

Berechnungsgrundlage zum Auslegen von Rohrleitungen

Druck	Fläche	Q m³/sec			Q m³/h			Δp mm WG/m			Δp 90° Bogen		
		V = 20 m/sec	V = 25 m/sec	V = 30 m/sec	V = 20 m/sec	V = 25 m/sec	V = 30 m/sec	V = 20 m/sec	V = 25 m/sec	V = 30 m/sec	V = 20 m/sec	V = 25 m/sec	V = 30 m/sec
ø80	0.0050	0.100	0.125	0.150	360	450	540	6.80	10.50	15.20	5.96	9.30	13.25
ø100	0.0079	0.158	0.198	0.237	568	711	853	5.90	8.40	13.20	5.98	9.20	13.20
ø120	0.0114	0.228	0.285	0.342	820	1025	1231	4.60	7.10	10.30	5.83	9.10	13.05
ø140	0.0154	0.308	0.385	0.462	1108	1385	1663	3.70	5.80	8.30	5.77	9.00	12.90
ø150	0.0176	0.352	0.440	0.528	1267	1582	1900	3.50	5.40	7.80	5.70	8.90	12.75
ø160	0.0200	0.400	0.500	0.600	1440	1800	2160	3.20	5.10	7.30	5.64	8.80	12.65
ø180	0.0255	0.510	0.638	0.765	1836	2295	2754	2.80	4.20	6.00	5.57	8.70	12.50
ø200	0.0314	0.628	0.785	0.942	2260	2825	3390	2.40	3.80	5.45	5.51	8.60	12.35
ø225	0.0400	0.800	1.000	1.200	2880	3600	4320	2.10	3.20	4.60	5.45	8.50	12.20
ø250	0.0490	0.980	1.225	1.470	3528	4420	5292	1.85	2.90	4.15	5.38	8.40	12.05
ø300	0.0710	1.420	1.770	2.130	5115	6390	7668	1.47	2.30	3.30	5.32	8.30	11.90
ø350	0.0960	1.920	2.400	2.880	6912	8640	10368	1.22	1.90	2.70	5.26	8.20	11.75
ø400	0.1250	2.500	3.130	3.750	9000	11250	13500	0.96	1.50	2.15	5.20	8.10	11.60
ø450	0.1600	3.200	4.000	4.800	11520	14400	17280	0.83	1.30	1.85	5.13	8.00	11.50
ø500	0.1960	3.920	4.900	5.900	14110	17620	21170	0.74	1.15	1.65	5.06	7.90	11.35
ø550	0.2380	4.760	5.950	7.150	17135	21400	25705	0.64	1.00	1.45	5.00	7.80	11.20
ø600	0.2820	5.640	7.060	8.950	20300	25430	30455	0.58	0.90	1.30	4.93	7.70	11.05
ø650	0.3300	6.600	8.300	9.900	23760	29840	35640	0.52	0.80	1.12	4.87	7.60	10.90
ø700	0.3850	7.700	9.600	11.550	27720	34610	41580	0.46	0.72	1.03	4.80	7.50	10.75
ø750	0.4400	8.800	11.030	13.200	31680	39735	47520	0.42	0.66	0.94	4.74	7.40	10.60
ø800	0.5000	10.000	12.560	15.000	36600	45215	54000	0.38	0.60	0.86	4.68	7.30	10.45
ø850	0.5650	11.300	14.180	16.950	40680	51040	61020	0.35	0.55	0.79	4.62	7.20	10.30
ø900	0.6350	12.700	15.900	19.050	45720	57220	68580	0.33	0.52	0.74	4.55	7.10	10.20
ø950	0.7100	14.200	17.700	21.300	51120	63755	76680	0.32	0.50	0.71	4.49	7.00	10.10

PD = V = 20 m / s ≈ Pd = 25 mm WG, Abzweiger: ca. 4,0 mm WG

PD = V = 25 m / s ≈ Pd = 39 mm WG, Abzweiger: ca. 6,0 mm WG

PD = V = 30 m / s ≈ Pd = 56 mm WG, Abzweiger: ca. 8,5 mm WG