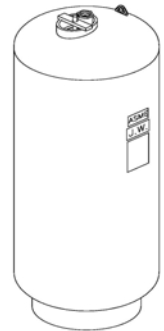




Job Name:		
Job No:	JWC Representative:	
Tag No.:	Submitted By:	Date:
Engineer:	Approved By:	Date:
Contractor:	Order No.:	Date:

## JAER Series

### ASME Bladder Type Expansion Tanks With Top Connection / Type IV Not for Potable Water Systems



#### APPLICATION

- JAER Series precharged bladder type expansion tanks are designed to absorb the expansion forces of heating or cooling system water to maintain the proper system pressurization.
- By holding the system water in the replaceable bladder, the JAER Series tanks eliminate problems such as tank corrosion and water-logging.

#### DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure:  
 JAER-23-601 to 607: 150 PSI (1035 kPa)  
 JAER-23-608 to 610, 668: 125 PSI (862 kPa)
- 175, 200, 250 & 300 PSI available upon request
- Maximum design temperature: 240° F (115° C)

#### TYPICAL DESIGN SPECIFICATION

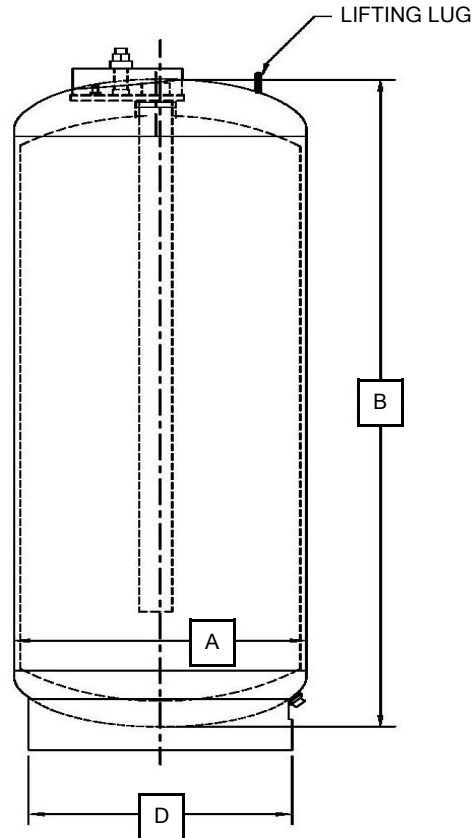
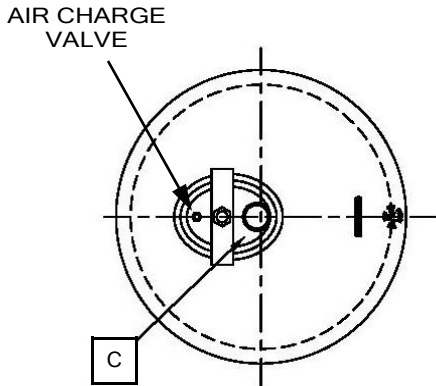
Furnish and install as shown on plans John Wood Model No. JAER-23-\_\_\_\_\_ ( \_\_\_\_\_ gallon / \_\_\_\_\_ liter) ASME precharged vertical / horizontal steel expansion tank with replaceable heavy duty butyl rubber bladder. The tank shall have a top mounted \_\_\_\_\_" MNPT system connection and a charging valve connection (Schrader valve) with full guard to facilitate on-site charging of the tank to meet system requirements. The tank shall be fitted with a lifting lug and a base designed for vertical installation or saddles for horizontal installation. The tank must be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Division I, with a stamped MAWP of \_\_\_\_\_ PSI ( \_\_\_\_\_ kPa) and a maximum design temperature of 240°F (115°C).

#### SPECIFICATIONS

- Designed and built in accordance with the ASME BPV Code Section VIII, Division 1
- Installation: vertical or horizontal
- Shell: Carbon Steel with exterior gray primer finish
- System connection: top mounted Carbon Steel MNPT connection with flexible internal flow tube
- Replaceable bladder: high quality butyl rubber
- Full acceptance bladder
- Maximum acceptance volume is approximately 90% of the tank capacity
- Suitable for use in systems containing glycol
- Air charge valve: ¼" Schrader charging valve, top mounted with protective guard
- Maximum precharge pressure with standard flow tube: 80 PSI (optional high precharge flow tube is required for precharge pressures above 80 PSI – not included with the standard design)
- Standard factory precharge: 12 PSI



# JAER Series / Type IV



**OPTIONS**

- High Precharge Flow Tube (required for pre-charge pressures above 80 PSI; suitable for vertical installations only)
- California Code Sight Glass
- Seismic Design

MODEL NUMBER	CODE SYMBOL	MAWP	TANK VOLUME		A DIAMETER		B OVERHEADS		C SYS CONN	D BASE DIAMETER		TANK WEIGHT	
			GAL	L	IN	MM	IN	MM	INCH (MNPT)	IN	MM	LBS	KG
*JAER-23-601	UM	150	10	40	12	305	22	559	1	8%	219	50	23
*JAER-23-602	UM	150	15	60	12	305	33½	851	1	8%	219	65	30
*JAER-23-603	UM	150	24	90	12	305	52	1321	1	8%	219	90	41
*JAER-23-604	UM	150	30	110	14	356	48	1219	1	8%	219	90	41
*JAER-23-605	UM	150	35	130	14	356	55½	1410	1	8%	219	100	45
*JAER-23-606	U	150	40	150	14	356	62¼	1581	1	8%	219	115	52
*JAER-23-607	U	150	60	230	16	406	72%	1838	1½	11½	292	155	70
*JAER-23-608	U	125	80	300	20	508	63¼	1607	1½	18	457	175	79
*JAER-23-668	U	125	105	400	24	610	56	1422	1½	18	457	225	102
*JAER-23-609	U	125	120	450	24	610	66	1676	1½	18	457	260	118
*JAER-23-610	U	125	135	500	24	610	72	1829	1½	18	457	275	125

Dimensions are approximate and subject to change  
 Dimensions should not be used for pre-piping  
 Weights are approximate  
 \*Stock model

