SINCE 1908

wessels company

REFERENCE CATALOG

FORM: LPC-2016

2016

101 TANK STREET, GREENWOOD, IN 46143 p:317-888-9800 f:317-888-9988 www.wesselscompany.com

PRODUCT INDEX

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TERMS AND CONDITIONS

MINIMUM ORDER: $ 50 net shipped to one location.

PRICES: Prices and terms are subject to change without notice.

Expedite fees may be applicable – Consult factory

TAXES: Applicable taxes apply separately.

FREIGHT TERMS: All orders are F.O.B. Factory.

PAYMENT TERMS: Terms are Net 30 Days to pre-approved accounts. New accounts must be pre-paid or by credit card until credit is approved. Any accounts over 45 days past due will be placed on credit hold until account is current.

CREDIT APPROVAL: Purchases are subject to credit investigation and approval.

LIMITED WARRANTY: Wessels Co. warrants that its products are of the kind and quality quoted and warrants these products to be free of defective material and/or workmanship only. This warranty is not applicable to operational failures, gasket leaks or malfunctions caused by improper application, installation and/or maintenance. Warranty not applicable if electrolysis condition or abnormal water condition exists. Anode inspection of glass lined storage tanks is required every 6 months. Wessels Co. requires paid receipts to show maintenance of anodes on glass lined tank claims.

Any claim for adjustment under this Limited Warranty must be made within the Warranty period (see below). Wessels Co. shall replace or repair at its option, all parts which upon examination by Wessels Co. prove to be defective material and/or workmanship within the above Limited Warranty. If required by Wessels Co., parts that are claimed defective must be promptly delivered to the Wessels Co. manufacturing facility, transportation charges prepaid. **Wessels Co. will not however, accept any claims for labor costs incurred by the user in removing or reinstalling a product and/or part thereof.** This warranty does not apply if the defect is due to failure to use the product for its intended purpose, the result of an accident, abuse, misuse or unauthorized alteration, or because the product was not installed and maintained in accordance with standard plumbing practices. However, any and all costs required to ship, disassemble, remove, reassemble, reinstall a bladder and/or tank, shall not be borne by the Wessels Co. and **IS NOT COVERED** under this warranty. **IN NO EVENT SHALL WESSELS CO. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES**. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Any implied warranties which the user may have including merchantability and fitness for a particular purpose, shall not extend beyond the period (see below) from date of manufacture of any product. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

WARRANTY PERIODS: **1 YEAR FROM DATE OF SHIPMENT:** All Wessels Co. products (except N-style, T-style and glass-lined storage tanks) when used on applications for which they are intended.

5 YEARS FROM DATE OF SHIPMENT: Non-code T-style Thermal Expansion Tanks, non-code N-style expansion tanks, Glass-lined Storage Tanks for potable water without coils, heating devices or burners and temperatures not exceeding 180 degrees Fahrenheit.

WARRANTY RETURN: A return authorization number is required on all material returned for warranty. All freight charges are the responsibility of the shipper.

PRODUCT RETURN: A return authorization number is required on all material returned. A 25% re-stocking charge will apply (minimum of $50 restocking charge).

PRODUCT CHANGES: We reserve the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications of products previously or subsequently sold.

WESSELS TANKS *At a Glance!*

		HVAC Boiler Chiller Closed-loop	THERMAL Water Heaters Hot Potable Open System	HYDRO-PNEUMATIC Pressure Booster Cold Potable Open System
NON-ASME	Compression	CUSTOM ORDER (pg 11.3)	CUSTOM ORDER (pg 11.3)	CUSTOM ORDER (pg 11.3)
	Diaphragm	**N** (pg 8.2)	**T** (pg 14.2)	CUSTOM ORDER (pg 11.3)
	Removable Bladder	**NL** (pg 8.2)	**TX** (pg 14.2)	**FX** (pg 4.2)
ASME	Compression	**NA** (pg 8.3)	CUSTOM ORDER (pg 11.3)	**NAG** (pg 8.3)
	Diaphragm	**NTA** (pg 8.4)	**TTA** (pg 14.4)	**FXT** (pg 4.2)
	Removable Bladder	**NLAP** (pg 8.4) **NLA** (pg 8.6 - 8.7)	**TXA** (pg 14.4)	**FXA** (pg 4.4 - 4 .5)

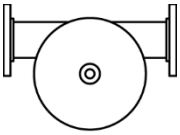
AIR & DIRT ELIMINATION EQUIPMENT 1

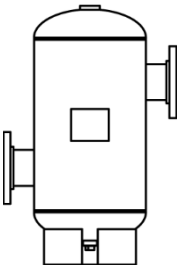
Air elimination equipment is used to separate entrained air in water through forced flow patterns. Air is collected and eliminated through an air vent connection located at the separator top. Typically used in **HVAC hydronic heating** and **chilled water** systems.

SPA TANGENTIAL AIR SEPARATORS - ASME

FOR STAINLESS STEEL VERSIONS GO TO PAGE 10.1

LESS STRAINER

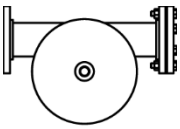


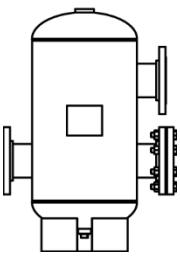


ASME

Model	Part No.	Size	Type	Height	Width	Max GPM	Ship Wt. (lbs.)
SPA 2	72006019	2	NPT	22 1/2	16 5/8	56	50
SPA 2.5	72006025	2 1/2	NPT	22 1/2	16 5/8	90	55
SPA 3	72006030	3	FLNG	22 1/2	19 3/4	190	60
SPA 4	72006035	4	FLNG	32	21 3/4	300	90
SPA 5	72016036	5	FLNG	32	21 3/4	530	148
SPA 6	72016060	6	FLNG	44	28	850	191
SPA 8	72016080	8	FLNG	44	28	1900	379
SPA 10	72030010	10	FLNG	60 1/2	41	3600	598
SPA 12	72030012	12	FLNG	60 1/2	41	4800	947
SPA 14	72072014	14	FLNG	78	46 3/8	6100	1680
SPA 16	72072016	16	FLNG	108	60	8000	2300
SPA 18	72072018	18	FLNG	124	66	9700	3235
SPA 20	72072020	20	FLNG	138	72	12000	5100
SPA 22	72072022	22	FLNG	150	78	15000	6150
SPA 24	72072024	24	FLNG	160	84	17000	7210

WITH STRAINER





ASME

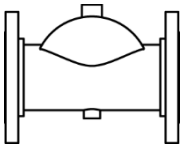
Model	Part No.	Size	Type	Height	Width	Max GPM	Ship Wt. (lbs.)
SPA 2S	72072101	2	NPT	22 1/2	16 5/8	56	55
SPA 2.5S	72072102	2 1/2	NPT	22 1/2	16 5/8	90	61
SPA 3S	72072103	3	FLNG	22 1/2	19 3/4	190	66
SPA 4S	72072104	4	FLNG	32	21 3/4	300	99
SPA 5S	72072105	5	FLNG	32	21 3/4	530	163
SPA 6S	72072106	6	FLNG	44	28	850	210
SPA 8S	72072108	8	FLNG	44	28	1900	417
SPA 10S	72072110	10	FLNG	60 1/2	41	3600	658
SPA 12S	72072112	12	FLNG	60 1/2	41	4800	1042
SPA 14S	72072114	14	FLNG	78	46 3/8	6100	1848
SPA 16S	72072116	16	FLNG	108	60	8000	2530
SPA 18S	72072118	18	FLNG	124	66	9700	3559
SPA 20S	72072120	20	FLNG	138	72	12000	5610
SPA 22S	72072122	22	FLNG	150	78	15000	6765
SPA 24S	72072124	24	FLNG	160	84	17000	7931

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450ºF
Finish = Primer Painted Exterior

AP INLINE AIR PURGERS – Non-ASME

FOR STAINLESS STEEL VERSIONS GO TO PAGE 10.1

AIR PURGERS – FABRICATED STEEL

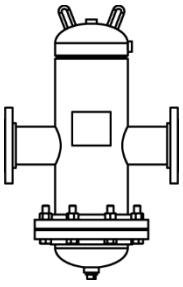


NON-ASME

Model	Part No.	Line Size	Height	Length	Tappings Top	Tappings Btm.	Ship Wt (lbs.)
AP-104	75010449	4	5	12	3/4	1/2	50
AP-105	37620050	5	7 1/2	20	1 1/4	1 1/2	60
AP-106	37620060	6	8 1/2	24	1 1/4	1 1/2	65
AP-108	37620080	8	11 1/4	32	1 1/4	1 1/2	110
AP-110	37620100	10	14	40	1 1/4	1 1/2	165
AP-112	37620120	12	16 3/4	48	1 1/4	1 1/2	315
AP-114	37620140	14	22	56	1 1/4	1 1/2	475
AP-116	37620160	16	24	48	1 1/4	1 1/2	515
AP-118	37620180	18	28	72	1 1/4	1 1/2	545

Materials = Cast Iron for AP-104, all Others Fabricated Steel;
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior; Conforms to ASME requirements.

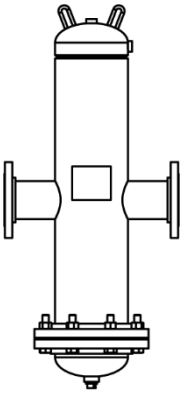
WVA WESS-VENT AIR & DIRT SEPARATORS – ASME



ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVA-2	72302001	2	23	15 1/4	69	100
WVA-2.5	72302035	2 1/2	23	15 3/4	108	125
WVA-3	72302069	3	29	20 1/4	144	150
WVA-4	72302103	4	29	20 5/8	255	250
WVA-5	72302137	5	39	27 3/4	398	310
WVA-6	72302160	6	39	27 3/4	570	375
WVA-8	72302183	8	49	33 5/8	945	700
WVA-10	72302206	10	65	37 1/2	1440	1000
WVA-12	72302229	12	76	42 1/2	2100	1500

HIGH VELOCITY MODELS



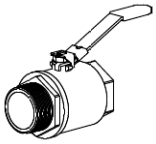
ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVA-2HV	72303001	2	33	15 1/4	105	110
WVA-2.5HV	72303035	2 1/2	33	15 3/4	155	140
WVA-3HV	72303070	3	42	20 1/4	225	175
WVA-4HV	72303104	4	42	20 5/8	405	275
WVA-5HV	72303138	5	59	27 3/4	630	475
WVA-6HV	72303161	6	59	27 3/4	910	525
WVA-8HV	72303184	8	75	33 5/8	1610	825
WVA-10HV	72303207	10	92	37 1/2	2450	1275
WVA-12HV	72303230	12	110	42 1/2	3500	2050

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Sizes available up to 36" – Consult Factory for Pricing

WVA WESS-VENT TRIM PACKAGES

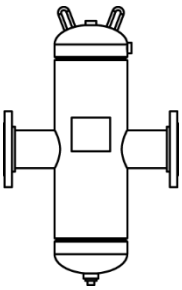


Model WVA-2 Thru WVA-36

Model	Part No.	Vent Size	Blow Down Valve Size	Skim Valve Size	Ship Wt. (lbs.)
WVA 2-14	74099993	3/4"	1"	1/2"	9
WVA 16-36	74099995	3/4"	2"	1"	10

Includes: Air Vent, Skim Valve, and Blow Down Valve.

WVN-N WESS-VENT NON-REMOVABLE– Non-ASME



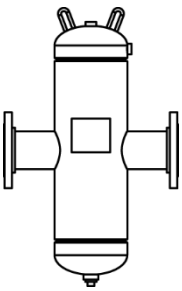
NON-ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVN-2N	74080020	2	23	15 1/4	69	76
WVN-2.5N	74080025	2 1/2	23	15 3/4	108	99
WVN-3N	74080030	3	29	20 1/4	144	114
WVN-4N	74080040	4	29	20 5/8	255	194
WVN-5N	74080050	5	39	27 3/4	398	230
WVN-6N	74080060	6	39	27 3/4	570	255
WVN-8N	74080080	8	49	33 5/8	945	514
WVN-10N	74080100	10	65	37 1/2	1440	770
WVN-12N	74080120	12	76	42 1/2	2100	1080

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36" – Consult Factory for Pricing

WVAN WESS-VENT NON-REMOVABLE – ASME



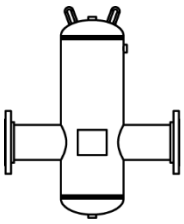
ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAN-2	72308001	2	23	15 1/4	69	76
WVAN-2.5	72308034	2 1/2	23	15 3/4	108	99
WVAN-3	72308067	3	29	20 1/4	144	114
WVAN-4	72308100	4	29	20 5/8	255	194
WVAN-5	72308133	5	39	27 3/4	398	230
WVAN-6	72308155	6	39	27 3/4	570	255
WVAN-8	72308177	8	49	33 5/8	945	514
WVAN-10	72308199	10	65	37 1/2	1440	770
WVAN-12	72308221	12	76	42 1/2	2100	1080

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36" – Consult Factory for Pricing

WVNA WESS-VENT AIR ELIMINATOR – Non-ASME

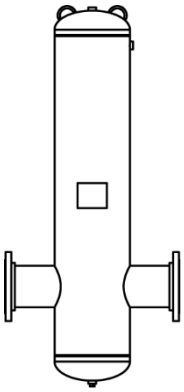


NON-ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVNA-2	72314002	2	18.5	15 1/4	69	35
WVNA-2.5	72314026	2 1/2	18.5	15 3/4	108	61
WVNA-3	72314050	3	23	20 1/4	144	71
WVNA-4	72314074	4	23	20 5/8	255	105
WVNA-5	72314098	5	31	27 3/4	398	92
WVNA-6	72314110	6	31	27 3/4	570	129
WVNA-8	72314122	8	36	33 5/8	945	225
WVNA-10	72314134	10	46	37 1/2	1440	375
WVNA-12	72314146	12	54	42 1/2	2100	564

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



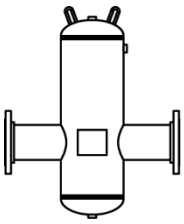
NON-ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVNA-2HV	72315002	2	23	15 1/4	105	40
WVNA-2.5HV	72315026	2 1/2	23	15 3/4	155	68
WVNA-3HV	72315050	3	30	20 1/4	225	82
WVNA-4HV	72315074	4	30	20 5/8	405	122
WVNA-5HV	72315098	5	41	27 3/4	630	128
WVNA-6HV	72315110	6	41	27 3/4	910	140
WVNA-8HV	72315122	8	49	33 5/8	1610	245
WVNA-10HV	72315134	10	60	37 1/2	2450	407
WVNA-12HV	72315146	12	71	42 1/2	3500	612

