



## 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**

# ACTION PLAN.

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