

# Energent's Variable Phase Turbine Nozzle Flow

## Two-Phase Nozzle Flow

E... B... P... 1,2 ( P )  
 B... B... B... BB... B...  
 B... B... A... B...  
 B... B... B... B... B...

E... B... 1-D... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...

I... B... B... B... B...  
 B... B... AB...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 C... BB... F... D... (CFD).

A 3-D CFD... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...

B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...  
 B... B... B... B... B...

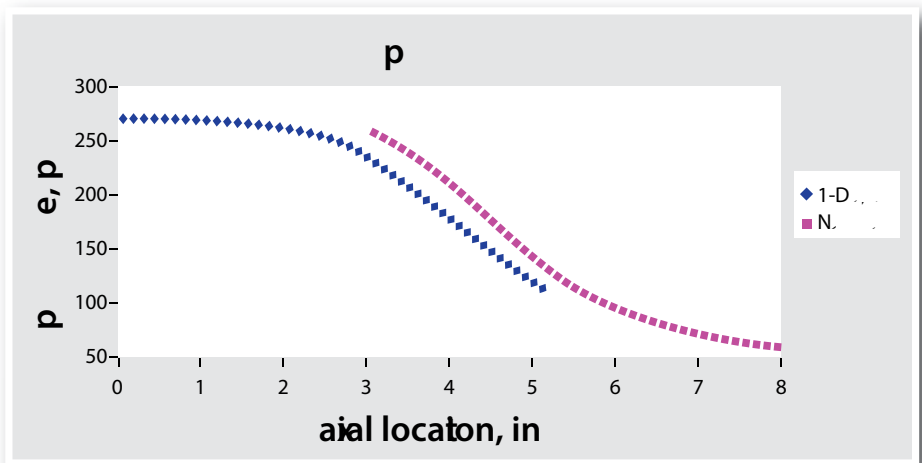
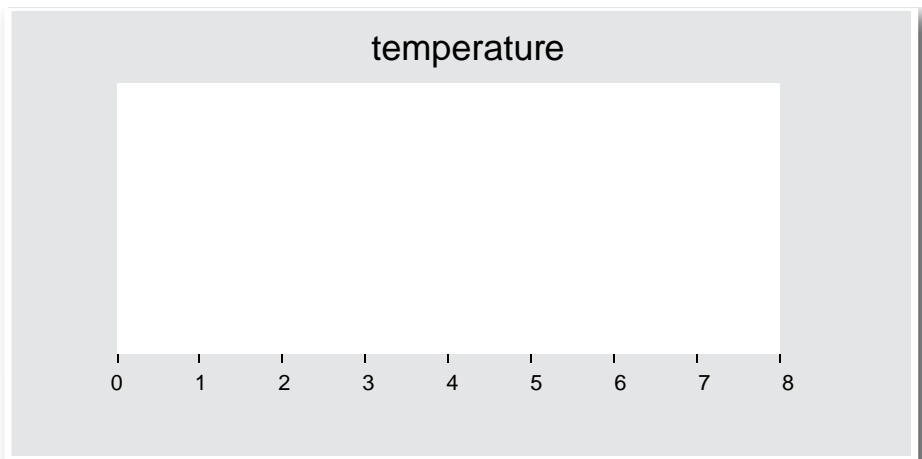


Figure 1. Pressure profile.



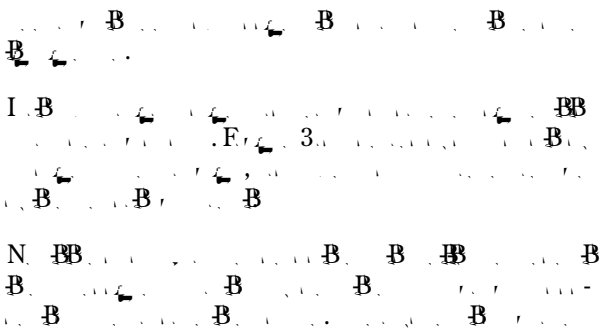


Figure 3. Schlieren images of a shock wave impinging on a liquid column.

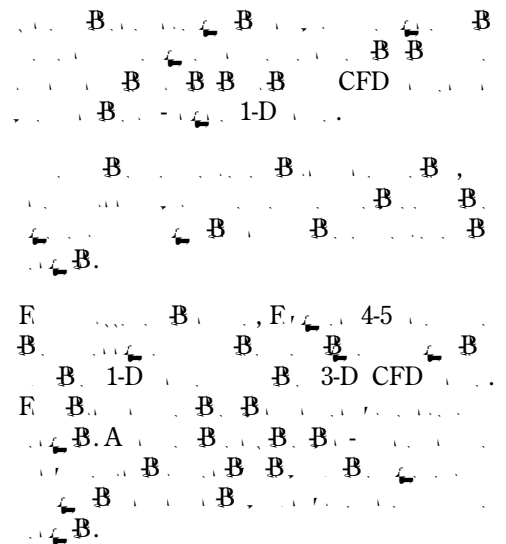


Figure 4. Pressure profile of a 500kW nozzle.

Journal of Applied Physics, 4 -261-7533

- 1 L. H. ... E. ... P. ... 2008, ... 1, 4.
- 2 L. H. ... C. ... L. ... E. ... 2011, ... 2.
- 3 R. F. ... D. ... B. ... 2011, ... 7.

Figure 5. Temperature profile of a 500kW nozzle