

Approximate Natural Gas Pressure Loss Data in (Mbar / m) in Steel Tube

Heat Input Gross	Heat Input Net	GAS RATE M3/HR	Pressure loss / m 1/4"	Pressure loss / m 3/8"	Pressure loss / m 1/2"	Pressure loss / m 3/4"	Pressure loss / m 1"	Pressure loss / m 1, 1/4"
1.08	0.98	0.1	0.0150	0.0032	0.0010	0.0003	0.0001	0.0000
2.16	1.96	0.2	0.0437	0.0092	0.0027	0.0007	0.0003	0.0001
3.24	2.95	0.3	0.0833	0.0173	0.0051	0.0013	0.0005	0.0001
4.32	3.93	0.4	0.1326	0.0274	0.0081	0.0021	0.0007	0.0002
5.40	4.91	0.5	0.1910	0.0393	0.0115	0.0029	0.0010	0.0003
6.48	5.89	0.6	0.2579	0.0528	0.0154	0.0039	0.0013	0.0004
7.56	6.88	0.7	0.3329	0.0680	0.0198	0.0050	0.0017	0.0005
8.64	7.86	0.8	0.4157	0.0847	0.0246	0.0062	0.0021	0.0006
9.72	8.84	0.9	0.5062	0.1029	0.0298	0.0075	0.0025	0.0007
10.81	9.82	1	0.6039	0.1226	0.0354	0.0089	0.0030	0.0008
11.89	10.81	1.1	0.7089	0.1436	0.0414	0.0104	0.0035	0.0010
12.97	11.79	1.2	0.8209	0.1661	0.0479	0.0119	0.0040	0.0011
14.05	12.77	1.3	0.9398	0.1899	0.0546	0.0136	0.0046	0.0013
15.13	13.75	1.4		0.2150	0.0618	0.0154	0.0052	0.0014
16.21	14.73	1.5		0.2415	0.0694	0.0172	0.0058	0.0016
17.29	15.72	1.6		0.2692	0.0773	0.0192	0.0065	0.0018
18.37	16.70	1.7		0.2982	0.0855	0.0212	0.0072	0.0020
19.45	17.68	1.8		0.3284	0.0941	0.0233	0.0079	0.0021
20.53	18.66	1.9		0.3599	0.1030	0.0255	0.0086	0.0023
21.61	19.65	2		0.3925	0.1123	0.0278	0.0094	0.0025
22.69	20.63	2.1		0.4264	0.1220	0.0302	0.0101	0.0028
23.77	21.61	2.2		0.4615	0.1319	0.0326	0.0110	0.0030
24.85	22.59	2.3		0.4977	0.1422	0.0351	0.0118	0.0032
25.93	23.58	2.4		0.5351	0.1528	0.0377	0.0127	0.0034
27.01	24.56	2.5		0.5736	0.1637	0.0404	0.0136	0.0037
28.09	25.54	2.6		0.6133	0.1750	0.0431	0.0145	0.0039
29.17	26.52	2.7		0.6541	0.1866	0.0460	0.0154	0.0042
30.25	27.50	2.8		0.6961	0.1984	0.0489	0.0164	0.0044
31.33	28.49	2.9		0.7391	0.2106	0.0518	0.0174	0.0047
32.42	29.47	3	0.9230	0.7833	0.2231	0.0549	0.0184	0.0050
33.50	30.45	3.1		0.8285	0.2359	0.0580	0.0194	0.0053
34.58	31.43	3.2		0.8749	0.2490	0.0612	0.0205	0.0055
35.66	32.42	3.3		0.9223	0.2624	0.0645	0.0216	0.0058
36.74	33.40	3.4		0.9708	0.2762	0.0678	0.0227	0.0061
37.82	34.38	3.5			0.2902	0.0712	0.0238	0.0064
38.90	35.36	3.6			0.3045	0.0747	0.0250	0.0067
39.98	36.35	3.7			0.3191	0.0783	0.0262	0.0071
41.06	37.33	3.8			0.3340	0.0819	0.0274	0.0074
42.14	38.31	3.9			0.3491	0.0856	0.0286	0.0077
43.22	39.29	4			0.3646	0.0894	0.0299	0.0080
44.30	40.27	4.1			0.3804	0.0932	0.0311	0.0084
45.38	41.26	4.2			0.3964	0.0971	0.0324	0.0087
46.46	42.24	4.3			0.4127	0.1011	0.0338	0.0091
47.54	43.22	4.4			0.4294	0.1051	0.0351	0.0094
48.62	44.20	4.5			0.4462	0.1092	0.0365	0.0098
49.70	45.19	4.6			0.4634	0.1134	0.0378	0.0102
50.78	46.17	4.7			0.4809	0.1177	0.0393	0.0105
51.86	47.15	4.8			0.4986	0.1220	0.0407	0.0109
52.94	48.13	4.9			0.5166	0.1263	0.0421	0.0113
54.03	49.12	5			0.5349	0.1308	0.0436	0.0117
55.11	50.10	5.1			0.5534	0.1353	0.0451	0.0121
56.19	51.08	5.2			0.5722	0.1398	0.0466	0.0125
57.27	52.06	5.3			0.5913	0.1445	0.0481	0.0129
58.35	53.04	5.4			0.6107	0.1492	0.0497	0.0133
59.43	54.03	5.5			0.6303	0.1539	0.0513	0.0137
60.51	55.01	5.6			0.6502	0.1588	0.0529	0.0142
61.59	55.99	5.7			0.6704	0.1637	0.0545	0.0146
62.67	56.97	5.8			0.6908	0.1686	0.0561	0.0150



