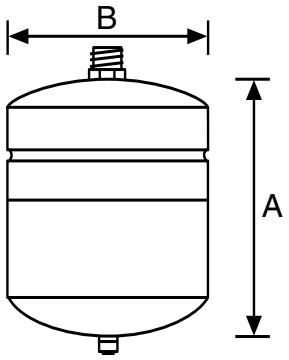
AMTROL INC

THERM-X-TROL®

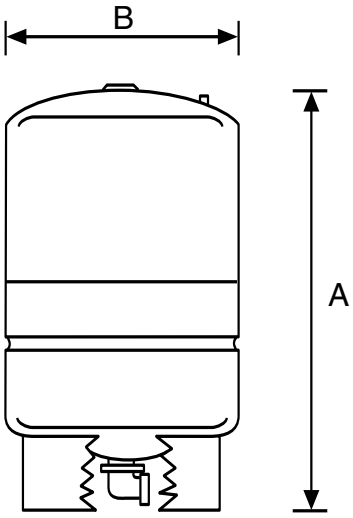
Thermal Expansion Absorbers, ST-Series (Non-ASME)

150 PSIG Working Pressure



ST-5, ST-12

ANSI/NSF 61



ST-25V through ST-210V

ANSI/NSF 61

In-Line Models

Model No.	Tank Vol.		Max. Accept.	A Height		B Diameter		Sys. Conn.	Ship Wt.	
	Lit.	Gal.	Factor	cm	ins.	cm	ins.	NPTM	kg	lbs.
ST-5	8	2.0	0.45	321	12 5/8	203	8	3/4	2.3	5
ST-12	17	4.4	0.73	381	15	279	11	3/4	4.0	9

Stand Models

Model No.	Tank Vol.		Max. Accept.	A Height		B Diameter		Sys. Conn.	Ship Wt.	
	Lit.	Gal.	Factor	cm	ins.	cm	ins.	NPTF	kg	lbs.
ST-25V	39	10.3	1.00	489	19 1/4	391	15 3/8	1	10.5	23
ST-30V	53	14.0	0.81	605	23 7/8	391	15 3/8	1	11.4	25
ST-42V	76	20.0	0.57	802	31 5/8	391	15 3/8	1	15.0	33
ST-60V	129	34.0	1.00	913	29 5/8	559	22	1 1/4	28.0	61
ST-80V	167	44.0	0.77	913	36	559	22	1 1/4	31.0	69
ST-180V	235	62.0	0.55	1186	46 3/4	559	22	1 1/4	41.0	92
ST-210V	326	86.0	0.54	1199	47 1/4	660	26	1 1/4	56.0	123

Maximum Operating Conditions

Operating Temperature	200°F (93°C)
Working Pressure	150 PSIG (10.5 kg/cm^2)

Specifications

Description	Standard Construction
Standard Factory Pre-charge	40 PSIG (2.8 kg/cm^2)
System Connection	Brass (ST5,12)
	Stainless Steel (Stand Models)
Diaphragm	Butyl/EPDM
Liner Material	Polypropylene

All dimensions and weights are approximate.

Job Name _____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No. _____

Sales Representative _____

Model No. Ordered _____

*Submittal data sheets can **ONLY** be ordered as a "Submittal Data Sheet Pack", using **MC# 4400**. They are not available to order on an individual basis, however each data sheet is available on the Amtrol Web Site and can be downloaded and printed for use as needed.*

WELL-X-TROL®
WX-400 Series (Non-ASME)

