

UFBX™ (T321 SS)

Construction:

T321 stainless steel hose
Series 300 stainless steel braid
 Direct braided 1/4" through 2" on **reels**
 Annular construction

Maximum Working Pressure:

UFBX from Full Vacuum to 3190 psig
 depending on size and braid configuration

Temperature:

Cryogenic to 1250°F

UFBX0 – Unbraided

UFBX1 – One Braid

UFBX2 – Two Braid

Sizes:

UFBX in 1/4" to 2" diameters are designed and certified to ISO 10380 Specifications.

| NOMINAL HOSE I.D. | HOSE TYPE | HOSE O.D. | WEIGHT PER FT. | MIN.LIVE LENGTH FOR VIBRATION | MINIMUM BEND RADIUS STATIC BEND | MINIMUM BEND RADIUS DYNAMIC FLEXING | MAXIMUM WORKING PRESSURE | MAXIMUM TEST PRESSURE | NORMAL BURST PRESSURE |
|-------------------|-----------|-----------|----------------|-------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------------|-----------------------|
| 1/4" | UFBX0 | 0.40 | 0.05 | 3.00 | 0.630 | 4.300 | 145 | 218 | — |
| | UFBX1 | 0.45 | 0.11 | 3.00 | 1.000 | 4.300 | 2420 | 3630 | 9680 |
| | UFBX2 | 0.50 | 0.16 | 3.00 | 1.000 | 4.300 | 3190 | 4785 | 12760 |
| 3/8" | UFBX0 | 0.59 | 0.11 | 3.50 | 0.870 | 6.000 | 80 | 120 | — |
| | UFBX1 | 0.64 | 0.18 | 3.50 | 1.500 | 6.000 | 1450 | 2175 | 5800 |
| | UFBX2 | 0.69 | 0.25 | 3.50 | 1.500 | 6.000 | 2580 | 3870 | 10320 |
| 1/2" | UFBX0 | 0.77 | 0.11 | 4.25 | 0.940 | 6.500 | 80 | 120 | — |
| | UFBX1 | 0.83 | 0.22 | 4.25 | 1.750 | 6.500 | 1075 | 1615 | 4300 |
| | UFBX2 | 0.88 | 0.33 | 4.25 | 1.750 | 6.500 | 1500 | 2250 | 6000 |
| 3/4" | UFBX0 | 1.02 | 0.18 | 4.50 | 1.200 | 8.000 | 60 | 90 | — |
| | UFBX1 | 1.08 | 0.35 | 4.50 | 2.750 | 8.000 | 950 | 1425 | 3800 |
| | UFBX2 | 1.14 | 0.52 | 4.50 | 2.750 | 8.000 | 1250 | 1875 | 5000 |
| 1" | UFBX0 | 1.33 | 0.21 | 5.50 | 1.700 | 8.000 | 60 | 90 | — |
| | UFBX1 | 1.41 | 0.47 | 5.50 | 3.500 | 8.000 | 725 | 1087 | 2900 |
| | UFBX2 | 1.49 | 0.73 | 5.50 | 3.500 | 8.000 | 1110 | 1650 | 4470 |
| 1 1/4" | UFBX0 | 1.62 | 0.27 | 6.00 | 2.200 | 10.000 | 50 | 75 | — |
| | UFBX1 | 1.70 | 0.57 | 6.00 | 4.500 | 10.000 | 563 | 845 | 2252 |
| | UFBX2 | 1.78 | 0.87 | 6.00 | 4.500 | 10.000 | 825 | 1237 | 3300 |
