

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



Series "WTA"

ASME Hydro-Pneumatic Tanks

For Potable Well Water Systems

DESCRIPTION

Series "WTA" hydro-pneumatic diaphragm 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.

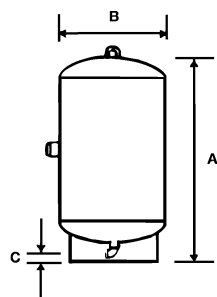
Factory Precharged:
WTA-401 - WTA-405: 30 PSI
WTA-447 - WTA-457: 25 PSI

PERFORMANCE LIMITATIONS

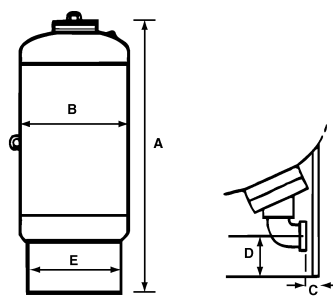
Maximum Design Pressure:
150 PSI (1034 kPa)
Maximum Design Temperature:
WTA-401 - WTA-405: 200°F (93 °C)
WTA-447 - WTA-457: 240 °F (116 °C)

SCHEDULE

SCHEDULE					
PART NUMBER	MODEL NUMBER	TANK VOLUME GALLONS (LITERS)	ACCEPTANCE VOLUME GALLONS (LITERS)	TAGGING INFORMATION	QUANTITY
Consult Factory	WTA-401	18 (68)	11.7 (44)		
Consult Factory	WTA-402	25 (95)	11.3 (43)		
Consult Factory	WTA-403	34 (129)	11.2 (42)		
Consult Factory	WTA-404	68 (257)	34 (129)		
Consult Factory	WTA-405	90 (341)	35.1 (133)		
Consult Factory	WTA-447	53 (200)	53 (200)		
Consult Factory	WTA-448	80 (300)	80 (300)		
Consult Factory	WTA-449	106 (400)	106 (400)		
Consult Factory	WTA-450	132 (500)	132 (500)		
Consult Factory	WTA-451	158 (600)	158 (600)		
Consult Factory	WTA-452	211 (800)	211 (800)		
Consult Factory	WTA-453	264 (1000)	264 (1000)		
Consult Factory	WTA-454	317 (1200)	317 (1200)		
Consult Factory	WTA-455	370 (1400)	370 (1400)		
Consult Factory	WTA-456	422 (1600)	422 (1600)		
Consult Factory	WTA-457	528 (2000)	528 (2000)		



Models WTA-401 through WTA-405



Models WTA-447 through WTA-457

DIMENSIONS IN INCHES (MM)

Model	Height	Diameter	C	D	E	System Connection	Shipping Wt
WTA-401	31-1/4 (794)	16-1/4 (413)	1-1/2 (38)	N/A	N/A	1" NPTF	96 (44)
WTA-402	39-3/4 (1010)	16-1/4 (413)	1-1/2 (38)	N/A	N/A	1" NPTF	113 (51)
WTA-403	49-1/4 (1251)	16-1/4 (413)	1-1/2 (38)	N/A	N/A	1" NPTF	120 (54)
WTA-404	47-1/4 (1200)	24 (610)	1-5/8 (41)	N/A	N/A	1-1/4" NPTF	232 (105)
WTA-405	59-1/4 (1505)	24 (610)	1-5/8 (41)	N/A	N/A	1-1/4" NPTF	255 (116)
WTA-447	45-1/4 (1150)	24 (610)	2 (51)	3-3/4 (95)	19 (483)	2" NPTF	289 (131)
WTA-448	59-1/8 (1502)	24 (610)	2 (51)	3-3/4 (95)	19 (483)	2" NPTF	338 (153)
WTA-449	73-1/8 (1857)	24 (610)	2 (51)	3-3/4 (95)	19 (483)	2" NPTF	350 (159)
WTA-450	86-5/8 (2200)	24 (610)	2 (51)	3-3/4 (95)	19 (483)	2" NPTF	392 (178)
WTA-451	73-1/4 (1861)	30 (762)	3-1/2 (89)	5-1/2 (140)	24 (610)	2" NPTF	587 (266)
WTA-452	91 (2312)	30 (762)	3-1/2 (89)	5-1/2 (140)	24 (610)	2" NPTF	627 (284)
WTA-453	86 (2184)	36 (914)	4-1/2 (114)	7 (178)	30 (762)	3" NPTF	752 (341)
WTA-454	98 (2489)	36 (914)	4-1/2 (114)	7 (178)	30 (762)	3" NPTF	840 (381)
WTA-455	110-3/8 (2804)	36 (914)	4-1/2 (114)	7 (178)	30 (762)	3" NPTF	930 (422)
WTA-456	81-7/8 (2080)	48 (1219)	7-1/2 (191)	7-1/8 (181)	42 (1067)	3" NPTF	1418 (643)
WTA-457	97-1/4 (2470)	48 (1219)	7-1/2 (191)	7-1/8 (181)	42 (1067)	3" NPTF	1500 (680)

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 125 PSI and maximum working temperature of _____ °F (_____°C).

Each tank shall be Xylem – Bell & Gossett Model No. _____

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xylem
Let's Solve Water

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