

- Increases System Performance
- Reduces Oxygen Corrosion
- Prevents Waterlogging
- Tank Sizes: 8-211 gallons
- Horizontal and Vertical Designs
- Meets ASME Section VIII, Division 1 Standards
- 125 PSI Maximum Working Pressure
- Maximum Operating Temperature 240°F
- Seismic Restraints Available
- Sight Glass Available



**Designed for Closed Hydronic Heating and Cooling Systems**

# ASME Expansion Tanks

SERIES D PRE-CHARGED DIAPHRAGM TANKS

# Series D Diaphragm Tanks

## DESCRIPTION

Series D expansion tanks are ASME rated pre-charged 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.

## OPERATING DATA

Maximum working pressure . . . . . 125 PSI (862kPa)  
 Maximum operating temperature . . . . . 240°F (115°C)

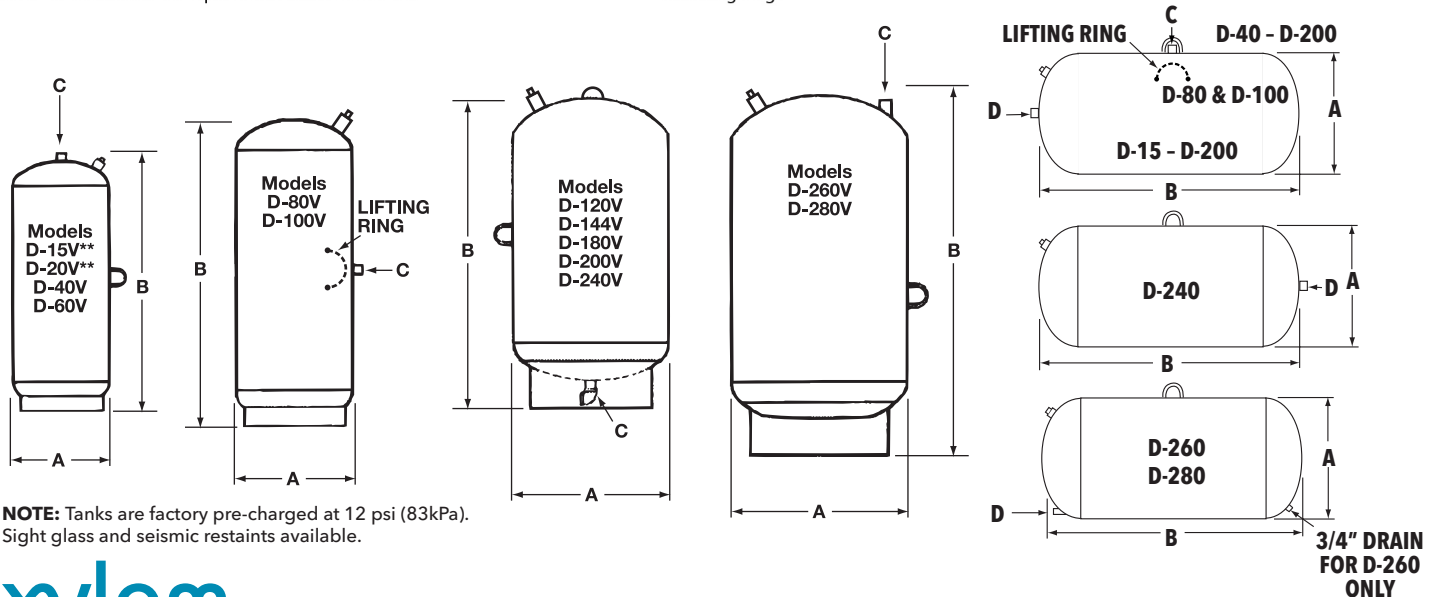
## MATERIALS OF CONSTRUCTION

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

## Dimensions: Gallons (Ltrs.), Inches (mm), Weights: LBS (KG)

PART NUMBER	MODEL NUMBER	TANK VOLUME	ACCEPTANCE VOLUME	A	B	C	D	APPROX. SHPG. WT.	APPROX WT. 100% FULL*
116500	D-15**	8.0 (30)	2.4 (9)	12 (305)	19 <sup>1</sup> / <sub>4</sub> (489)	N/A	1/2 NPTM	37 (17)	102 (46)
116501	D-20**	10.9 (41)			26 <sup>1</sup> / <sub>4</sub> (667)			46 (21)	137 (62)
116502	D-40	21.7 (82)			29 (737)			82 (37)	263 (119)
116503	D-60	33.6 (127)	11.3 (43)	16 <sup>1</sup> / <sub>4</sub> (412)	42 <sup>1</sup> / <sub>4</sub> (1073)	1/2 NPTM	N/A	103 (47)	383 (174)
116504	D-80	44.4 (168)			56 <sup>7</sup> / <sub>8</sub> (1445)			145 (66)	516 (234)
116505	D-100	55.7 (212)			69 (1753)			167 (76)	632 (287)
116506	D-120	68 (257)	34 (129)	24 (610)	39 <sup>7</sup> / <sub>8</sub> (1013)	N/A	1 NPTM	210 (95)	778 (353)
116507	D-144	77 (291)			44 <sup>3</sup> / <sub>4</sub> (1137)			240 (109)	883 (401)
116508	D-180	90 (341)			52 <sup>1</sup> / <sub>8</sub> (1324)			242 (110)	993 (450)
116509	D-200	110 (416)	46 (174)	30 (762)	62 <sup>5</sup> / <sub>8</sub> (1591)	N/A	1 1/4 NPTM	275 (125)	1193 (541)
