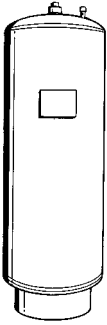


JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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Series "D" (ASME) Pressurized Expansion Tanks Vertical

Not For Potable Water Systems

DESCRIPTION

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.

CONSTRUCTION

Shell: Carbon Steel
 Diaphragm: Heavy Duty Butyl Rubber
 System Connection: Forged Steel
 Designed and Constructed per ASME Section VIII, Division 1

PERFORMANCE LIMITATIONS

Maximum Design Pressure: 125 PSI (862kPa)
 Design Temperature: 240°F (115°C)

SCHEDULE

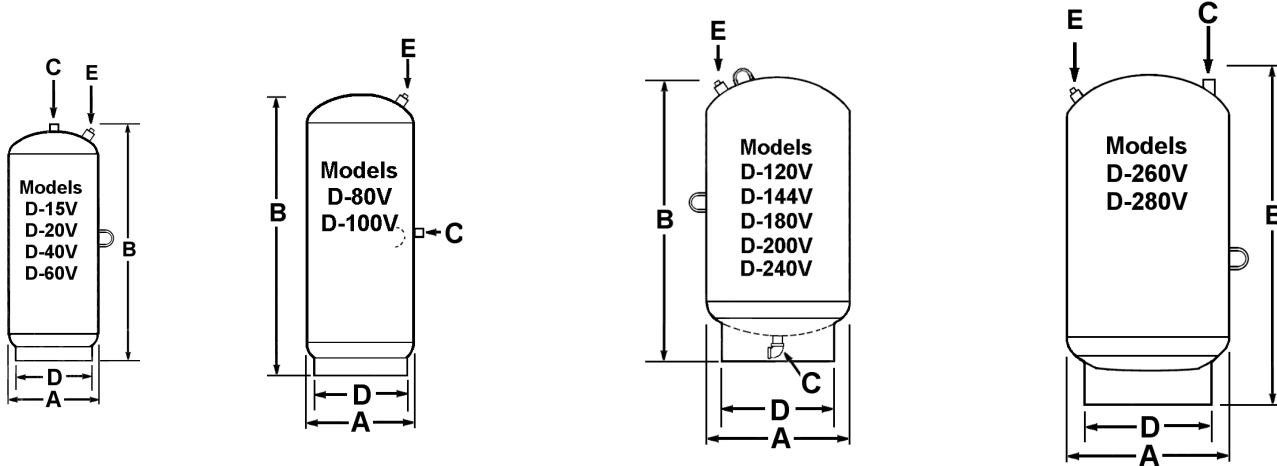
PART NUMBER	MODEL NO.	VOLUME GALLONS (LITERS)		TAGGING INFORMATION	QUANTITY
		TANK	ACCEPTANCE		
116491	D-15V	8.0 (30.3)	2.4 (9.1)		
116492	D-20V	10.9 (41.3)	2.4 (9.1)		
116493	D-40V	21.7 (82.1)	11.3 (42.8)		
116525	D-60V	33.6 (127.2)	11.3 (42.8)		
116526	D-80V	44.4 (168.1)	22.6 (85.5)		
116527	D-100V	55.7 (211.8)	22.6 (85.5)		
116528	D-120V	68.0 (257.4)	34.0 (128.7)		
116529	D-144V	77.0 (291.5)	34.0 (128.7)		
116530	D-180V	90.0 (340.7)	34.0 (128.7)		
116531	D-200V	110.0 (416.4)	34.0 (128.7)		
116532	D-240V	132.0 (500)	46.0 (174.1)		
116780	D-260V	159.0 (600)	56.0 (212.0)		
116781	D-280V	211.0 (800)	84.0 (318.0)		

TYPICAL SPECIFICATION

Furnish and install as shown on plans a _____ gallon (_____ liter) _____" (_____ mm) diameter x _____" (_____ mm) high pre-charged vertical steel expansion tank with integral heavy duty Butyl rubber diaphragm. The tank shall have _____" NPT system connection(s), and a .302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements.

The tank must be constructed in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code and stamped 125 PSI (862 kPa) working pressure.

Each tank shall be ITT – Bell & Gossett Model No. _____



NOTE: Tanks are factory pre-charged at 12 psi (83 kPa)
Sight glass and seismic restraints available.
Tanks can also be installed in the horizontal position.

DIMENSIONS AND WEIGHTS

MODEL NUMBER	DIMENSIONS IN INCHES (MM)						APPROX. SHPG. WT. LBS. (Kg)	APPROX. WT* 100% FULL LBS. (Kg)
	A	B	SYSTEM CONNECTION C	SKIRT O.D. D	CHARGING VALVE E	SKIRT THICKNESS		
D-15V**	12 (305)	19-1/2 (495)	1/2 NPTM	10-3/4 (273)	.302"-32 NC	3/16 (5)	43 (20)	110 (50)
D-20V**	12 (305)	26-1/2 (673)	1/2 NPTM	10-3/4 (273)	.302"-32 NC	3/16 (5)	45 (21)	136 (62)
D-40V	16-1/4 (413)	29-1/2 (749)	1/2 NPTM	12-3/4 (324)	.302"-32 NC	3/16 (5)	90 (41)	271 (123)
D-60V	16-1/4 (413)	45-1/8 (1146)	1/2 NPTM	12-3/4 (324)	.302"-32 NC	3/16 (5)	110 (50)	390 (177)
D-80V	16-1/4 (413)	56 (1422)	1/2 NPTM	12-3/4 (324)	.302"-32 NC	3/16 (5)	146 (66)	517 (234)
D-100V	16-1/4 (413)	69 (1753)	1/2 NPTM	12-3/4 (324)	.302"-32 NC	3/16 (5)	167 (76)	632 (287)
D-120V	24 (610)	43-7/8 (1114)	1 NPTF	16 (406)	.302"-32 NC	1/4 (6)	224 (102)	791 (359)
D-144V	24 (610)	48-3/4 (1238)	1 NPTF	16 (406)	.302"-32 NC	1/4 (6)	244 (111)	887 (402)
D-180V	24 (610)	56-1/8 (1426)	1 NPTF	16 (406)	.302"-32 NC	1/4 (6)	266 (121)	977 (443)
D-200V	24 (610)	62-5/8 (1591)	1 NPTF	16 (406)	.302"-32 NC	1/4 (6)	296 (134)	1214 (551)
D-240V	30 (762)	53-1/2 (1357)	1 NPTF	24 (610)	.302"-32 NC	3/16 (5)	427 (194)	1529 (693)
D-260V	30 (762)	60-1/2 (1537)	1-1/4 NPTM	24 (610)	.302"-32 NC	3/16 (5)	476 (216)	1803 (818)
D-280V	30 (762)	78-1/4 (1989)	1-1/4 NPTM	24 (610)	.302"-32 NC	3/16 (5)	745 (338)	2506 (1137)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

*Approximate weight 100% full occurs if diaphragm fails. **No Lifting Ring

OPTIONAL SEISMIC RESTRAINTS

DIMENSIONS IN INCHES (MM)

TANK DIAMETER A	G	H	I	J
12 (305)	9/16 (14)	12-3/4 (324)	2 (51)	2 (51)
16-1/4 (413)	9/16 (14)	14-3/4 (375)	2 (51)	2 (51)
24 (610)	9/16 (14)	18 (457)	2 (51)	2 (51)
30 (762)	7/8 (22)	28 (711)	3 (76)	3 (76)