150 PSIG Working Pressure

Non-ASME Models

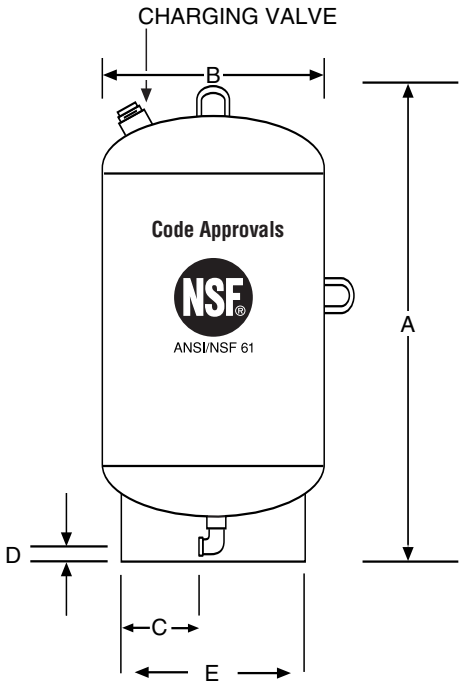
Model No.	Tank Vol.		Max. Accept. Factor	A Height		B Diameter		C Conn. Inset		D Conn. Centerline		E	Sys. Conn.	Ship Wt.	
	Lit.	Gal		mm	ins.	mm	ins.	mm	ins.	mm	ins.	ins.	ins.	kg	lbs.
WX-401	68	18	.65	794	31¼	413	16¼	124	4⅞	38	1½	12¾	1	43	95
WX-402	95	25	.45	1010	39¾	413	16¼	124	4⅞	38	1½	12¾	1	51	112
WX-403	129	34	.33	1251	49¼	413	16¼	124	4⅞	38	1½	12¾	1	56	123
WX-404	258	68	.50	1200	47½	610	24	159	6¼	41	1⅝	16	1¼	95	210
WX-405	341	90	.39	1505	59¼	610	24	159	6¼	41	1⅝	16	1¼	127	280
WX-406	417	110	.31	1778	70	610	24	159	6¼	41	1⅝	16	1¼	152	335
WX-407	500	132	.35	1435	56½	762	30	254	10	41	1⅝	24	1¼	207	456

Maximum Operating Conditions

Operating Temperature	200° F (93° C)
Working Pressure	150 PSIG (10.5 bar)

Specifications

Description	Standard Construction
Shell	Steel
Diaphragm	Heavy Duty Butyl/EPDM ANSI/NSF61
System Connection	Malleable Iron (NPT)
Liner	Polypropylene
Coating	Red Oxide Primer
Factory Precharge	30 PSIG (2.2 bar)



All dimensions and weights are approximate.

Job Name _____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No. _____

Sales Representative _____

Model No. Ordered _____

System Pressure Range _____

Pre-Charge Pressure _____

Pump GPM _____

Date Submitted _____

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WELL-X-TROL®
WX-440/450 Series (Non-ASME)

150 PSIG Working Pressure

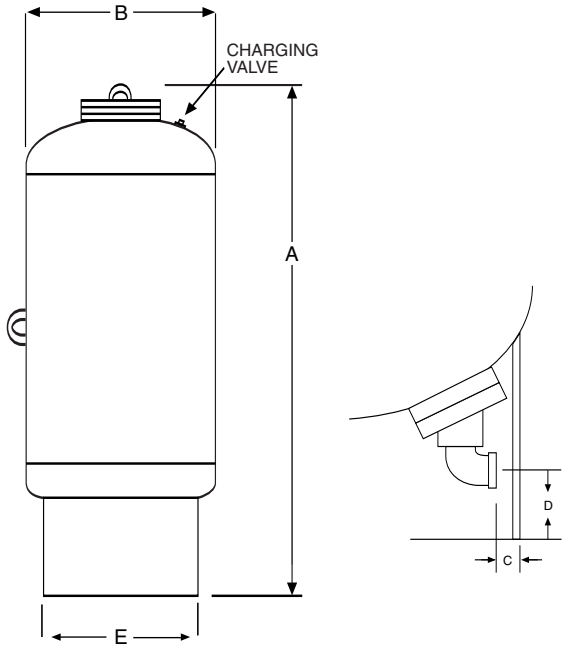
Non-ASME Models

Model No.	Tank Vol.		0 PSIG Acc. Vol.	Max. Recomm. Acc. Vol.		A Height		B Diameter		Sys. Conn.	C	D	E	Ship Wt.	
	Lit.	Gal	Gal	Lit.	Gal	mm	ins.	mm	ins.	ins.	ins.	ins.	ins.	kg	lbs.
WX-447	200	53	53	129	34	1150	45 1/4	610	24	2	2	3 3/4	19	120	263
WX-448	300	80	80	197	52	1502	59 1/8	610	24	2	2	3 3/4	19	140	308
WX-449	400	106	106	261	69	1857	73 1/8	610	24	2	2	3 3/4	19	160	352
WX-450	500	132	132	322	85	2200	86 5/8	610	24	2	2	3 3/4	19	178	392
WX-451	600	158	158	386	102	1861	73 1/4	762	30	2	3 1/2	5 1/2	24	233	513
WX-452	800	211	211	519	137	2312	91	762	30	2	3 1/2	5 1/2	24	275	607
WX-453	1000	264	264	647	171	2184	86	914	36	3	4 1/2	7	30	367	810
WX-454	1200	317	317	780	206	2489	98	914	36	3	4 1/2	7	30	415	914
WX-455	1400	370	370	908	240	2804	110 3/8	914	36	3	4 1/2	7	30	462	1018
WX-456	1600	422	422	1037	274	2080	81 7/8	1219	48	3	7 1/2	7 1/8	42	567	1250
WX-457	2000	528	528	1298	343	2470	97 1/4	1219	48	3	7 1/2	7 1/8	42	616	1358