| 1 1/2" | UFBX0 | 1.88 | 0.45 | 6.25 | 2.700 | 10.000 | 35 | 53 | — |
| | UFBX1 | 1.95 | 0.94 | 6.25 | 5.000 | 10.000 | 500 | 750 | 2000 |
| | UFBX2 | 2.05 | 1.43 | 6.25 | 5.000 | 10.000 | 800 | 1200 | 3200 |
| 2" | UFBX0 | 2.45 | 0.55 | 7.50 | 3.500 | 14.000 | 15 | 23 | — |
| | UFBX1 | 2.53 | 1.00 | 7.50 | 7.630 | 14.000 | 478 | 717 | 1912 |
| | UFBX2 | 2.61 | 1.50 | 7.50 | 7.630 | 14.000 | 638 | 957 | 2552 |
| 2 1/2" | UFBX0 | 3.11 | 1.00 | 11.00 | 7.000 | 16.000 | 6 | 9 | — |
| | UFBX1 | 3.21 | 1.77 | 11.00 | 7.000 | 16.000 | 450 | 675 | 1800 |
| | UFBX2 | 3.30 | 2.54 | 11.00 | 7.000 | 16.000 | 670 | 1005 | 2680 |
| 3" | UFBX0 | 3.57 | 1.35 | 11.00 | 8.250 | 19.000 | 4 | 6 | — |
| | UFBX1 | 3.69 | 1.83 | 11.00 | 8.250 | 19.000 | 445 | 670 | 1780 |
| | UFBX2 | 3.76 | 2.57 | 11.00 | 8.250 | 19.000 | 560 | 850 | 2240 |
| 3 1/2" | UFBX0 | 4.14 | 1.69 | 11.50 | 9.750 | 20.500 | 3 | 4 | — |
| | UFBX1 | 4.26 | 1.91 | 11.50 | 9.750 | 20.500 | 265 | 400 | 1060 |
| 4" | UFBX0 | 4.72 | 1.66 | 12.00 | 11.000 | 22.000 | 2 | 3 | — |
| | UFBX1 | 4.82 | 2.59 | 12.00 | 11.000 | 22.000 | 285 | 425 | 1140 |
| | UFBX2 | 4.91 | 3.52 | 12.00 | 11.000 | 22.000 | 375 | 565 | 1500 |
| 5" | UFBX0 | 5.86 | 2.27 | 13.00 | 13.500 | 28.000 | 2.8 | 4 | — |
| | UFBX1 | 5.96 | 3.57 | 13.00 | 13.500 | 28.000 | 265 | 500 | 1060 |
| 6" | UFBX0 | 7.00 | 3.53 | 14.00 | 16.000 | 34.000 | 3 | 4.5 | — |
| | UFBX1 | 7.10 | 5.22 | 14.00 | 16.000 | 34.000 | 195 | 290 | 780 |
| | UFBX2 | 7.19 | 6.91 | 14.00 | 16.000 | 34.000 | 195 | 290 | 780 |
| 8" | UFBX0 | 9.06 | 4.59 | 16.00 | 20.000 | 42.000 | 2 | 3 | — |
| | UFBX1 | 9.16 | 7.91 | 16.00 | 20.000 | 42.000 | 220 | 325 | 870 |
| | UFBX2 | 9.26 | 11.23 | 16.00 | 20.000 | 42.000 | 270 | 405 | 1080 |
| 10" | UFBX0 | 11.19 | 5.93 | 24.00 | 34.000 | 69.000 | 2 | 3 | — |
| | UFBX1 | 11.29 | 10.30 | 24.00 | 34.000 | 69.000 | 210 | 315 | 840 |
| | UFBX2 | 11.39 | 14.67 | 24.00 | 34.000 | 69.000 | 375 | 565 | 1500 |
| 12" | UFBX0 | 13.25 | 7.08 | 27.00 | 37.000 | 74.000 | 1.8 | 2.8 | — |
| | UFBX1 | 13.35 | 13.62 | 27.00 | 37.000 | 74.000 | 200 | 300 | 800 |
| | UFBX2 | 13.45 | 20.16 | 27.00 | 37.000 | 74.000 | 360 | 540 | 1440 |

