



DOT Dimensions and Data for Typical Vessel Sizes

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DOT Spec	Service Pressure		Diameter		Minimum Wall		Vessel Length ⁽¹⁾			Average Weight ⁽²⁾		Nominal Water Volume		Hydrogen		Natural Gas		Oxygen ⁽³⁾		Nitrogen ⁽³⁾		Helium ⁽³⁾		Hydrogen Chloride	
	psi	bar	in.	mm	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	lbs	kg
3AA	2400	166	24	610	0.584	14.8	6	8	2.03	1250	567	15.5	439	---	---	---	---	---	---	---	---	---	---	628	285
3AAX	2400	166	22	559	0.536	13.6	17	6	5.33	2465	1118	38.0	1076	5661	160.3	8109	229.7	7277	206.1	6595	186.8	6316	178.9	1539	698
							18	6	5.64	2605	1182	40.4	1144	6018	170.4	8621	244.2	7758	219.7	7012	198.6	6714	190.1	1636	742
							20	0	6.10	2815	1277	43.9	1243	6540	185.2	9368	265.3	8430	238.7	7619	215.8	7296	206.6	1778	806
							34	4	10.46	4822	2187	77.6	2198	11560	327.4	16559	469.0	14902	422.0	13468	381.4	12897	365.3	3142	1425
							36	0	10.97	5056	2293	81.6	2311	12156	344.3	17413	493.1	15670	443.8	14162	401.1	13562	384.1	3304	1499
3AAX	2900	200	22	559	0.647	16.4	18	6	5.64	3119	1415	39.4	1116	6292	196.6	9942	281.5	9058	256.5	8040	227.7	7780	220.3	1595	724
							25	0	7.62	4210	1910	54.3	1538	9568	271.0	13702	388.0	12483	353.5	11081	313.8	10722	303.7	2199	997
							29	6	8.99	4965	2252	64.6	1829	11383	322.4	16301	461.7	14851	420.6	13183	373.4	12756	361.3	2616	1187
							34	4	10.46	5776	2620	75.7	2144	13338	377.7	19101	541.3	17403	492.8	15448	437.5	14948	423.3	3065	1390
3AAX	3855	266	18	457	0.705	17.9	18	6	5.64	2753	1249	25.3	716	5704	161.5	7834	221.9	7448	210.9	6459	182.9	6440	182.4	---	---
							34	4	10.46	5096	2312	48.5	1374	10935	309.7	15017	425.3	14278	404.4	12382	350.7	12346	349.6	---	---
							36	0	10.97	5343	2424	50.9	1441	11476	325.0	15760	446.3	14985	424.4	12995	368.0	12957	366.9	---	---
							40	0	12.19	5935	2692	56.8	1609	12807	362.7	17587	498.1	16722	473.6	14501	410.7	14458	409.5	---	---
3T	2400	166	22	559	0.415	10.5	18	6	5.64	2068	938	41.5	1175	WARNING DOT 3T PRESSURE VESSELS MUST NOT BE USED IN HYDROGEN GAS SERVICE		WARNING DOT 3T PRESSURE VESSELS MUST NOT BE USED IN NATURAL GAS SERVICE	7969	225.7	7203	204.0	6897	195.3	1681	762	
							20	0	6.10	2235	1014	45.0	1274				8642	244.7	7810	221.2	7479	211.8	1822	826	
							34	4	10.46	3826	1735	79.6	2254				15286	432.9	13815	391.2	13230	374.7	3223	1462	
							36	0	10.97	4011	1819	83.7	2370				16073	455.2	14527	411.4	13911	394.0	3389	1537	
							40	0	12.19	4455	2021	93.3	2642				17917	507.4	16193	458.6	15506	439.1	3778	1714	
3T	2850	197	22	559	0.492	12.5	18	6	5.64	2395	1086	40.8	1155				9229	261.4	8207	232.4	7931	224.6	1652	749	
							20	0	6.10	2588	1174	44.3	1255				10021	283.8	8911	252.4	8611	243.9	1794	814	
							34	4	10.46	4433	2011	78.4	2220				17734	502.2	15770	446.6	15240	431.6	3175	1440	
							36	0	10.97	4647	2108	82.3	2331				18617	527.2	16554	468.8	15998	453.1	3333	1512	
							38	6	11.58	4969	2254	88.3	2501				19974	565.7	17761	503.0	17164	486.1	3576	1622	
							40	0	12.19	5162	2341	91.8	2600				20766	588.1	18465	522.9	17844	505.4	3717	1686	

- (1) Custom lengths available upon request.
- (2) Average Weight includes end fittings.
- (3) Includes 10% overfill.