

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

Company: Airlitec
 Name(capital letters): Mr. Houllier
 Street:
 Zip Code/City:
 Offer-/Com. No: 12/30437
 P. Order Number:
 Tag No.:
 Serial No.:
 Pipe Data: ID=339,60/6,000 mm - horizontal
 Date: 20.01.2012
 Person in charge: TK

Calculation: Mass rate Gas & steam
 Fluid: Saturated steam

Base Temperature	273,15	Kelvin
Base Pressure	101,30	kPa

Pipe Internal Dimensions to 20°C: 339,60 mm
 Pipe Internal Dimensions 82,85 °C: 339,60 mm
 Flowing Temperature: 82,850 °C
 Flowing Pressure: 0,530 bar A
 Density: 0,327 kg/m³
 Viscosity: 0,0120 cPs
 K-Factor: 0,6341 without unit

	QMax	QNorm	QMin	
Flow Rate	4.000,00	3.500,00	800,00	kg/h
Reynolds No.	347.075	303.691	69.415	without unit
Permanent press. loss	0,490	0,370	0,020	mbar
Expansionsfactor	0,999	0,999	1,000	without unit
Velocity:	37,57	32,87	7,51	m/sec.
Differential Pressure	5,564	4,257	0,222	mbar

Itabar-Type: IBRD-26-ID339,6/6mm-S-1-0-A1H-KI-HL-T0-A06-A00
 Material Sensor 316Ti
 Note:

Max. DeltaP: 129,20 mbar Max. Flow Rate: 19.300,52 kg/h
 Natural Freq.: 207,37 hz Operat. Freq.: 70,04 hz

