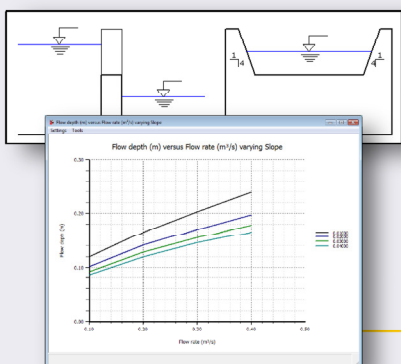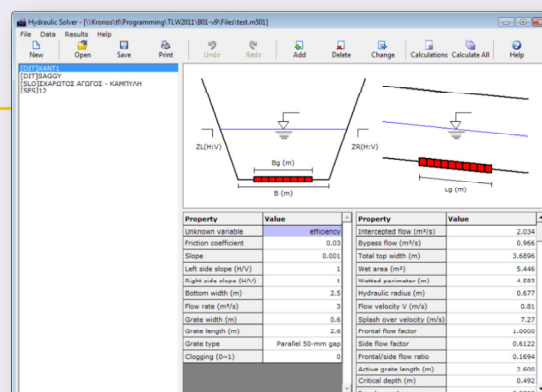# Hydraulic Solver v12.0

A versatile tool for the engineer

- Sections with free surface
- Pressure sections
- Ditches
- Weirs
- Orifices
- Grates
- Curbs
- Combination Inlets, Slots
- Pumps, Hydropower Pumps
- Reaction & Impulse Turbines

Selection of solver and unknown parameter with one click. Multilevel undo and redo assist data input and error correction.
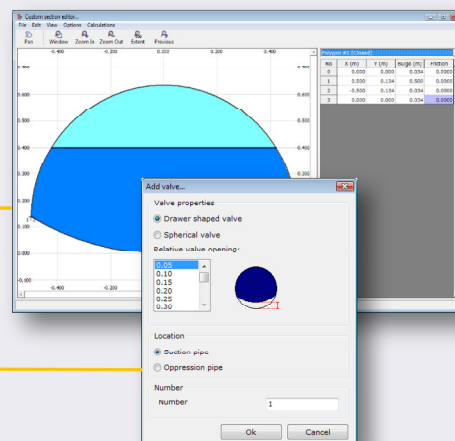
Visual aids (sketches, graphs) are available for all tasks, in order to facilitate data input and avoid errors.

Rating tables and curves are easily constructed and exported to other formats, so that you can observe the response of the system when one or more parameters fluctuate.

Advanced Algorithms

Virtually all friction types and formulas can be used. These include: Manning, Chezy, Kutter, Darcy-Weibach, Hazen-Williams, Bazin. Integration formulas include Lotter, Cox, Pavlovskii, Horton, Colebatch. For pressure flow, up to three different friction types may be used for laminar, turbulent or transitional flow.

Extremely complex geometries can be described easily by means of lines and/or arcs, with some parts under pressure and some parts with free surface.

Export: Microsoft Word 2000, Excel 2000 or later
Import / Export: DXF (AutoCad R12 or later, Microstation, Intellicad etc), ArcView GIS 3.x or later, MapInfo, GRD, GTM (GPS Trackmaker 3.1 or later)

A free functional demo is available at TechnoLogismiki's web site.

Since its foundation, Technologismiki specializes in the development of advanced technical software. Moreover, its activities include publishing of technical books and consulting services in the fields of Hydraulics, Hydrology, Environment and Water Resources.