



Standard ISO 11120 Vessel Designs

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| Gas Service | Service Pressure | | Diameter | | Vessel Length ⁽¹⁾ | | | Average Weight ⁽²⁾ | | Nominal Water Volume | | Hydrogen | | Natural Gas | | Oxygen | | Nitrogen | | Air | | Helium | |
|-------------------------------------|------------------|-------|----------|------|------------------------------|------|-------|-------------------------------|-------|----------------------|--------|--|---|-------------|----------------|--------|----------------|----------|----------------|-------|----------------|--------|----------------|
| | psi | bar | in. | mm | ft | in | m | lbs | kg | cu. ft. | liters | scf | m ³ | scf | m ³ | scf | m ³ | scf | m ³ | scf | m ³ | scf | m ³ |
| NON-EMBRITTLING GAS ONLY | 2669 | 184 | 22 | 559 | 18 | 6 | 5.64 | 2068 | 938 | 41.5 | 1175 | WARNING: NON "H" MARKED TUBES MUST NOT BE USED IN HYDROGEN GAS SERVICE | WARNING: NON "H" MARKED TUBES MUST NOT BE USED IN CNG SERVICE | 6864 | 194.4 | 7272 | 205.9 | 7443 | 210.8 | 6967 | 197.3 | | |
| | | | | | 20 | 0 | 6.10 | 2235 | 1014 | 45.0 | 1274 | | | 7442 | 210.7 | 7886 | 223.3 | 8071 | 228.5 | 7554 | 213.9 | | |
| | | | | | 34 | 4 | 10.46 | 3826 | 1735 | 79.6 | 2254 | | | 13165 | 372.8 | 13949 | 395.0 | 14277 | 404.3 | 13363 | 378.4 | | |
| | | | | | 36 | 0 | 10.97 | 4011 | 1819 | 83.7 | 2370 | | | 13843 | 392.0 | 14668 | 415.3 | 15012 | 425.1 | 14051 | 397.9 | | |
| | | | | | 40 | 0 | 12.19 | 4455 | 2021 | 93.3 | 2642 | | | 15431 | 436.9 | 16350 | 463.0 | 16734 | 473.8 | 15663 | 443.5 | | |
| EMBRITTLING AND NON-EMBRITTLING GAS | 2118 | 146 | 22 | 559 | 18 | 6 | 5.64 | 2068 | 938 | 41.5 | 1175 | 5522 | 156.4 | 7771 | 220.0 | 6405 | 181.4 | 5896 | 167.0 | 6040 | 171.0 | 5627 | 159.4 |
| | | | | | 20 | 0 | 6.10 | 2235 | 1014 | 45.0 | 1274 | 5988 | 169.6 | 8426 | 238.6 | 6945 | 196.7 | 6393 | 181.0 | 6550 | 185.5 | 6102 | 172.8 |
| | | | | | 34 | 4 | 10.46 | 3826 | 1735 | 79.6 | 2254 | 10592 | 299.9 | 14905 | 422.1 | 12286 | 347.9 | 11309 | 320.2 | 11586 | 328.1 | 10794 | 305.6 |
| | | | | | 36 | 0 | 10.97 | 4011 | 1819 | 83.7 | 2370 | 11138 | 315.4 | 15673 | 443.8 | 12918 | 365.8 | 11891 | 336.7 | 12183 | 345.0 | 11350 | 321.4 |
| | | | | | 40 | 0 | 12.19 | 4455 | 2021 | 93.3 | 2642 | 12415 | 351.6 | 17470 | 494.7 | 14400 | 407.8 | 13255 | 375.3 | 13580 | 384.5 | 12651 | 358.2 |
| NON-EMBRITTLING GAS ONLY | 3161 | 218 | 22 | 559 | 18 | 6 | 5.64 | 2395 | 1086 | 40.8 | 1155 | WARNING: NON "H" MARKED TUBES MUST NOT BE USED IN HYDROGEN GAS SERVICE | WARNING: NON "H" MARKED TUBES MUST NOT BE USED IN CNG SERVICE | 9300 | 263.4 | 8261 | 233.9 | 8475 | 240.0 | 7990 | 226.3 | | |
| | | | | | 20 | 0 | 6.10 | 2588 | 1174 | 44.3 | 1255 | | | 10098 | 285.9 | 8970 | 254.0 | 9202 | 260.6 | 8676 | 245.7 | | |
| | | | | | 34 | 4 | 10.46 | 4433 | 2011 | 78.4 | 2220 | | | 17871 | 506.1 | 15874 | 449.5 | 16285 | 461.1 | 15354 | 434.8 | | |
| | | | | | 36 | 0 | 10.97 | 4647 | 2108 | 82.3 | 2331 | | | 18760 | 531.2 | 16664 | 471.9 | 17095 | 484.1 | 16118 | 456.4 | | |
