

# PlantWare Flow Technology *produktinfo*

## Conval® 7.0

PlantWare is agent for CONVAL® from F.I.R.S.T GmgH Germany in the following countries

- » Denmark
- » Sweden
- » Norway
- » Island

CONVAL is a process design tool for optimizing of e.g. control valve selection, shell and tube heat exchangers etc.



The function of the software package is described on page 2.

### Please contact

Christian Pallesen  
Phone +45 4547 5105  
Cell (DK) +45 2526 8805  
Email cp@plantware.dk

Kenneth Osholm  
Phone +45 4747 5112  
Cell (DK) +45 2526 8812  
Cell (SE) +46 706 465 924  
Email kmo@plantware.dk

### Safety valves

One of CONVAL's features is selection of safety valves combined with selection and pressure loss calculations of the blow off pipe line.

Safety valves manifold can also be calculated with the influence of reducers, elbows etc. upstream of the valve.

### Control valves

Extensive calculations for Kv/Cv, sound pressure, cavitation, flashing, two phase flow and more. Choose between 8,000 medias including thermodynamic calculations. Graphic display of all results and interactions for easy optimizing. Perfect documentation through print outs.



# PlantWare Flow Technology produktinfo

Three separate editions of CONVAL® are now available. They differ only with regard to the functional scope of the integrated calculation modules. An optional thermodynamic module is available for all editions.

Functional scope of CONVAL® editions	I+C Edition	Plant Engineering Edition	Full Edition
<b>Valves and actuators</b>			
Control valves <i>enhanced</i>	+		+
Control valves with 2-phase flow at the inlet <i>new</i>	+		+
Steam conditioning units	+		+
Actuator forces	+		+
<b>Throttle elements</b>			
Differential pressure flow elements <i>enhanced</i>	+		+
Restriction orifice plates	+	+	+
<b>Piping systems</b>			
Pressure loss	+	+	+
Pressure surge	+	+	+
Sizing		+	+
Pipe wall thicknesses <i>enhanced</i>		+	+
Pipe compensatio		+	+
Span calculation		+	+
<b>Heat exchangers</b>			
Shell-and-tube heat exchangers		+	+
Condensers		+	+
<b>Chemical engineering</b>			
Safety valves <i>enhanced</i>		+	+
Tank depressurization	+	+	+
Pump motor output	+	+	+
<b>Service</b>			
Property calculation	+	+	+
Material data calculation <i>new</i>	+	+	+
Curve regression	+	+	+
<b>Databases</b>			
Control valves <i>enhanced</i>	+		+
Safety valves <i>enhanced</i>		+	+
Pitot tubes <i>new</i>	+	+	+
Flow resistances <i>new</i>	+	+	+
Standard motors	+	+	+
Properties	+	+	+
Materials <i>enhanced</i>	+	+	+
<b>Options</b>			
Thermodynamikmodul RUB	+	+	+