

FLOWSOLV® v5.3 PRO DATASHEET

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
 NGL/LPG Compressibility Factor – API MPMS Ch 11.2.2:1986
 NGL/LPG Compressibility Factor – API MPMS Ch 11.2.2M:1986
 NGL/LPG Temperature Correction – API MPMS Ch 11.2.4:2007
 NGL/LPG Vapor Pressure – 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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