

Calculs de perte de pression totale par sections

Coupe	Elément	Débit	Taille	Vitesse	Pression dynamique	Longueur	Coefficient de perte de charge	Frottement	Perte de pression totale	Perte de pression par section
9	Raccords	30.0 m³/h	-	0.0 m/s	0.7 Pa	-	0	-	0.0 Pa	0.0 Pa
19	Gainé	60.0 m³/h	100ø	2.1 m/s	-	801	-	0.84 Pa/m	0.7 Pa	1.2 Pa
	Raccords	60.0 m³/h	-	2.1 m/s	2.7 Pa	-	0.2	-	0.5 Pa	
20	Gainé	30.0 m³/h	-	1.7 m/s	-	1068	-	0.70 Pa/m	0.7 Pa	1.1 Pa
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.2	-	0.3 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	3.1 Pa
	Gainé	60.0 m³/h	-	3.3 m/s	-	471	-	2.42 Pa/m	1.1 Pa	
24	Raccords	60.0 m³/h	-	3.3 m/s	6.6 Pa	-	0.3	-	2.0 Pa	0.3 Pa
	Bouche d'aération	60.0 m³/h	-	-	-	-	-	-	0.0 Pa	
	Gainé	435.0 m³/h	200ø	3.8 m/s	-	312	-	1.04 Pa/m	0.3 Pa	
29	Raccords	435.0 m³/h	-	3.8 m/s	8.9 Pa	-	0	-	0.0 Pa	0.0 Pa
30	Raccords	195.0 m³/h	-	0.0 m/s	1.8 Pa	-	0	-	0.0 Pa	0.0 Pa
31	Gainé	75.0 m³/h	125ø	1.7 m/s	-	1166	-	0.42 Pa/m	0.5 Pa	0.7 Pa
	Raccords	75.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.1	-	0.2 Pa	
	Gainé	45.0 m³/h	-	2.5 m/s	-	1579	-	1.44 Pa/m	2.3 Pa	3.0 Pa
33	Raccords	45.0 m³/h	-	2.5 m/s	3.7 Pa	-	0.2	-	0.7 Pa	
	Bouche d'aération	45.0 m³/h	-	-	-	-	-	-	0.0 Pa	
38	Gainé	30.0 m³/h	-	1.7 m/s	-	1114	-	0.70 Pa/m	0.8 Pa	1.1 Pa
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.2	-	0.3 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	1.8 Pa
39	Gainé	90.0 m³/h	125ø	2.0 m/s	-	1262	-	0.59 Pa/m	0.7 Pa	
	Raccords	90.0 m³/h	-	2.0 m/s	2.5 Pa	-	0.43	-	1.1 Pa	
45	Gainé	120.0 m³/h	125ø	2.7 m/s	-	3000	-	0.99 Pa/m	3.0 Pa	5.2 Pa
	Raccords	120.0 m³/h	-	2.7 m/s	4.4 Pa	-	0.5	-	2.2 Pa	
46	Gainé	90.0 m³/h	125ø	2.0 m/s	-	934	-	0.59 Pa/m	0.6 Pa	3.5 Pa
	Raccords	90.0 m³/h	-	2.0 m/s	2.5 Pa	-	1.2	-	3.0 Pa	
47	Gainé	135.0 m³/h	160ø	1.9 m/s	-	1221	-	0.37 Pa/m	0.5 Pa	2.6 Pa
	Raccords	135.0 m³/h	-	1.9 m/s	2.1 Pa	-	1.03	-	2.2 Pa	
	Gainé	195.0 m³/h	160ø	2.7 m/s	-	1850	-	0.72 Pa/m	1.3 Pa	3.6 Pa
50	Raccords	195.0 m³/h	-	2.7 m/s	4.4 Pa	-	0.53	-	2.3 Pa	
52	Gainé	30.0 m³/h	-	1.7 m/s	-	1056	-	0.70 Pa/m	0.7 Pa	1.1 Pa
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.2	-	0.3 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	0.4 Pa
53	Gainé	30.0 m³/h	80ø	1.7 m/s	-	160	-	0.71 Pa/m	0.1 Pa	
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.2	-	0.3 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	0.0 Pa
54	Raccords	30.0 m³/h	-	0.0 m/s	0.7 Pa	-	0	-	0.0 Pa	
