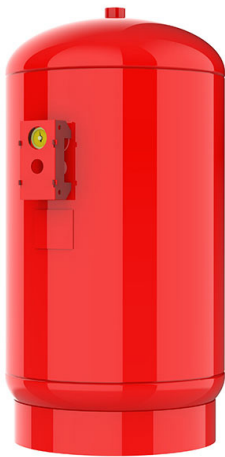




Job	Representative	
Unit tag	Order number	Date
Engineer	Submitted by	Date
Contractor	Approved by	Date



## Series "D" (ASME) Pressurized Expansion Tanks

### 175 PSI Working Pressure not for potable water systems

Series "D" expansion tanks are ASME rated precharged diaphragm-type pressure vessels. The Series "D" tank is designed to absorb the expansion forces of heating/cooling system water while maintaining proper system pressurization under varying operating conditions. The heavy duty diaphragm separates system water from the tank air charge thereby eliminating waterlogging problems. All Series "D" expansion tanks include an integrated bladder integrity monitor and are available with sight glass and/or seismic restraints.

#### Construction materials

**System connection:** Forged steel

**Shell:** Carbon steel

**Diaphragm:** Heavy duty butyl rubber, designed and constructed per ASME Section VIII, Division 1

#### Maximum operating limits

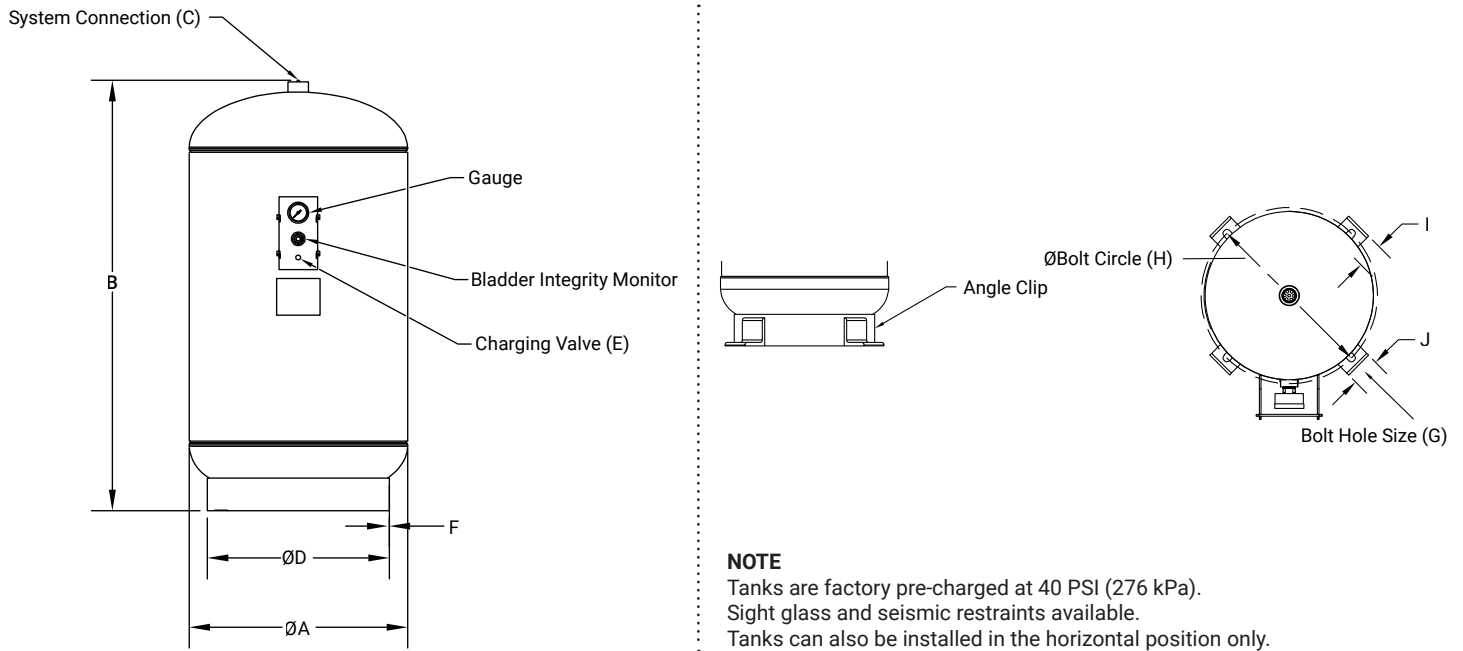
**Maximum design pressure:** 175 PSI (1,207 kPa)

