

## Water Flow Pressure Loss (PSI per 100 feet of Hose)

| Flow of water in US Gal./min | Flow of water in cu. ft./sec. | Actual Internal Diameter, Inches |       |       |       |       |       |       |       |      |
|------------------------------|-------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|------|
|                              |                               | 1/2                              | 5/8   | 3/4   | 1     | 1 1/4 | 1 1/2 | 2     | 2 1/2 | 3    |
| 0.5                          | .001                          | 0.4                              |       |       |       |       |       |       |       |      |
| 1.5                          | .003                          | 3.02                             | 1.01  | .042  |       |       |       |       |       |      |
| 2.5                          | .005                          | 7.75                             | 2.58  | 1.08  |       |       |       |       |       |      |
| 5                            | .011                          | 27.8                             | 9.27  | 3.86  | 0.95  | 0.32  | 0.13  |       |       |      |
| 10                           | .022                          | 99.5                             | 33.2  | 13.8  | 3.38  | 1.14  | 0.47  | 0.12  |       |      |
| 15                           | .033                          |                                  | 71.0  | 29.6  | 7.25  | 2.45  | 1.01  | 0.25  | 0.08  |      |
| 20                           | .044                          |                                  | 121.0 | 50.3  | 12.4  | 4.15  | 1.71  | 0.42  | 0.14  |      |
| 25                           | .055                          |                                  |       | 76.5  | 18.7  | 6.34  | 2.60  | 0.64  | 0.22  |      |
| 30                           | .066                          |                                  |       | 108.0 | 26.5  | 8.96  | 3.68  | 0.90  | 0.30  | 0.13 |
| 35                           | .077                          |                                  |       | 142.0 | 34.8  | 11.8  | 4.83  | 1.18  | 0.40  | 0.17 |
| 40                           | .088                          |                                  |       |       | 44.7  | 15.1  | 6.20  | 1.52  | 0.51  | 0.21 |
| 45                           | .099                          |                                  |       |       | 55.0  | 18.6  | 7.65  | 1.87  | 0.63  | 0.26 |
| 50                           | .110                          |                                  |       |       | 67.5  | 22.8  | 9.35  | 2.28  | 0.78  | 0.32 |
| 60                           | .132                          |                                  |       |       | 94.3  | 31.8  | 13.1  | 3.19  | 1.08  | 0.45 |
| 70                           | .154                          |                                  |       |       | 126.0 | 42.5  | 17.5  | 4.25  | 1.44  | 0.60 |
| 80                           | .176                          |                                  |       |       |       | 54.6  | 22.5  | 5.48  | 1.86  | 0.77 |
| 90                           | .198                          |                                  |       |       |       | 67.5  | 27.8  | 6.80  | 2.30  | 0.95 |
| 100                          | .223                          |                                  |       |       |       | 81.5  | 33.5  | 8.19  | 2.78  | 1.15 |
| 125                          | .278                          |                                  |       |       |       | 124.0 | 50.6  | 12.4  | 4.20  | 1.73 |
| 150                          | .334                          |                                  |       |       |       |       | 72.1  | 17.6  | 6.97  | 2.46 |
| 175                          | .390                          |                                  |       |       |       |       | 94.5  | 23.1  | 7.83  | 3.23 |
| 200                          | .446                          |                                  |       |       |       |       | 122.0 | 29.6  | 10.1  | 4.15 |
| 225                          | .501                          |                                  |       |       |       |       |       | 36.8  | 12.5  | 5.15 |
| 250                          | .557                          |                                  |       |       |       |       |       | 44.6  | 15.2  | 6.28 |
| 275                          | .613                          |                                  |       |       |       |       |       | 53.3  | 18.1  | 7.45 |
| 300                          | .688                          |                                  |       |       |       |       |       | 62.5  | 21.2  | 8.75 |
| 325                          | .724                          |                                  |       |       |       |       |       | 72.5  | 24.6  | 10.2 |
| 350                          | .780                          |                                  |       |       |       |       |       | 83.2  | 28.2  | 11.7 |
| 375                          | .836                          |                                  |       |       |       |       |       | 94.5  | 32.1  | 13.3 |
| 400                          | .891                          |                                  |       |       |       |       |       | 107.0 | 36.2  | 14.9 |
| 450                          | 1.00                          |                                  |       |       |       |       |       |       | 44.9  | 18.6 |
| 500                          | 1.11                          |                                  |       |       |       |       |       |       | 54.5  | 22.5 |