



# FLOWSOLV<sup>®</sup>

## oil & gas flow calculation

English

### FLOWSOLV<sup>®</sup> v5.2 DATASHEET

[www.flowsolv.com](http://www.flowsolv.com)

#### OVERVIEW

A comprehensive, integrated suite of oil and gas flow measurement software providing robust calculations with rigorous traceability to national and international standards

#### INTERNATIONAL

Wide selection of calculations based on national and international standards, papers and manufacturers data. Includes API, AGA, ASTM, GPA, IP, ISO, EN and BS

#### COMPLIANCE

Confirmed for each value and result. The compliance is displayed for each calculation in the Compliance Window

#### TRACEABILITY

Ensured by thorough detailed specification of calculations and testing during development of the software. Independent data is used to validate calculations so the highest quality results are provided for fiscal, custody transfer and process metering

#### ENGINEERING UNITS

Imperial and SI are provided with automatic on-the-fly conversion, traceable to standards

#### NUMERICAL FORMAT

Number of decimal points or scientific notation may be adjusted for each data point. Full resolution can be viewed in a pop-up by placing mouse pointer over the displayed value

#### DATABASE

Storage of calculations by project and SOLV-SET. SOLV-EXPLORER provides a menu tree for ease of navigation

#### REPORTS

All calculation reports can be printed on International Letter and European A4 paper format

#### HELP

Online accessible from each calculation including standards traceability. Telephone and email support are included in the warranty

#### CALCULATIONS

##### LIQUID METERS

Composite Oil Calculation: API MPMS Ch. 11.1  
 Orifice – AGA3:1992  
 Orifice – ISO5167:1980                      Venturi – ISO5167:1980  
 Orifice – ISO5167:1991                      Venturi – ISO5167:1991  
 Orifice – ISO5167:1997                      Venturi – ISO5167:1997  
 Orifice – ISO5167:2003                      Venturi – ISO5167:2003

##### LIQUID INSTRUMENTS

Densitometer – Solartron 783x/784x/1762

##### LIQUID PROPERTIES

Base Sediment and Water (BS&W)  
 Density, Volume – Base to Observed – MPMS Ch. 11.1  
 Density, Volume – Observed to Base – MPMS Ch. 11.1  
 Isokinetic Flow  
 Density, Volume – API MPMS Ch 11.1:2004 Amd. 07/08  
 Density, Volume – API MPMS Ch 11.2.2:1986  
 Density, Volume – API MPMS Ch 11.2.2M:1986  
 Density, Volume – API MPMS Ch 11.2.4:2007  
 Density, Volume – API MPMS Ch 11.2.5:2009

##### UTILITIES

Local Gravity  
 Orifice Plate Deflection:BS1042 (Jepson & Chipchase)  
 Platinum Resistance Thermometer:BS1904  
 Platinum Resistance Thermometer:BS EN60751

##### GAS UNCERTAINTY

Venturi Uncertainty – ISO5167:1991  
 Orifice Uncertainty – ISO5167:1991

##### GAS METERS

Orifice – AGA3:1992  
 Orifice – ISO5167:1980                      Venturi – ISO5167:1980  
 Orifice – ISO5167:1991                      Venturi – ISO5167:1991  
 Orifice – ISO5167:1997                      Venturi – ISO5167:1997  
 Orifice – ISO5167:2003                      Venturi – ISO5167:2003

##### GAS INSTRUMENTS

Gas Densitometer – Solartron 7810  
 Gas Densitometer – Solartron 7811  
 Gas Densitometer – Solartron 7812  
 RD Analyser Appendix A – Solartron 3098  
 RD Analyser Appendix A – Solartron 3096  
 RD Analyser Calibration Check – Solartron 3098  
 RD Analyser Calibration Check – Solartron 3096

##### GAS PROPERTIES

Density, Compressibility – AGA8:1985  
 Density, Compressibility – AGA8:1994  
 Density, Compressibility, CV –ISO6976:1983  
 Density, Compressibility, CV –ISO6976:1995  
 Density, Compressibility,HV–GPA2172:1996/2145:2003  
 PTZ, Density, Volume, Mass, – ISO6976, GPA2172  
 Sampler Lag Time Direct, Fast Loop  
 Murdock Wet Gas Correlation  
 Speed of Sound, CP/CV, Isentropic Exp. – AGA10:2003  
 JT Correction for Orifice and Venturi

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