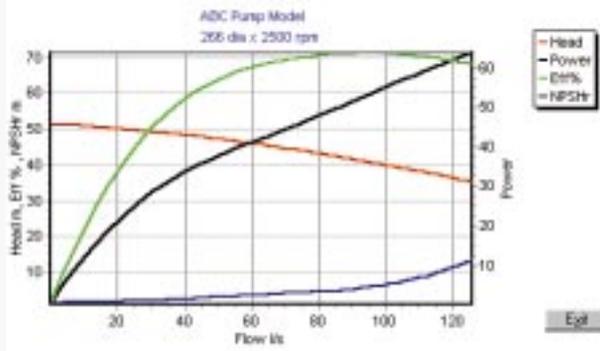


Pump Database & Curve



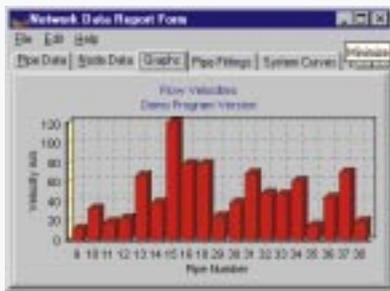
Data Reports

The network diagram and system head curves can be printed and Design Reports are produced simply in a compact table format which can be printed or pasted into MS Excel™, Lotus 1-2-3™ or any other Windows compatible spreadsheet or word processor.

Pipe capital vs. operating costs are calculated

Pipe ID	Material	Size	Length	...
1	Steel	100	100	...
2	Steel	100	100	...
3	Steel	100	100	...
4	Steel	100	100	...
5	Steel	100	100	...
6	Steel	100	100	...
7	Steel	100	100	...
8	Steel	100	100	...
9	Steel	100	100	...
10	Steel	100	100	...

View Network Results



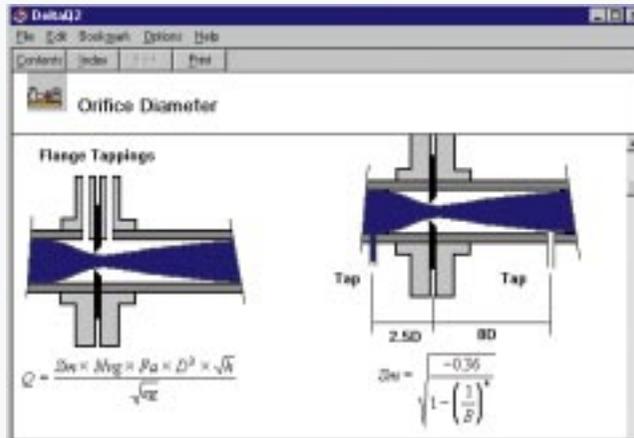
The network solution can be viewed in **Graph** form. This allows you to check for minimum or maximum values at a glance.

For example, you can check the Node pressures or the velocities and view the results in a graph.

Program Documentation

On-Line Help and Email Support

The program is supplied with a fully integrated context sensitive help system. Just press F1 and help relating to the current topic will be displayed. Formulae and calculation methods are detailed in the manual and help file.



System Requirements

To run the *Helix delta-Q* program you need:

- Personal computer with 80486 or higher microprocessor.
- 16 Mb of RAM or more
- 4 Mb of Hard Disk space.
- 3.5" 1.44 MB disk drive. CD ROM drive is optional
- Microsoft Windows™ NT, Win 95 or 98
- VGA 800 x 600 or better resolution monitor.
- Printer and mouse.

HELIX
TECHNOLOGIES

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DOWNLOAD A DEMO PROGRAM FROM OUR WEBSITE

PIPE NETWORK ANALYSIS PROGRAM

HELIX delta-Q

for Windows™
VERSION 2
Win 95, 98, Win NT

COMPRESSIBLE AND INCOMPRESSIBLE FLUIDS

Design and analyse complex pipe networks for:

- Water Supply Schemes
- Irrigation Systems
- Fire Protection Systems
- Mining Process Plants
- Tailings Slurry Disposal
- Mine Dewatering
- Slurry Transport
- Dredging Operations
- Chemical Process Plants
- Steam Process Systems
- Oil & Gas Installations
- Gas Distribution & Storage
- Air-conditioning & Ventilation
- Compressed Air
- Dust Extraction, etc...

