

JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.:	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



Series "WTA" - High Pressure Models

ASME Hydro-Pneumatic Tanks
 175 PSIG and 250 PSIG Working Pressure
 For Potable Well Water Systems

DESCRIPTION

Series "WTA" hydro-pneumatic tanks are ASME rated, pre-charged vessels. The Series "WTA" tank will help protect the pump and pressure switches against short cycling. The domestic well tank delivers adequate water under pressure between pump cycles to meet the required demand. It will provide economical system operation by minimizing pump starts, extending pump motor life, and saving energy. The "WTA" tank will also assist the pump in meeting peak demand.

CONSTRUCTION

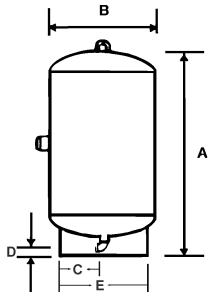
Shell: Steel
 System Connection: Malleable Iron
 WTA-401 - WTA-405: Butyl Diaphragm Polypropylene Liner
 WTA-447 - WTA-457: Replaceable Butyl Bladder
 Designed and constructed per ASME Section VIII, Division 1.
 Factory Precharged:
 WTA-401 - WTA-405: 30 PSI
 WTA-447 - WTA-457: 25 PSI

PERFORMANCE LIMITATIONS

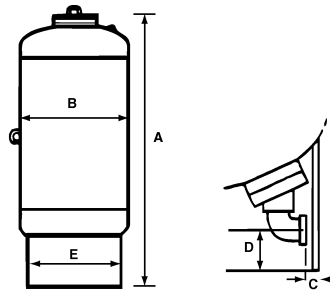
Maximum Design Pressure:
 175 PSI (1,207 kPa) or
 250 PSI (1,724 kPa)
 Maximum Design Temperature:
 WTA-401 - WTA-405: 200°F (93 °C)
 WTA-447 - WTA-457: 240°F (116 °C)

SCHEDULE

MODEL NUMBER	TANK VOLUME GALLONS (LITERS)	ACCEPTANCE VOLUME GALLONS (LITERS)	TAGGING INFORMATION	QUANTITY
WTA-401	18 (68)	11 (42)		
WTA-402	25 (95)	11 (42)		
WTA-403	34 (129)	11 (42)		
WTA-404	68 (257)	34 (129)		
WTA-405	90 (341)	34 (129)		
WTA-447	53 (200)	53 (200)		
WTA-448	80 (300)	80 (300)		
WTA-449	106 (400)	106 (400)		
WTA-450	132 (500)	132 (500)		
WTA-451	158 (600)	158 (600)		
WTA-452	211 (800)	211 (800)		
WTA-453	264 (1000)	264 (1000)		
WTA-454	317 (1200)	317 (1200)		
WTA-455	370 (1400)	370 (1400)		
WTA-456	422 (1600)	422 (1600)		
WTA-457	528 (2000)	528 (2000)		



Models WTA-401 through WTA-405



Models WTA-447 through WTA-457

DIMENSIONS IN INCHES (MM)

