

Monel® 400

Construction:

Monel® 400 hose and braid
Annular construction

Maximum Working Pressure:

Full vacuum up to 3025 psig
depending on size

Sizes:

1/2" through 3"

Temperature:

Cryogenic to 800°F

500 Unbraided
502 Two Braid

501 One Braid

| NOMINAL HOSE I.D. | HOSE TYPE | HOSE O.D. | WEIGHT PER FT. | MIN.LIVE LENGTH FOR VIBRATION | MINIMUM BEND RADIUS | | MAXIMUM WORKING PRESSURE | MAXIMUM TEST PRESSURE | NORMAL BURST PRESSURE |
|----------------------|--------------|--------------|-------------------|-------------------------------------|---------------------|--------------------|--------------------------------|-----------------------------|-----------------------------|
| | | | | | STATIC BEND | DYNAMIC FLEXING | | | |
| 1/4" | 500 | 0.49 | 0.16 | 3.75 | 0.875 | 5.500 | 180 | 270 | — |
| | 501 | 0.55 | 0.23 | 3.75 | 0.875 | 5.500 | 2250 | 3375 | 9000 |
| | 502 | 0.61 | 0.31 | 3.75 | 0.875 | 5.500 | 3025 | 4535 | 12100 |
| 3/8" | 500 | 0.66 | 0.24 | 4.50 | 1.125 | 6.000 | 140 | 210 | — |
| | 501 | 0.73 | 0.34 | 4.50 | 1.125 | 6.000 | 1575 | 2360 | 6300 |
| | 502 | 0.79 | 0.44 | 4.50 | 1.125 | 6.000 | 2050 | 3075 | 8200 |
| 1/2" | 500 | 0.84 | 0.40 | 5.00 | 1.500 | 7.000 | 120 | 180 | — |
| | 501 | 0.90 | 0.51 | 5.00 | 1.500 | 7.000 | 835 | 1250 | 3340 |
| | 502 | 0.96 | 0.64 | 5.00 | 1.500 | 7.000 | 1500 | 2250 | 6000 |
| 3/4" | 500 | 1.21 | 0.79 | 5.75 | 2.125 | 8.500 | 90 | 135 | — |
| | 501 | 1.27 | 0.96 | 5.75 | 2.125 | 8.500 | 600 | 900 | 2400 |
| | 502 | 1.33 | 1.15 | 5.75 | 2.125 | 8.500 | 1080 | 1620 | 4320 |
| 1" | 500 | 1.53 | 1.02 | 7.00 | 2.750 | 10.000 | 56 | 85 | — |
| | 501 | 1.59 | 1.22 | 7.00 | 2.750 | 10.000 | 420 | 630 | 1680 |
| | 502 | 1.65 | 1.44 | 7.00 | 2.750 | 10.000 | 755 | 1130 | 3025 |
| 1 1/4" | 500 | 1.86 | 1.61 | 7.50 | 3.250 | 11.500 | 53 | 80 | — |
| | 501 | 1.92 | 1.84 | 7.50 | 3.250 | 11.500 | 315 | 420 | 1270 |
| | 502 | 1.98 | 2.08 | 7.50 | 3.250 | 11.500 | 570 | 855 | 2285 |
| 1 1/2" | 500 | 2.19 | 1.97 | 8.00 | 3.750 | 13.000 | 37 | 55 | — |
| | 501 | 2.29 | 2.55 | 8.00 | 3.750 | 13.000 | 565 | 850 | 2260 |
| | 502 | 2.39 | 3.16 | 8.00 | 3.750 | 13.000 | 1015 | 1526 | 4060 |
| 2" | 500 | 2.83 | 2.63 | 9.50 | 5.000 | 16.000 | 20 | 30 | — |
| | 501 | 2.93 | 3.37 | 9.50 | 5.000 | 16.000 | 415 | 620 | 1660 |
| | 502 | 3.03 | 4.11 | 9.50 | 5.000 | 16.000 | 745 | 1015 | 2985 |
| 3" | 500 | 3.57 | 1.69 | 9.00 | 8.250 | 21.000 | 4 | 6 | — |
| | 501 | 3.67 | 2.50 | 9.00 | 8.250 | 21.000 | 225 | 335 | 900 |
| | 502 | 3.77 | 3.32 | 9.00 | 8.250 | 21.000 | 425 | 635 | 1700 |

