

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

Company: Airlitec  
 Name(capital letters):  
 Street:  
 Zip Code/City:  
 Offer-/Com. No: 11/29827  
 P. Order Number:  
 Tag No.:  
 Serial No.:  
 Pipe Data: ID=250,00/6,000 mm - horizontal  
 Date: 27.09.2011  
 Person in charge: E.E.

Calculation: Volume rate of Flow Liquids  
 Fluid: Water

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

Pipe Internal Dimensions to 20°C 250,00 mm

Flowing Temperature: 40,000 °C  
 Flowing Pressure: 4,000 bar G  
 Density: 0,992 kg/dm3  
 Viscosity: 0,6530 cPs  
 K-Factor: 0,6152 without unit

	QMax	QNorm	QMin	
Flow Rate	700,00	560,00	140,00	m3/H
Reynolds No.	1.503.454	1.202.763	300.691	without unit
Permanent press. loss	21,340	13,660	0,850	mbar
Velocity:	3,96	3,17	0,79	m/sec.
<b>Differential Pressure</b>	<b>199,484</b>	<b>127,670</b>	<b>7,979</b>	<b>mbar</b>

Itabar-Type: IBF-26-DN250-S-SM-1-B01-R-M-S1-S-KI-HL-T0-A03-A56  
 Material Sensor 316SS  
 Note:

Max. DeltaP	1.076,60 mbar	Max. Flow Rate	1.626,19 m3/H
Natural Freq.:	169,70 hz	Operat. Freq.:	10,38 hz