## Plantware

Control Valves

P-Engineering help our clients ensure correct operation of Control Valves. We use CONVAL software from FIRST to assist and control sizing of the Control Valve for the precise application: Valves:

- Valve Data from Database from all major Manufacturer – Samson, Emerson, Spirax Sarco etc.
- Media Physics from Large Database
- Sizing
  - o General size K<sub>v</sub>
  - o Stem/Seat Layout.
  - Working Range
- Verification of any
  - o Cavitation Problem
  - o Freezing Problem
- Noise Calculation

Above Sizing and Selection Calculation of the ensures correct Function of the Control Valve within the whole Operation Area.

## Additional Pressure Reduction

If additional pressure Reduction is needed additional Office Plates can be calculated for trimming the pressure loss across the Control Valve.

## Supplier Calculation

Why not just trust Supplier Sizing? Well, sometimes it is better to have full control of the calculation yourself.

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Pictures from various Unit for Central Heating and Hot Tap Water. For the first the Central Heating the Control Valve did not fit perfectly as District Heating Supply was not according to Specification and the Stem in the Valve was delivered too large.