Note: Allow 18" (460mm) minimum clearance.

Operating Temperature	240° F (115° C)
Working Pressure	150 PSIG (10.5 bar)

Description	Standard Construction
Shell	Steel
Bladder	Heavy Duty Butyl ANSI/NSF 61
Bladder Thickness	.100 Ins. Minimum
System Connection	Malleable Iron (NPTF)
Coating	Red Oxide Primer
Factory Precharge	25 PSIG (1.8 bar)



Job Name_____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No._____

Sales Representative _____

Model No. Ordered _____

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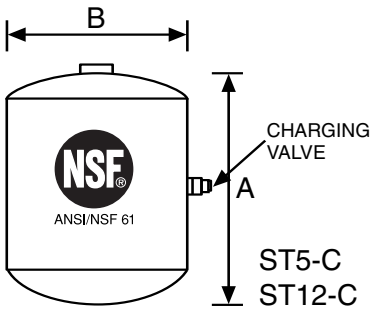
THERM-X-TROL®

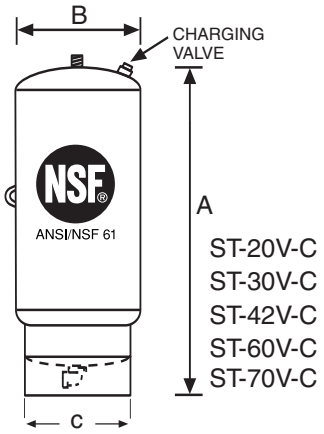
Thermal Expansion Absorbers, ST-C Series (ASME)

150 PSIG Working Pressure



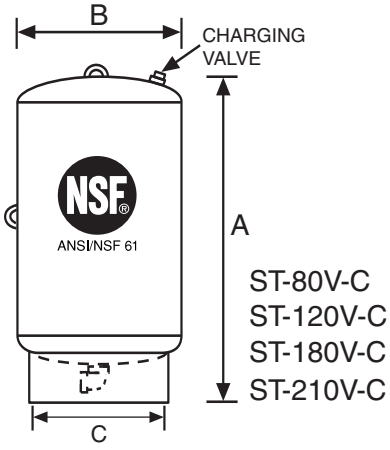
In-Line Models

Model No.	Tank Vol.		Max. Recomm. Accept Vol.		A Height		B Diameter		Sys. Conn.	Ship Wt.	
	Lit.	Gal.	Lit.	Gal	mm	ins.	mm	ins.	ins.	kg	lbs.
ST-5-C	8	4.0	3.44	.9	264	10 3/8	254	10	3/4 NPT	9.5	21
ST-12-C	24	6.4	12.0	3.2	340	13 3/8	305	12	3/4 NPT	12	26



Stand Models

Model No.	Tank Vol.		Max. Recomm Accept. Vol.		A Height		B Diameter		C Dim.		Sys. Conn.	Ship Wt.	
	Lit.	Gal	Lit.	Gal	mm	ins.	mm	ins.	mm	ins.	ins.	kg	lbs.
ST-20V-C	30	8.0	12.0	3.2	510	20 1/16	305	12	273	10 3/4	3/4 NPTF	19	41
ST-30V-C	53	14.0	33.9	8.96	491	19 5/16	419	16 1/4	324	12 3/4	3/4 NPTF	38.1	84
ST-42V-C	66	17.5	42.9	11.4	640	25 3/16	419	16 1/4	324	12 3/4	3/4 NPTF	41	90
ST-60V-C	95	25.0	42.9	11.4	864	34	419	16 1/4	324	12 3/4	3/4 NPTF	44	96
ST-70V-C	129	34.0	42.9	11.4	1076	42 3/8	419	16 1/4	324	12 3/4	3/4 NPTF	56	123
ST-80V-C	200	53.0	130	34	1029	40 1/2	610	24	406	16	1 1/4 NPTF	104	229
ST-120V-C	250	66	130	34	1213	47 3/4	610	24	406	16	1 1/4 NPTF	117	258
ST-180V-C	292	77.0	130	34	1337	52 5/8	610	24	406	16	1 1/4 NPTF	131	288
ST-210V-C	341	90.0	130	34	1524	60	610	24	406	16	1 1/4 NPTF	144	318