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing

WVAA WESS-VENT AIR ELIMINATOR – ASME

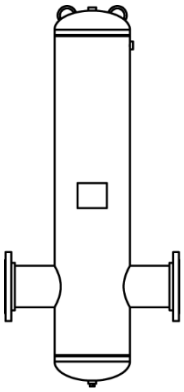


ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAA-2	72304002	2	18 1/2	15 1/4	69	35
WVAA-2.5	72304038	2 1/2	18 1/2	15 3/4	108	61
WVAA-3	72304074	3	23	20 1/4	144	71
WVAA-4	72304110	4	23	20 5/8	255	105
WVAA-5	72304146	5	31	27 3/4	398	92
WVAA-6	72304170	6	31	27 3/4	570	129
WVAA-8	72304194	8	36	33 5/8	945	225
WVAA-10	72304218	10	46	37 1/2	1440	375
WVAA-12	72304242	12	54	42 1/2	2100	564

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



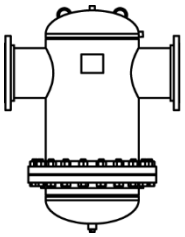
ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAA-2HV	72305002	2	23	15 1/4	105	40
WVAA-2.5HV	72305038	2 1/2	23	15 3/4	155	68
WVAA-3HV	72305074	3	30	20 1/4	225	82
WVAA-4HV	72305110	4	30	20 5/8	405	122
WVAA-5HV	72305146	5	41	27 3/4	630	128
WVAA-6HV	72305170	6	41	27 3/4	910	140
WVAA-8HV	72305194	8	49	33 5/8	1610	245
WVAA-10HV	72305218	10	60	37 1/2	2450	407
WVAA-12HV	72305242	12	71	42 1/2	3500	612

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing

WVAD WESS-VENT DIRT ELIMINATOR – ASME

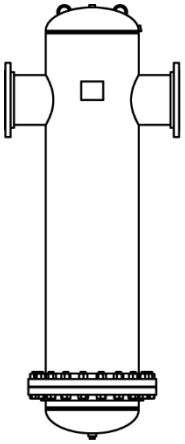


ASME

Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAD-2	72306002	2	18.5	15 1/4	69	64
WVAD-2.5	72306038	2 1/2	18.5	15 3/4	108	82
WVAD-3	72306074	3	23	20 1/4	144	113
WVAD-4	72306110	4	23	20 5/8	255	168
WVAD-5	72306146	5	31	27 3/4	398	245
WVAD-6	72306170	6	31	27 3/4	570	347
WVAD-8	72306194	8	36	33 5/8	945	451
WVAD-10	72306218	10	46	37 1/2	1440	711
WVAD-12	72306242	12	54	42 1/2	2100	1121

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS



ASME

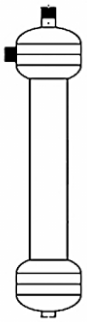
Model	Part No.	Flange Size	Height	Width	GPM	Ship Wt. (lbs.)
WVAD-2HV	72307002	2	23	15 1/4	105	69
WVAD-2.5HV	72307038	2 1/2	23	15 3/4	155	89
WVAD-3HV	72307074	3	30	20 1/4	225	125
WVAD-4HV	72307110	4	30	20 5/8	405	185
WVAD-5HV	72307146	5	41	27 3/4	630	280
WVAD-6HV	72307170	6	41	27 3/4	910	390
WVAD-8HV	72307194	8	49	33 5/8	1610	472
WVAD-10HV	72307218	10	60	37 1/2	2450	744
WVAD-12HV	72307242	12	71	42 1/2	3500	1169

Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG
Maximum Temperature = 250ºF; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36" – Consult Factory for Pricing

CFS CENTRIFUGAL SOLIDS SEPARATOR

FOR STAINLESS STEEL VERSIONS GO TO PAGE 10.3



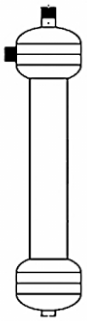
NON-ASME

CARBON STEEL – LOW FLOW DESIGN – 150 PSI

Model	Part No.	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
CFS-50	69000050	19	6	1/2	5 - 10	11
CFS-75	69000075	19	6	3/4	10 - 20	14
CFS-100	69000100	29	6	1	17 - 32	21
CFS-125	69000125	29	6	1 1/4	28 - 50	21
CFS-150	69000150	29	6	1 1/2	45 - 70	22
CFS-200	69000200	32	8 5/8	2	70 - 110	41
CFS-250	69000250	35 1/2	8 5/8	2 1/2	100 - 160	45
CFS-300	69000300	39	10 3/4	3	150 - 250	78

Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF
Also available in 200 & 250 psi rated models

CFA CENTRIFUGAL SOLIDS SEPERATOR – ASME



ASME

CARBON STEEL – LOW FLOW DESIGN – 150 PSI

Model	Part No.	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
CFA-50	69001050	19	6	1/2	5 - 10	11
CFA-75	69001075	19	6	3/4	10 - 20	14
CFA-100	69001100	29	6	1	17 - 32	21
CFA-125	69001125	29	6	1 1/4	28 - 50	21
CFA-150	69001150	29	6	1 1/2	45 - 70	22
CFA-200	69001200	32	8 5/8	2	70 - 110	41
CFA-250	69001250	35 1/2	8 5/8	2 1/2	100 - 160	45
CFA-300	69001300	39	10 3/4	3	150 - 250	78

Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF
Also available in 200 & 250 psi rated models

SIZING CHILLED-WATER BUFFER TANKS

To properly size a chilled-water buffer tank, three critical pieces of information are required:

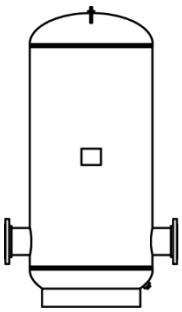
- Total Chiller Capacity (Tons)
- Chiller Manufacturer's Recommended System Volume per Ton of Capacity (in gal. per ton)
- Actual System Volume (in gallons)

Use the following form to calculate tank size:

Total Chiller Capacity		Manufacturer's Recommended System Volume Per Ton		Critical System Volume
	TIMES		EQUALS	
Tons		Gal./Ton		Gallons

Critical System Volume		Actual System Volume		Total Buffer Tank Size
	MINUS		EQUALS	
Gallons		Gallons		Gallons

CBT CHILLED WATER BUFFER TANKS – ASME



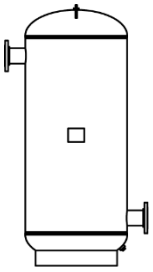
ASME

CHILLED WATER BUFFER TANKS

Model	Part No.	Gal.	Dia.	Ht.	Max. Ship Wt.
CBT-120	55240120	120	24	60	410
CBT-200	55300200	200	30	72	555
CBT-300	55360300	300	36	72	690
CBT-500	55420500	500	42	90	1150
CBT-850	55540850	850	54	96	1945
CBT-1040	55601040	1040	60	96	2138

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450ºF; Finish = Red Oxide Primer; ¾" NPT Top Vent Connection; 1" NPT Bottom Drain Connection; Also Available With 1" to 2-1/2" NPT System Connections, Up To 20" Flange System Connections, and Higher Working Pressures – Consult Factory.

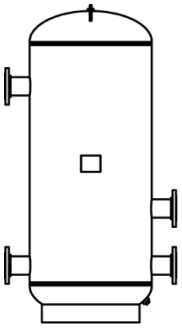
HBT HOT WATER BUFFER TANKS – ASME



ASME

HOT WATER BUFFER TANKS – 2 Ports

Model	Part No.	Gal.	Dia.	Ht.	Max. Ship Wt.
HBT-120	55621200	120	24	60	248
HBT-210	55622100	210	30	75	458
HBT-300	55623000	300	36	72	781



ASME

HOT WATER BUFFER TANKS – 4 Ports

Model	Part No.	Gal.	Dia.	Ht.	Connection Sizes		Ship Wt.
					Primary	Secondary	
HBT-120-22	55641222	120	24	60			206
HBT-210-22	55642122	210	30	75	2" NPT	2" NPT	408
HBT-300-22	55643022	300	36	72			739
HBT-120-23	55641223	120	24	60			228
HBT-210-23	55642123	210	30	75	2" NPT	3" FLG	426
HBT-300-23	55643023	300	36	72			759
HBT-120-24	55641224	120	24	60			235
HBT-210-24	55642124	210	30	75	2" NPT	4" FLG	435
HBT-300-24	55643024	300	36	72			768
HBT-120-26	55641226	120	24	60			254
HBT-210-26	55642126	210	30	75	2" NPT	6" FLG	454
HBT-300-26	55643026	300	36	72			787
HBT-120-34	55641234	120	24	60			255
HBT-210-34	55642134	210	30	75	3" FLG	4" FLG	455
HBT-300-34	55643034	300	36	72			788
HBT-120-36	55641236	120	24	60			274
HBT-210-36	55642136	210	30	75	3" FLG	6" FLG	574
HBT-300-36	55643036	300	36	72			807
HBT-120-33	55641233	120	24	60			246
HBT-210-33	55642133	210	30	75	3" FLG	3" FLG	546
HBT-300-33	55643033	300	36	72			779
HBT-120-44	55641244	120	24	60			264
HBT-210-44	55642144	210	30	75	4" FLG	4" FLG	564
HBT-300-44	55643044	300	36	72			797
HBT-120-46	55641246	120	24	60			283
HBT-210-46	55642146	210	30	75	4" FLG	6" FLG	583
HBT-300-46	55643046	300	36	72			816

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer; ¾" NPT Top Vent Connection; 1" NPT Bottom Drain Connection; Also Available With 1" to 2-1/2" NPT System Connections, Up To 20" Flange System Connections, and Higher Working Pressures – Consult Factory.

FILTRATION 3

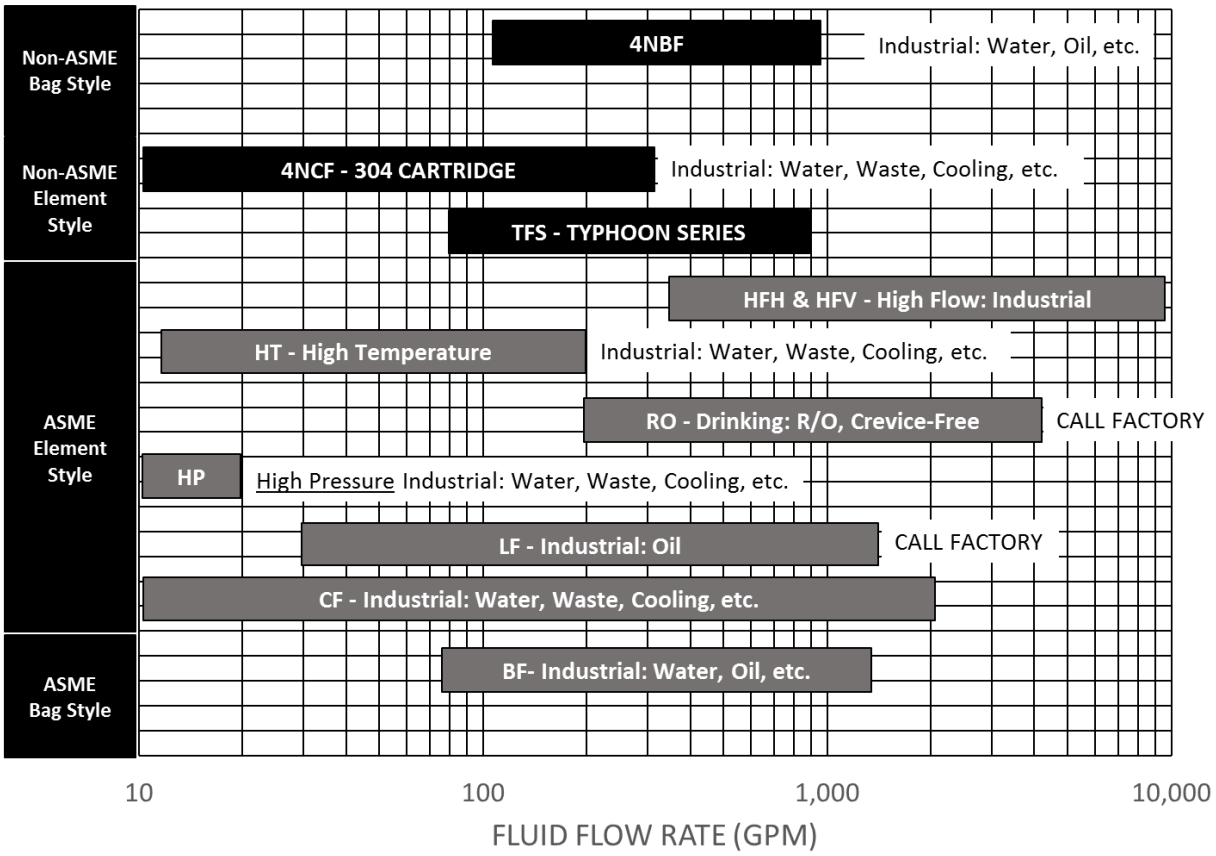
Filtration vessels and filter media enable the physical or mechanical process of separating insoluble particulate matter from a fluid, such as air or liquid, by passing the fluid through a filter medium that will not let the particulates through.

Typical Markets & Applications:

Amine	Process Water
Boiler Feed Systems	Agri-Water
Microelectronics	Brine
Mining & Minerals	Car Wash
Oil & Gas	Cooling Towers
Potable Water	Packaging Rinse Water
Pulp & Paper	Power Generation
Quench Water	Wastewater Treatment
RO Pre-filtration	Water Reclamation

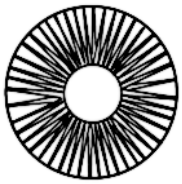
SIZING FILTRATION VESSELS

Wessels offers a vast array of filtration vessels designed for use in various markets such as HVAC, Industrial, Oil & Gas, Petrochemical, Water (potable, RO, process), etc. Please use the following sizing chart to assist in selecting the proper vessel series based on your system flow rate.



