



SERVICIOS ESPECIALIZADOS Y CONSULTORIAS SAS

Consultaría para sistema de medición de gas natural

Ciente Final: SSGC

Ubicación: Karachi, Pakistán

Servicio de consultora para sistema de medición de gas natural con elemento primario tipo placa de orificio. Validación algoritmos de cálculos AGA3, AGA8, GPA2172.

Gas - Meter - Orifice - AGA 3 : 1992

Project	Varification	Description	Orifice Plate Measurement Skid
SOLVSet	Gas Meter Calculations	Ref/Tag	FE-1001
Calc	Gas - Orifice - AGA3:1992	Note	
Modified	08-Feb-2021	Created	18-Jan-2016

Conversion Unit IEEEE10: 2002 SI **Mass Flow**

Pipe	Diameter	Input	D	300.00	mm
	Cal Temp	Input	TCalD	20.00	°C
	Coef Therm Exp	Input		1.08e-05	/°C _v /K

Flowrate	Line Volume	Qvl	4.3047	k.m ³ /h
	Mass Flow		26.9507	kg/s
	Standard Volume	Qsv	136.26	k.m ³ /h
	Energy	Qe	1.23e+05	GJ/d

Orifice	Diameter	Input	180.00	mm
	Plate Cal Temp	Input	20.00	°C
	Coef Therm Exp	Input	1.63e-05	/°C _v /K
	Diff. Pressure Tapping	Input	1 inch	Flange
	Drain Hole Size	dh	0.00	mm

Beta	Ratio	Calculate	β	0.600000
	Ratio Upstream		β1	0.600115
	Pipe Bore Upstream		D1	300.114 mm
	Orifice Bore Upstream		d1	180.103 mm

Measurement	Differential Pressure	Dpm	600.00	mbar
	Pressure	Upstream	Pm	35.00 bara

Upstream Line Conditions	Density	ρ1	22.539	kg/m ³
	Temperature	T1	55.00	°C
	Pressure	P1	35.00	bara

✓ Calculation Complete