| | | | | | 38 | 6 | 11.58 | 4969 | 2254 | 88.3 | 2501 | | | 20128 | 570.0 | 17879 | 506.3 | 18341 | 519.4 | 17293 | 489.7 | | |
| 40 | 0 | 12.19 | 5162 | 2341 | 91.8 | 2600 | 20926 | 592.6 | 18588 | 526.3 | 19068 | 539.9 | 17978 | 509.1 | | | | | | | | | |
| EMBRITTLING AND NON-EMBRITTLING GAS | 2494 | 172 | 22 | 559 | 18 | 6 | 5.64 | 2395 | 1086 | 40.8 | 1155 | 6289 | 178.1 | 9010 | 255.1 | 7410 | 209.8 | 6734 | 190.7 | 6885 | 195.0 | 6436 | 182.2 |
| | | | | | 20 | 0 | 6.10 | 2588 | 1174 | 44.3 | 1255 | 6829 | 193.4 | 9783 | 277.0 | 8046 | 227.8 | 7311 | 207.0 | 7475 | 211.7 | 6988 | 197.9 |
| | | | | | 34 | 4 | 10.46 | 4433 | 2011 | 78.4 | 2220 | 12085 | 342.2 | 17313 | 490.3 | 14239 | 403.2 | 12939 | 366.4 | 13229 | 374.6 | 12366 | 350.2 |
| | | | | | 36 | 0 | 10.97 | 4647 | 2108 | 82.3 | 2331 | 12686 | 359.2 | 18174 | 514.6 | 14947 | 423.3 | 13583 | 384.6 | 13887 | 393.2 | 12982 | 367.6 |
| | | | | | 38 | 6 | 11.58 | 4969 | 2254 | 88.3 | 2501 | 13611 | 385.4 | 19499 | 552.2 | 16037 | 454.1 | 14573 | 412.7 | 14900 | 421.9 | 13928 | 394.4 |
| 40 | 0 | 12.19 | 5162 | 2341 | 91.8 | 2600 | 14151 | 400.7 | 20272 | 574.0 | 16673 | 472.1 | 15151 | 429.0 | 15490 | 438.6 | 14480 | 410.0 | | | | | |
| EMBRITTLING AND NON-EMBRITTLING GAS | 2654 | 183 | 22 | 559 | 17 | 6 | 5.33 | 2465 | 1118 | 38.0 | 1076 | 6192 | 175.3 | 8868 | 251.1 | 7335 | 207.7 | 6626 | 187.6 | 6781 | 192.0 | 6346 | 179.7 |
| | | | | | 18 | 6 | 5.64 | 2605 | 1182 | 40.4 | 1144 | 6583 | 186.4 | 9428 | 267.0 | 7798 | 220.8 | 7045 | 199.5 | 7209 | 204.1 | 6747 | 191.1 |
| | | | | | 20 | 0 | 6.10 | 2815 | 1277 | 43.9 | 1243 | 7153 | 202.6 | 10245 | 290.1 | 8474 | 239.9 | 7655 | 216.8 | 7834 | 221.8 | 7332 | 207.6 |
| | | | | | 34 | 4 | 10.46 | 4822 | 2187 | 77.6 | 2198 | 12644 | 358.0 | 18109 | 512.8 | 14979 | 424.1 | 13531 | 383.2 | 13847 | 392.1 | 12960 | 367.0 |
| | | | | | 36 | 0 | 10.97 | 5056 | 2293 | 81.6 | 2311 | 13296 | 376.5 | 19042 | 539.2 | 15751 | 446.0 | 14229 | 402.9 | 14561 | 412.3 | 13628 | 385.9 |
| 40 | 0 | 12.19 | 5616 | 2547 | 91.0 | 2577 | 14828 | 419.9 | 21236 | 601.3 | 17565 | 497.4 | 15868 | 449.3 | 16238 | 459.8 | 15198 | 430.4 | | | | | |
| EMBRITTLING AND NON-EMBRITTLING GAS | 3176 | 219 | 22 | 559 | 18 | 6 | 5.64 | 3119 | 1415 | 39.4 | 1116 | 7515.826 | 212.8 | 10662.82 | 301.9 | 9018 | 255.4 | 8010 | 226.8 | 8214 | 232.6 | 7747 | 219.4 |
| | | | | | 25 | 0 | 7.62 | 4210 | 1910 | 54.3 | 1538 | 10358.11 | 293.3 | 14695.21 | 416.1 | 12429 | 351.9 | 11039 | 312.6 | 11320 | 320.5 | 10677 | 302.3 |
| | | | | | 29 | 6 | 8.99 | 4965 | 2252 | 64.6 | 1829 | 12322.9 | 348.9 | 17482.7 | 495.1 | 14786 | 418.7 | 13133 | 371.9 | 13467 | 381.4 | 12702 | 359.7 |
| | | | | | 34 | 4 | 10.46 | 5776 | 2620 | 75.7 | 2144 | 14440.3 | 408.9 | 20486.69 | 580.1 | 17327 | 490.6 | 15390 | 435.8 | 15781 | 446.9 | 14885 | 421.5 |
| | | | | | 36 | 0 | 10.97 | 6056 | 2747 | 79.6 | 2254 | 15184.26 | 430.0 | 21542.15 | 610.0 | 18219 | 515.9 | 16183 | 458.2 | 16594 | 469.9 | 15651 | 443.2 |

(1) Custom lengths available upon request.
(2) Average Weight includes end fittings.