

Pipe Network Simulation Report

Generated on February 04, 2026 at 10:23

Network Summary

Metric	Value
Total Nodes	10
Total Pipes	9
Source Nodes	1
Sink Nodes	6
Junction Nodes	3
Fluid Type	Single-phase
Fluid Density (kg/m³)	998.00
Fluid Viscosity (Pa-s)	0.001000

Node Results

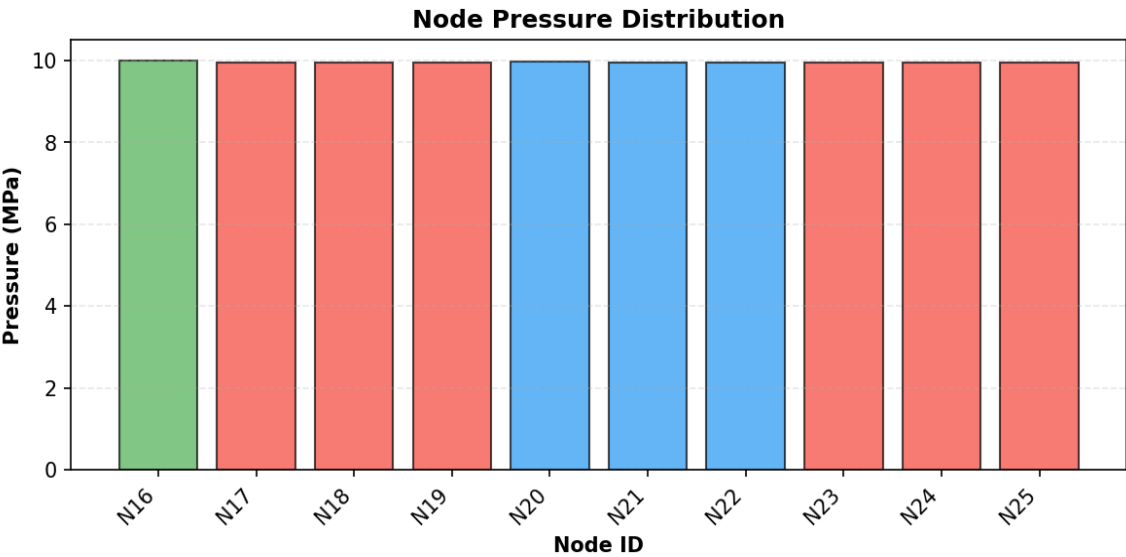
Node ID	Type	Pressure (Pa)	Pressure (MPa)	Flow (m³/s)
N16	Source	10000000.00	10.000000	0.060000
N17	Sink	9958888.85	9.958889	0.010000
N18	Sink	9958888.85	9.958889	0.010000
N19	Sink	9958888.85	9.958889	0.010000
N20	Junction	9960390.31	9.960390	0.000000
N21	Junction	9949427.00	9.949427	0.000000
N22	Junction	9947925.53	9.947926	0.000000
N23	Sink	9946424.07	9.946424	0.010000
N24	Sink	9947925.53	9.947926	0.010000
N25	Sink	9947925.53	9.947926	0.010000

Pipe Results

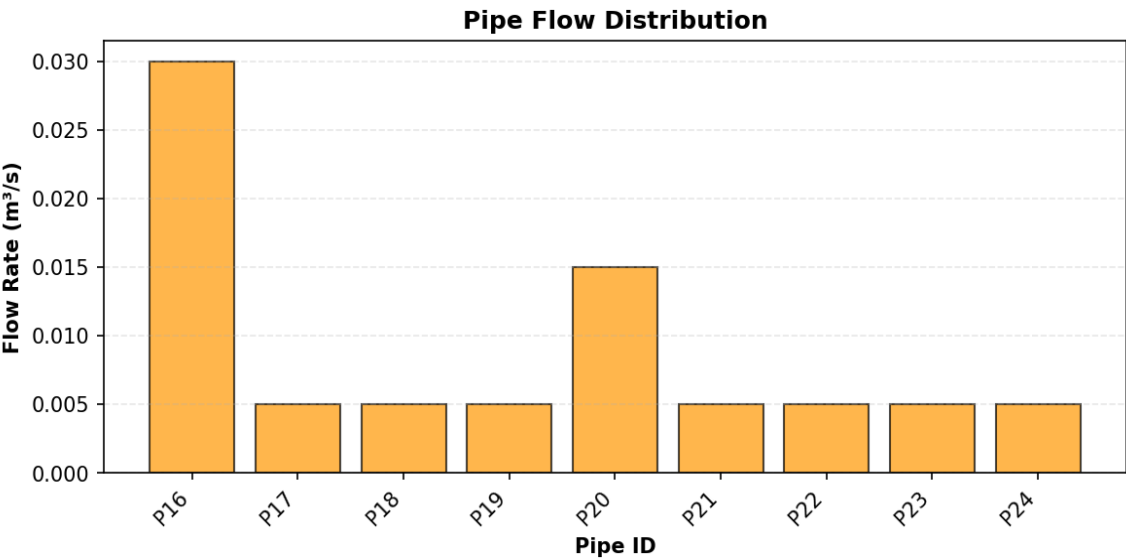
Pipe ID	Start→End	Length (m)	Flow (m³/s)	Velocity (m/s)	ΔP (Pa)
P16	N16→N20	1000.00	0.030000	0.955	39609.69
P17	N20→N17	1000.00	0.005000	0.159	1501.47
P18	N20→N18	1000.00	0.005000	0.159	1501.47
P19	N20→N19	1000.00	0.005000	0.159	1501.47
P20	N20→N21	1000.00	0.015000	0.477	10963.31
P21	N21→N24	1000.00	0.005000	0.159	1501.47
P22	N21→N25	1000.00	0.005000	0.159	1501.47
P23	N21→N22	1000.00	0.005000	0.159	1501.47
P24	N22→N23	1000.00	0.005000	0.159	1501.47

Visualization & Analysis

Pressure Distribution



Flow Distribution



Pipe Velocity Distribution

