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

Company:	Yokogawa
Name(capital letters):	Mr Cadrot
Street:	
Zip Code/City:	
Offer-/Com. No:	
P. Order Number:	
Tag No.:	
Serial No.:	
Pipe Data:	ID=40,00/3,00 mm - horizontal
Date:	17/10/2011
Person in charge	

Calculation:	Mass rate Gas & steam
Fluid:	Carbon dioxide

Pipe Internal Dimensions	40.000	mm
Flowing Temperature:	-27.000	°C
Flowing Pressure:	22.000	bar G
Density:	37,96	kg/m3
Viscosity:	0,02	cPs
K-Factor:	0.4505	without unit

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

density corrected value: 0

Comp. factor at operating cond. :	1,0000
Comp. factor at norm cond. :	1,0000
Ratio of Specific Heat:	1,30

	QMax	QNorm	QMin	
Flow Rate	2,500.00	1,343.00	806.00	kg/H
Reynolds No.	1,364,198	732,847	439,817	without unit
Permanent press. loss	59.510	17.170	6.180	mbar
Expansionsfactor	1.000	1.000	1.000	without unit
Velocity:	14.56	7.82	4.69	m/sec.
Differential Pressure	**191.971**	**55.387**	**19.948**	**mbar**

Itabar-Type:	IBR20
Material Sensor	316SS
Note:	

Max. DeltaP	3,139.20 mbar	Max. Flow Rate	10,111.18 kg/H
Natural Freq.:	6,949.10 hz	Operat. Freq.:	1,708.71 hz