



Vessel Dimensions for Standard Reactors
Vessel Liquid Level (from bottom)

| | | Liter | 4 | 8 | 19 | 39 | 77 | 116 | 193 | 289 | 385 | 770 | 1155 | 1925 | | | |
|----------|----------|--|----|----|----|----|----|-----|-----|-----|-----|-----|------|------|---------------------|-----------|-------|
| | | Gallon | 1 | 2 | 5 | 10 | 20 | 30 | 50 | 75 | 100 | 200 | 300 | 500 | | | |
| Diameter | | H - Indicates liquid level in head, below straight side. | | | | | | | | | | | | | | | |
| [in] | [gal/in] | | | | | | | | | | | | | | 2:1 Elliptical Head | | |
| | | | | | | | | | | | | | | | Depth [in] | Vol [gal] | |
| 6 | 0.12 | 9 | 17 | | | | | | | | | | | | | 1.5 | 0.1 |
| 8 | 0.22 | 5 | 9 | 23 | 46 | | | | | | | | | | | 2.0 | 0.3 |
| 10 | 0.34 | 3 | 6 | 15 | 30 | 59 | | | | | | | | | | 2.5 | 0.6 |
| 12 | 0.49 | 3 | 5 | 11 | 21 | 41 | 62 | | | | | | | | | 3.0 | 1.0 |
| 14 | 0.67 | H | 4 | 8 | 16 | 31 | 46 | 76 | | | | | | | | 3.5 | 1.6 |
| 16 | 0.87 | H | H | 7 | 13 | 24 | 36 | 59 | 88 | | | | | | | 4.0 | 2.3 |
| 18 | 1.10 | H | H | 6 | 10 | 19 | 28 | 46 | 69 | 92 | | | | | | 4.5 | 3.3 |
| 20 | 1.36 | | H | 5 | 9 | 16 | 23 | 38 | 56 | 75 | | | | | | 5.0 | 4.5 |
| 22 | 1.65 | | H | H | 7 | 13 | 20 | 32 | 47 | 62 | 123 | | | | | 5.5 | 6.0 |
| 24 | 1.96 | | H | H | 7 | 12 | 17 | 27 | 40 | 53 | 104 | | | | | 6.0 | 7.8 |
| 26 | 2.30 | | | H | 7 | 11 | 15 | 24 | 35 | 46 | 89 | 133 | | | | 6.5 | 10.0 |
| 28 | 2.67 | | | H | H | 9 | 13 | 21 | 30 | 39 | 77 | 114 | | | | 7.0 | 12.4 |
| 30 | 3.06 | | | H | H | 9 | 12 | 18 | 27 | 35 | 67 | 100 | 165 | | | 7.5 | 15.3 |
| 32 | 3.48 | | | H | H | 8 | 11 | 17 | 24 | 31 | 60 | 88 | 146 | | | 8.0 | 18.6 |
| 34 | 3.93 | | | | H | H | 10 | 15 | 21 | 28 | 53 | 79 | 130 | | | 8.5 | 22.3 |
| 36 | 4.41 | | | | H | H | 10 | 14 | 20 | 26 | 48 | 71 | 116 | | | 9.0 | 26.4 |
| 38 | 4.91 | | | | H | H | H | 13 | 18 | 23 | 43 | 64 | 105 | | | 9.5 | 31.1 |
| 40 | 5.44 | | | | H | H | H | 12 | 17 | 21 | 40 | 58 | 95 | | | 10.0 | 36.3 |
| 42 | 6.00 | | | | | H | H | 11 | 16 | 20 | 36 | 53 | 86 | | | 10.5 | 42.0 |
| 44 | 6.58 | | | | | H | H | 11 | 15 | 18 | 34 | 49 | 79 | | | 11.0 | 48.3 |
| 46 | 7.19 | | | | | H | H | H | 14 | 18 | 32 | 46 | 73 | | | 11.5 | 55.2 |
| 48 | 7.83 | | | | | H | H | H | 13 | 16 | 29 | 42 | 67 | | | 12.0 | 62.7 |
| 50 | 8.50 | | | | | H | H | H | 12 | 15 | 27 | 39 | 62 | | | 12.5 | 70.8 |
| 54 | 9.91 | | | | | | H | H | H | 14 | 24 | 34 | 54 | | | 13.5 | 89.2 |
| 60 | 12.24 | | | | | | | H | H | H | 20 | 28 | 44 | | | 15.0 | 122.4 |

General Notes

- A. Liquid level from bottom of head in inches for indicated volume and inside diameter.
- B. Minimum liquid level - actual level could be 10% to 30% greater depending on tank internals.