

# Sizing an Instrumentation Pressure Regulator

## Go Regulator Calculation Tool

This calculation tool can allow you to correctly selected the required flow coefficient (Cv) value for your pressure reducing or back pressure regulator. The tool will utilise your process data to calculate the Cv flow so that you can achieve your required flow rate. Operating parameters you will need to have on hand are as follows:

- ✓ Inlet/Supply Pressure (in PSIA)
- ✓ Outlet/Control Pressure (in PSIA)
- ✓ Flow Rate (Maximum in SCFM)
- ✓ Media (Specific Gravity relative to air at 60°F)
- ✓ Temperature (in °F)

From entering these required values the calculation tool will produce a Cv value (that must be doubled as a safety factor) for your regulator.

The calculation software can also do the reverse of this – allowing you to use a pre-selected Cv value to calculate your maximum possible flow rate.

Click on the below link to start  
calculating now:

<http://www.goreg.com/technical/>



# Sizing a Process Pressure Regulator

## ValvePilot

The calculation and design software ValvePilot assumes the task of calculating the KV and KVS value for you. These values are essential for the optimal selection of valves. In addition, the programme determines the following values/parameters:

- ✓ Noise Pressure Level
- ✓ Nominal Diameter
- ✓ Reduction Ratio
- ✓ Inflow and Outflow Velocity
- ✓ Phase Changeover

ValvePilot can also provide warnings about potential hazards such as cavitation, flashing or excess noise pressure levels. You will also receive an alert if a pipe expansion is required due to your operation parameters.

Three different calculation modes **Basic** / **Expert** / **Expert+** allow for tailoring to your requirements. Allow ValvePilot to determine a suitable model for your application needs.

Click on the below link to start your download now:

[http://boiswood.co.uk/content/uploads/valvepilot/valvepilot\\_v101.zip](http://boiswood.co.uk/content/uploads/valvepilot/valvepilot_v101.zip)

