

AX-V SERIES | PRE-CHARGED (ASME)
EXPANSION TANK | AX-15V TO AX-280V | SUBMITTAL

File No: 37.5112
Date: APRIL 27, 2022
Supersedes: 37.51
Date: JULY 07, 2015

Job: _____ Representative: _____

Order no.: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

Model no. ordered: _____ Qty: _____

Tag no.: _____ Charge pressure: _____ psi/kPa

Standard factory charge is 40 psi (276 kPa) unless otherwise specified.

MAXIMUM OPERATING CONDITIONS

Working temperature: -20°F to 240°F (-29°C to 115.5°C)

Working pressure: 175 psi (1206 kPa)
 250 psi (1724 kPa)

NOTES

- Not for domestic potable water systems.
- California code Sight-Glass available upon request.
- Designed and constructed per ASME section VIII, Division 1.
- Mounting clips available on request.
- Lift rings available on models AX-40V to AX-280V

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 _____ working pressure. Each tank will be supplied with a heavy duty butyl diaphragm. Tank shall be supplied with a ring base, lift ring, 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.

MODEL	TANK VOLUME	ACCEPTANCE VOLUME	A	B	SYSTEM CONNECTION NPT	D	CHARGING VALVE	SHIPPING WEIGHT		
					C		E	175 PSI	250 PSI	
gal (L)				inches (mm)					lbs (kg)	
AX-15V	7.8 (29.5)	6.3 (23.8)	12.00 (305)	19.00 (483)	0.75 (19)	10.00 (254)	0.302" - 32NC	46 (20.9)	60 (27.2)	
AX-20V	11.0 (41.6)	8.8 (33.3)	12.00 (305)	25.00 (635)	0.75 (19)	10.00 (254)		57 (25.9)	76 (34.5)	
AX-40V	25.0 (94.6)	20.2 (76.5)	16.00 (406)	33.00 (838)	1.00 (25)	14.00 (356)		84 (38.1)	110 (49.9)	
AX-60V	35.0 (132.5)	28.0 (106.0)	16.00 (406)	44.00 (1118)	1.00 (25)	14.00 (356)		106 (48.1)	139 (63.0)	
AX-80V	45.0 (170.3)	36.0 (136.3)	20.00 (508)	38.00 (965)	1.00 (25)	18.00 (457)		163 (73.9)	215 (97.5)	
AX-100V	60.0 (227.1)	48.5 (183.6)	20.00 (508)	49.00 (1245)	1.00 (25)	18.00 (457)		193 (87.5)	254 (115.2)	
AX-120V	70.0 (265.0)	56.5 (213.9)	24.00 (610)	46.00 (1168)	1.50 (38)	22.00 (558)		285 (129.3)	378 (171.5)	
AX-144V	80.0 (302.8)	65.0 (246.1)	24.00 (610)	49.00 (1245)	1.50 (38)	22.00 (558)		295 (133.8)	390 (176.9)	
AX-180V	90.0 (340.7)	73.0 (276.3)	24.00 (610)	52.00 (1321)	1.50 (38)	22.00 (558)		311 (141.1)	410 (186.0)	
AX-200V	115.0 (435.3)	93.0 (352.0)	24.00 (610)	66.00 (1676)	1.50 (38)	22.00 (558)		358 (162.4)	473 (214.5)	
AX-240V	140.0 (530.0)	113.5 (429.6)	24.00 (610)	78.00 (1981)	1.50 (38)	22.00 (558)		398 (180.5)	525 (238.1)	
AX-260V	158.0 (598.1)	128.0 (484.5)	30.00 (762)	63.00 (1600)	1.50 (38)	24.00 (610)		650 (294.8)	858 (389.2)	
AX-280V	211.0 (798.7)	171.0 (647.3)	30.00 (762)	81.00 (2057)	1.50 (38)	24.00 (610)		827 (375.1)	1090 (494.4)	

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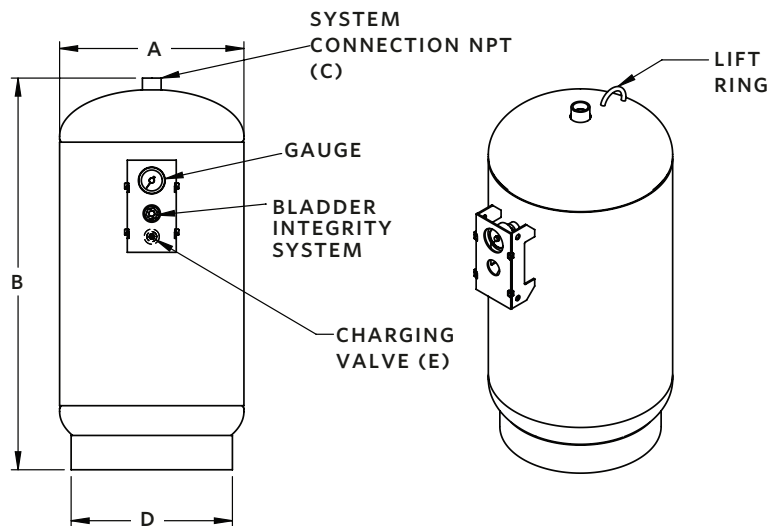
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MODELS AX-15V TO AX-280V