GAS FLOW CONVERSION: ACTUAL TO NM³/H, SM³/H AND SCFM

Project: Gas flow units	Calc no: CALC FT 004 Rev: 0

Yellow cells: enter data. Grey cells: calculated automatically. Free template from instrumentationblog.in

Reference data			
Atmospheric pressure (bar a)	1.01325	**Reference Z**	Taken as 1 at reference conditions

Conversions

Line	Actual flow (m³/h)	Pressure (bar g)	Temp. (°C)	Z	Nm³/h (0 °C)	Sm³/h (15 °C)	SCFM (60 °F)	ACFM	Remarks
Compressor discharge	500.0	6.00	40.0	1.000	3018.7	3184.5	1877.9	294.3	
Fuel gas header	1200.0	3.50	25.0	0.990	4946.4	5218.0	3077.1	706.3	
Nitrogen line	80.0	8.00	20.0	1.000	663.1	699.5	412.5	47.1	

Always state which reference conditions are used. Nm³ and Sm³ differ by about 5.5 %. 1 m³/h = 0.588578 ft³/min.

Prepared by	Checked by
Name:	Name:
Signature:	Signature:
Date:	Date: