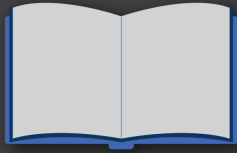


## Ask an Engineer



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### Piping System and Devices Questions

- Accounting for Elevation Differences in Pump Curves
- Air Release Valves in Slurry Pipelines
- Cooling System Renovation
- dP Control with Variable Speed Pumps
- Increase System Capacity Using Pumps in Parallel
- Manifold Flow Rate Changes
- Modeling Tide Changes at a Desalination Plant with Overtime
- NPSH for Tanks Open to Atmosphere
- Pharmaceutical Industry Pipe Tables
- Piping Symmetry
- Pump Affinity Rules Used for Trimming Impellers
- Reverse Return Systems
- Specific Speed for Centrifugal Pumps
- Storm Water Drainage System Model
- Suction Specific Speed for Centrifugal Pumps

### Theory, Equations, and Calculation Questions

- Accuracy of PIPE-FLO and Flow of Fluids Models
- Difference Between the Effectiveness-NTU and LMTD Methods
- Gas Expansion Adds Resistance to Fluid Flow
- Negative dP at Pumps and Control Valves
- Positive dP Across a Pipeline
- Relationship Between Flow Coefficient and Discharge Coefficient
- Relationship Between Flow Coefficient and Resistance Coefficient
- Relationship Between Pressure Drop and Flow Rate in a Pipeline

### Fluid Property Questions

- Compressibility and Standard Flow Rates
- Newtonian and Non-Newtonian Fluids
- Static Head in Systems with Varying Fluid Temperatures
- Vapor Lock in a Gasoline Fuel Supply System

### Brain Teasers

- Fluid Properties and Pump Performance
- Static Head in Piping Systems
- System Troubleshooting Part 1
- System Troubleshooting Part 2