Maximum Operating Conditions

Operating Temperature	200°F (93°C)
Working Pressure	150 PSIG (10.5 bar)

Specifications

Description	Standard Construction
Standard Factory Pre-charge	55 PSIG (3.9 bar)
System Connection	Stainless Steel
Diaphragm	Heavy Duty Butyl/EPDM ANSI/NSF61
Liner Material	Polypropylene
Shell	Steel

Constructed per ASME Code Section VIII, Division 1.
All dimensions and weights are approximate.

Job Name_____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No._____

Sales Representative _____

Model No. Ordered _____

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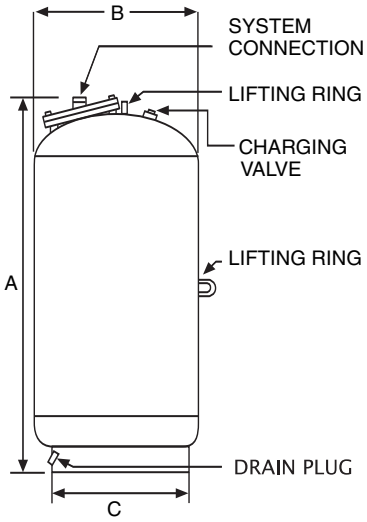
EXTROL® Expansion Tanks
"L" Series (ASME)

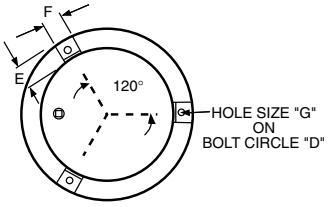
175 PSIG and 250 PSIG Working Pressure

175 and 250 PSIG WP ASME Models

Model No.	Tank Volume		A Height		B Diameter		C Stand Dia.		Sys. Conn.[1]	Shipping Weight 175 PSIG		Shipping Weight 250 PSIG	
	Lit.	Gal.	mm	ins.	mm	ins.	mm	ins.	ins.	kg	lbs.	kg	lbs.
200-L	200	53	940	37	610	24	483	19	1	114	250	132	290
300-L	300	80	1302	51¼	610	24	483	19	1	146	320	175	385
400-L	400	106	1654	65⅛	610	24	483	19	1	170	375	211	465
500-L	500	132	2010	79⅛	610	24	483	19	1	198	435	248	545
600-L	600	158	1651	65	762	30	610	24	1½	270	595	327	720
800-L	800	211	2108	83	762	30	610	24	1½	282	620	411	905
1000-L	1000	264	1867	73½	914	36	762	30	1½	340	750	461	1015
1200-L	1200	317	2181	85⅞	914	36	762	30	1½	390	860	533	1175
1400-L	1400	370	2496	98¼	914	36	762	30	1½	440	970	606	1335
1600-L	1600	422	1768	69⅝	1219	48	1067	42	1½	647	1425	869	1916
2000-L	2000	528	2121	83½	1219	48	1067	42	1½	760	1675	1005	2215
2500-L	2500	660	2562	100⅛	1219	48	1067	42	2	883	1945	1173	2585
3000-L	3000	792	3000	118½	1219	48	1067	42	2	1010	2225	1338	2950
3500-L	3500	925	2820	111	1372	54	1067	42	2	1078	2375	1661	3660
4000-L	4000	1057	3163	124½	1372	54	1067	42	2	1198	2640	1851	4080
5000-L	5000	1321	3251	128	1524	60	1067	42	2	1863	4100	1909	4200
7500-L	7500	1980	3226	127	1829	72	1372	54	3	2045	4500	2522	5550
10000-L	10000	2640	4039	159	1829	72	1372	54	3	2500	5500	3090	6800
15000-L	15000	3963	5918	233	1829	72	1372	54	3	3590	7900	4454	9800

[1]System connection is NPT





BOTTOM VIEW

Maximum Operating Conditions

Operating Temperature	240°F (115°C)
Working Pressure (Indicate 175 or 250 when ordering)	175 PSIG (12.3 bar) or 250 PSIG (17.6 bar)

Specifications

Description	Standard Construction
Shell	Steel
Bladder	Heavy Duty Butyl ANSI/NSF61
Bladder Thickness	.100 Ins. Minimum
System Connection	Forged Steel
Factory Precharge	12 PSIG (.84 bar)

Designed & constructed per ASME Section VIII, Division 1.
Allow 18" (460 mm) Minimum Clearance for Piping.