LIQUIDS
SLURRIES
GASSES

HELIX
TECHNOLOGIES

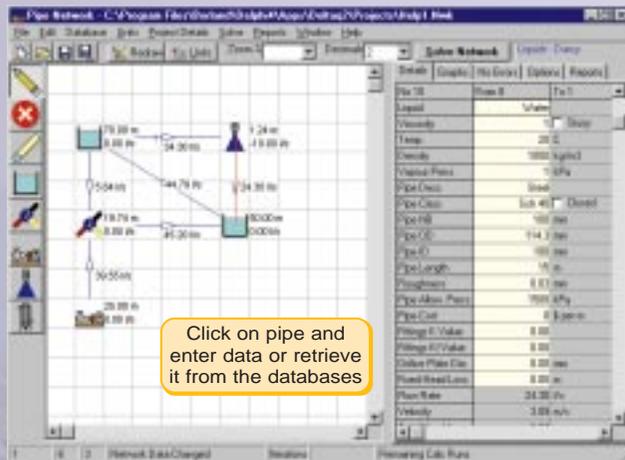
HELIX delta-Q *for Liquids, Slurries & Gases*

... is a powerful tool for engineers and equipment suppliers to quickly and easily design and optimise pipe networks for *compressible and incompressible fluids*. You can produce economically and technically sound pipe system designs in a very short time.

You can calculate friction losses and pressure drops in pipes and fittings for *Liquids, Slurries and Gasses*; model complex process flow pipe networks and solve for unknown flow rates and node pressures at the press of a button; and retrieve data from user accessible databases for *Liquids, Slurries, Gasses, Pumps, Pipes and Fittings* or add your own data.

Drag and Drop components into your Network

Model any number of pipes, junctions, pumps, vessels, sprinklers, nozzles, tanks, intakes, and outlets as you like in one network.



Add individual fittings to each pipe or enter a global K value or Kf value for a quick estimate of fitting losses.

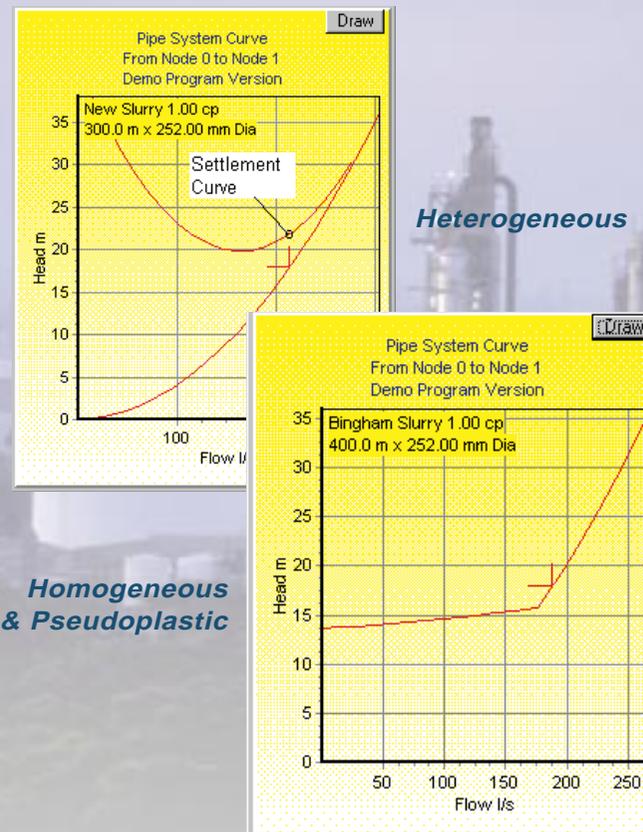
You can have different fluids in the same network. For example, you may have a concentrated slurry in one pipe flowing into a junction with a water pipe (or pipes) and dilute slurry flowing through the network from that point onwards.

Add an Orifice plate to any pipe, or specify a fixed pressure drop.

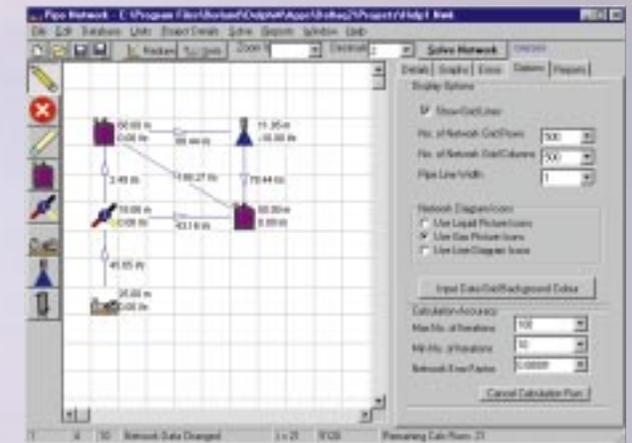


Model Settling and Non-Newtonian Slurries

The program can model **Heterogeneous** settling slurries with **Newtonian** fluid properties and also **non-Newtonian Homogeneous** Slurries such as **Bingham** and **Pseudoplastic** type Slurries.



Model Isothermal and Adiabatic Gas Networks



The program solves **Isothermal** and **Adiabatic** gas flow networks including **Free Flow** and **Choked (Sonic) Flow** systems.

Insert as many Fans, Blowers, Vacuum Pumps, Intakes, Outlets, Junctions and Pipes as you like.

Analyse and design **Process Gas, Compressed Air, Steam, Dust Extraction** and **Ventilation Systems** with ease.