

Company: Airlitec  
 Name(capital letters):  
 Street:  
 Zip Code/City:  
 Offer-/Com. No: 11/28442  
 P. Order Number:  
 Tag No.:  
 Serial No.:  
 Pipe Data: ID=200,00/6,000 mm - horizontal  
 Date: 08.02.2011  
 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 200,00 mm

Flowing Temperature: 187,950 °C  
 Flowing Pressure: 12,000 bar A  
 Density: 6,119 kg/m<sup>3</sup>  
 Viscosity: 0,0150 cPs  
 K-Factor: 0,6065 without unit

	QMax	QNorm	QMin	
Flow Rate	15.000,00	12.000,00	3.000,00	kg/H
Reynolds No.	1.768.000	1.414.400	353.600	without unit
Permanent press. loss	5,190	3,320	0,210	mbar
Expansionsfactor	1,000	1,000	1,000	without unit
Velocity:	21,67	17,34	4,33	m/sec.
<b>Differential Pressure</b>	<b>37,858</b>	<b>24,224</b>	<b>1,513</b>	<b>mbar</b>

Itabar-Type: IBFD-25-DN200-S-SM-1-1-R-M-S1-0-K1S-KI-HL-T0-A82  
 Material Sensor 316SS  
 Note:

Max. DeltaP	232,20 mbar	Max. Flow Rate	37.160,02 kg/H
Natural Freq.:	326,81 hz	Operat. Freq.:	202,19 hz