FLOWSOLV®
oil & gas flow calculation

English 🇬🇧

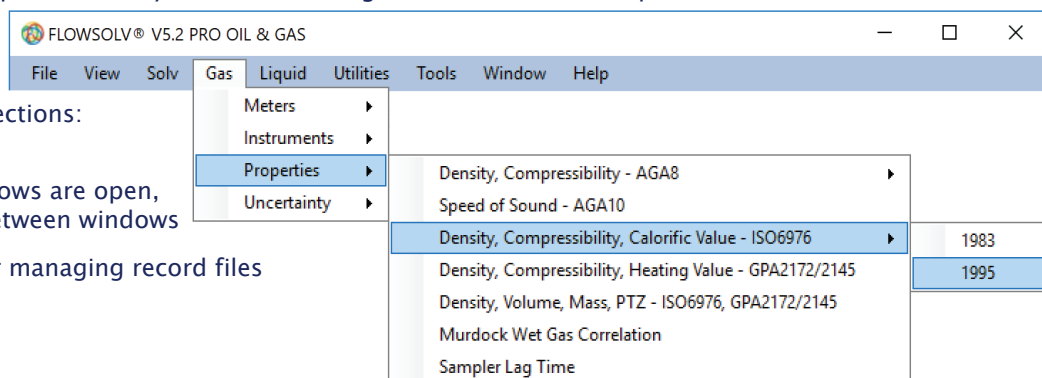## FLOWSOLV® v5.2 GETTING STARTED GUIDE

www.flowsolv.com

STARTING FLOWSOLV® v5.2

Double Click the FLOWSOLV® V5.2 icon on the desktop to start the program. If you cannot locate the icon on the desktop then open FLOWSOLV® V5.2 from: 'Start, All Programs, FLOWSOLV® V5.2'

THE WORKSPACE

THE MENU BAR

All FLOWSOLV® V5.2 calculations and operations may be selected using the menu bar and drop-down menus

Calculations are arranged under four sections:
Gas, Liquid, Utilities and Tools

When a number of the calculation windows are open, the menu bar may be used to switch between windows

The menu bar also contains options for managing record files and calculation windows

FLOWSOLV® V5.2 PRO OIL & GAS	— □ ✕

File View Solv Gas Liquid Utilities Tools Window Help

- Meters ▶
- Instruments ▶
- Properties ▶
  - Density, Compressibility - AGA8 ▶
  - Speed of Sound - AGA10
  - Density, Compressibility, Calorific Value - ISO6976 ▶ — 1983 / 1995
  - Density, Compressibility, Heating Value - GPA2172/2145
  - Density, Volume, Mass, PTZ - ISO6976, GPA2172/2145
  - Murdock Wet Gas Correlation
  - Sampler Lag Time
- Uncertainty ▶

THE TOOLBAR

The most efficient way of navigating through FLOWSOLV® V5.2 is with the toolbar

LOADING A CALCULATION DATA FILE

Click on the 📂 symbol on the toolbar, or click on 'File' then 'Open' on the menu bar. The Open File dialog box will open to allow you to navigate the directories and select a data file, of the type FLOWSOLV Project File (.FSPV). To load the data file, select the file name and select the 'Open' button

SAVING A CALCULATION DATA FILE

Click on the 💾 symbol on the toolbar, or click on 'File' then 'Save' on the menu bar. The Save File dialog box will open to allow you to navigate the directories and save a data file, of the type FLOWSOLV Project File (.FSPV). To save the data file, name the file and select the 'Save' button

You can also add calculation details to the 'Description', 'Ref/Tag' and 'Note' boxes at the top of each calculation

Gas - Properties - Speed of Sound - AGA10:2003

Project	West of Shetland	Description	Fiscal Export
SOLVSet	Suilven	Ref/Tag	FE0637
Calc	Gas - Speed of Sound AGA10	Note	Transducer VoS check
Modified	16-Apr-2015 Created 07-Apr-2015		

FLOW SOLV v5
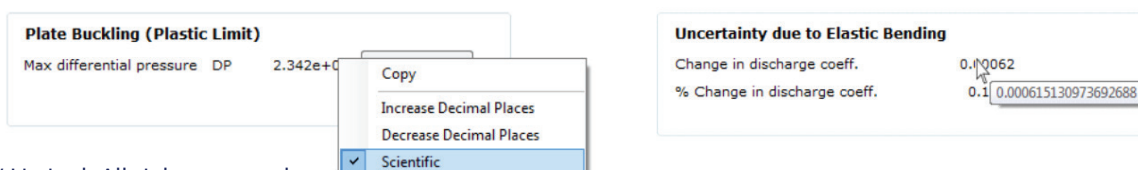www.flowsolv.com

PRINTING A CALCULATION DATA FILE

Click on the 🖨 symbol on the toolbar, or click on 'File' then 'Print' on the menu bar. Select printer from the list, and click 'Print'

FEATURES

INPUT BOXES

Input boxes show values used in calculations rounded to a resolution that is suitable for the purpose of the display.

If the number in the input box contains more digits after the decimal point full resolution can be displayed by hovering the mouse over the number.

Plate Buckling (Plastic Limit)

Max differential pressure DP 2.342e+0

- Copy
- Increase Decimal Places
- Decrease Decimal Places
- ✓ Scientific

Uncertainty due to Elastic Bending

Change in discharge coeff. 0.00062
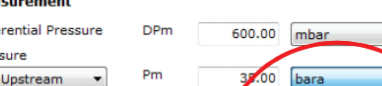% Change in discharge coeff. 0.1 0.000615130973692688

FEATURES

ENGINEERING UNITS

Unit conversions rigorously traceable to International Standards

SI (International System of Units, Metric) or CU (Customary Units, Imperial)

A wide choice of engineering units allows you to take readings in whatever units are used by the instrumentation, without the need for manual conversion before calculation. In this way the traceability of the calculation results is maintained and there is an auditable path from input to calculation result.

CALCULATION OPTIONS

Most calculation pages have a choice of calculation methods for maximum flexibility.

COMPLIANCE CHECKING

FLOWSOLV® V5.2 methods check all inputs and outputs against compliance with standards, any non-compliances are identified