

SO 02 - Posouzení kapacity výpustného potrubí

Hydraulický návrh profilu potrubí - ustálené rovnoměrné proudění				
Průměr potrubí		DN	1200	mm
Drsnost dle Manninga		n =	0.009	
Sklon potrubí		i =	15	‰
		i =	0.015	-
Poloměr potrubí		r =	0.6	m

h [m]	α [°]	O [m]	S [m ²]	R [m]	c	v [m.s ⁻¹]	Q [m ³ .s ⁻¹]	Q [l.s ⁻¹]
0.06	51.68	0.5412	0.02114	0.0391	64.72	1.57	0.0331	33.12
0.12	73.74	0.772	0.05886	0.0762	72.35	2.45	0.1440	144.00
0.18	91.15	0.954	0.10638	0.1115	77.08	3.15	0.3353	335.27
0.24	106.26	1.113	0.16103	0.1447	80.51	3.75	0.6040	603.99
0.30	120.00	1.257	0.22111	0.1760	83.17	4.27	0.9448	944.78
0.36	132.84	1.391	0.28536	0.2051	85.33	4.73	1.3507	1350.68
0.42	145.08	1.519	0.35277	0.2322	87.11	5.14	1.8135	1813.54
0.48	156.93	1.643	0.42245	0.2571	88.60	5.50	2.3243	2324.26
0.54	168.52	1.765	0.49361	0.2797	89.85	5.82	2.8729	2872.87
0.60	180.00	1.885	0.56549	0.3000	90.91	6.10	3.4486	3448.57
0.66	191.48	2.005	0.63737	0.3179	91.79	6.34	4.0397	4039.74
0.72	203.07	2.127	0.70852	0.3332	92.51	6.54	4.6338	4633.78
0.78	214.92	2.251	0.77820	0.3458	93.09	6.70	5.2171	5217.06
0.84	227.16	2.379	0.84561	0.3555	93.52	6.83	5.7746	5774.55
0.90	240.00	2.513	0.90987	0.3620	93.80	6.91	6.2894	6289.36
0.96	253.74	2.657	0.96995	0.3650	93.93	6.95	6.7417	6741.74
1.02	268.85	2.815	1.02459	0.3639	93.88	6.94	7.1071	7107.10
1.08	286.26	2.998	1.07211	0.3576	93.61	6.86	7.3510	7350.96
1.14	308.32	3.229	1.10983	0.3437	93.00	6.68	7.4111	7411.09
1.20	360.00	3.770	1.13097	0.3000	90.91	6.10	6.8971	6897.15