

C:\Documents and Settings\HP_Administrator\Bureaublad\Snelkoppeling naar PNEUMTR...

Part	length	v-air	v-product	press.drop	v-wall/v-susp	sediment
5/5	117.6 tons/hr	Press: 15000	Press.drop :15000	prod.loss.fact 0.00242		
1 intake	1.0	37.0	33.8	1645.	21.8	■■■■■■■■
2 pipe	93.1	40.4	39.4	3723.	22.8	■■■■■■■■
3 bend		40.4	23.3	3756.		
4 pipe	93.0	46.7	45.4	6792.	24.3	■■■■■■■■
5 bend		46.7	26.8	6830.		
6 pipe	13.0	50.0	48.6	8106.	25.2	■■■■■■■■
7 d.tr		50.0	48.6	8106.		
8 pipe	80.1	58.1	56.2	10620.	27.0	■■■■■■■■
9 bend		58.2	33.1	10667.		
10 pipe	0.0	58.5	34.2	10701.	27.1	■■■■■■■■
11 d.tr		58.5	34.2	10701.		
12 pipe	10.0	66.0	63.0	12473.	28.6	■■■■■■■■
13 bend		66.3	37.3	12527.		
14 pipe	10.0	77.9	74.3	14519.	30.9	■■■■■■■■
15 bend		78.4	44.1	14584.		
16 outlet		78.4	44.1	14852.		
17 filter		0.5		15000.	v-filter 0.51 m/min	

No booster > Length 300.000 6.88 sec 518.kW 4.40 kWh/ton
 Joao Baryte joaad Re = 7.82 [ENTER] to continue

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Joao REMARK : 07-08-2008 21:38:39

 PRODUKT :Baryte

Pipeline capacity	= 117.56 ton/hr	Convey Length	= 300 m
System-pressure	= 15000. mmwC	Number of Bends	= 5 -
Q-pump	= 3.330 m ³ /s	D-begin =293	D-end =293
Q-convey-pipe	= 3.504 m ³ /s	Outlet force ..	= 12806 N
loading-ratio	= 8.26 - -	(dynamic)	
NO BOOSTER		T-Baryte	181.1/ 160.6 Deg.C
Ambient temperature	= 40.0 °C	T-out compressor	= 181. Deg.C
Reynoldsnumber ..[Re]..	= 7.82 --	Cooled heat compr	= 0 kW
spec.energy-consumption...	= 4.40 kWh/ton	T-out hooster ...	= 0. Deg.C
backpressure at pipe-end..	= 0. mmwC	Cooled heat boost	= 0 kW
Δp-accel.excl.prod.resist.	= 6492. mmwC	Compr power	= 518. kW
Δp-suspension	= 191. mmwC	Booster power ...	= 0 kW
Δp-lifting	= 87. mmwC		
Δp-airfriction	= 4206. mmwC	Total power	= 518 kW
Δp-productresistance	= 3015. mmwC	Mass in pipeline..	= 259 kg
Δp-intake productcolumn...	= 500. mmwC		
Δp-intake	= 323. mmwC	Empty pipe dp....	= 4880 mmwC
Δp-nozzle	= 1645. mmwC	[ENTER] to continue	█
Δp-filter	= 148. mmwC		
density product/air mix ..	= 11.1 kg/m ³		