AB SERIES CARTRIDGE FILTER

2.5 INCH OD, 40 INCH LONG, 222 O-RING STYLE



Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
AB-1/2-P42	9A001P42	0.5	Polypropylene	16.4	2.3
AB-1/2-G42	9A001G42	0.5	Glass	16.4	2.3
AB-02-P42	9A002P42	2	Polypropylene	20.5	2.9
AB-02-G42	9A002G42	2	Glass	16.4	2.3
AB-05-P42	9A005P42	5	Polypropylene	20.5	2.9
AB-05-R42	9A005R42	5	Polyester	16.4	2.3
AB-05-G42	9A005G42	5	Glass	16.4	2.3
AB-05-C42	9A005C42	5	Cellulose	16.4	2.3
AB-10-P42	9A010P42	10	Polypropylene	20.5	2.9
AB-10-R42	9A010R42	10	Polyester	16.4	2.3
AB-10-G42	9A010G42	10	Glass	16.4	2.3
AB-10-C42	9A010C42	10	Cellulose	16.4	2.3
AB-20-P42	9A020P42	20	Polypropylene	20.5	2.9
AB-20-R42	9A020R42	20	Polyester	16.4	2.3
AB-20-G42	9A020G42	20	Glass	16.4	2.3
AB-20-C42	9A020C42	20	Cellulose	16.4	2.3
AB-40-P42	9A040P42	40	Polypropylene	16.4	2.3
AB-40-R42	9A040R42	40	Polyester	16.4	2.3
AB-40-G42	9A040G42	40	Glass	16.4	2.3
AB-40-C42	9A040C42	40	Cellulose	16.4	2.3
AB-70-P42	9A070P42	70	Polypropylene	20.5	2.9
AB-70-R42	9A070R42	70	Polyester	16.4	2.3
AB-70-G42	9A070G42	70	Glass	16.4	2.3
AB-70-C42	9A070C42	70	Cellulose	16.4	2.3

FILTER MODIFIER GUIDE :

CARTRIDGE SERIES
AB = CONVENTIONAL

DIAMETER CODE
BLANK = 2.5" OD
P = 3.0" OD
X = 3.75" OD (222 O-RING)
Y = 3.75" OD (139 O-RING)
Z = 3.75" OD (134 O-RING)

LENGTH
1 = 10"
2 = 29.75"
3 = 36"
4 = 40"
9 = 20"
X = CUSTOM

END CAP
1 = DOE
2 = O-RING
3 = SPRING
7 = FIN

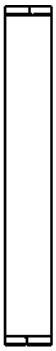
MICRON RATING @ BETA 5000
1/2 = 0.5 MICRON
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

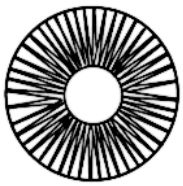
A	B		1	0	P	2	2

MEDIA
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

AB SERIES CARTRIDGE FILTER (CONT'D)

2.5 INCH OD, 40 INCH LONG, DOE STYLE





Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
AB-1/2-P41	9A001P41	0.5	Polypropylene	16.4	2.3
AB-1/2-G41	9A001G41	0.5	Glass	16.4	2.3
AB-02-P41	9A002P41	2	Polypropylene	20.5	2.9
AB-02-G41	9A002G41	2	Glass	16.4	2.3
AB-05-P41	9A005P41	5	Polypropylene	20.5	2.9
AB-05-R41	9A005R41	5	Polyester	16.4	2.3
AB-05-G41	9A005G41	5	Glass	16.4	2.3
AB-05-C41	9A005C41	5	Cellulose	16.4	2.3
AB-10-P41	9A010P41	10	Polypropylene	20.5	2.9
AB-10-R41	9A010R41	10	Polyester	16.4	2.3
AB-10-G41	9A010G41	10	Glass	16.4	2.3
AB-10-C41	9A010C41	10	Cellulose	16.4	2.3
AB-20-P41	9A020P41	20	Polypropylene	20.5	2.9
AB-20-R41	9A020R41	20	Polyester	16.4	2.3
AB-20-G41	9A020G41	20	Glass	16.4	2.3
AB-20-C41	9A020C41	20	Cellulose	16.4	2.3
AB-40-P41	9A040P41	40	Polypropylene	16.4	2.3
AB-40-R41	9A040R41	40	Polyester	16.4	2.3
AB-40-G41	9A040G41	40	Glass	16.4	2.3
AB-40-C41	9A040C41	40	Cellulose	16.4	2.3
AB-70-P41	9A070P41	70	Polypropylene	20.5	2.9
AB-70-R41	9A070R41	70	Polyester	16.4	2.3
AB-70-G41	9A070G41	70	Glass	16.4	2.3
AB-70-C41	9A070C41	70	Cellulose	16.4	2.3

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1/2 = 0.5 MICRON
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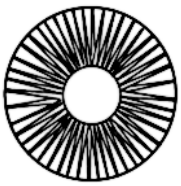
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

A	B		1	0	P	2	1

MEDIA
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

AB SERIES CARTRIDGE FILTER (CONT'D)

3 INCH OD, 36 INCH LONG, SPRING STYLE



Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
ABP-1/2-P33	9AP01P33	0.5	Polypropylene	15.0	2.3
ABP-1/2-G33	9AP01G33	0.5	Glass	15.0	2.3
ABP-02-P33	9AP02P33	2	Polypropylene	18.8	2.9
ABP-02-G33	9AP02G33	2	Glass	18.8	2.3
ABP-05-P33	9AP05P33	5	Polypropylene	18.8	2.9
ABP-05-R33	9AP05R33	5	Polyester	18.8	2.3
ABP-05-G33	9AP05G33	5	Glass	18.8	2.3
ABP-05-C33	9AP05C33	5	Cellulose	15.0	2.3
ABP-10-P33	9AP10P33	10	Polypropylene	18.8	2.9
ABP-10-R33	9AP10R33	10	Polyester	18.8	2.3
ABP-10-G33	9AP10G33	10	Glass	18.8	2.3
ABP-10-C33	9AP10C33	10	Cellulose	15.0	2.3
ABP-20-P33	9AP20P33	20	Polypropylene	18.8	2.9
ABP-20-R33	9AP20R33	20	Polyester	18.8	2.3
ABP-20-G33	9AP20G33	20	Glass	18.8	2.3
ABP-20-C33	9AP20C33	20	Cellulose	15.0	2.3
ABP-40-P33	9AP40P33	40	Polypropylene	15.0	2.3
ABP-40-R33	9AP40R33	40	Polyester	15.0	2.3
ABP-40-G33	9AP40G33	40	Glass	18.8	2.3
ABP-40-C33	9AP40C33	40	Cellulose	15.0	2.3
ABP-70-P33	9AP70P33	70	Polypropylene	18.8	2.9
ABP-70-R33	9AP70R33	70	Polyester	18.8	2.3
ABP-70-G33	9AP70G33	70	Glass	18.8	2.3
ABP-70-C33	9AP70C33	70	Cellulose	15.0	2.3

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05 = 5 MICRON
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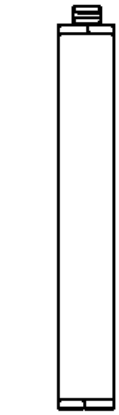
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

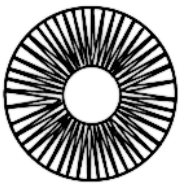
A	B	P	1	0	P	3	3

MEDIA
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

AB SERIES CARTRIDGE FILTER (CONT'D)

3.75 INCH OD, 40 INCH LONG, 222 O-RING STYLE





Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
ABY-1/2-P42	9AY01P42	0.5	Polypropylene	34.0	3.8
ABY-1/2-G42	9AY01G42	0.5	Glass	34.0	3.8
ABY-02-P42	9AY02P42	2	Polypropylene	42.5	4.7
ABY-02-G42	9AY02G42	2	Glass	42.5	4.7
ABY-05-P42	9AY05P42	5	Polypropylene	42.5	4.7
ABY-05-R42	9AP05R42	5	Polyester	42.5	4.7
ABY-05-G42	9AY05G42	5	Glass	42.5	4.7
ABY-05-C42	9AP05C42	5	Cellulose	34.0	3.8
ABY-10-P42	9AY10P42	10	Polypropylene	42.5	4.7
ABY-10-R42	9AP10R42	10	Polyester	42.5	4.7
ABY-10-G42	9AY10G42	10	Glass	42.5	4.7
ABY-10-C42	9AP10C42	10	Cellulose	34.0	3.8
ABY-20-P42	9AY20P42	20	Polypropylene	42.5	4.7
ABY-20-R42	9AP20R42	20	Polyester	42.5	4.7
ABY-20-G42	9AY20G42	20	Glass	42.5	4.7
ABY-20-C42	9AP20C42	20	Cellulose	34.0	3.8
ABY-40-P42	9AY40P42	40	Polypropylene	34.0	3.8
ABY-40-R42	9AP40R42	40	Polyester	34.0	3.8
ABY-40-G42	9AY40G42	40	Glass	42.5	4.7
ABY-40-C42	9AP40C42	40	Cellulose	34.0	3.8
ABY-70-P42	9AY70P42	70	Polypropylene	42.5	4.7
ABY-70-R42	9AP70R42	70	Polyester	42.5	4.7
ABY-70-G42	9AY70G42	70	Glass	42.5	4.7
ABY-70-C42	9AP70C42	70	Cellulose	34.0	3.8

FILTER MODIFIER GUIDE :

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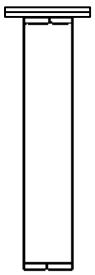
02 = 2 MICRON
05 = 5 MICRON
10 = 10 MICRON
20 = 20 MICRON
40 = 40 MICRON
70 = 70 MICRON

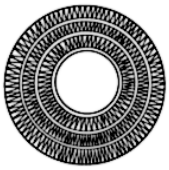
A	B	Y	1	0	P	4	2

MEDIA
C = CELLULOSE
G = GLASS
P = POLYPROPYLENE
R = POLYESTER

PLATINUM SERIES BAG FILTER

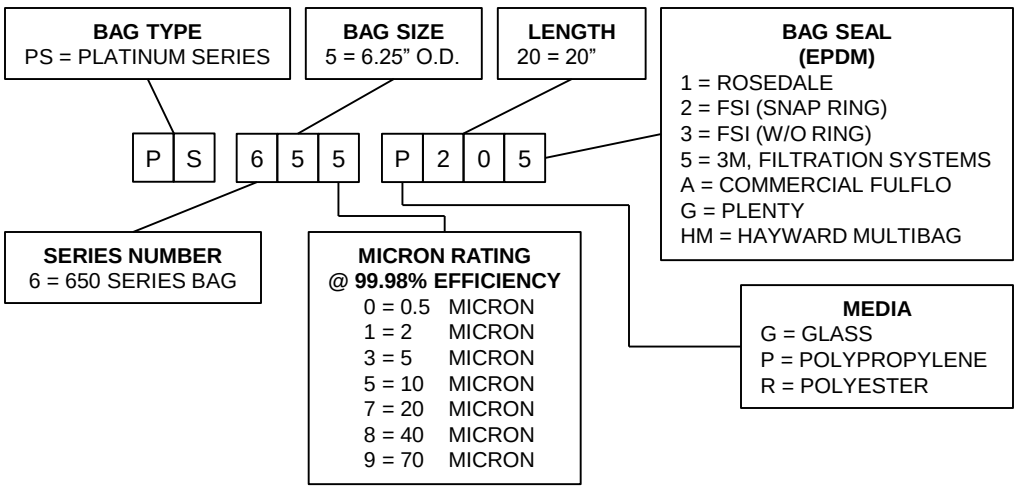
6.25 INCH OD, 20 INCH LONG, 650 SERIES





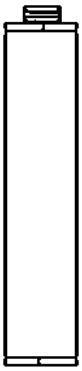
Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-650-P205	9P601P25	0.5	Polypropylene	49	6.7
PS-650-G205	9P601G25	0.5	Glass	35	4.8
PS-651-P205	9AY02P42	2	Polypropylene	59	8.1
PS-651-G205	9AY02G42	2	Glass	49	6.7
PS-653-P205	9AY05P42	5	Polypropylene	59	8.1
PS-653-R205	9AP05R42	5	Polyester	59	8.1
PS-653-G205	9AY05G42	5	Glass	49	6.7
PS-655-P205	9AY10P42	10	Polypropylene	59	8.1
PS-655-R205	9AP10R42	10	Polyester	59	8.1
PS-655-G205	9AY10G42	10	Glass	49	6.7
PS-657-P205	9AY20P42	20	Polypropylene	59	8.1
PS-657-R205	9AP20R42	20	Polyester	59	8.1
PS-657-G205	9AY20G42	20	Glass	49	6.7
PS-658-P205	9AY40P42	40	Polypropylene	49	6.7
PS-658-R205	9AP40R42	40	Polyester	49	6.7
PS-658-G205	9AY40G42	40	Glass	49	6.7
PS-659-P205	9AY70P42	70	Polypropylene	59	8.1
PS-659-R205	9AP70R42	70	Polyester	59	8.1
PS-659-G205	9AY70G42	70	Glass	49	6.7

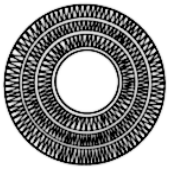
FILTER MODIFIER GUIDE :



740 PLATINUM SERIES CARTRIDGE FILTER

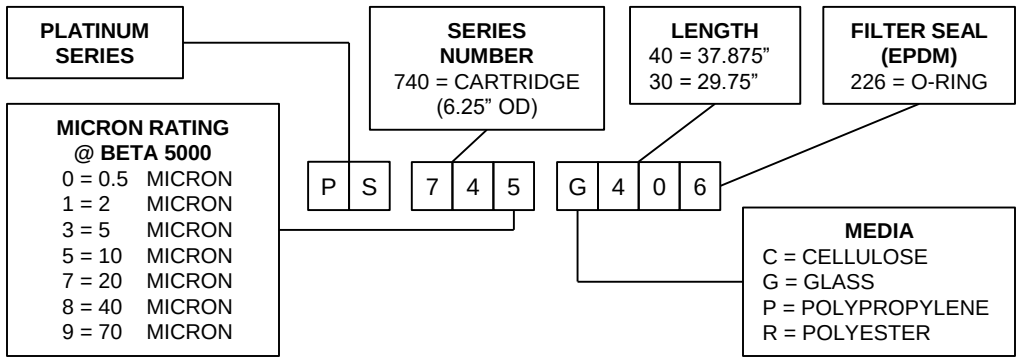
6.25 INCH OD, 38 INCH LONG, 226 O-RING STYLE





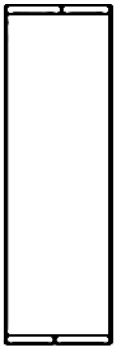
Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-740-P406	9P701P42	0.5	Polypropylene	90	10.6
PS-740-G406	9P701G42	0.5	Glass	77	9.1
PS-741-P406	9P702P42	2	Polypropylene	110	13.0
PS-741-G406	9P702G42	2	Glass	90	10.6
PS-743-P406	9P705P42	5	Polypropylene	110	13.0
PS-743-R406	9P705R42	5	Polyester	110	13.0
PS-743-G406	9P705G42	5	Glass	90	10.6
PS-743-C406	9P705C42	5	Cellulose	90	10.6
PS-745-P406	9P710P42	10	Polypropylene	110	13.0
PS-745-R406	9P710R42	10	Polyester	110	13.0
PS-745-G406	9P710G42	10	Glass	90	10.6
PS-745-C406	9P710C42	10	Cellulose	90	10.6
PS-747-P406	9P720P42	20	Polypropylene	110	13.0
PS-747-R406	9P720R42	20	Polyester	110	13.0
PS-747-G406	9P720G42	20	Glass	90	10.6
PS-747-C406	9P720C42	20	Cellulose	90	10.6
PS-748-P406	9P740P42	40	Polypropylene	90	10.6
PS-748-R406	9P740R42	40	Polyester	90	10.6
PS-748-G406	9P740G42	40	Glass	90	10.6
PS-748-C406	9P740C42	40	Cellulose	90	10.6
PS-749-P406	9P770P42	70	Polypropylene	110	13.0
PS-749-R406	9P770R42	70	Polyester	110	13.0
PS-749-G406	9P770G42	70	Glass	90	10.6
PS-749-C406	9P770C42	70	Cellulose	90	10.6