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			1/4"	3/8"	1/2"	3/4"	1"	1, 1/4"
63.75	57.96	5.9			0.7115	0.1736	0.0578	0.0155
64.83	58.94	6			0.7325	0.1787	0.0595	0.0159
67.53	61.39	6.25			0.7860	0.1917	0.0638	0.0171
70.23	63.85	6.5			0.8412	0.2051	0.0682	0.0182
72.93	66.31	6.75			0.8980	0.2188	0.0728	0.0195
75.64	68.76	7	17.1167	4.3849	0.9564	0.2330	0.0774	0.0207
78.34	71.22	7.25				0.2475	0.0823	0.0220
81.04	73.67	7.5				0.2624	0.0872	0.0233
83.74	76.13	7.75				0.2777	0.0922	0.0246
86.44	78.58	8	21.6329	4.2732	1.2052	0.2933	0.0974	0.0260
89.14	81.04	8.25				0.3093	0.1027	0.0274
91.84	83.50	8.5				0.3257	0.1081	0.0288
94.54	85.95	8.75				0.3425	0.1136	0.0303
97.25	88.41	9	26.6068	5.2486	1.4789	0.3596	0.1193	0.0318
99.95	90.86	9.25				0.3771	0.1251	0.0333
102.65	93.32	9.5				0.3949	0.1309	0.0349
105.35	95.77	9.75				0.4131	0.1369	0.0365
108.05	98.23	10	32.0281	6.3117	1.7781	0.4316	0.1431	0.0381
110.75	100.69	10.25				0.4505	0.1493	0.0397
113.45	103.14	10.5				0.4698	0.1556	0.0414
116.15	105.60	10.75				0.4894	0.1621	0.0431
118.86	108.05	11	37.8874	7.4598	2.1000	0.5093	0.1687	0.0449
121.56	110.51	11.25				0.5296	0.1754	0.0466
124.26	112.96	11.5				0.5503	0.1822	0.0484
126.96	115.42	11.75				0.5712	0.1891	0.0503
129.66	117.88	12	44.1789	8.6913	2.4451	0.5925	0.1961	0.0521
132.36	120.33	12.25				0.6142	0.2033	0.0540
135.06	122.79	12.5				0.6362	0.2105	0.0559
137.76	125.24	12.75				0.6585	0.2179	0.0579
140.47	127.70	13	50.8803	10.0042	2.8129	0.6812	0.2253	0.0598
143.17	130.15	13.25				0.7042	0.2329	0.0618
145.87	132.61	13.5				0.7275	0.2406	0.0639
148.57	135.07	13.75				0.7512	0.2484	0.0659
151.27	137.52	14	58.0183	11.3990	3.1031	0.7752	0.2563	0.0680
153.97	139.98	14.25				0.7995	0.2643	0.0701
156.67	142.43	14.5				0.8242	0.2724	0.0723
159.37	144.89	14.75				0.8492	0.2806	0.0744
162.08	147.35	15	65.1103	12.8919	3.6155	0.8745	0.2890	0.0766
164.78	149.80	15.25				0.9001	0.2974	0.0789
167.48	152.26	15.5				0.9261	0.3059	0.0811
170.18	154.71	15.75				0.9523	0.3146	0.0834
172.88	157.17	16	73.5031	14.4249	4.0496	0.9789	0.3233	0.0857