116510	D-240	132 (500)			49 <sup>5</sup> / <sub>8</sub> (1260)			398 (181)	1500 (680)
116778	D-260	159 (600)			58 (1473)			550 (250)	1869 (850)
116779	D-280	211 (800)	84 (318)	75 <sup>3</sup> / <sub>4</sub> (1924)	700 (318)	2461 (1119)			
116491	D-15V**	8.0 (30)	2.4 (9)	12 (305)	19 <sup>1</sup> / <sub>2</sub> (305)	1/2 NPTM	N/A	43 (20)	110 (50)
116492	D-20V**	10.9 (41)			26 <sup>1</sup> / <sub>2</sub> (673)			45 (21)	136 (62)
116493	D-40V	21.7 (82)			29 <sup>1</sup> / <sub>2</sub> (749)			90 (41)	271 (123)
116525	D-60V	33.6 (127)	11.3 (43)	16 <sup>1</sup> / <sub>4</sub> (412)	45 <sup>1</sup> / <sub>2</sub> (1149)	1/2 NPTM	N/A	110 (50)	390 (177)
116526	D-80V	44.4 (168)			56 (1442)			146 (66)	517 (234)
116527	D-100V	55.7 (212)			69 (1753)			167 (76)	632 (287)
116528	D-120V	68 (257)	34 (129)	24 (610)	43 <sup>3</sup> / <sub>8</sub> (1114)	1 NPTF	N/A	224 (102)	791 (359)
116529	D-144V	77 (291)			48 <sup>3</sup> / <sub>4</sub> (1238)			244 (111)	887 (402)
116530	D-180V	90 (341)			56 <sup>1</sup> / <sub>8</sub> (1426)			266 (121)	977 (443)
116531	D-200V	110 (416)	46 (174)	30 (762)	62 <sup>5</sup> / <sub>8</sub> (1591)	1 1/4 NPTM	N/A	296 (134)	1214 (551)
116532	D-240V	132 (500)			53 <sup>1</sup> / <sub>2</sub> (1357)			427 (194)	1529 (693)
116780	D-260V	159 (600)			60 <sup>1</sup> / <sub>2</sub> (1537)			476 (216)	1803 (818)
116781	D-280V	211 (800)	84 (318)	78 <sup>1</sup> / <sub>4</sub> (1989)	745 (338)	2506 (1137)			

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.  
 Refer to submittals for optional seismic restraints. \*\*No lifting ring.



**NOTE:** Tanks are factory pre-charged at 12 psi (83kPa).  
 Sight glass and seismic restraints available.



Xylem Inc.  
 8200 N. Austin Avenue  
 Morton Grove, Illinois 60053  
 Phone: (847) 966-3700  
 Fax: (847) 965-8379  
 www.bellgossett.com

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