Optional Seismic Restraints

TANK Diam B	BOLT CIRCLE D	DIM. E	DIM. F	HOLE SIZE G
24	21	2	2	9/16
30	28	4	4	⅞
36	34	4	4	⅞
48	46	4	4	⅞
54	46	4	4	⅞
60	46	4	4	⅞
72	58	4	4	1

All dimensions and weights are approximate.

Job Name _____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No. _____

Sales Representative _____

Model No. Ordered _____

System Operating Temp Range _____

System Operating Pressure Range _____

Tank Precharge PSIG _____

Date Submitted _____

ASME CERTIFICATION REQUIRED __ YES __ NO

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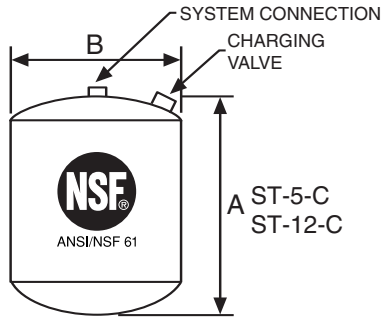
THERM-X-TROL®

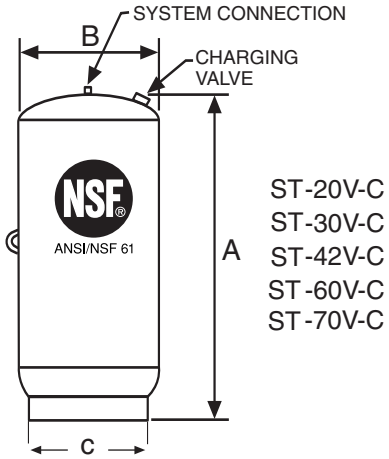
Thermal Expansion Absorbers, ST-C Series (ASME)

250 PSIG Working Pressure



In-Line Models

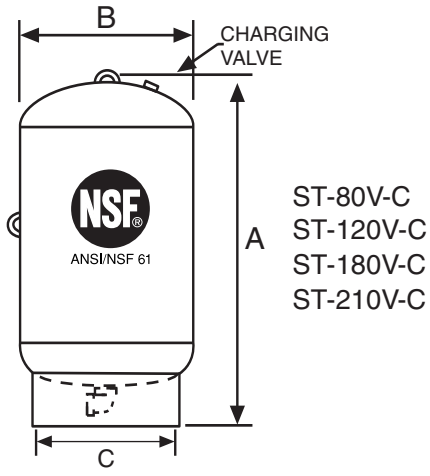
Model No.	Tank Vol.		Max. Recomm. Accept. Vol.		A Vol Height		B Diameter		Sys. Conn.	Ship Wt.	
	Lit.	Gal	Lit.	Gal	mm	ins.	mm	ins.	ins.	kg	lbs.
ST-5-C	8	4.0	3.44	.9	264	10 3/8	254	10	3/4 NPTF	9.5	21
ST-12-C	24	6.4	12.0	3.2	340	13 3/8	305	12	3/4 NPTF	15.4	36



Stand Models

Model No.	Tank Vol.		Max. Recomm. Accept. Vol.		A Height		B Diameter		C Dim.		Sys. Conn.	Ship Wt.	
	Lit.	Gal	Lit.	Gal	mm	ins.	mm	ins.	mm	ins.	ins.	kg	lbs.
ST-20V-C	30	8.0	12.0	3.2	510	20 1/16	305	12	273	10 3/4	3/4 NPTF	23.6	52
ST-30V-C	53	14.0	33.9	8.96	491	19 5/16	419	16 1/4	324	12 3/4	3/4 NPTF	44	97
ST-42V-C	66	17.5	42.9	11.4	640	25 3/16	419	16 1/4	324	12 3/4	3/4 NPTF	52.7	116
ST-60V-C	95	25.0	42.9	11.4	864	34	419	16 1/4	324	12 3/4	3/4 NPTF	70	154
ST-70V-C	129	34.0	42.9	11.4	1076	42 3/8	419	16 1/4	324	12 3/4	3/4 NPTF	90	197
ST-80V-C	200	53.0	130	34	1029	40 1/2	610	24	406	16	1 1/4 NPTF	114	251
ST-120V-C	250	66.0	130	34	1213	47 3/4	610	24	406	16	1 1/4 NPTF	127.6	281
ST-180V-C	292	77.0	130	34	1337	52 5/8	610	24	406	16	1 1/4 NPTF	160.3	353
ST-210V-C	341	90.0	130	34	1524	60	610	24	406	16	1 1/4 NPTF	173.4	382

