

WINFLOW 2.75 (I) Diff. Pressure Calculation ITABAR - Flow - Sensor

Company: Airlitec
 Name(capital letters):
 Street:
 Zip Code/City:
 Offer-/Com. No: 11/29851
 P. Order Number:
 Tag No.: FT-502
 Serial No.:
 Pipe Data: ID=110,30/3,000 mm - horizontal
 Date: 29.09.2011
 Person in charge E.E.

Calculation: Volume Rate of Flow Gas(Standard Cond.)
 Fluid: Methan

Base Temperature	273,15	Kelvin
Base Pressure	101,33	kPa

Pipe Internal Dimensions to 20°C 110,30 mm
 Pipe Internal Dimensions 45,00 °C 110,30 mm
 Flowing Temperature: 45,000 °C
 Flowing Pressure: 2,100 bar A
 Density: 1,560 kg/m3
 Viscosity: 0,0130 cPs
 K-Factor: 0,5164 without unit

Comp. factor at operating cond. : 1,0000
 Comp. factor at norm cond. : 1,0000
 Ratio of Specific Heat: 1,30

	QMax	QNorm	QMin	
Flow Rate	930,00	744,00	186,00	Nm3/H
Reynolds No.	201.062	160.849	40.212	without unit
Permanent press. loss	1,400	0,890	0,060	mbar
Expansionsfactor	1,000	1,000	1,000	without unit
Velocity:	15,19	12,16	3,04	m/sec.
Differential Pressure	6,600	4,220	0,260	mbar

Itabar-Type: IBR-25-ID110,3/3mm-S-2-Y-KI-HL-T0-A06-A66
 Material Sensor 316SS
 Note:

Max. DeltaP 1.071,50 mbar Max. Flow Rate 11.851,34 Nm3/H
 Natural Freq.: 1.617,36 hz Operat. Freq.: 7,08 hz