

# AX-V SERIES | PRE-CHARGED (ASME) EXPANSION TANK | SUBMITTAL

File No: 37.51  
Date: JULY 07, 2015  
Supersedes: 37.51  
Date: NOVEMBER 25, 2014

Job: \_\_\_\_\_ Representative: \_\_\_\_\_

Order no.: \_\_\_\_\_ Date: \_\_\_\_\_

Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

## DATA

Model no. ordered: \_\_\_\_\_ Qty: \_\_\_\_\_

Tag no.: \_\_\_\_\_ Charge pressure: \_\_\_\_\_ psi/kPa

Standard factory charge is 12 psi (83 kPa) unless otherwise specified.

## MAXIMUM OPERATING CONDITIONS

**Working temperature:** 250°F (121°C)

**Working pressure:** AXN 80 - AXN 280: 125 psi (862 kPa)  
AXN 15 - AXN 60: 150 psi (1034 kPa)

- Not for domestic potable water systems.
- California code sight-glass available upon request.
- Designed and constructed per ASME section VIII, division 1.
- This submittal supercedes 37.51 and 37.50

## MATERIALS OF CONSTRUCTION

**Shell:** Steel

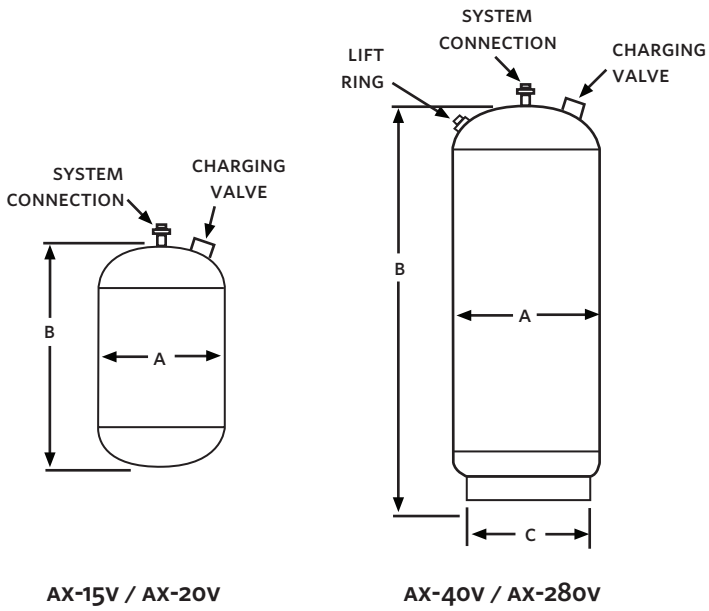
**Diaphragm:** Heavy duty butyl

## TYPICAL SPECIFICATION

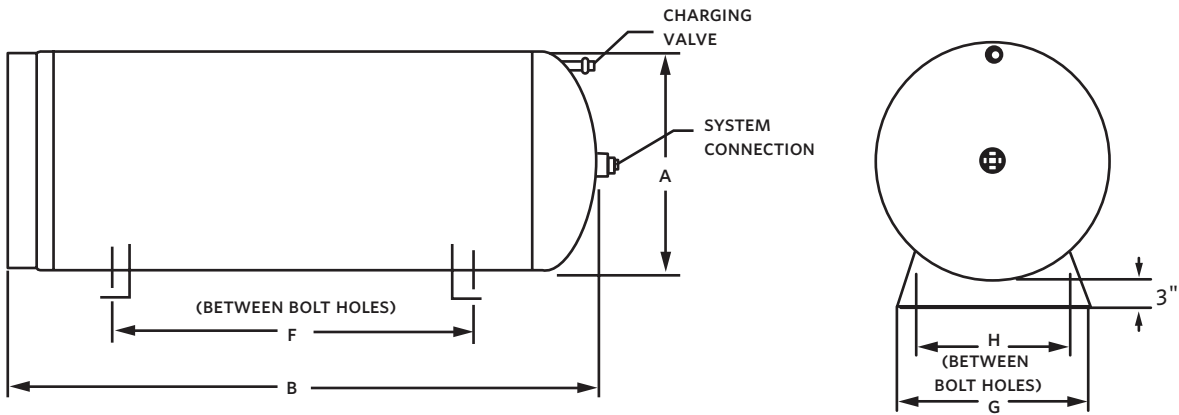
Furnish and install, as shown on the plans, Armstrong model AX-\_\_\_\_\_ v ASME Pre-charged Diaphragm Expansion Tank, stamped 125 psi (862 kPa) working pressure. Each tank will be supplied with a heavy duty butyl diaphragm. Tank shall be supplied with a ring base, lifting rings, NPT system connection. An air charging valve connection (standard tire valve) shall be provided to facilitate adjusting pre-charge pressure to meet actual system conditions.