FILTER MODIFIER GUIDE :



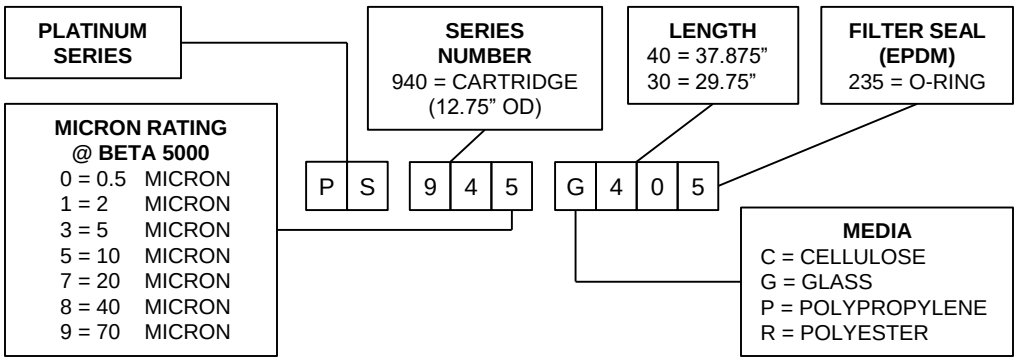
940 PLATINUM SERIES CARTRIDGE FILTER

12.75 INCH OD, 38 INCH LONG, 235 O-RING STYLE



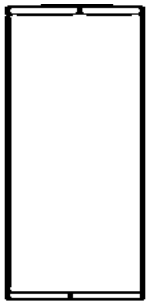
Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-940-P405	9PN01P42	0.5	Polypropylene	325	45.2
PS-940-G405	9PN01G42	0.5	Glass	272	37.9
PS-941-P405	9PN02P42	2	Polypropylene	390	54.3
PS-941-G405	9PN02G42	2	Glass	325	45.2
PS-943-P405	9PN05P42	5	Polypropylene	390	54.3
PS-943-R405	9PN05R42	5	Polyester	390	54.3
PS-943-G405	9PN05G42	5	Glass	325	45.2
PS-943-C405	9PN05C42	5	Cellulose	325	45.2
PS-945-P405	9PN10P42	10	Polypropylene	390	54.3
PS-945-R405	9PN10R42	10	Polyester	390	54.3
PS-945-G405	9PN10G42	10	Glass	325	45.2
PS-945-C405	9PN10C42	10	Cellulose	325	45.2
PS-947-P405	9PN20P42	20	Polypropylene	390	54.3
PS-947-R405	9PN20R42	20	Polyester	390	54.3
PS-947-G405	9PN20G42	20	Glass	325	45.2
PS-947-C405	9PN20C42	20	Cellulose	325	45.2
PS-948-P405	9PN40P42	40	Polypropylene	325	45.2
PS-948-R405	9PN40R42	40	Polyester	325	45.2
PS-948-G405	9PN40G42	40	Glass	325	45.2
PS-948-C405	9PN40C42	40	Cellulose	325	45.2
PS-949-P405	9PN70P42	70	Polypropylene	390	54.3
PS-949-R405	9PN70R42	70	Polyester	390	54.3
PS-949-G405	9PN70G42	70	Glass	325	45.2
PS-949-C405	9PN70C42	70	Cellulose	325	45.2

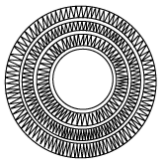
FILTER MODIFIER GUIDE :



2040 PLATINUM SERIES CARTRIDGE FILTER

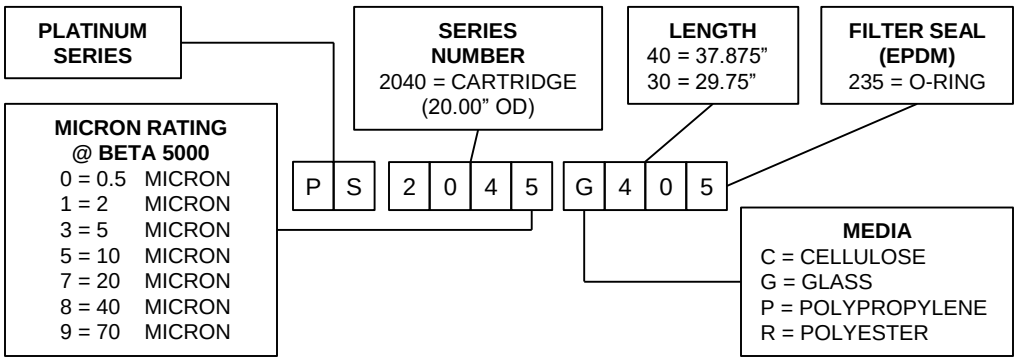
20 INCH OD, 38 INCH LONG, 235 O-RING STYLE





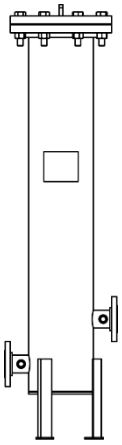
Model	Part No.	Micron	Media	Area (Sq. Ft.)	Wt. (lbs)
PS-2040-P405	9PT01P42	0.5	Polypropylene	920	93.2
PS-2040-G405	9PT01G42	0.5	Glass	920	93.2
PS-2041-P405	9PT02P42	2	Polypropylene	1150	116.5
PS-2041-G405	9PT02G42	2	Glass	920	93.2
PS-2043-P405	9PT05P42	5	Polypropylene	1150	116.5
PS-2043-R405	9PT05R42	5	Polyester	1150	116.5
PS-2043-G405	9PT05G42	5	Glass	920	93.2
PS-2043-C405	9PT05C42	5	Cellulose	720	72.9
PS-2045-P405	9PT10P42	10	Polypropylene	1150	116.5
PS-2045-R405	9PT10R42	10	Polyester	1150	116.5
PS-2045-G405	9PT10G42	10	Glass	920	93.2
PS-2045-C405	9PT10C42	10	Cellulose	720	72.9
PS-2047-P405	9PT20P42	20	Polypropylene	1150	116.5
PS-2047-R405	9PT20R42	20	Polyester	1150	116.5
PS-2047-G405	9PT20G42	20	Glass	920	93.2
PS-2047-C405	9PT20C42	20	Cellulose	720	72.9
PS-2048-P405	9PT40P42	40	Polypropylene	920	93.2
PS-2048-R405	9PT40R42	40	Polyester	920	93.2
PS-2048-G405	9PT40G42	40	Glass	920	93.2
PS-2048-C405	9PT40C42	40	Cellulose	720	72.9
PS-2049-P405	9PT70P42	70	Polypropylene	1150	116.5
PS-2049-R405	9PT70R42	70	Polyester	1150	116.5
PS-2049-G405	9PT70G42	70	Glass	1150	116.5
PS-2049-C405	9PT70C42	70	Cellulose	720	72.9

FILTER MODIFIER GUIDE :



TFS TYPHOON FILTRATION SYSTEM – Non-ASME

304 STAINLESS STEEL HOUSING WITH FILTER – 150 PSI



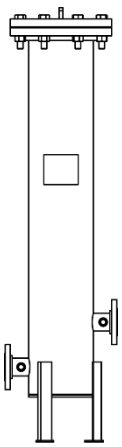
NON-ASME

Model	Part No.	Ht.	Width	Line Size	# of Filters	Rec. Flow (GPM)	Shp Wt.
TFS-8-4S_1	67510801	56 1/2	8 5/8	2	4	80	120
TFS-8-1S_2	67510802	56 1/2	8 5/8		1	80	120
TFS-8-1P_1	67510803	56 1/2	8 5/8		1	80	120
TFS-14-16S_1	67511401	60 1/4	14	4	16	320	175
TFS-14-3S_2	67511402	60 1/4	14		3	240	175
TFS-14-3P_1	67511403	60 1/4	14		3	240	175
TFS-14-1P_2	67511404	60 1/4	14		1	300	175
TFS-22-42S_1	67512201	65 1/2	22	8	42	840	255
TFS-22-8S_2	67512202	65 1/2	22		8	640	255
TFS-22-8P_1	67512203	65 1/2	22		8	640	255
TFS-22-1P_3	67512204	65 1/2	22		1	900	255

Carbon and 316L Stainless Available; Includes 38" long10µ Polypro filter(s); Filter Types: **Standard Pleated: S_1=**2 1/2" Dia; **S_2=**6 1/4" Dia; **Platinum: P_1=**6 1/4" Dia**; P_2=**12 3/4" Dia; **P_3=**20" Dia; Specify if other material or micron size is required (see pages 2.1-2.8); Maximum Temperature = Filter Dependent; Maximum Pressure = 150 PSIG

TFA TYPHOON FILTRATION SYSTEM – ASME

304 STAINLESS STEEL HOUSING WITH FILTER – 125 PSI



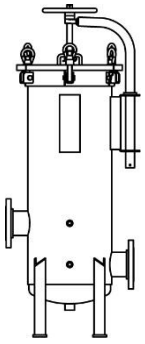
ASME

Model	Part No.	Ht.	Width	Line Size	# of Filters	Rec. Flow (GPM)	Shp Wt.
TFA-8-4S_1	68510801	56 1/2	8 5/8	2	4	80	120
TFA-8-1S_2	68510802	56 1/2	8 5/8		1	80	120
TFA-8-1P_1	68510803	56 1/2	8 5/8		1	80	120
TFA-14-16S_1	68511401	60 1/4	14	4	16	320	175
TFA-14-3S_2	68511402	60 1/4	14		3	240	175
TFA-14-3P_1	68511403	60 1/4	14		3	240	175
TFA-14-1P_2	68511404	60 1/4	14		1	300	175
TFA-22-42S_1	68512201	65 1/2	22	8	42	840	255
TFA-22-8S_2	68512202	65 1/2	22		8	640	255
TFA-22-8P_1	68512203	65 1/2	22		8	640	255
TFA-22-1P_3	68512204	65 1/2	22		1	900	255

Carbon and 316L Stainless Available; Includes 38" long10µ Polypro filter(s); Filter Types: **Standard Pleated: S_1=**2 1/2" Dia; **S_2=**6 1/4" Dia; **Platinum: P_1=**6 1/4" Dia**; P_2=**12 3/4" Dia; **P_3=**20" Dia; Specify if other material or micron size is required (see pages 2.1-2.8); Maximum Temperature = Filter Dependent; Maximum Pressure = 125 PSIG

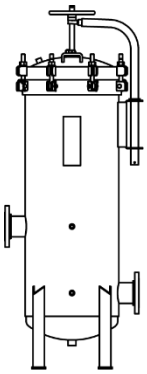
CF CARTRIDGE FILTER VESSELS – ASME

CARBON STEEL HOUSING – 150 PSI



ASME

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
CF3-1-2	CF3-1-2	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
CF6-1-2	CF6-1-2	2-FLG	(6)-10"	27	14 7/8	30	180
CF6-2-2	CF6-2-2	2-FLG	(6)-20"	37	14 7/8	60	185
CF6-3-2	CF6-3-2	2-FLG	(6)-30"	47	14 7/8	90	200
CF6-4-3	CF6-4-3	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
CF12-3-3	CF12-3-3	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
CF12-3-4	CF12-3-4	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
CF12-4-4	CF12-4-4	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
CF19-3-4	CF19-3-4	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
CF19-4-4	CF19-4-4	4-FLG	(19)-40"	71 1/4	23 1/2	380	440

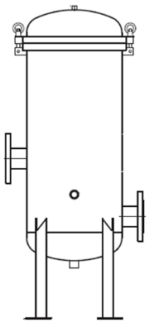


ASME

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
CF25-3-4	CF25-3-4	4-FLG	(25) - 30"	67	26	375	515
CF25-4-6	CF25-4-6	6-FLG	(25) - 40"	80 3/4	26	500	540
CF35-3-6	CF35-3-6	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
CF35-4-6	CF35-4-6	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
CF40-3-6	CF40-3-6	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
CF40-4-6	CF40-4-6	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
CF52-3-6	CF52-3-6	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
CF52-4-8	CF52-4-8	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
CF85-3-8	CF85-3-8	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
CF85-4-8	CF85-4-8	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
CF102-3-8	CF102-3-8	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
CF102-4-8	CF102-4-8	8-FLG	(102) - 40"	91	42 1/4	2040	1600

Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500° F; Finish = Primer Painted Exterior; Elements NOT included; Lift arm provided on CF12 and larger

4NCF CARTRIDGE FILTER VESSELS – Non-ASME



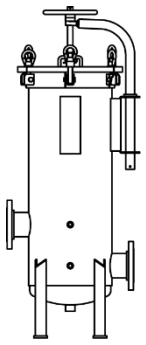
NON-ASME

304 STAINLESS STEEL HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4NCF11-1N	4NCF11-1N	1-NPT	(1)-10"	16	4 1/2	5	9
4NCF12-1N	4NCF12-1N	1-NPT	(1)-20"	26	4 1/2	10	11
4NCF51-2N	4NCF51-2N	2-NPT	(5)-10"	29 3/8	12	25	41
4NCF52-2N	4NCF52-2N	2-NPT	(5)-20"	39 1/8	12	50	48
4NCF53-2N	4NCF53-2N	2-NPT	(5)-30"	49	12	75	55
4NCF54-2N	4NCF54-2N	2-NPT	(5)-40"	59 1/4	12	100	62
4NCF73-2N	4NCF73-2N	2-NPT	(7)-30"	51 3/4	14	105	75
4NCF74-2N	4NCF74-2N	2-NPT	(7)-40"	62	14	140	84
4NCF113-3	4NCF113-3	3-FLG	(11)-30"	55 3/4	18 1/4	165	115
4NCF114-3	4NCF114-3	3-FLG	(11)-40"	65 1/8	18 1/4	220	123
4NCF193-4	4NCF193-4	4-FLG	(19)-30"	58 1/2	23 3/4	285	161
4NCF194-4	4NCF194-4	4-FLG	(19)-40"	67 1/2	23 3/4	380	175

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included

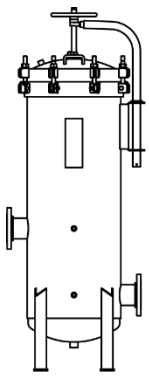
4CF CARTRIDGE FILTER VESSELS – ASME



ASME

304 STAINLESS STEEL HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4CF3-1-2	4CF3-1-2	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
4CF6-1-2	4CF6-1-2	2-FLG	(6)-10"	27	14 7/8	30	180
4CF6-2-2	4CF6-2-2	2-FLG	(6)-20"	37	14 7/8	60	185
4CF6-3-2	4CF6-3-2	2-FLG	(6)-30"	47	14 7/8	90	200
4CF6-4-3	4CF6-4-3	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
4CF12-3-3	4CF12-3-3	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
4CF12-3-4	4CF12-3-4	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
4CF12-4-4	4CF12-4-4	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
4CF19-3-4	4CF19-3-4	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
4CF19-4-4	4CF19-4-4	4-FLG	(19)-40"	71 1/4	23 1/2	380	440