Model	A (Height)		B Diameter	C		D		E Skirt	System Connection NPTF	Approx. Shipping Wt	
	175 PSI	250 PSI		175 PSI	250 PSI	175 PSI	250 PSI			175 PSI	250 PSI
WTA-401	31-1/4 (794)	31-1/4 (794)	16-1/4 (413)	4-7/8 (124)	4-7/8 (124)	1-1/2 (38)	1-1/2 (38)	12-3/4 (324)	1"	95 (43)	95 (43)
WTA-402	39-3/4 (1010)	39-3/4 (1010)	16-1/4 (413)	4-7/8 (124)	4-7/8 (124)	1-1/2 (38)	1-1/2 (38)	12-3/4 (324)	1"	112 (51)	112 (51)
WTA-403	49-1/4 (1251)	49-1/4 (1251)	16-1/4 (413)	4-7/8 (124)	4-7/8 (124)	1-1/2 (38)	1-1/2 (38)	12-3/4 (324)	1"	123 (56)	123 (56)
WTA-404	47-1/4 (1200)	47-1/4 (1200)	24 (610)	6-1/4 (159)	6-1/4 (159)	1-5/8 (41)	1-5/8 (41)	16 (406)	1-1/4"	210 (95)	210 (95)
WTA-405	59-1/2 (1511)	59-1/2 (1511)	24 (610)	6-1/4 (159)	6-1/4 (159)	1-5/8 (41)	1-5/8 (41)	16 (406)	1-1/4"	280 (127)	280 (127)
WTA-447	45-7/8 (1165)	46 (1168)	24 (610)	2 (51)	2 (51)	3-3/4 (95)	3-3/4 (95)	19 (483)	2"	310 (141)	390 (178)
WTA-448	59-7/8 (1521)	59-1/2 (1480)	24 (610)	2 (51)	2 (51)	3-3/4 (95)	3-3/4 (95)	19 (483)	2"	404 (184)	505 (230)
WTA-449	73-3/4 (1873)	73-3/4 (1873)	24 (610)	2 (51)	2 (51)	3-3/4 (95)	3-3/4 (95)	19 (483)	2"	495 (226)	618 (282)
WTA-450	87-5/8 (2226)	86-3/8 (2194)	24 (610)	2 (51)	2 (51)	3-3/4 (95)	3-3/4 (95)	19 (483)	2"	585 (267)	731 (333)
WTA-451	74 (1880)	74-1/2 (1892)	30 (762)	3-1/2 (89)	3-3/4 (95)	5-1/2 (140)	6 (152)	24 (610)	2"	675 (308)	843 (384)
WTA-452	92 (2337)	91-1/2 (2324)	30 (762)	3-1/2 (89)	3-3/4 (95)	5-1/2 (140)	6 (152)	24 (610)	2"	817 (373)	1021 (466)
WTA-453	86 (2184)	85-1/8 (2162)	36 (914)	4-1/2 (114)	3-7/8 (98)	7 (178)	6-3/4 (172)	30 (762)	3"	1130 (515)	1412 (644)
WTA-454	98 (2489)	97-1/2 (2477)	36 (914)	4-1/2 (114)	3-7/8 (98)	7 (178)	6-3/4 (172)	30 (762)	3"	1290 (588)	1613 (736)
WTA-455	110-3/8 (2804)	109-7/8 (2791)	36 (914)	4-1/2 (114)	3-7/8 (98)	7 (178)	6-3/4 (172)	30 (762)	3"	1450 (661)	1808 (824)
WTA-456	81-7/8 (2080)	81-7/8 (2080)	48 (1219)	7-1/2 (191)	6-7/8 (175)	7-1/8 (181)	7-1/2 (191)	42 (1067)	3"	1750 (798)	2108 (961)
WTA-457	97-1/4 (2470)	95-3/4 (2432)	48 (1219)	7-1/2 (191)	6-7/8 (175)	7-1/8 (181)	7-1/2 (191)	42 (1067)	3"	2030 (926)	2543 (1160)

NOTE: All dimensions are approximate.

TYPICAL SPECIFICATIONS

Furnish and install as shown on plans a _____ gallon (_____ liter), _____" (_____ mm) diameter x _____" (_____ mm) high pre-charged vertical steel hydro-pneumatic diaphragm tank with integral heavy duty butyl diaphragm. The tank shall have a _____" NPT system connection, and a .302"-32 charging valve connection (standard tire valve) to facilitate on-site charging of the tank to meet system requirements.

The water connections are malleable iron. The tank must be constructed in accordance with ASME. The tank must be designed for a maximum working pressure of [select one: 175 PSI (1207 kPa) or 250 PSI (1724 kPa)] and maximum working temperature of _____ °F (_____ °C).

Each tank shall be Bell & Gossett Model No. _____

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