

Hoja1

Gas Pressure	O2 3,7	Temp. (°C) Pres. Unit	20 Bar	Pipe type Material	en_13348 copper		Standard HTM 02-01		Mol weight Pres (bar)	32 3,70E+00	σ Ωμ	3,467 1,06E+00		Pressure Drop		psi	kPa		Max Run (m)			
Density	4,857658772	Cust. P.Drop %		Rugosity (mm)	0,0015				T*	2,75E+00	μ	2,02E-05		Máx Allowed Loss		2,683203	18,5		123,00			
														Máx Calculated Loss		1,3628	9,40					
Start Node	End Node	No. Previous Outlets	Previous Pipe Size	No. New Outlets	Distance (m)	Pipe Size	Special element	Oversize for fitting (25%)	Fitting type	No. Outlets	Inside area (m²)	Flow (LPM) std cond	Speed (m/s) pipe pressure	Equivalent Run (m)	Re	f	Loss (psi)	Loss (kPa)	Total Loss (psi)	Total Loss (kPa)	Max Run from Beginning (m)	Note
1	2	0		380	123	54		Yes		380	2,04E-03	3.800,00	8,49	153,75	104.106,54	1,78E-02	1,3628	9,3960	1,3628	9,3960	123,00	

Gas	Air	Temp. (°C)	20	Pipe type	type_I		Mol weight	29	σ	3,711		Standard	Pressure Drop	inHg	mm Hg					Max Run (m)		
Pressure	-19	Pres. Unit	InHg	Material	copper		Pres (bar)	6,43E-01	Ωμ	9,85E-01		HTM 02-01	Máx Allowed Loss	4,00	101,6					123,00		
Density	0,765532924	Cust. P.Drop %		Rugosity (mm)	0,0015		T*	3,73E+00	μ	1,82E-05			Máx Calculated Loss	0,2546	6,47							
Start Node	End Node	No. Previous Components	Previous Pipe Size	No. New Components	Distance (m)	Pipe Size	Special element	Oversize for fitting (25%)	Fitting type	No. Components	Inside area (m²)	Speed (m/s) pipe pressure	Flow (LPM) at pressure	Equivalent Run (m)	Re	f	Loss (inHg)	Loss (mmHg)	Total Loss (inHg)	Total Loss (mmHg)	Max Run from Beginning (m)	Note
0	1			380	123	2 ½		Yes		380,00	3,08E-03	5,76	1.064,00	153,75	15.209,59	2,76E-02	0,2546	6,4659	0,2546	6,4659	123,00	

Exhaust vacuum pipe sizing	
Length (m)	15
Flow (lpm)	700
Diameter exhaust	1 1/2"

Maximum length allowed (m)	137,16
¿Valid?	OK