Constructed per ASME Code Section VIII, Division 1.
All dimensions and weights are approximate.



Maximum Operating Conditions

Operating Temperature	200°F (93°C)
Working Pressure	250 PSIG (17.6 bar)

Specifications

Description	Standard Construction
Standard Factory Pre-charge	55 PSIG (3.9 bar)
System Connection	Stainless Steel
Diaphragm	Heavy Duty Butyl/EPDM ANSI/NSF61
Liner Material	Polypropylene
Shell	Steel
Coating	Red Oxide Primer

Job Name_____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No._____

Sales Representative _____

Model No. Ordered _____

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WELL-X-TROL®
WX-400-C Series (ASME)
250 PSIG Working Pressure

ASME Models

Model No.	Tank Vol. Lit.	Tank Vol. Gal	Max. Accept. Factor	A Height mm	A Height ins.	B Diameter mm	B Diameter ins.	C Conn. mm	C Inset ins.	D Conn.Centerline mm	D Conn.Centerline ins.	E ins.	Sys. Conn. ins.	Ship Wt. kg	Ship Wt. lbs.
WX-401-C	68	18	.65	794	31 1/4	413	16 1/4	124	4 7/8	38	1 1/2	12 3/4	1	43	150
WX-402-C	95	25	.45	1010	39 3/4	413	16 1/4	124	4 7/8	38	1 1/2	12 3/4	1	51	212
WX-403-C	129	34	.33	1251	49 1/4	413	16 1/4	124	4 7/8	38	1 1/2	12 3/4	1	56	23
WX-404-C	258	68	.50	1200	47 1/4	610	24	159	6 1/4	41	1 5/8	16	1 1/4	95	400
WX-405-C	341	90	.39	1511	59 1/2	610	24	159	6 1/4	41	1 5/8	16	1 1/4	127	530
WX-406-C	417	110	.31	1778	70	610	24	159	6 1/4	41	1 5/8	16	1 1/4	152	635
WX-407-C	500	132	.35	1435	57 3/8	762	30	254	10	41	1 3/4	24	1 1/4	207	850

Maximum Operating Conditions

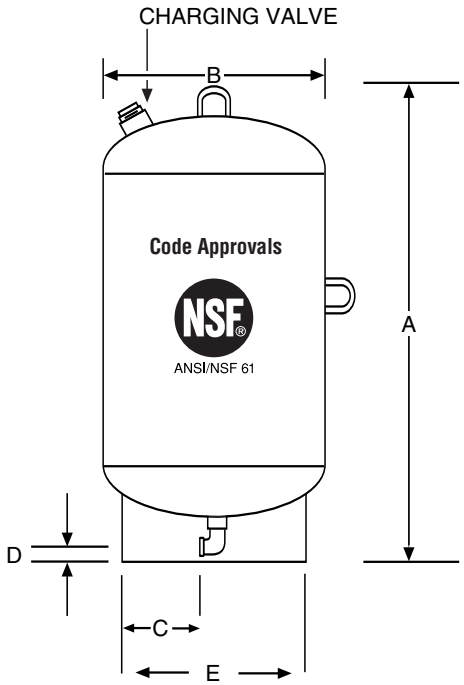
Operating Temperature	200° F (93° C)
Working Pressure	250 PSIG (17.6 bar)

Also available with 125 PSIG (8.8 bar), 150 PSIG (10.5 bar) and 175 PSIG (12.3 bar)

Specifications

Description	Standard Construction
Shell	Steel
Diaphragm	Heavy Duty Butyl/EPDM ANSI/NSF61
System Connection	Malleable Iron (NPT)
Liner	Polypropylene
Coating	Red Oxide Primer
Factory Precharge	30 PSIG (2.2 bar)

Constructed per ASME Code Section VIII, Division 1.



