
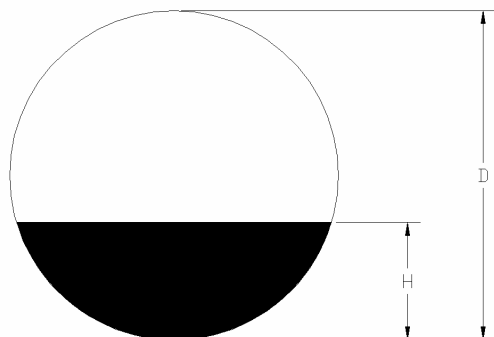


Engineering Reference Manual			
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	Section Title:	Storage Tanks	Revision Date: Feb. 25, 2003
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Horizontal Cylinder Fillage



The Following equation can be used to calculate the number of gallons remaining in a horizontal tank if the height of the liquid remaining in the tank and the diameter of the tank are known.

$$\text{Gallons Remaining} = \text{Depth Factor} \times \text{Total Tank Gallons}$$

Use Formula: $\text{Ratio} = H/D$ and then the following table in order to calculate the depth factor.

Ratio	Depth Factor	Ratio	Depth Factor	Ratio	Depth Factor	Ratio	Depth Factor
0.02	0.0047728	0.26	0.2065999	0.52	0.5254580	0.76	0.8154506
0.04	0.0134171	0.28	0.2292081	0.54	0.5508752	0.78	0.8368806
0.06	0.0244963	0.30	0.2523158	0.56	0.5762106	0.80	0.8576215
0.08	0.0374780	0.32	0.2758682	0.58	0.6014229	0.82	0.8775977
0.10	0.0520440	0.34	0.2998139	0.60	0.6264700	0.84	0.8967245
0.12	0.0679724	0.36	0.3241038	0.62	0.6513090	0.86	0.9149054
0.14	0.0850946	0.38	0.3486910	0.64	0.6758962	0.88	0.9320276
0.16	0.1032755	0.40	0.3735300	0.66	0.7001861	0.90	0.9479560
0.18	0.1224023	0.42	0.4237894	0.68	0.7241318	0.92	0.9625220
0.20	0.1423785	0.46	0.4491248	0.70	0.7476842	0.94	0.9755037
0.22	0.1631194	0.48	0.4745420	0.72	0.7707919	0.96	0.9865829
0.24	0.1845494	0.50	0.5000000	0.74	0.7934001	0.98	0.9952272