55	Raccords	75.0 m³/h	-	0.0 m/s	0.6 Pa	-	1	-	0.6 Pa	0.6 Pa
57	Raccords	30.0 m³/h	-	0.0 m/s	0.3 Pa	-	1.3	-	0.4 Pa	0.4 Pa
58	Raccords	60.0 m³/h	-	0.0 m/s	1.1 Pa	-	1	-	1.1 Pa	1.1 Pa
59	Raccords	90.0 m³/h	-	0.0 m/s	0.9 Pa	-	1.2	-	1.1 Pa	1.1 Pa
60	Gainé	240.0 m³/h	200ø	2.1 m/s	-	2850	-	0.35 Pa/m	1.0 Pa	3.2 Pa
	Raccords	240.0 m³/h	-	2.1 m/s	2.7 Pa	-	0.8	-	2.2 Pa	
64	Gainé	30.0 m³/h	80ø	1.7 m/s	-	3549	-	0.71 Pa/m	2.5 Pa	2.5 Pa
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0	-	0.0 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	0.6 Pa
65	Raccords	45.0 m³/h	-	0.0 m/s	0.6 Pa	-	1	-	0.6 Pa	
	Gainé	45.0 m³/h	-	2.5 m/s	-	425	-	1.44 Pa/m	0.6 Pa	1.4 Pa
66	Raccords	45.0 m³/h	-	2.5 m/s	3.7 Pa	-	0.2	-	0.7 Pa	
	Bouche d'aération	45.0 m³/h	-	-	-	-	-	-	0.0 Pa	
67	Raccords	30.0 m³/h	-	0.0 m/s	0.3 Pa	-	-2	-	-0.6 Pa	-0.6 Pa
68	Raccords	45.0 m³/h	-	0.0 m/s	0.6 Pa	-	1	-	0.6 Pa	0.6 Pa
69	Raccords	30.0 m³/h	-	0.0 m/s	0.3 Pa	-	-0.4	-	-0.1 Pa	-0.1 Pa
70	Raccords	60.0 m³/h	-	0.0 m/s	0.4 Pa	-	0.2	-	0.1 Pa	0.1 Pa
71	Raccords	60.0 m³/h	-	0.0 m/s	0.4 Pa	-	-2	-	-0.8 Pa	-0.8 Pa
72	Raccords	0.0 m³/h	-	0.0 m/s	0.0 Pa	-	0	-	0.0 Pa	0.0 Pa
73	Raccords	240.0 m³/h	-	0.0 m/s	2.7 Pa	-	1.4	-	3.8 Pa	3.8 Pa
76	Raccords	0.0 m³/h	-	0.0 m/s	0.0 Pa	-	0	-	0.0 Pa	0.0 Pa
82	Gainé	30.0 m³/h	-	1.7 m/s	-	277	-	0.70 Pa/m	0.2 Pa	0.5 Pa
	Raccords	30.0 m³/h	-	1.7 m/s	1.7 Pa	-	0.2	-	0.3 Pa	
	Bouche d'aération	30.0 m³/h	-	-	-	-	-	-	0.0 Pa	
	Gainé	60.0 m³/h	-	3.3 m/s	-	193	-	2.42 Pa/m	0.5 Pa	
83	Raccords	60.0 m³/h	-	3.3 m/s	6.6 Pa	-	0.2	-	1.3 Pa	1.8 Pa
	Bouche d'aération	60.0 m³/h	-	-	-	-	-	-	0.0 Pa	
	Gainé	150.0 m³/h	125ø	3.4 m/s	-	119	-	1.49 Pa/m	0.2 Pa	0.9 Pa
89	Raccords	150.0 m³/h	-	3.4 m/s	6.9 Pa	-	0.1	-	0.7 Pa	
	Gainé	240.0 m³/h	160ø	3.3 m/s	-	107	-	1.05 Pa/m	0.1 Pa	1.4 Pa
96	Raccords	240.0 m³/h	-	3.3 m/s	6.6 Pa	-	0.2	-	1.3 Pa	
	Gainé	435.0 m³/h	200ø	3.8 m/s	-	361	-	0.93 Pa/m	0.3 Pa	12.8 Pa
97	Raccords	435.0 m³/h	-	3.8 m/s	8.9 Pa	-	1.4	-	12.5 Pa	
	Équipement	435.0 m³/h	-	-	-	-	-	-	0.0 Pa	0.3 Pa
102	Raccords	30.0 m³/h	-	0.0 m/s	0.3 Pa	-	1.2	-	0.3 Pa	
103	Raccords	150.0 m³/h	-	0.0 m/s	2.6 Pa	-	0.7	-	1.8 Pa	1.8 Pa
104	Gainé	45.0 m³/h	80ø	2.5 m/s	-	1704	-	1.48 Pa/m	2.5 Pa	3.2 Pa
	Raccords	45.0 m³/h	-	2.5 m/s	3.7 Pa	-	0.2	-	0.7 Pa	
	Bouche d'aération	45.0 m³/h	-	-	-	-	-	-	0.0 Pa	0.3 Pa
105	Raccords	45.0 m³/h	-	0.0 m/s	0.6 Pa	-	0.5	-	0.3 Pa	

Trajectoire critique : 104-65-46-45-89-103-96-73-60-29-97 ; Perte de pression totale : 36.8 Pa