



## Low Pressure Flow of Propane Gas in DriscoPlex® Pipe

**Inlet Pressure:** 11 in. w.c.  
**Pressure Drop:** 0.5 in. w.c.

Length (ft)	Calculated Maximum Capacity (Propane Gas) (1000 BTU's Per Hour)								
	CTS			IPS					
Nom OD	1/2	1	3/4	1	1-1/4	1-1/2	2	3	4
DR	7	11.5	11	11	10	11	11	11.5	11.5
Avg ID	0.436	0.918	0.848	1.062	1.308	1.534	1.917	2.855	3.670
10	116	826	670	1211	2098	3188	5734	16336	31637
20	80	568	461	833	1443	2193	3944	11236	21759
30	64	456	370	669	1159	1762	3168	9026	17481
40	55	391	317	573	992	1508	2712	7728	14965
50	49	346	281	508	880	1337	2404	6850	13267
60	44	314	255	460	797	1212	2179	6208	12023
70	41	289	234	424	733	1115	2005	5712	11062
80	38	269	218	394	682	1037	1865	5315	10293
90	36	252	205	370	640	973	1750	4987	9659
100	34	238	193	349	605	920	1654	4711	9124
125	30	211	171	310	536	815	1466	4177	8089
150	27	191	155	281	486	739	1329	3785	7330
175	25	176	143	258	447	680	1222	3483	6745
200	23	164	133	240	416	632	1137	3240	6275
250	20	145	118	213	369	561	1008	2873	5563
300	19	132	107	193	334	508	914	2603	5041
350	17	121	98	178	308	468	841	2395	4639
400	16	113	91	165	286	435	782	2229	4316
450	15	106	86	155	269	408	734	2091	4050
500	14	100	81	146	254	386	693	1976	3826

1. Average ID used in all calculations. It equals the nominal OD minus 2.12 times the minimum wall thickness.
2. For flow in SCF/hr at sea level divide flow by 2488. Heat value of Propane Gas is 2488 BTU/scf at sea level.
3. Calculations used low pressure equation from Chapter 12 in National Fuel Gas Code.

$$Q := \frac{2362D^{2.63}}{C_R^{0.540}} \cdot \left( \frac{\Delta H}{L} \right)^{0.540}$$

Q = Flow (cubic ft per hr), D = ID (in), Cr = 1.2462 for propane, ΔH = pressure drop (in w.c.),  
L = equivalent length (ft)

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