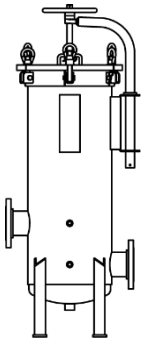
ASME

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
4CF25-3-4	4CF25-3-4	4-FLG	(25) - 30"	67	26	375	515
4CF25-4-6	4CF25-4-6	6-FLG	(25) - 40"	80 3/4	26	500	540
4CF35-3-6	4CF35-3-6	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
4CF35-4-6	4CF35-4-6	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
4CF40-3-6	4CF40-3-6	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
4CF40-4-6	4CF40-4-6	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
4CF52-3-6	4CF52-3-6	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
4CF52-4-8	4CF52-4-8	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
4CF85-3-8	4CF85-3-8	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
4CF85-4-8	4CF85-4-8	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
4CF102-3-8	4CF102-3-8	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
4CF102-4-8	4CF102-4-8	8-FLG	(102) - 40"	91	42 1/4	2040	1600

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger

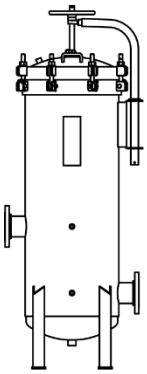
6CF CARTRIDGE FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING – 150 PSI



ASME

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6CF3-1-2	6CF3-1-2	2-FLG	(3)-10"	26 3/4	12 3/4	15	125
6CF6-1-2	6CF6-1-2	2-FLG	(6)-10"	27	14 7/8	30	180
6CF6-2-2	6CF6-2-2	2-FLG	(6)-20"	37	14 7/8	60	185
6CF6-3-2	6CF6-3-2	2-FLG	(6)-30"	47	14 7/8	90	200
6CF6-4-3	6CF6-4-3	3-FLG	(6)-40"	58 1/2	14 7/8	120	220
6CF12-3-3	6CF12-3-3	3-FLG	(12)-30"	64 3/4	20 1/2	180	310
6CF12-3-4	6CF12-3-4	4-FLG	(12)-30"	64 3/4	20 1/2	180	315
6CF12-4-4	6CF12-4-4	4-FLG	(12)-40"	71 1/4	20 1/2	240	330
6CF19-3-4	6CF19-3-4	4-FLG	(19)-30"	61 1/4	23 1/2	285	420
6CF19-4-4	6CF19-4-4	4-FLG	(19)-40"	71 1/4	23 1/2	380	440

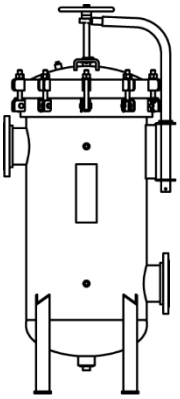


ASME

Model	Part No.	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6CF25-3-4	6CF25-3-4	4-FLG	(25) - 30"	67	26	375	515
6CF25-4-6	6CF25-4-6	6-FLG	(25) - 40"	80 3/4	26	500	540
6CF35-3-6	6CF35-3-6	6-FLG	(35) - 30"	69 1/4	29 1/4	525	645
6CF35-4-6	6CF35-4-6	6-FLG	(35) - 40"	79 1/4	29 1/4	700	695
6CF40-3-6	6CF40-3-6	6-FLG	(40) - 30"	71 1/4	30 3/4	600	810
6CF40-4-6	6CF40-4-6	6-FLG	(40) - 40"	81 1/4	30 3/4	800	820
6CF52-3-6	6CF52-3-6	6-FLG	(52) - 30"	74 3/4	33 1/2	780	865
6CF52-4-8	6CF52-4-8	8-FLG	(52) - 40"	84 3/4	33 1/2	1040	900
6CF85-3-8	6CF85-3-8	8-FLG	(85) - 30"	78 1/4	39 3/4	1275	1170
6CF85-4-8	6CF85-4-8	8-FLG	(85) - 40"	84 5/8	39 3/4	1700	1200
6CF102-3-8	6CF102-3-8	8-FLG	(102) - 30"	79 5/8	42 1/4	1530	1450
6CF102-4-8	6CF102-4-8	8-FLG	(102) - 40"	91	42 1/4	2040	1600

Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger

BF BAG FILTER VESSELS – ASME



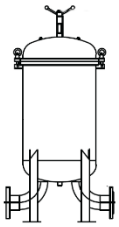
ASME

CARBON STEEL HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
BF11-2	BF11-2	2-FLG	(1) #1	34 7/8	14 7/8	80	180
BF12-3	BF12-3	3-FLG	(1) #2	48 3/4	16	160	200
BF31-3	BF31-3	3-FLG	(3) #1	54	26	240	600
BF32-4	BF32-4	4-FLG	(3) #2	67	26	480	650
BF41-4	BF41-4	4-FLG	(4) #1	54 1/2	28	320	670
BF42-6	BF42-6	6-FLG	(4) #2	71 1/4	30	640	740
BF52-6	BF52-6	6-FLG	(5) #2	71 1/2	30	800	700
BF62-8	BF62-8	8-FLG	(6) #2	75	36	960	1105
BF72-8	BF72-8	8-FLG	(7) #2	75	36	1120	1105
BF82-8	BF82-8	8-FLG	(8) #2	75 1/2	38	1280	1180
BF92-8	BF92-8	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500˚ F; Finish = Primer Exterior; Bag Filters NOT included; Lift arm provided on BF31 and larger

4NBF BAG FILTER VESSELS – Non-ASME



NON-ASME

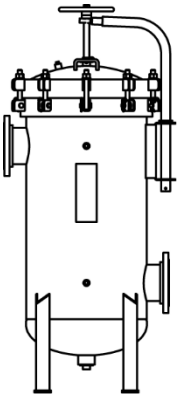
304 STAINLESS STEEL HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
4NBF12-2N	4NBF12-2N	2-NPT	(1) #2	43	12	160	82
4NBF12-2	4NBF12-2	2-FLG	(1) #2	44	13	160	88
4NBF42-4	4NBF42-4	4-FLG	(4) #2	62	32	640	419
4NBF62-6	4NBF62-6	6-FLG	(6) #2	71	35	960	660

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300˚ F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 4BF31 and larger

4BF BAG FILTER VESSELS – ASME

304 STAINLESS STEEL HOUSING – 150 PSI



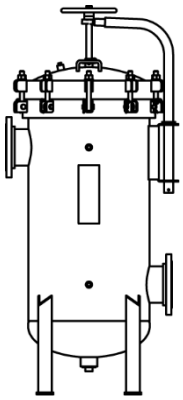
ASME

Model	Part No.	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
4BF11-2	4BF11-2	2-FLG	(1) #1	34 7/8	14 7/8	80	180
4BF12-3	4BF12-3	3-FLG	(1) #2	48 3/4	16	160	200
4BF31-3	4BF31-3	3-FLG	(3) #1	54	26	240	600
4BF32-4	4BF32-4	4-FLG	(3) #2	67	26	480	650
4BF41-4	4BF41-4	4-FLG	(4) #1	54 1/2	28	320	670
4BF42-6	4BF42-6	6-FLG	(4) #2	71 1/4	30	640	740
4BF52-6	4BF52-6	6-FLG	(5) #2	71 1/2	30	800	700
4BF62-8	4BF62-8	8-FLG	(6) #2	75	36	960	1105
4BF72-8	4BF72-8	8-FLG	(7) #2	75	36	1120	1105
4BF82-8	4BF82-8	8-FLG	(8) #2	75 1/2	38	1280	1180
4BF92-8	4BF92-8	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Bag Filters NOT included

6BF BAG FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING – 150 PSI



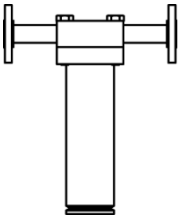
ASME

Model	Part No.	Conn. Size	# Bags	Height	Width	Max GPM	Ship Wt. (lbs.)
6BF11-2	6BF11-2	2-FLG	(1) #1	34 7/8	14 7/8	80	180
6BF12-3	6BF12-3	3-FLG	(1) #2	48 3/4	16	160	200
6BF31-3	6BF31-3	3-FLG	(3) #1	54	26	240	600
6BF32-4	6BF32-4	4-FLG	(3) #2	67	26	480	650
6BF41-4	6BF41-4	4-FLG	(4) #1	54 1/2	28	320	670
6BF42-6	6BF42-6	6-FLG	(4) #2	71 1/4	30	640	740
6BF52-6	6BF52-6	6-FLG	(5) #2	71 1/2	30	800	700
6BF62-8	6BF62-8	8-FLG	(6) #2	75	36	960	1105
6BF72-8	6BF72-8	8-FLG	(7) #2	75	36	1120	1105
6BF82-8	6BF82-8	8-FLG	(8) #2	75 1/2	38	1280	1180
6BF92-8	6BF92-8	8-FLG	(9) #2	77 3/4	40	1440	1290

Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 6BF31 and larger

HP HIGH PRESSURE CARTRIDGE FILTER VESSELS – ASME

CARBON STEEL HOUSING



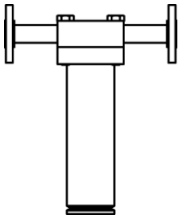
ASME

Model/Part#	Pressure Rating (psi)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
HP-11-1N	1610	1-NPT	(1)-10"	14 1/2	4 5/8	6	37
HP-11-1-150	245	1-FLG-150#	(1)-10"	14 1/2	12 5/8	6	45
HP-11-1-300	665	1-FLG-300#	(1)-10"	14 1/2	12 5/8	6	47
HP-11-1-600	1332	1-FLG-600#	(1)-10"	14 1/2	12 5/8	6	47
HP-12-1N	1610	1-NPT	(1)-20"	24 1/2	4 5/8	12	46
HP-12-1-150	245	1-FLG-150#	(1)-20"	24 1/2	12 5/8	12	54
HP-12-1-300	665	1-FLG-300#	(1)-20"	24 1/2	12 5/8	12	56
HP-12-1-600	1332	1-FLG-600#	(1)-20"	24 1/2	12 5/8	12	56
HP-13-1N	1610	1-NPT	(1)-30"	34 1/2	4 5/8	18	55
HP-13-1-150	245	1-FLG-150#	(1)-30"	34 1/2	12 5/8	18	63
HP-13-1-300	665	1-FLG-300#	(1)-30"	34 1/2	12 5/8	18	65
HP-13-1-600	1332	1-FLG-600#	(1)-30"	34 1/2	12 5/8	18	65

Materials = Carbon Steel; Maximum Pressure based on rating of flanges; Maximum Temperature = 300° F; Finish = Primer Exterior; Filters NOT included

6HP HIGH PRESSURE CARTRIDGE FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING



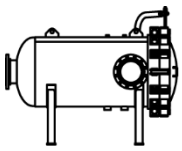
ASME

Model/Part#	Pressure Rating (psi)	Conn. Size	# Elm.	Height	Width	Max GPM	Ship Wt. (lbs.)
6HP-11-1N	1610	1-NPT	(1)-10"	14 1/2	4 5/8	6	37
6HP-11-1-150	225	1-FLG-150#	(1)-10"	14 1/2	12 5/8	6	45
6HP-11-1-300	590	1-FLG-300#	(1)-10"	14 1/2	12 5/8	6	47
6HP-11-1-600	1180	1-FLG-600#	(1)-10"	14 1/2	12 5/8	6	47
6HP-12-1N	1610	1-NPT	(1)-20"	24 1/2	4 5/8	12	46
6HP-12-1-150	225	1-FLG-150#	(1)-20"	24 1/2	12 5/8	12	54
6HP-12-1-300	590	1-FLG-300#	(1)-20"	24 1/2	12 5/8	12	56
6HP-12-1-600	1180	1-FLG-600#	(1)-20"	24 1/2	12 5/8	12	56
6HP-13-1N	1610	1-NPT	(1)-30"	34 1/2	4 5/8	18	55
6HP-13-1-150	225	1-FLG-150#	(1)-30"	34 1/2	12 5/8	18	63
6HP-13-1-300	590	1-FLG-300#	(1)-30"	34 1/2	12 5/8	18	65
6HP-13-1-600	1180	1-FLG-600#	(1)-30"	34 1/2	12 5/8	18	65

Materials = 316L Stainless Steel; Maximum based on rating of flanges; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Filters NOT included

HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

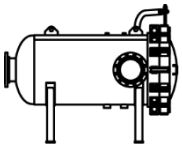
40" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



ASME

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
HFH14-3	HFH14-3	3-FLG	(1)-40"	43	60 1/4	350	250
HFH34-6	HFH34-6	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
HFH54-8	HFH54-8	8-FLG	(5)-40"	59	77	1750	935
HFH74-10	HFH74-10	10-FLG	(7)-40"	60	79 3/4	2450	1106
HFH84-10	HFH84-10	10-FLG	(8)-40"	61	79 7/8	2800	1248
HFH124-12	HFH124-12	12-FLG	(12)-40"	64	88 3/8	4200	1672
HFH154-14	HFH154-14	14-FLG	(15)-40"	65	90 3/4	5250	1938
HFH194-16	HFH194-16	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593

60" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



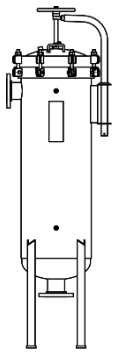
ASME

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
HFH16-4	HFH16-4	4-FLG	(1)-60"	43	81 1/4	500	325
HFH36-8	HFH36-8	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
HFH56-10	HFH56-10	10-FLG	(5)-60"	59	99	2500	1070
HFH76-10	HFH76-10	10-FLG	(7)-60"	60	99 3/4	3500	1181
HFH86-12	HFH86-12	12-FLG	(8)-60"	61	101 7/8	4000	1389
HFH126-14	HFH126-14	14-FLG	(12)-60"	64	109 3/4	6000	1834
HFH156-16	HFH156-16	16-FLG	(15)-60"	65	112 7/8	7500	2113
HFH196-18	HFH196-18	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

40" CARTRIDGE FILTER – CARBON HOUSING – 150 PSI



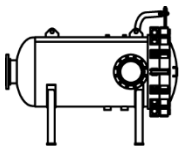
ASME

Model	Part No.	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
HFV14-3	HFV14-3	3-FLG	(1)-40"	69 3/8	8	350	250
HFV34-6	HFV34-6	6-FLG	(3)-40"	94 1/4	16	1050	694
HFV54-8	HFV54-8	8-FLG	(5)-40"	106 1/4	20	1750	935
HFV74-10	HFV74-10	10-FLG	(7)-40"	115 1/4	22	2450	1106
HFV84-10	HFV84-10	10-FLG	(8)-40"	115 1/2	24	2800	1248
HFV124-12	HFV124-12	12-FLG	(12)-40"	129	30	4200	1672
HFV154-14	HFV154-14	14-FLG	(15)-40"	135	32	5250	1938
HFV194-16	HFV194-16	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

4HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

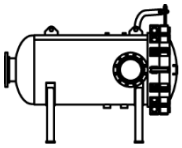
40" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI



ASME

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
4HFH14-3	4HFH14-3	3-FLG	(1)-40"	43	60 1/4	350	250
4HFH34-6	4HFH34-6	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
4HFH54-8	4HFH54-8	8-FLG	(5)-40"	59	77	1750	935
4HFH74-10	4HFH74-10	10-FLG	(7)-40"	60	79 3/4	2450	1106
4HFH84-10	4HFH84-10	10-FLG	(8)-40"	61	79 7/8	2800	1248
4HFH124-12	4HFH124-12	12-FLG	(12)-40"	64	88 3/8	4200	1672
4HFH154-14	4HFH154-14	14-FLG	(15)-40"	65	90 3/4	5250	1938
4HFH194-16	4HFH194-16	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593

60" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI



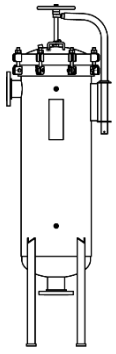
ASME

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
4HFH16-4	4HFH16-4	4-FLG	(1)-60"	43	81 1/4	500	325
4HFH36-8	4HFH36-8	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
4HFH56-10	4HFH56-10	10-FLG	(5)-60"	59	99	2500	1070
4HFH76-10	4HFH76-10	10-FLG	(7)-60"	60	99 3/4	3500	1181
4HFH86-12	4HFH86-12	12-FLG	(8)-60"	61	101 7/8	4000	1389
4HFH126-14	4HFH126-14	14-FLG	(12)-60"	64	109 3/4	6000	1834
4HFH156-16	4HFH156-16	16-FLG	(15)-60"	65	112 7/8	7500	2113
4HFH196-18	4HFH196-18	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

4HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

40" CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI

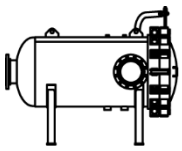


ASME

Model	Part No.	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
4HFV14-3	4HFV14-3	3-FLG	(1)-40"	69 3/8	8	350	250
4HFV34-6	4HFV34-6	6-FLG	(3)-40"	94 1/4	16	1050	694
4HFV54-8	4HFV54-8	8-FLG	(5)-40"	106 1/4	20	1750	935
4HFV74-10	4HFV74-10	10-FLG	(7)-40"	115 1/4	22	2450	1106
4HFV84-10	4HFV84-10	10-FLG	(8)-40"	115 1/2	24	2800	1248
4HFV124-12	4HFV124-12	12-FLG	(12)-40"	129	30	4200	1672
4HFV154-14	4HFV154-14	14-FLG	(15)-40"	135	32	5250	1938
4HFV194-16	4HFV194-16	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

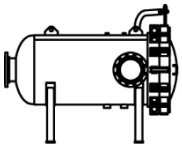
6HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME



ASME

40" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
6HFH14-3	6HFH14-3	3-FLG	(1)-40"	43	60 1/4	350	250
6HFH34-6	6HFH34-6	6-FLG	(3)-40"	58 3/8	69 3/4	1050	694
6HFH54-8	6HFH54-8	8-FLG	(5)-40"	59	77	1750	935
6HFH74-10	6HFH74-10	10-FLG	(7)-40"	60	79 3/4	2450	1106
6HFH84-10	6HFH84-10	10-FLG	(8)-40"	61	79 7/8	2800	1248
6HFH124-12	6HFH124-12	12-FLG	(12)-40"	64	88 3/8	4200	1672
6HFH154-14	6HFH154-14	14-FLG	(15)-40"	65	90 3/4	5250	1938
6HFH194-16	6HFH194-16	16-FLG	(19)-40"	67 1/2	94 1/2	6650	2593



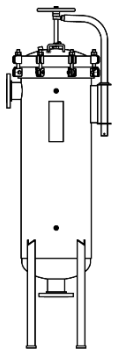
ASME

60" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Elm.	Height	Length	Max GPM	Ship Wt. (lbs.)
6HFH16-4	6HFH16-4	4-FLG	(1)-60"	43	81 1/4	500	325
6HFH36-8	6HFH36-8	8-FLG	(3)-60"	58 3/8	91 3/4	1500	756
6HFH56-10	6HFH56-10	10-FLG	(5)-60"	59	99	2500	1070
6HFH76-10	6HFH76-10	10-FLG	(7)-60"	60	99 3/4	3500	1181
6HFH86-12	6HFH86-12	12-FLG	(8)-60"	61	101 7/8	4000	1389
6HFH126-14	6HFH126-14	14-FLG	(12)-60"	64	109 3/4	6000	1834
6HFH156-16	6HFH156-16	16-FLG	(15)-60"	65	112 7/8	7500	2113
6HFH196-18	6HFH196-18	18-FLG	(19)-60"	67 1/2	116 1/2	9500	2828

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

6HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME



ASME

40" CARTRIDGE FILTER – 316 STAINLESS HOUSING – 150 PSI

Model	Part No.	Conn. Size	# Elm.	Height	Vessel Diameter	Max GPM	Ship Wt. (lbs.)
6HFV14-3	6HFV14-3	3-FLG	(1)-40"	69 3/8	8	350	250
6HFV34-6	6HFV34-6	6-FLG	(3)-40"	94 1/4	16	1050	694
6HFV54-8	6HFV54-8	8-FLG	(5)-40"	106 1/4	20	1750	935
6HFV74-10	6HFV74-10	10-FLG	(7)-40"	115 1/4	22	2450	1106
6HFV84-10	6HFV84-10	10-FLG	(8)-40"	115 1/2	24	2800	1248
6HFV124-12	6HFV124-12	12-FLG	(12)-40"	129	30	4200	1672
6HFV154-14	6HFV154-14	14-FLG	(15)-40"	135	32	5250	1938
6HFV194-16	6HFV194-16	16-FLG	(19)-40"	143 5/8	36	6650	2593

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

FX HYDRO-PNEUMATIC TANKS

Hydro-pneumatic tanks are used to store potable water. When properly sized, these tanks are designed to maintain a potable water system within a specified pressure range. Typically used in **water well systems, pressure booster packages**, and **industrial water accumulation** applications.

SIZING HYDRO-PNEUMATIC TANKS

To properly size a hydro-pneumatic tank, four critical pieces of information are required:

- Pump Capacity (in gallons per minute)
- Minimum Required Pump Run-time (in minutes)
- Pump Cut-in Pressure (in psig)
- Pump Cut-out Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit **www.westank.com/calculator** to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

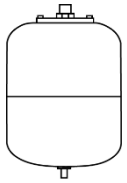
PUMP CAPACITY		**GPM**
MINIMUM RUN TIME		**MIN.**
CALCULATE REQUIRED STORAGE (ACCEPTANCE VOLUME) **(PUMP CAP. X RUN TIME)**		**GAL.**
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME **(ACCEPTANCE VOLUME/AF)**		**GAL**
SELECT MODEL		

ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS
(FX, FXT, & FXA MODELS – ONLY)

PUMP CUT-OUT PRESSURE (PSIG)

PUMP CUT-IN PRESSURE (PSIG)	20	30	40	50	60	70	80	90	100	110	120
10	0.288	0.447	0.548	0.618	0.669	0.708	0.739	0.764	0.785	0.802	0.817
20		0.224	0.366	0.464	0.535	0.590	0.634	0.669	0.697	0.722	0.742
30			0.183	0.309	0.402	0.472	0.528	0.573	0.610	0.642	0.668
40				0.155	0.268	0.354	0.422	0.478	0.523	0.561	0.594
50					0.134	0.236	0.317	0.382	0.436	0.481	0.520
60						0.118	0.211	0.287	0.349	0.401	0.445
70							0.106	0.191	0.262	0.321	0.371
80								0.096	0.174	0.241	0.297
90									0.087	0.160	0.223
100										0.080	0.148
110											0.074

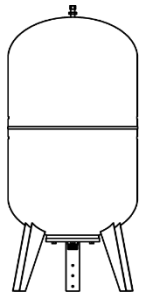
FX HYDRO-PNEUMATIC TANKS – Non-ASME



NON-ASME

REMOVABLE BLADDER TANK

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FX 8	30011008	2.1	2.1	8	13	3/4	7
FX 19	30011019	5.0	5.0	11	16	3/4	13
FX 24	30011024	6.3	6.3	14	13	3/4	15

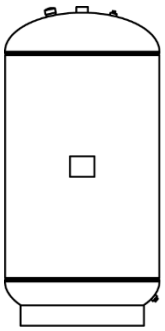


NON-ASME

FX 60V	30011060	16.0	16.0	15	34	1	39
FX 80V	30011080	21.0	21.0	18	34	1	49
FX 100V	30011100	26.0	26.0	18	38	1	61
FX 200V	30011200	52.0	52.0	22	49	1 1/2	112
FX 300V	30011300	80.0	80.0	25	55	1 1/2	141
FX 500V	30011500	132.0	132.0	31	61	1 1/2	265
FX 750V	30011700	198.0	198.0	31	79	1 1/2	330
FX 1000V	30011000	264.0	264.0	37	77	2	398
FX 2000V	30012000	528.0	528.0	50	84	2	835

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 200ºF; Finish = Blue Powder Coat Exterior;
Factory Pre-charge = 30 PSIG

FXT HYDRO-PNEUMATIC TANKS – ASME



ASME

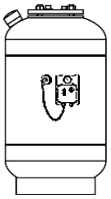
FIXED DIAPHRAGM TANK

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXT 400	21009999	8.0	6.3	12	20	3/4	34
FXT 401	21010000	15.0	11.9	16	23	1	64
FXT 402	21010005	25.0	19.8	16	33	1	84
FXT 403	21010010	35.0	27.5	16	45	1	97
FXT 404	21010015	70.0	55.5	24	46	1 1/2	259
FXT 405	21010020	90.0	71.0	24	52	1 1/2	283
FXT 415	21010025	115.0	91.0	24	66	1 1/2	325
FXT 440	21010030	140.0	111.0	24	78	1 1/2	362
FXT 460	21010032	160.0	127.0	30	61	1 1/2	591
FXT 480	21010034	210.0	166.0	30	79	1 1/2	752

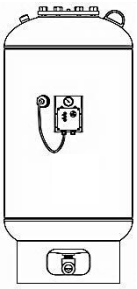
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 200 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG

Smart Tank Series: FXA with WessGuard®

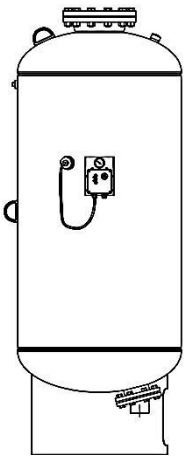
Smart Tank Series FXA-WG are ASME removable bladder type pre-charged hydro-pneumatic tanks with **WessGuard®** bladder monitor. They are designed to accept water between two set pressures, typically controlled by a pump switch, in pressure booster, water well, shock & surge, or other commercial & industrial systems where water must be stored in a corrosion protected reservoir. If the system creates a condition to extend the bladder beyond the normal movement, **WessGuard®** monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.



ASME



ASME



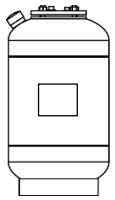
ASME

REMOVABLE BLADDER TANK – 125 PSI

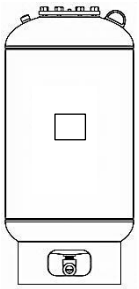
Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXA-35-WG	61010035	10	10	12	23 1/2	3/4	40
FXA-50-WG	61010050	13	13	14	24	3/4	50
FXA-85-WG	61010085	23	23	16	37	1	90
FXA-130-WG	61010130	35	35	20	37	1	125
FXA-200-WG	61010200	53	53	24	43	1 1/2	210
FXA-300-WG	61010300	79	79	24	55	1 1/2	225
FXA-400-WG	61010400	106	106	30	49	1 1/2	300
FXA-500-WG	61010500	132	132	30	57	2	335
FXA-600-WG	61010600	158	158	30	65	2	360
FXA-700-WG	61010700	185	185	30	80	1 1/2	600
FXA-800L-WG	61010805	211	211	32	76	2	475
FXA-1000-WG	61011000	264	264	36	74	3	735
FXA-1200-WG	61011200	317	317	36	86	3	745
FXA-1400-WG	61011400	370	370	36	99	3	900
FXA-1600-WG	61011600	422	422	48	72	3	1210
FXA-2000-WG	61012000	528	528	48	85	3	1305
FXA-2500-WG	61012500	660	660	48	102	4	1430
FXA-3000L-WG	61013000	792	792	48	122	4	1575
FXA-3000S-WG	61013001	792	792	60	80	4	2169
FXA-4000-WG	61014000	1056	1056	60	102	4	2638
FXA-5000-WG	61015000	1320	1320	60	125	4	3246
FXA-7500-WG	61017500	1980	1980	72	127	4	4080
FXA-10000-WG	61019999	2640	2640	72	159	4	4920
FXA-15000-WG	61010000	3963	3963	72	233	4	6000

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts



ASME



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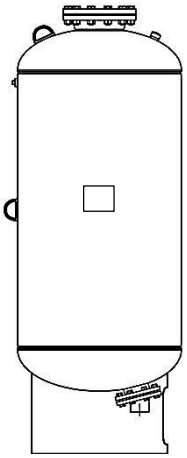


ASME

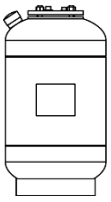
REMOVABLE BLADDER – 125 PSI

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
FXA 35	21010035	10	10	12	23 1/2	3/4	40
FXA 50	21010050	13	13	14	24	3/4	50
FXA 85	21010085	23	23	16	37	1	90
FXA 130	21010130	35	35	20	37	1	125
FXA 200	21010200	53	53	24	43	1 1/2	210
FXA 300	21010300	79	79	24	55	1 1/2	225
FXA 400	21010400	106	106	30	49	1 1/2	300
FXA 500	21010500	132	132	30	57	2	330
FXA 600	21010600	158	158	30	65	2	360
FXA 700[1]	21040715	185	185	30	80	1 1/2	600
FXA 800L	21010805	211	211	32	76	2	475
FXA 1000	21011000	264	264	36	87	3	735
FXA 1200	21011200	317	317	36	98 1/2	3	745
FXA 1400	21011400	370	370	36	110 1/2	3	900
FXA 1600	21011600	422	422	48	84	3	1210
FXA 2000	21012000	528	528	48	96	3	1305
FXA 2500	21012500	660	660	48	110	4	1430
FXA 3000L	21013000	792	792	48	133	4	1575
FXA 3000S	21013001	792	792	60	93	4	2169
FXA 4000	21014000	1056	1056	60	115	4	2638
FXA 5000	21015000	1320	1320	60	138	4	3246
FXA 7500	21017500	1980	1980	72	140	4	4080
FXA 10000	21019999	2640	2640	72	172	4	4920
FXA 15000	21500000	3963	3963	72	243	4	6000