All dimensions and weights are approximate.

Job Name _____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No. _____

Sales Representative _____

Model No. Ordered _____

System Pressure Range _____

Pre-Charge Pressure _____

Pump GPM _____

Date Submitted _____

ASME CERTIFICATION REQUIRED __ YES __ NO

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WELL-X-TROL®
WX-440-C/450-C Series (ASME)

250 PSIG Working Pressure

ASME Models

Model No.	Tank Vol.		0 PSIG Acc. Vol.	Max. Recomm. Acc. Vol.		A Height		B Diameter		Sys. Conn.	C	D	E	Ship Wt.	
	Lit.	Gal	Gal	Lit.	Gal	mm	ins.	mm	ins.	ins.	ins.	ins.	ins.	kg	lbs.
WX-447-C	200	53	53	129	34	1168	46	610	24	2	2	3¾	19	178	390
WX-448-C	300	80	80	197	52	1480	58½	610	24	2	2	3¾	19	230	505
WX-449-C	400	106	106	261	69	1873	73¾	610	24	2	2	3¾	19	282	618
WX-450-C	500	132	132	322	85	2194	86⅜	610	24	2	2	3¾	19	333	731
WX-451-C	600	158	158	386	102	1892	74½	762	30	2	3½	6	24	384	843
WX-452-C	800	211	211	519	137	2324	91½	762	30	2	3½	6	24	466	1021
WX-453-C	1000	264	264	647	171	2162	85⅛	914	36	3	3⅞	6¾	30	644	1412
WX-454-C	1200	317	317	780	206	2477	97½	914	36	3	3⅞	6¾	30	736	1613
WX-455-C	1400	370	370	908	240	2791	109⅞	914	36	3	3⅞	6¾	30	824	1808
WX-456-C	1600	422	422	1037	274	2080	81⅞	1220	48	3	7½	6⅞	42	961	2108
WX-457-C	2000	528	528	1298	343	2432	95¾	1220	48	3	7½	6⅞	42	1160	2543

Note: Allow 18" (460mm) minimum clearance.

Maximum Operating Conditions

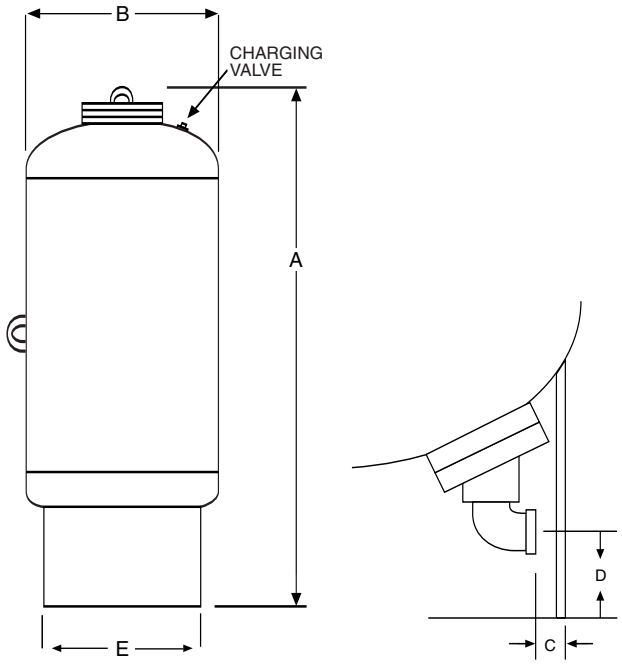
Operating Temperature	240° F (115° C)
Working Pressure	250 PSIG (17.6 bar)

Also available with 125 PSIG (8.8 bar),150 PSIG (10.5 bar) and 175 PSIG (12.3 bar)

Specifications

Description	Standard Construction
Shell	Steel
Bladder	Heavy Duty Butyl ANSI/NSF 61
Bladder Thickness	.100 Ins. Minimum
System Connection	Malleable Iron (NPTF)
Coating	Red Oxide Primer
Factory Precharge	25 PSIG (1.8 bar)

Constructed per ASME Code Section VIII, Division 1.
All dimensions and weights are approximate.



Job Name_____

Location _____

_____

_____

Engineer _____

Contractor _____

Contractor P.O. No._____

Sales Representative _____

Model No. Ordered _____

ASME CERTIFICATION REQUIRED __ YES __ NO

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