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

Company:	Airlitec
Name(capital letters):	
Street:	
Zip Code/City:	
Offer-/Com. No:	11/30131
P. Order Number:	
Tag No.:	
Serial No.:	
Pipe Data:	ID=25,00/3,000 mm - horizontal
Date:	18.11.2011
Person in charge	E.E.

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

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

Pipe Internal Dimensions to 20°C 25,00 mm

Flowing Temperature:	20,000	°C		
Flowing Pressure:	6,000	bar G		
Density:	1,293	kg/Nm3	Op. Density:	8,339
Viscosity:	0,0182	cPs		
K-Factor:	0,3300	without unit		

Comp. factor at operating cond. :	1,0000
Comp. factor at norm cond. :	1,0000
Ratio of Specific Heat:	1,40

	QMax	QNorm	QMin	
Flow Rate	60,00	48,00	12,00	Nm3/H
Reynolds No.	60.291	48.233	12.058	without unit
Permanent press. loss	3,730	2,390	0,150	mbar
Expansionsfactor	1,000	1,000	1,000	without unit
Velocity:	5,26	4,21	1,05	m/sec.
Differential Pressure	**10,370**	**6,640**	**0,410**	**mbar**

Itabar-Type: IBR-20-DN25-S-07-Y-KI-HL-A03-A56
Material Sensor 316SS
Note:

Max. DeltaP	6.321,70 mbar	Max. Flow Rate	1.481,46 Nm3/H
Natural Freq.:	11.256,03 hz	Operat. Freq.:	40,03 hz