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

[1] – In stock at 200 psi rating

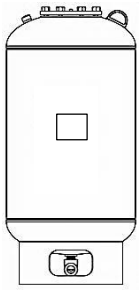
FXA-HP HYDRO-PNEUMATIC TANKS – ASME



ASME

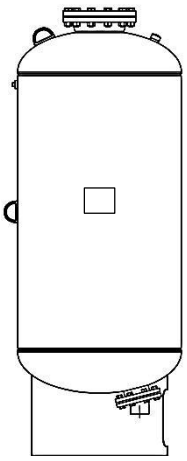
REMOVABLE BLADDER – 200 PSI & 250 PSI

Model	Gal.	200 PSI Part No.	200 PSI Wt.(#)	200 PSI Part No.	200 PSI Wt.(#)
FXA-HP 35	10	21040035	52	21050035	53
FXA-HP 50	13	21040050	59	21050050	65



ASME

FXA-HP 85	23	21040085	95	21050085	105
FXA-HP 130	35	21040130	127	21050130	141
FXA-HP 200	53	21040200	194	21050200	220
FXA-HP 300	79	21040300	252	21050300	282
FXA-HP 400	106	21040400	336	21050400	410
FXA-HP 500	132	21040500	400	21050500	512
FXA-HP 600	158	21040600	419	21050600	569
FXA-HP 700[1]	185	21040715	600	21050710	797
FXA-HP 800L	211	21040805	680	21050805	711



ASME

FXA-HP 1000	264	21041000	698	21051000	830
FXA-HP 1200	317	21041200	905	21051200	1118
FXA-HP 1400	370	21041400	1107	21051400	1330
FXA-HP 1600	422	21041600	1413	21051600	1713
FXA-HP 2000	528	21042000	1643	21052000	2026
FXA-HP 2500	660	21042500	1935	21052500	2352
FXA-HP 3000L	792	21043000	2198	21053000	2782
FXA-HP 3000S	792	21043001	2694	21053001	2965
FXA-HP 4000	1056	21044000	3291	21054000	3736
FXA-HP 5000	1320	21045000	3858	21055000	4485
FXA-HP 7500	1980	21047500	5491	21057500	6583
FXA-HP 10000	2640	21049999	6796	21059999	8068
FXA-HP 15000	3963	21040000	9814	21050000	12030

ASME

Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG; For vessel dimensions (diameter, height and system connection) refer to FXA price sheet or Submittal Data.

[1] – In stock at 200 psi rating

WESSGUARD® RETROFIT FOR FXA

The bladder-style hydro-pneumatic tank function is to store fluid, typically water in a water-well, shock/surge or pressure booster system. The properly sized hydro-pneumatic tank will store this water while limiting pressures based on the captured compressible air chamber size within the tank to the designer's acceptable limits.

The tank critical size is engineered to store the proper volume of water to minimize the daily pump starts/stops, lengthening the life expectancy of the system pumps and pump motors.

Factors that can affect the pump cycling in the system:
Properly sized hydro-pneumatic tank
Properly installed and pre-charge adjusted hydro-pneumatic tank
Pump switch pressure range (in conjunction to the pre-charge pressure)
Pump switch pressure range drift (over time)

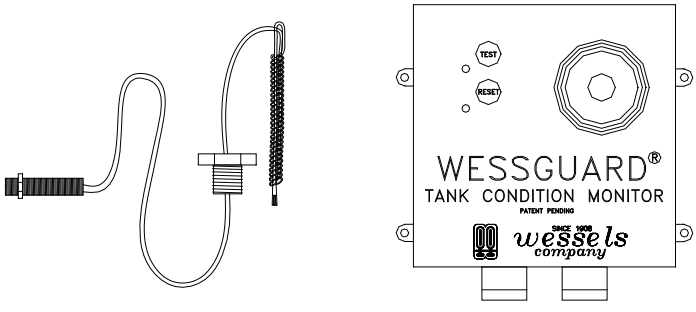
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure cycling. **WessGuard**® was developed to monitor the fluid within the hydro-pneumatic tank by determining excessive movement of the vessel bladder. **WessGuard**® incorporates a capacitive proximity sensor that determines if fluid levels in the hydro-pneumatic tank exceed "normal" operating conditions. Furthermore, if an expansion tank bladder is compromised, **WessGuard**® monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard**® monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - FXA

Model	Part No.	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER



Specify Standard or WessGuard-2® with Phone Texting Alerts

FX REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
FX 8	0300008	NA	0550008
FX 19	0300019	NA	0550019
FX 24	0300024	NA	0550024
FX 60V	0300060	0555060	0550060
FX 80V	0300080	0555080	0550080
FX 100V	0300100	0555100	0550100
FX 200V	0300200	0555200	0550200
FX 300V	0300300	0555300	0550300
FX 500V	0300500	0555500	0550500
FX 750V**	0300750	0555750	0550750
FX 1000V	0301000	0556000	0551000
FX 2000V	0302000	0557060	0552000

** FX-750V Replaces Model FX-700V Effective 5/98

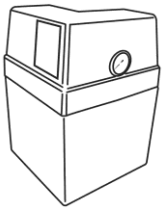
FXA REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
FXA 35	02210035	NA	0521035
FXA 50	02210050	NA	0521050
FXA 85	02210085	0421085	0521085
FXA 130	02210130	0421130	0521130
FXA 200	02210200	0421200	0521200
FXA 300	02210300	0421300	0521300
FXA 400	02210400	0421400	0521400
FXA 500	02210500	0421500	0521500
FXA 600	02210600	0421600	0521600
FXA 700	02210700	0421700	0521700
FXA 700T*	02210705	0421800	0521800
FXA 800L	02210805	0421805	0521805
FXA 1000	02211000	0422000	0521810
FXA 1200	02211200	0422200	0521815
FXA 1400	02211400	0422400	0521820
FXA 1600	02211600	0422600	0521825
FXA 2000	02212000	0423000	0521830
FXA 2500	02212500	0423000	0521830
FXA 3000L	02213000	0423000	0521830
FXA 3000S	02213006	0423000	0521830
FXA 4000	02214000	0423000	0521830
FXA 5000	02215000	0423000	0521830
FXA 7500	02217500	0423000	0521830
FXA 10000	02219999	0423000	0521830

* FXA-700T Bladder is made of Heavy Duty Urethane

GLYMATIC & GMP GLYCOL MAKE-UP PACKAGES

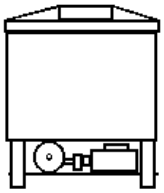
GLYMATIC – SINGLE SYSTEM PACKAGE



Model	Part No.	Solution Volume (gal)	Dimensions Height (in)	Dimensions Width (in)	Dimensions Depth (in)	Approx. Weight (lbs)
GMP-6	07001006	6	17 1/2	12	12	16
GMP-18	07001018	18	39 1/4	12	12	25

Materials = Polyethylene solution tank, 110V, 60HZ Motor; Maximum Pressure = 60 PSIG discharge pressure; Maximum Temperature = 160ºF; Factory Discharge Pressure Setting = 12 PSIG; Low level alarm available – Consult Factory

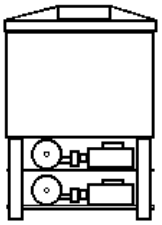
GMP – SINGLE SYSTEM PACKAGE



Model	Part No.	Pump hp	Solution Volume (gal)	Dimensions Height (in)	Dimensions Width (in)	Approx. Weight (lbs)
GMP-13050	07101052	1/3	50	42	28	90
GMP-13100	07101102	1/3	100	67	28	105
GMP-15050	07102052	1/2	50	42	28	95
GMP-15100	07102102	1/2	100	67	28	110

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160ºF; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

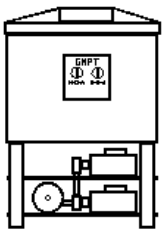
GMPD – TWO SEPARATE SYSTEMS/ ONE PACKAGE



Model	Part No.	Pump hp	Solution Volume (gal)	Dimensions Height (in)	Dimensions Width (in)	Approx. Weight (lbs)
GMPD-23050	07103152	1/3	50	55	28	153
GMPD-23100	07103155	1/3	100	78	28	166
GMPD-25050	07103160	1/2	50	55	28	153
GMPD-25100	07103165	1/2	100	78	28	166

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160ºF; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

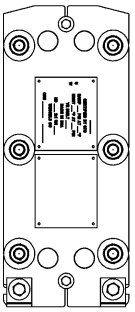
GMPT – SINGLE SYSTEM/ TWIN PUMPS W/ALTERNATOR



Model	Part No.	Pump hp	Solution Volume (gal)	Dimensions Height (in)	Dimensions Width (in)	Approx. Weight (lbs)
GMPT-33050	07103170	1/3	50	55	28	153
GMPT-33100	07103175	1/3	100	78	28	166
GMPT-35050	07103180	1/2	50	55	28	153
GMPT-35100	07103185	1/2	100	78	28	166

Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160ºF; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

WP WESPLATE AND FRAME – ASME – AHRI CERTIFIED



ASME

PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

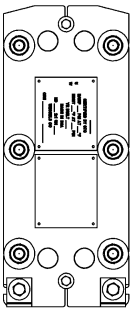
Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP11	WP12	WP22	WP23	WP24	WP30	WP42	WP43
6								
12								
18								
24								
36								
48								
60								
72								
84								
96								
108								
120								
144								
168								
192								
216								
240								
SS Conn Add / ea								
Ti Conn Add / ea								
300 psi Add								
Plate / Thk / Gask								
304.4.Epdm								
304.5.Epdm								
304.6.Epdm								
316.4.Epdm								
316.5.Epdm								
316.6.Epdm								
Ti.5.Epdm								
304DW.8.Epdm								
316DW.8.Epdm								

Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier

Request access to WesPlate Sizing at wesplatesizing.westank.com for more precise quotation.

WP WESPLATE AND FRAME – ASME – AHRI (CONT'D)



ASME

PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

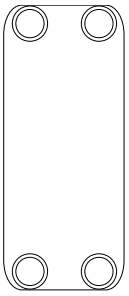
Description	Model Base Frame: 150 psi design / Single Pass / Steel connections							
Length	WP47	WP62	WP63	WP65	WP82	WP83	WP122	WP123
6								
12								
18								
24								
36								
48								
60								
72								
84								
96								
108								
120								
144								
168								
192								
216								
240								
SS Conn Add / ea								
Ti Conn Add / ea								
300 psi Add								
Plate / Thk / Gask								
304.4.Epdm								
304.5.Epdm								
304.6.Epdm								
316.4.Epdm								
316.5.Epdm								
316.6.Epdm								
Ti.5.Epdm								
304DW.8.Epdm								
316DW.8.Epdm								

Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier

Request access to WesPlate Sizing at wesplatesizing.westank.com for more precise quotation.

WB WESPAC BRAZED PLATE – Non-ASME



NON-ASME

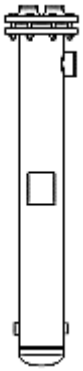
BRAZED PLATE HEAT EXCHANGER

Model		WB01		WB10	
	# plates	Part Number	Lbs.	Part Number	Lbs.
Standard	10	52801010	3	52810010	8
Construction;	20	52801020	4	52810020	11
Plate Material:	30	52801030	5	52810030	14
316SS	40	52801040	6	52810040	17
Connections:	50	52801050	8	52810050	20
304SS NPT	60	52801060	9	52810060	23
Braze Material:	70			52810070	26
Copper	80			52810080	29
Design Pressure:	90			52810090	32
450 psi	100			52810100	35
Design Temp:		**WB11**		**WB15D (Double Wall)**	
385°F	10	52811010	12	52815010	8
Certification:	20	52811020	17	52815020	11
Non-ASME	30	52811030	22	52815030	14
Connection Sizes;	40	52811040	27	52815040	17
WB01: 3/4"	50	52811050	32	52815050	20
WB10: 1"	60	52811060	37	52815060	23
WB11: 1"	70	52811070	42	52815070	26
WB15D: 1"	80	52811080	47	52815080	29
WB20: 2"	90	52811090	52	52815090	32
	100	52811100	57	52815100	35
	110	52811110	62		
	120	52811120	67		
		WB20			
	10	52820010	33		
	20	52820020	43		
	30	52820030	55		
	40	52820040	65		
	50	52820050	76		
	60	52820060	87		
	70	52820070	99		
	80	52820080	110		
	90	52820090	122		
	100	52820100	133		
	110	52820110	145		
	120	52820120	156		
	130	52820130	168		
	140	52820140	179		

Consult factory for more options.

WST WESTUBE - ASME

U-TUBE HEAT EXCHANGER – STEAM IN SHELL



ASME

Base Price	Tube	Unit Diameter						
Description	Length	4	6	8	10	12	14	16
Standard	2							
Construction;	3							
Tubes 3/4" OD	4							
Copper 20 BWG	5							
Cast iron heads	6							
Steel tubesheets	7							
Steel shell	8							
Steel baffles	9							
Two(2) gaskets	10							
2 or 4 pass only	11							
ASME stamped	12							
150 psi design	13							
	14							
	15							
Support Feet	Steel							
Weight Base	Lbs	30	80	140	220	280	335	450
Add Weight / FT	Lbs / Ft	15	30	40	60	105	120	150

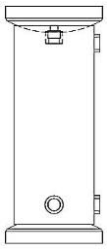
WWT WESTUBE - ASME

U-TUBE HEAT EXCHANGER – WATER TO WATER

ASME

Standard	2							
Construction;	3							
Tubes 3/4" OD	4							
Copper 20 BWG	5							
Cast iron heads	6							
Steel tubesheets	7							
Steel shell	8							
Steel baffles	9							
Two(2) gaskets	10							
2 or 4 pass only	11							
ASME stamped	12							
150 psi design	13							
	14							
	15							
Support Feet	Steel							
Weight Base	Lbs	30	80	140	220	280	335	450
Add Weight / FT	Lbs	15	30	40	60	105	120	150
Baffle Spacing	Inches	4	3	4	5	6	7	8

CPFT CHEMICAL POT FEEDER TANKS – Non-ASME



NON-ASME

CHEMICAL FEED TANKS

Model	Part No.	Gal.	Dia.	Ht.	Funnel Size	System Tappings	Wt. (Lbs.)
CPFT-2	78880002	2	6	19-7/8	8	3/4	30
CPFT-5	78880005	5	10	19-3/4	12	3/4	37

Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450ºF; Finish = Red Oxide Primer

CPFTA CHEMICAL POT FEEDER TANKS – ASME

ASME

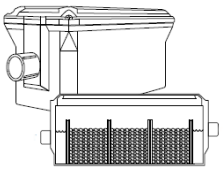
CHEMICAL FEED TANKS - ASME

Model	Part No.	Gal.	Dia.	Ht.	Funnel Size	System Tappings	Wt. (Lbs.)
CPFTA-2	78880022	2	6	19	6	3/4	30
CPFTA-5	78880055	5	10	19-3/4	10	3/4	49

Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450ºF; Finish = Red Oxide Primer

WCN CONDENSATE NEUTRALIZERS

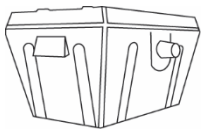
WCN CONDENSATE NEUTRALIZER



Model	Part No.	Dimensions (in.)			Ship Wt. (lbs.)
		Length	Width	Height	
WCN1	33030000	12	4 3/4	5 1/2	4
MEDIA BAG	33030100	4	3	4	1.4
FLEX HOSE	33030200	120	1/2 DIA	1/2 DIA	0.5
WALL BRKT.	33030300	4 1/2	1	4	0.1

WCN includes MEDIA BAGS for up to 50,000 BTU/hr. Includes two compartments for two (2) additional media bags for up to 1.5 million BTU/hr.
FLEXHOSE includes barb fittings.
WALL BRACKETS includes two (2) for wall mounting (if required)

WCN-2 CONDENSATE NEUTRALIZER



Model	Part No.	Dimensions (in.)			Ship Wt. (lbs.)
		Length	Width	Height	
WCN2	33030101	16.25	10 1/2	7 1/2	17
WCN1 MEDIA	33032100	5	10	6	10

WCN2 includes MEDIA for up to 3,500,000 btu/hr. The WCN2 has two additional compartments for two (2) additional MEDIA bags for up to 10.5 million btu/hr.

