

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

Company: Airlitec
 Name(capital letters):
 Street:
 Zip Code/City:
 Offer-/Com. No: 12/30772
 P. Order Number:
 Tag No.:
 Serial No.:
 Pipe Data: ID=125,00/8,000 mm - horizontal
 Date: 27.03.2012
 Person in charge: E.E.

Calculation: Mass rate Gas & steam
 Fluid: Saturated steam

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

Pipe Internal Dimensions to 20°C 125,00 mm

Flowing Temperature: 170,450 °C
 Flowing Pressure: 8,000 bar A
 Density: 4,161 kg/m³
 Viscosity: 0,0150 cPs
 K-Factor: 0,5463 without unit

	QMax	QNorm	QMin	
Flow Rate	8.000,00	6.400,00	1.600,00	kg/H
Reynolds No.	1.508.693	1.206.955	301.739	without unit
Permanent press. loss	26,580	17,000	1,060	mbar
Expansionsfactor	0,999	0,999	1,000	without unit
Velocity:	43,52	34,81	8,70	m/sec.
Differential Pressure	128,081	81,915	5,114	mbar

Itabar-Type: IBRD-25-DN125-S-1-0-K1H-KI-HL-T0-A81
 Material Sensor 316SS
 Note:

Max. DeltaP 695,20 mbar Max. Flow Rate 18.656,00 kg/H
 Natural Freq.: 1.253,67 hz Operat. Freq.: 366,93 hz