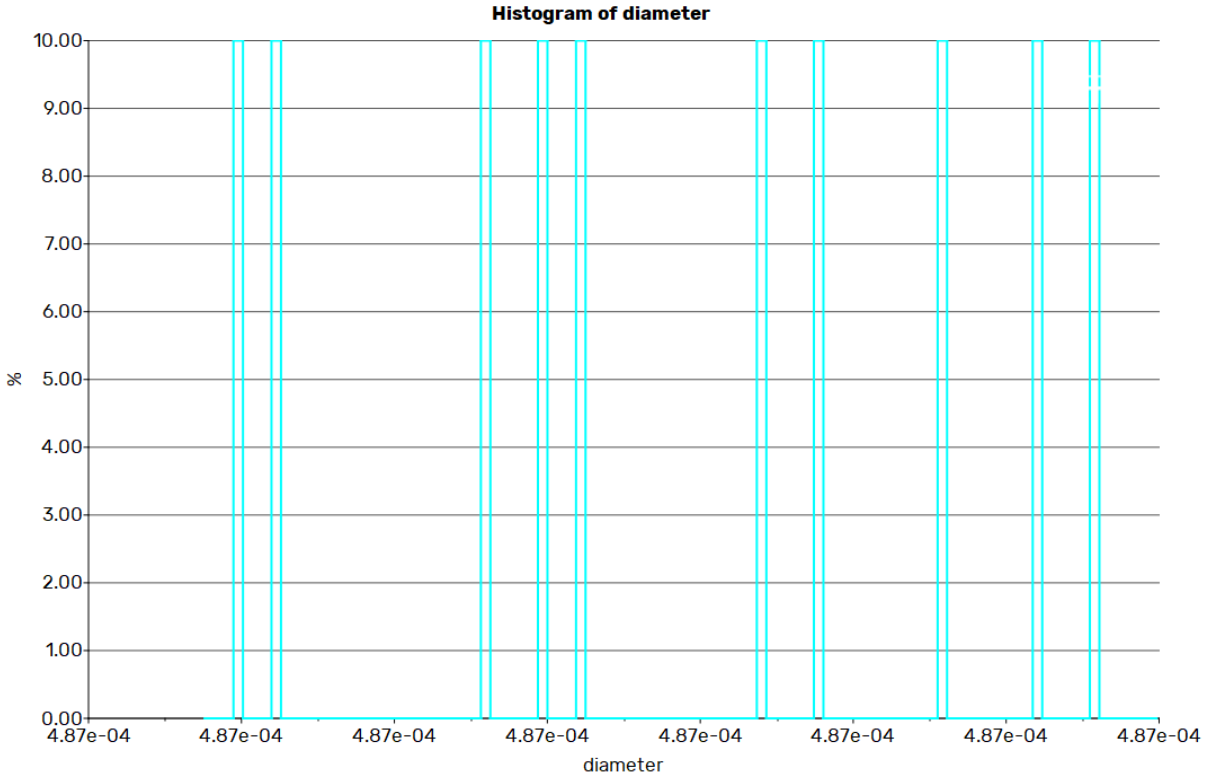
X = 80D:


Histogram of diameter
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
%
4.95e-04
4.95e-04
4.95e-04
4.96e-04
4.96e-04
4.96e-04
4.96e-04
4.96e-04
diameter

x = 100D:


Histogram of diameter
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
%
4.94e-04
4.94e-04
4.94e-04
4.95e-04
4.95e-04
4.95e-04
4.95e-04
4.95e-04
diameter

Outlet:


Histogram of diameter
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
%
4.87e-04
4.87e-04
4.87e-04
4.87e-04
4.87e-04
4.87e-04
4.87e-04
4.87e-04
diameter