



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.