**Design temperature:** 240°F (115°C)

#### Schedule

Model no.	Part numbers				Volume gal (L)		Tagging information	Quantity
	Pressurized expansion tanks	With sight glass	With seismic restraints	With sight glass & seismic restraints	Tank	Acceptance		
D-15	116350	116363	116376	116572	7.8 (30)	6.3 (24)		
D-20	116351	116364	116377	116573	11 (42)	8.8 (33)		
D-40	116352	116365	116378	116574	25 (95)	20.2 (76)		
D-60	116353	116366	116379	116575	35 (132)	28 (106)		
D-80	116354	116367	116380	116576	45 (170)	36 (136)		
D-100	116355	116368	116381	116577	60 (227)	48.5 (184)		
D-120	116356	116369	116382	116578	70 (265)	56.5 (214)		
D-144	116357	116370	116383	116579	80 (303)	65 (246)		
D-180	116358	116371	116384	116580	90 (341)	73 (276)		
D-200	116359	116372	116385	116581	115 (435)	93 (352)		
D-240	116360	116373	116386	116582	140 (530)	113.5 (430)		
D-260	116361	116374	116387	116583	158 (598)	128 (485)		
D-280	116362	116375	116388	116584	211 (799)	171 (647)		

## Series "D" (ASME) pressurized expansion tanks (175 psi working pressure)



### Dimensions and weights

Model	A in (mm)	B in (mm)	C (NPTM)	Charging Valve E	D in (mm)	F in (mm)	G in (mm)	H in (mm)	I in (mm)	J in (mm)	Ship Wt. lbs (kg)	Flooded Wt.* lbs (kg)
D-15	12 (305)	19 (483)	¾	.302"-32 NC	10 (254)	0.14 (4)	⅞ (14)	12 (305)	2 (51)	2 (51)	55 (25)	120 (54)
D-20	12 (305)	25 (638)	¾	.302"-32 NC	10 (254)	0.14 (4)	⅞ (14)	12 (305)	2 (51)	2 (51)	68 (31)	160 (73)
D-40	16 (406)	33 (838)	1	.302"-32 NC	14 (356)	0.14 (4)	⅞ (14)	16 (406)	2 (51)	2 (51)	109 (49)	317 (144)
D-60	16 (406)	44 (1,118)	1	.302"-32 NC	14 (356)	0.14 (4)	⅞ (14)	16 (406)	2 (51)	2 (51)	126 (57)	418 (190)
D-80	20 (508)	38 (965)	1	.302"-32 NC	18 (457)	0.14 (4)	⅞ (14)	20 (508)	2 (51)	2 (51)	192 (87)	567 (257)
D-100	20 (508)	49 (1,245)	1	.302"-32 NC	18 (457)	0.14 (4)	⅞ (14)	20 (508)	2 (51)	2 (51)	228 (103)	728 (330)
D-120	24 (610)	46 (1,168)	1½	.302"-32 NC	22 (559)	0.14 (4)	⅞ (14)	24 (610)	2 (51)	2 (51)	337 (153)	920 (417)
D-144	24 (610)	49 (1,245)	1½	.302"-32 NC	22 (559)	0.14 (4)	⅞ (14)	24 (610)	2 (51)	2 (51)	348 (158)	1,014 (460)
D-180	24 (610)	52 (1,321)	1½	.302"-32 NC	22 (559)	0.14 (4)	⅞ (14)	24 (610)	2 (51)	2 (51)	368 (167)	1,118 (507)
D-200	24 (610)	66 (1,676)	1½	.302"-32 NC	22 (559)	0.14 (4)	⅞ (14)	24 (610)	2 (51)	2 (51)	423 (192)	1,381 (626)
D-240	24 (610)	78 (1,981)	1½	.302"-32 NC	22 (559)	0.14 (4)	⅞ (14)	25 (635)	3 (76)	3 (76)	471 (214)	1,637 (742)
D-260	30 (762)	63 (1,600)	1½	.302"-32 NC	24 (610)	0.14 (4)	⅞ (14)	27 (686)	3 (76)	3 (76)	768 (348)	2,084 (945)
D-280	30 (762)	81 (2,057)	1½	.302"-32 NC	24 (610)	0.14 (4)	⅞ (14)	27 (686)	3 (76)	3 (76)	978 (444)	2,736 (1,241)

Dimensions subject to change. Not to be used for construction purposes. \*Approximate weight 100% full occurs if bag fails or if air charge is lost.

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A-344G March 2025

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