THE JOHN WOOD COMPANY

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SUBMITTAL

Form 611A

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Engineer:	Approved By:	Date:
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JSTR Series

ASME Boiler Buffer Tank For Additional Thermal Storage Volume in High Efficiency Heating Systems

APPLICATION

- JSTR Series boiler buffer tanks are designed to ensure that sufficient water volume is available to maintain optimum temperature control in a closed loop high efficiency heating system.
- Having the right water volume increases the thermal mass and flywheel effect. Water has a very high thermal capacity. Thermal mass can store and even out fluctuations in temperature
- Some small volume low-mass condensing boilers require additional water volume to deliver high-efficiency operation throughout the range of load conditions. Using a buffer tank to add volume to the system increases reliability by stabilizing temperatures and minimizing boiler cycling.

DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure: 125 PSI (862 kPa)
- 150, 175, 200, 250, 300 PSI available upon request
- Maximum design temperature: 500°F (260°C)

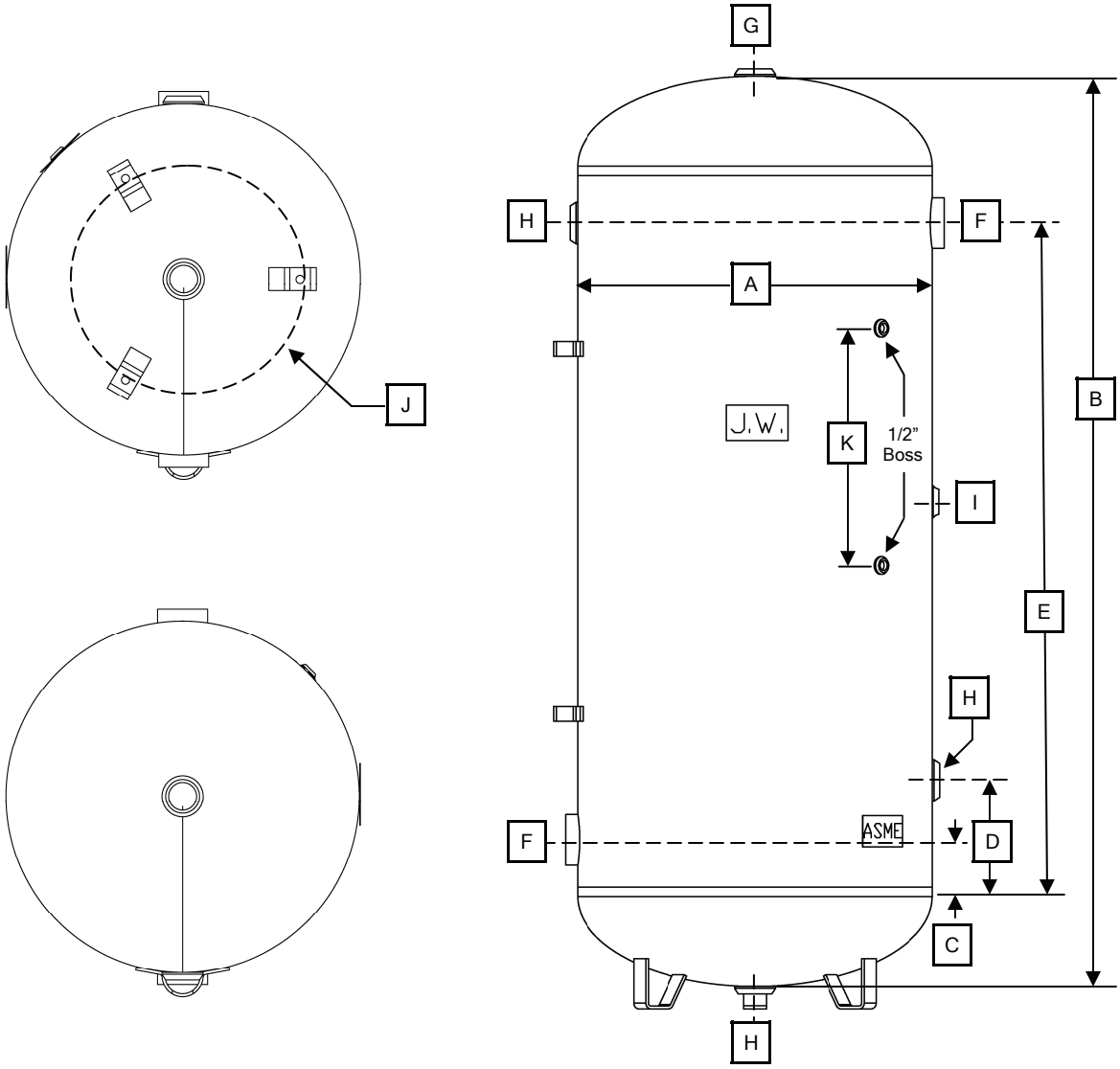
SPECIFICATIONS

- Fabricated and stamped in accordance with the ASME BPV Code Section VIII, Division 1
- Installation: vertical
- MOC: Carbon Steel
- Exterior finish: Gray primer
- Interior finish: Plain
- Standard inlet/outlet connections: FNPT
- Vent and drain connections: FNPT
- Strap type support legs provide 2⅛" clearance for the 24" diameter, 1⅞" clearance for the 30" diameter, and 1¾" clearance for the 36" diameter
- Two (2) ½" FNPT boss connections are included with 20" center-to-center spacing
- Standard tanks include two (2) 3" size half couplings, NPT, 3000#, SA-105
- Custom buffer tanks with NPT, flanged or grooved end connections are available upon request

TYPICAL DESIGN SPECIFICATION

Furnish and install as shown on plans a John Wood Model No. JSTR-___-_____ (____ gallon / ____ liter) ASME code stamped Boiler Buffer Tank. The tank shall have _____ flanged / FNPT / grooved-end pipe system inlet and outlet connections. The tank shall be fitted with a FNPT vent and drain connections on the top and bottom. The vessel must be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Division 1 with a stamped MAWP of 125 PSI (862 kPa) and a maximum design temperature of 500°F (260°C).

JSTR Series / ASME



PART NUMBER	MAWP	VOLUME		A DIA	B OH	C DIM	D DIM	E DIM	F HC NPT	G BOSS NPT	H BOSS NPT	I BOSS NPT	J BOLT CIRCLE	K DIM	TANK WEIGHT
	PSI	GAL	L	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	LBS
*JSTR-22-033	125	120	454	24	64¾	4	9	47¼	3	2	1½	1¼	16⅜	20	225
*JSTR-22-036	125	220	833	30	76¾	4	9	56	3	2	2	1¼	19¾	20	345
*JSTR-24-039	125	300	1136	36	71½	4	10	46	3	2	2	1¼	22¾	20	465
JSTR-24-310	125	400	1514	36	93½	4	10	68	3	2	2	1¼	22¾	20	600

Dimensions are subject to change
Weights are approximate
*Stock model