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 Direct braided 1/4" through 2" on **reels**
 Annular construction

Maximum Working Pressure:

From Full Vacuum to 220 bar
 depending on size and braid configuration

Temperature:

From Cryogenic to 816°C

UFBX0 – Unbraided

UFBX1 – One Braid

UFBX2 – Two Braid

Sizes:

UFBX in 1/4" to 2" diameters are designed and certified to ISO 10380 Specifications.

| 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" | UFBX0 | 10.2 | 0.07 | 76 | 16 | 109 | 10.0 | 15.0 | - |
| | UFBX1 | 11.4 | 0.16 | 76 | 25 | 109 | 166.9 | 250.3 | 667.4 |
| | UFBX2 | 12.7 | 0.24 | 76 | 25 | 109 | 219.9 | 329.9 | 879.8 |
| 3/8" | UFBX0 | 15.0 | 0.16 | 89 | 22 | 152 | 5.5 | 8.3 | - |
| | UFBX1 | 16.3 | 0.27 | 89 | 38 | 152 | 100.0 | 150.0 | 399.9 |
| | UFBX2 | 17.5 | 0.37 | 89 | 38 | 152 | 177.9 | 266.8 | 711.5 |
| 1/2" | UFBX0 | 19.6 | 0.16 | 108 | 24 | 165 | 5.5 | 8.3 | - |
| | UFBX1 | 21.1 | 0.33 | 108 | 44 | 165 | 74.1 | 111.4 | 296.5 |
| | UFBX2 | 22.4 | 0.49 | 108 | 44 | 165 | 103.4 | 155.1 | 413.7 |
| 3/4" | UFBX0 | 25.9 | 0.27 | 114 | 30 | 203 | 4.1 | 6.2 | - |
| | UFBX1 | 27.4 | 0.52 | 114 | 70 | 203 | 65.5 | 98.3 | 262.0 |
| | UFBX2 | 29.0 | 0.77 | 114 | 70 | 203 | 86.2 | 129.3 | 344.7 |
| 1" | UFBX0 | 33.8 | 0.31 | 140 | 43 | 203 | 4.1 | 6.2 | - |
| | UFBX1 | 35.8 | 0.70 | 140 | 89 | 203 | 50.0 | 74.9 | 199.9 |
| | UFBX2 | 37.8 | 1.09 | 140 | 89 | 203 | 76.5 | 113.8 | 308.2 |
| 1 1/4" | UFBX0 | 41.1 | 0.40 | 152 | 56 | 254 | 3.4 | 5.2 | - |
| | UFBX1 | 43.2 | 0.85 | 152 | 114 | 254 | 38.8 | 58.3 | 155.3 |
| | UFBX2 | 45.2 | 1.29 | 152 | 114 | 254 | 56.9 | 85.3 | 227.5 |
| 1 1/2" | UFBX0 | 47.8 | 0.67 | 159 | 69 | 254 | 2.4 | 3.7 | - |
| | UFBX1 | 49.5 | 1.40 | 159 | 127 | 254 | 34.5 | 51.7 | 137.9 |
| | UFBX2 | 52.1 | 2.13 | 159 | 127 | 254 | 55.2 | 82.7 | 220.6 |
| 2" | UFBX0 | 62.2 | 0.82 | 191 | 89 | 356 | 1.0 | 1.6 | - |
| | UFBX1 | 64.3 | 1.49 | 191 | 194 | 356 | 33 | 49.4 | 131.8 |
| | UFBX2 | 66.3 | 2.23 | 191 | 194 | 356 | 44 | 66.0 | 176.0 |
| 2 1/2" | UFBX0 | 76.5 | 1.93 | 191 | 114 | 406 | 1.0 | 1.6 | - |
| | UFBX1 | 78.5 | 2.83 | 191 | 201 | 406 | 26.0 | 39.0 | 104.0 |
| | UFBX2 | 80.8 | 3.72 | 191 | 201 | 406 | 46.0 | 69.0 | 184.0 |
| 3" | UFBX0 | 90.7 | 2.01 | 279 | 210 | 483 | 0.3 | 0.4 | - |
| | UFBX1 | 93.7 | 2.72 | 279 | 210 | 483 | 25.9 | 38.6 | 103.4 |
| | UFBX2 | 95.5 | 3.82 | 279 | 210 | 483 | 37.9 | 56.9 | 151.7 |
| 3 1/2" | UFBX0 | 105.2 | 2.51 | 292 | 248 | 521 | 0.2 | 0.3 | - |
| | UFBX1 | 108.2 | 2.84 | 292 | 248 | 521 | 23.4 | 35.2 | 93.8 |
| 4" | UFBX0 | 119.9 | 2.47 | 305 | 279 | 559 | 0.1 | 0.2 | - |
| | UFBX1 | 122.4 | 3.85 | 305 | 279 | 559 | 17.9 | 26.9 | 72.4 |
| | UFBX2 | 124.7 | 5.24 | 305 | 279 | 559 | 32.1 | 47.9 | 128.2 |
| 5" | UFBX0 | 148.8 | 3.38 | 330 | 343 | 711 | 0.2 | 0.3 | - |
| | UFBX1 | 151.4 | 5.31 | 330 | 343 | 711 | 20.0 | 30.0 | 80.0 |
| | UFBX2 | 153.9 | 7.25 | 330 | 343 | 711 | 21.2 | 31.9 | 84.9 |
| 6" | UFBX0 | 177.8 | 5.25 | 356 | 406 | 864 | 0.2 | 0.3 | - |
| | UFBX1 | 180.3 | 7.77 | 356 | 406 | 864 | 14.5 | 21.7 | 58.6 |
| | UFBX2 | 182.6 | 10.28 | 356 | 406 | 864 | 21.4 | 32.1 | 85.5 |
| 8" | UFBX0 | 230.1 | 6.83 | 406 | 508 | 1067 | 0.1 | 0.2 | - |
| | UFBX1 | 232.7 | 11.77 | 406 | 508 | 1067 | 15.2 | 22.8 | 60.3 |
| | UFBX2 | 235.2 | 16.71 | 406 | 508 | 1067 | 23.4 | 35.2 | 93.8 |
| 10" | UFBX0 | 284.2 | 8.82 | 610 | 864 | 1753 | 0.1 | 0.2 | - |
| | UFBX1 | 286.8 | 15.33 | 610 | 864 | 1753 | 12.8 | 19.0 | 51.0 |
| | UFBX2 | 289.3 | 21.83 | 610 | 864 | 1753 | 22.8 | 34.1 | 91.0 |
| 12" | UFBX0 | 336.6 | 10.54 | 686 | 940 | 1880 | 0.1 | 0.2 | - |
| | UFBX1 | 339.1 | 20.27 | 686 | 940 | 1880 | 12.1 | 17.9 | 48.3 |
| | UFBX2 | 341.6 | 30.00 | 686 | 940 | 1880 | 21.7 | 32.4 | 86.9 |