FOR HORIZONTAL INSTALLATION

MODEL	TANK VOLUME		ACCEPTANCE VOLUME		A	B	C	SYSTEM CONNECTION NPT	SHIPPING WEIGHT	F	G	H	TANK SHIPPING WEIGHT WITH SADDLES
	gal (L)		inches (mm)										
AX-15V	8.0 (30.3)	6.3 (23.8)	12.00 (305)	19.00 (483)	—	0.75 (19)	42 (20.0)	14.38 (365)	10.00 (254)	8.00 (203)	44 (21.0)		
AX-20V	11.0 (41.6)	8.8 (33.3)	12.00 (305)	26.00 (660)	—	0.75 (19)	52 (23.0)	21.13 (537)	10.00 (254)	8.00 (203)	54 (26.0)		
AX-40V	25.0 (94.6)	20.2 (76.5)	16.00 (406)	33.00 (838)	14.00 (356)	1.00 (25)	84 (38.0)	26.00 (660)	14.00 (356)	12.00 (305)	93 (45.0)		
AX-60V	35.0 (132.5)	28.0 (106.0)	16.00 (406)	45.00 (1143)	14.00 (356)	1.00 (25)	97 (44.0)	36.13 (791)	14.00 (356)	12.00 (305)	106 (51.0)		
AX-80V	45.0 (170.3)	36.0 (136.3)	20.00 (508)	38.00 (965)	18.00 (457)	1.00 (25)	148 (67.0)	31.13 (791)	16.00 (406)	14.00 (356)	164 (79.0)		
AX-100V	60.0 (227.1)	48.5 (183.6)	20.00 (508)	49.00 (1245)	18.00 (457)	1.00 (25)	175 (79.0)	42.50 (1080)	16.00 (406)	14.00 (356)	191 (92.0)		
AX-120V	70.0 (265.0)	56.5 (213.9)	24.00 (610)	46.00 (1168)	22.00 (558)	1.00 (25)	259 (117.0)	31.50 (800)	20.00 (508)	18.00 (457)	278 (133.0)		
AX-144V	80.0 (302.8)	65.0 (246.1)	24.00 (610)	49.00 (1245)	22.00 (558)	1.50 (38)	268 (121.0)	33.38 (848)	20.00 (508)	18.00 (457)	287 (138.0)		
AX-180V	90.0 (340.7)	73.0 (276.3)	24.00 (610)	52.00 (1321)	22.00 (558)	1.50 (38)	283 (128.0)	37.75 (959)	20.00 (508)	18.00 (457)	302 (145.0)		
AX-200V	115.0 (435.3)	93.0 (352.0)	24.00 (610)	66.00 (1676)	22.00 (558)	1.50 (38)	325 (146.0)	51.25 (1302)	20.00 (508)	18.00 (457)	344 (165.0)		
AX-240V	140.0 (530.0)	113.5 (429.6)	24.00 (610)	78.00 (1981)	22.00 (558)	1.50 (38)	362 (163.0)	59.50 (1511)	20.00 (508)	18.00 (457)	381 (183.0)		
AX-260V	158.0 (598.1)	128.0 (484.5)	30.00 (762)	61.00 (1549)	28.00 (711)	1.50 (38)	591 (266.0)	46.00 (1168)	24.00 (610)	22.00 (559)	651 (312.0)		
AX-280V	211.0 (798.7)	171.0 (647.3)	30.00 (762)	79.00 (2700)	28.00 (711)	1.50 (38)	752 (338.0)	64.00 (1626)	24.00 (610)	22.00 (559)	812 (390.0)		



This tank to be mounted vertical or horizontal. For Horizontal mounting saddles can be provided.



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