

CÁLCULO DE PÉRDIDAS DE CARGA EN RED DE TUBERÍA AGUA NEBULIZADA



Proyecto: Cliente: Fecha:

Start	End	D tub	t	d int	A	Q	v	ρ	ν	Re	κ	k/dint	λ	L real	DP pipe	h	DP alt	Elbow	C codo	T	C T	valvulas	C valv	CTotal	DP acceso
From	To	(mm)	(mm)	(mm)	(mm2)	(lpm)	(m/s)	(Kg/m3)	(mm2/s)		mm			(m)	(bar)	(m)	(bar)	(num)		(num)		(num)			(bar)
3																									
0	1	38	3.00	32.0	804.25	536.5	11.12	998.20	1.00	354372.55	0.00	0.00	0.02	96.00	27.76	4.00	0.39	12	0.15	7	0.0	1	2.2	4	2.47
1	2	38	3.00	32.0	804.25	360.0	7.46	998.20	1.00	237780.73	0.00	0.00	0.02	3.50	0.46	0.00	0.00	0	0.15	1	0.0	0	2.2	0	0.00
2	3	38	3.00	32.0	804.25	180.0	3.73	998.20	1.00	118890.37	0.00	0.00	0.02	3.50	0.11	0.00	0.00	0	0.15	1	0.0	0	2.2	0	0.00
3	4	12	1.50	9.0	63.62	90.0	23.58	998.20	1.00	211360.65	0.00	0.00	0.02	1.75	8.09	0.00	0.00	0	0.15	1	1.0	0	2.2	1	2.77
4	5	12	1.50	9.0	63.62	44.7	11.72	998.20	1.00	105022.76	0.00	0.00	0.02	3.50	4.00	0.00	0.00	1	0.15	1	1.0	0	2.2	1.15	0.79

Results

DP total 46.8454

DP tuberia 40.42321

DP Altura 0.391694

DP Acceso 6.030491

codos	"Tees"		
C 90° =0,15	Ct	1.3	Ql/Qt=1
Cang=0,15*ang/90°	Ct	1	Ql/Qt=0,5
	Ct	0.9	Ql/Qt=0,2

"Tee" central 0

valvulas	
bola	1
valvulas de retenci	1.2
Valvulas direcciona	2.2