

Eyyyy yooo! Do I need to double check that my equations are properly in psia vs psig / etc.? Maybe that is part of the problem with undercalculating the reservoir drawdown:

Nomenclature

Dimensionless Numbers

Fr	Froude Number
Ma	Mach Number
Re	Reynolds Number

Fluid Conditions

ρ	Density, lb_m/ft^3
c	Speed of sound, ft/s
E	Energy, ft^2/s^2
p	Pressure, psia
t	Temperature, $^{\circ}F$
V	Velocity, ft/s

Mechanical Conditions

A	Area, ft^2
D	Diameter, ft
k	Friction Factor, unitless

Subscripts

di	Diffuser
ni	Nozzle Inlet
nz	Nozzle
su	Suction
te	Throat Entry
tm	Throat Mixture