Monel® Slip-On Braid Specifications

| TYPICAL HOSE O.D. (IN.) | NOMINAL HOSE I.D. (IN.) | BRAID I.D. (IN.) | BRAID CONSTRUCTION | BRAID ANGLE | COVERAGE (%) | WORKING PRESSURE (PSIG) | WEIGHT (LB/FT) |
|-------------------------------|-------------------------------|------------------------|-----------------------|----------------|-----------------|-------------------------------|-------------------|
| 0.49 | 1/4 | 0.48 | 24x5x.0126 | 52 | 84.0 | 1665 | 0.07 |
| 0.66 | 3/8 | 0.66 | 24x7x.0126 | 52 | 86.1 | 1160 | 0.10 |
| 0.84 | 1/2 | 0.84 | 24x8x.0126 | 52 | 80.8 | 830 | 0.12 |
| 1.21 | 3/4 | 1.20 | 48x6x.0126 | 52 | 83.7 | 605 | 0.17 |
| 1.53 | 1 | 1.53 | 48x8x.0126 | 52 | 86.2 | 415 | 0.23 |
| 1.86 | 1 1/4 | 1.86 | 48x10x.0126 | 52 | 97.6 | 315 | 0.29 |
| 2.19 | 1 1/2 | 2.19 | 48x8x.020 | 52 | 90.8 | 570 | 0.58 |
| 2.83 | 2 | 2.83 | 48x10x.020 | 52 | 89.5 | 415 | 0.73 |
| 3.57 | 3 | 3.57 | 48x10x.020 | 45 | 94.3 | 185 | 0.64 |

A400

Construction:

Monel® 400 hose and braid
Annular construction

Maximum Working Pressure:

From Full Vacuum to 209 bar
depending on size and braid configuration

Sizes:

¼" through 3"

Temperature:

From Cryogenic to 427°C

A400 – Unbraided

A400-1 – One Braid

A400-2 – Two Braid

| NOMINAL HOSE I.D. | HOSE TYPE | HOSE O.D. mm | WEIGHT kg/m | MIN.LIVE LENGTH FOR VIBRATION mm | MINIMUM BEND RADIUS | | MAXIMUM WORKING PRESSURE bar | MAXIMUM TEST PRESSURE bar | NORMAL BURST PRESSURE bar |
|----------------------|--------------|--------------------|----------------|---|----------------------|--------------------------|---------------------------------------|------------------------------------|------------------------------------|
| | | | | | STATIC BEND mm | DYNAMIC FLEXING mm | | | |
| 1/4" | A400 | 12.4 | 0.24 | 95 | 22 | 140 | 12.4 | 18.6 | - |
| | A400-1 | 14.0 | 0.34 | 95 | 22 | 140 | 155.1 | 232.7 | 620.4 |
| | A400-2 | 15.5 | 0.46 | 95 | 22 | 140 | 208.6 | 312.7 | 834.3 |
| 3/8" | A400 | 16.8 | 0.36 | 114 | 29 | 152 | 9.7 | 14.5 | - |
| | A400-1 | 18.5 | 0.51 | 114 | 29 | 152 | 108.6 | 162.7 | 434.4 |
| | A400-2 | 20.1 | 0.65 | 114 | 29 | 152 | 141.3 | 212.0 | 565.4 |
| 1/2" | A400 | 21.3 | 0.60 | 127 | 38 | 178 | 8.3 | 12.4 | - |
| | A400-1 | 22.9 | 0.76 | 127 | 38 | 178 | 57.6 | 86.2 | 230.3 |
| | A400-2 | 24.4 | 0.95 | 127 | 38 | 178 | 103.4 | 155.1 | 413.7 |
| 3/4" | A400 | 30.7 | 1.18 | 146 | 54 | 216 | 6.2 | 9.3 | - |
| | A400-1 | 32.3 | 1.43 | 146 | 54 | 216 | 41.4 | 62.1 | 165.5 |
| | A400-2 | 33.8 | 1.71 | 146 | 54 | 216 | 74.5 | 111.7 | 297.9 |
| 1" | A400 | 38.9 | 1.52 | 178 | 70 | 254 | 3.9 | 5.9 | - |
| | A400-1 | 40.4 | 1.82 | 178 | 70 | 254 | 29.0 | 43.4 | 115.8 |
| | A400-2 | 41.9 | 2.14 | 178 | 70 | 254 | 52.1 | 77.9 | 208.6 |
| 1 1/4" | A400 | 47.2 | 2.40 | 191 | 83 | 292 | 3.7 | 5.5 | - |
| | A400-1 | 48.8 | 2.74 | 191 | 83 | 292 | 21.7 | 29.0 | 87.6 |
| | A400-2 | 50.3 | 3.10 | 191 | 83 | 292 | 39.3 | 59.0 | 157.5 |
| 1 1/2" | A400 | 55.6 | 2.93 | 203 | 95 | 330 | 2.6 | 3.8 | - |
| | A400-1 | 58.2 | 3.79 | 203 | 95 | 330 | 39.0 | 58.6 | 155.8 |
| | A400-2 | 60.7 | 4.70 | 203 | 95 | 330 | 70.0 | 105.2 | 279.9 |
| 2" | A400 | 71.9 | 3.91 | 241 | 127 | 406 | 1.4 | 2.1 | - |
| | A400-1 | 74.4 | 5.02 | 241 | 127 | 406 | 28.6 | 42.7 | 114.5 |
| | A400-2 | 77.0 | 6.12 | 241 | 127 | 406 | 51.4 | 70.0 | 205.8 |
| 3" | A400 | 90.7 | 2.51 | 229 | 210 | 533 | 0.3 | 0.4 | - |
| | A400-1 | 93.2 | 3.72 | 229 | 210 | 533 | 15.5 | 23.1 | 62.1 |
| | A400-2 | 95.8 | 4.94 | 229 | 210 | 533 | 29.3 | 43.8 | 117.2 |