

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

File No: 37.50
Date: AUGUST 18, 2015
Supersedes: 37.50
Date: JULY 07, 2015

Job: _____ Representative: _____

Ordered by: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

Model No. Ordered: _____
Qty: _____ Tag No: _____
Change Pressure: _____ psi/kPa
Optional Saddles Required: Yes No
Standard factory charge is 12 psi (83 kPa) unless otherwise specified.

MAXIMUM OPERATING CONDITIONS

WORKING TEMPERATURE

250°F (121°C)

WORKING PRESSURE

AX 80-AX280:125psi (862kPa)

AX 15-AX60:150psi (1034kPa)

- Not for Domestic potable water systems.
- California code Sight-Glass available upon request.
- Designed and constructed per ASME section VIII, division 1.

TYPICAL SPECIFICATION

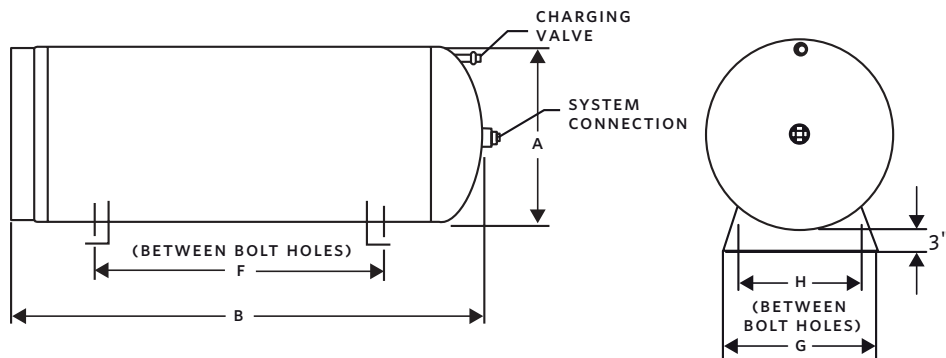
Furnish and install, as shown on the plans, Armstrong Model AX-_____ASME Pre-charged Diaphragm Expansion Tank, stamped 125 psi (862 kPa) working pressure. Each tank will be supplied with a heavy duty butyl diaphragm. Tank shall be supplied with an NPT system connection. An air charging valve connection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

MATERIALS OF CONSTRUCTION

Shell: Steel

Diaphragm: Heavy duty butyl

MODEL	TANK VOLUME	ACCEPTANCE VOLUME	A	B	SYSTEM CONNECTION NPT	TANK SHIPPING WEIGHT W/O SADDLES	F	G	H	TANK SHIPPING WEIGHT WITH SADDLES
	gal (L)		inches (mm)			Lbs (kg)	inches (mm)			Lbs (kg)
AX-15	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-20	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-40	25.0 (94.6)	20.2 (76.5)	16.00 (406)	33.00 (838)	1.00 (25)	84 (38.0)	26.00 (660)	14.00 (356)	12.00 (305)	93 (45.0)
AX-60	35.0 (132.5)	28.0 (105.9)	16.00 (406)	45.00 (1143)	1.00 (25)	97 (44.0)	36.13 (791)	14.00 (356)	12.00 (305)	106 (51.0)
AX-80	45.0 (170.3)	36.0 (136.2)	20.00 (508)	38.00 (965)	1.00 (25)	148 (67.0)	31.13 (791)	16.00 (406)	14.00 (356)	164 (79.0)
AX-100	60.0 (227.1)	48.5 (183.6)	20.00 (508)	49.00 (1245)	1.00 (25)	175 (79.0)	42.50 (1080)	16.00 (406)	14.00 (356)	191 (92.0)
AX-120	70.0 (265.0)	56.5 (213.9)	24.00 (610)	46.00 (1168)	1.50 (38)	259 (117.0)	31.50 (800)	20.00 (508)	18.00 (457)	278 (133.0)
AX-144	80.0 (302.8)	65.0 (246.1)	24.00 (610)	49.00 (1245)	1.50 (38)	268 (121.0)	33.38 (848)	20.00 (508)	18.00 (457)	287 (138.0)
AX-180	90.0 (340.7)	73.0 (276.3)	24.00 (610)	52.00 (1321)	1.50 (38)	283 (128.0)	37.75 (959)	20.00 (508)	18.00 (457)	302 (145.0)
AX-200	115.0 (435.3)	93.0 (352.0)	24.00 (610)	66.00 (1676)	1.50 (38)	325 (146.0)	51.25 (1302)	20.00 (508)	18.00 (457)	344 (165.0)
AX-240	140.0 (530.0)	113.5 (429.6)	24.00 (610)	78.00 (1981)	1.50 (38)	362 (163.0)	59.50 (1511)	20.00 (508)	18.00 (457)	381 (183.0)
AX-260	158.0 (598.1)	128.0 (484.5)	30.00 (762)	61.00 (1549)	1.50 (38)	591 (266.0)	46.00 (1168)	24.00 (610)	22.00 (559)	651 (312.0)
AX-280	211.0 (798.7)	171.0 (647.3)	30.00 (762)	79.00 (2700)	1.50 (38)	752 (338.0)	64.00 (1626)	24.00 (610)	22.00 (559)	812 (390.0)



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