



## USEFUL TECHNICAL DATA

### END FORCE CHART IN POUNDS

HOSE I.D. (in.)	50 PSI	100 PSI	150 PSI	200 PSI	250 PSI	300 PSI	400 PSI	500 PSI	1000 PSI
1/4	2	5	7	10	12	15	20	25	49
3/8	6	11	17	22	28	33	44	55	110
1/2	10	20	29	39	49	59	79	98	196
3/4	22	44	66	88	110	133	177	221	442
1	39	79	118	157	196	236	314	393	785
1 1/4	61	123	184	245	307	368	491	614	1,227
1 1/2	88	177	265	353	442	530	707	884	1,767
2	157	314	471	628	785	942	1,257	1,571	3,142
2 1/2	245	491	736	982	1,227	1,473	1,964	2,454	4,909
3	353	707	1,060	1,414	1,767	2,121	2,827	3,534	7,069
4	628	1,257	1,885	2,513	3,142	3,770	5,027	6,283	12,566
5	982	1,964	2,945	3,927	4,909	5,891	7,854	9,818	19,635
6	1,414	2,827	4,241	5,655	7,069	8,482	11,310	14,137	28,274
8	2,513	5,027	7,540	10,053	12,566	15,080	20,106	25,133	50,266
10	3,927	7,854	11,781	15,708	19,635	23,562	31,416	39,270	78,540
12	5,655	11,310	16,965	22,620	28,274	33,929	45,239	56,549	113,098

**NOTE:** For hose I.D.s from 1 1/4" to 12", the force in pounds is greater than the psi.

**FORCE** is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of **FORCE** exerted, you merely multiply the area of the I.D. times the working pressure being used.

Area of a circle is:  $\pi \times r^2$  ( $\pi$  [3.1416] times radius squared). **Force = Area x Pressure**

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