N EXPANSION TANKS

8

Expansion tanks are used to absorb the additional volume of water created during thermal expansion of system fluid, maintaining critical system pressures below safety relief valve settings. Wessels carries industry's broadest line of ASME and non-ASME tanks. Typically used in **closed-loop hydronic heating, chilled water** and **industrial process** piping systems.

SIZING EXPANSION TANKS

To properly size an expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons)
- Minimum System Temperature (in degrees F)
- Maximum System Temperature (in degrees F)
- Minimum System Pressure (in psig)
- Maximum System Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit **www.westank.com/calculator** to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

SYSTEM VOLUME		GAL.
EXPANSION FACTOR		
CALCULATE ACCEPTANCE VOLUME (SYS. VOL. X EXP. FACTOR)		GAL.
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME (ACC. VOL./AF)		GAL
SELECT MODEL		

EXPANSION FACTOR TABLE – WATER ONLY

MAX. SYSTEM TEMPERATURE (DEG. F)	MIN. SYSTEM TEMPERATURE (DEG. F) 40	50	60	70	80	90	100
50	0.00006						
60	0.00055	0.00049					
70	0.00149	0.00143	0.00094				
80	0.00260	0.00254	0.00205	0.00111			
90	0.00405	0.00399	0.00350	0.00256	0.00145		
100	0.00575	0.00569	0.00520	0.00426	0.00315	0.00170	
110	0.00771	0.00765	0.00716	0.00622	0.00511	0.00366	0.00196
120	0.01004	0.00998	0.00949	0.00855	0.00744	0.00596	0.00429
130	0.01236	0.01230	0.01181	0.01087	0.00976	0.00831	0.00661
140	0.01501	0.01495	0.01446	0.01352	0.01241	0.01096	0.00926
150	0.01787	0.01779	0.01730	0.01636	0.01525	0.01377	0.01210
160	0.02092	0.02086	0.02037	0.01943	0.01814	0.01667	0.01508
170	0.02418	0.02412	0.02363	0.02269	0.02158	0.02013	0.01843
180	0.02763	0.02757	0.02708	0.02614	0.02503	0.02358	0.02188
190	0.03127	0.03121	0.03072	0.02978	0.02867	0.02722	0.02552
200	0.03510	0.03504	0.03455	0.03361	0.03250	0.03105	0.02935
210	0.03911	0.03905	0.03856	0.03762	0.03651	0.03506	0.03336
220	0.04335	0.04329	0.04280	0.04186	0.04075	0.03930	0.03760
230	0.04762	0.04756	0.04707	0.04613	0.04502	0.04357	0.04187
240	0.05220	0.05214	0.05165	0.05071	0.04960	0.04815	0.04645

ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS (N-SERIES,NL, NTA, NLA, NLAP & NVA MODELS – ONLY)

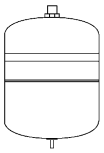
MIN. SYS. PRESSURE (PSIG)	MAX. SYS. PRESSURE (PSIG) 30	40	50	60	70	80	90	100
10	0.447	0.548	0.618	0.669	0.708	0.739	0.764	0.785
12	0.403	0.512	0.587	0.643	0.685	0.718	0.745	0.767
20	0.224	0.366	0.464	0.535	0.590	0.634	0.669	0.697
30		0.183	0.309	0.402	0.472	0.528	0.573	0.610
40			0.155	0.268	0.354	0.422	0.478	0.523
50				0.134	0.236	0.317	0.382	0.436
60					0.118	0.211	0.287	0.349
70						0.106	0.191	0.262
80							0.096	0.174
90								0.087

ACCEPTANCE FACTOR FOR ATMOSPHERIC TANKS (NA-SERIES & NAG-SERIES – ONLY)

MIN. SYS. PRESSURE (PSIG)	MAX. SYS. PRESSURE (PSIG) 30	40	50	60	70	80	90	100
10	0.266	0.326	0.368	0.398	0.422	0.440	0.455	0.467
12	0.222	0.282	0.323	0.354	0.377	0.395	0.410	0.422
20	0.095	0.155	0.196	0.227	0.250	0.268	0.283	0.295
30		0.060	0.102	0.132	0.155	0.174	0.188	0.201
40			0.042	0.072	0.095	0.114	0.128	0.141
50				0.030	0.054	0.072	0.087	0.099
60					0.023	0.042	0.056	0.069
70						0.018	0.033	0.045
80							0.015	0.027
90								0.012

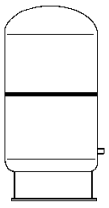
N EXPANSION TANKS – Non-ASME

FIXED DIAPHRAGM TANK



NON-ASME

Model	Part No.	Gal.	Dia.	Height	Syst. Conn.	Wt. (Lbs.)
N-15	33010015	2.1	7.9	10.8	1/2	5
N-30	33010030	4.8	10.6	13.7	1/2	9
N-60	33010060	6.3	11.8	15.4	1/2	14
N-90	33010090	13.2	15.0	21.1	1/2	23



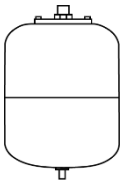
NON-ASME

N-40V	33010140	21.2	17.7	23.6	1	33
N-60V	33010160	39.7	19.7	35.2	1	60
N-90V	33010190	52.9	23.6	33.9	1	81
N-110V	33011110	66.1	24.8	38.2	1	90
N-160V	33011260	79.4	24.8	44.7	1	106

Materials = Steel Shell, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF;
Finish = Silver Powder Coat Exterior; Factory Pre-charge = 12 PSIG

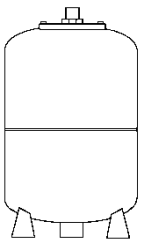
NL EXPANSION TANKS – Non-ASME

REMOVABLE BLADDER TANK



NON-ASME

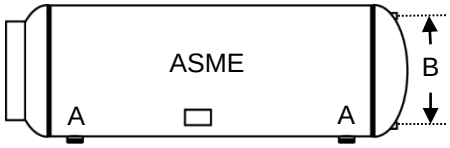
Model	Part No.	Gal.	Dia.	Height	Syst. Conn.	Wt. (Lbs.)
NL-15	32051008	2.1	7.9	12.9	3/4	6
NL-20	32051012	3.2	10.6	11.8	3/4	7
NL-30	32051018	4.8	10.6	16.2	3/4	9
NL-60	32051025	6.6	11.4	19.7	3/4	12



NON-ASME

NL-80L	32051035	10.6	12.6	22.5	1	22
NL-90L	32051050	15.8	15.0	28.7	1	31
NL-40VL	32051080	21.1	17.7	28.9	1	35
NL-60VL	32051105	26.4	17.7	31.1	1	45
NL-90VL	32051200	52.8	21.6	42.5	1 1/2	84
NL-110VL	32051300	79.2	24.8	46.3	1 1/2	111
NL-160VL	32051500	132.1	30.7	50.5	1 1/2	217

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240ºF; Finish = Red Powder Coat Exterior;
Factory Pre-charge = 12 PSIG



PAINTED PLAIN STEEL

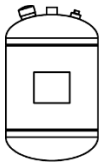
Model	Part No.	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)	Saddle Wt. (lbs.)
12NA33	23012033	15	12	33	1"	8	44	12
12NA51	23012051	24	12	51	1"	8	62	12
14NA48	23014048	30	14	48	1"	10	72	15
14NA63	23014063	40	14	63	1"	10	92	15
16NA72	23016072	60	16	72	1"	12	120	21
20NA62	23020062	80	20	62 1/2	1"	16	136	29
20NA78	23020078	100	20	78	1"	16	168	29
24NA65	23024065	120	24	65	1"	20	218	35
24NA72	23024072	135	24	72	1"	20	238	35
30NA62	23030062	175	30	62 1/2	1-1/2"	22	338	49
30NA77	23030077	220	30	77	1-1/2"	22	368	49
30NA84	23030084	240	30	84	1-1/2"	22	394	49
30NA105	23030105	305	30	105 3/4	1-1/2"	22	486	49
36NA72	23036072	295	36	72	1-1/2"	28	502	57
36NA93	23036093	400	36	92 1/2	1-1/2"	28	645	57
36NA120	23036120	505	36	120	1-1/2"	28	810	57
42NA96	23042096	525	42	96	1-1/2"	28	895	88

GALVANIZED STEEL

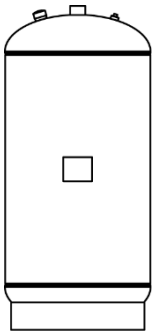
Model	Part No.	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)	Saddle Wt. (lbs.)
12NAG33	16012033	15	12	33	1"	8	49	12
12NAG51	16012051	24	12	51	1"	8	69	12
14NAG48	16014048	30	14	48	1"	10	80	15
14NAG63	16014063	40	14	63	1"	10	102	15
16NAG72	16016072	60	16	72	1"	12	134	21
20NAG62	16020062	80	20	62 1/2	1"	16	151	29
20NAG78	16020078	100	20	78	1"	16	187	29
24NAG65	16024065	120	24	65	1"	20	238	35
24NAG72	16024072	135	24	72	1"	20	258	35
30NAG62	16030062	175	30	62 1/2	1-1/2"	22	361	49
30NAG77	16030077	220	30	77	1-1/2"	22	396	49
30NAG84	16030084	240	30	84	1-1/2"	22	424	49
30NAG105	16030105	305	30	105 3/4	1-1/2"	22	523	49
36NAG72	16036072	295	36	72	1-1/2"	28	540	57
36NAG93	16036093	400	36	92 1/2	1-1/2"	28	686	57
36NAG120	16036120	505	36	120	1-1/2"	28	844	57
42NAG96	16042096	525	42	96	1-1/2"	28	928	88

Materials = Steel; Maximum Pressure = 150 PSIG for 12NA33(12NAG33) to 20NA78(16NAG72) and 125 PSIG for all other models; Maximum Temperature = 450ºF; Finish = Primer for NA & Galvanized Steel Interior & Exterior for NAG; Gauge glass tappings are ½" NPT; Base stands included on all models except 36NA120 & 42NA96.

NTA EXPANSION TANKS – ASME



ASME



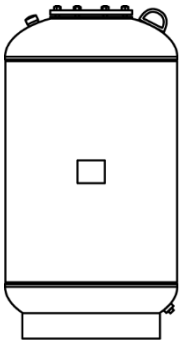
ASME

FIXED DIAPHRAGM TANK

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NTA-15	19010015	7.8	6.3	12	19	3/4	42
NTA-20	19010020	11.0	8.8	12	25	3/4	52
NTA-40	19010040	25.0	20.2	16	33	1	84
NTA-60	19010060	35.0	28.0	16	44	1	97
NTA-80	19010080	45.0	36.0	20	38	1	148
NTA-100	19010100	60.0	48.5	20	49	1	175
NTA-120	19010120	70.0	56.5	24	46	1 1/2	259
NTA-144	19010144	80.0	65.0	24	49	1 1/2	268
NTA-180	19010180	90.0	73.0	24	52	1 1/2	283
NTA-200	19010200	115.0	93.0	24	66	1 1/2	325
NTA-240	19010240	140.0	113.5	24	78	1 1/2	362
NTA-260	19010260	158.0	128.0	30	63	1 1/2	591
NTA-280	19010280	211.0	171.0	30	81	1 1/2	752

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG for NTA-15 through NTA-60; All Others 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG

NLAP EXPANSION TANKS: TOP CONNECTION – ASME



ASME

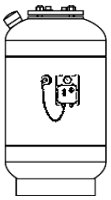
REMOVABLE BLADDER TANK

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLAP-40	22510040	11.0	11.0	12	27	3/4	42
NLAP-60	22510060	15.0	15.0	14	26	3/4	52
NLAP-100	22510100	25.0	25.0	16	32	1	77
NLAP-150	22510150	39.0	34.0	16	48 1/2	1	115
NLAP-220	22510220	58.0	53.0	20	48 1/2	1 1/2	170
NLAP-325	22510325	85.0	85.0	24	50 1/2	1 1/2	225
NLAP-400	22510400	104.0	104.0	24	57 1/2	1 1/2	250
NLAP-560	22510560	147.0	147.0	30	53	1 1/2	325
NLAP-600	22510600	158.0	158.0	30	58	1 1/2	350
NLAP-700	22510700	185.0	185.0	30	66	1 1/2	400
NLAP-815	22510815	215.0	215.0	36	58	1 1/2	475
NLAP-950	22510950	250.0	250.0	36	66	1 1/2	540
NLAP-1100	22511100	290.0	290.0	36	75	1 1/2	625

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG

Smart Tank Series: NLA with WessGuard®

Smart Tank Series NLA-WG are ASME removable bladder type pre-charged expansion tanks with **WessGuard**® bladder monitor. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and water logging problems. If the system creates a condition to extend the bladder beyond the normal movement, **WessGuard**® monitor will activate an audible and LED alarm to notify maintenance staff of this potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.



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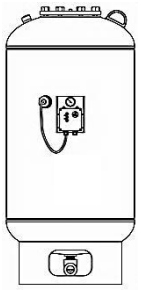

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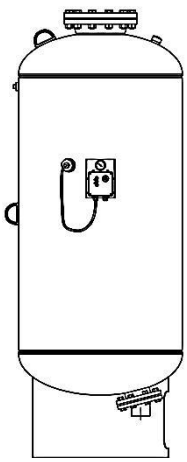


ASME

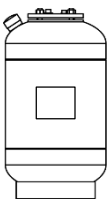
REMOVABLE BLADDER TANK – 125 PSI

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLA-35-WG	62010035	10	10	12	23 1/2	3/4	40
NLA-50-WG	62010050	13	13	14	24	3/4	50
NLA-85-WG	62010085	23	23	16	37	1	90
NLA-130-WG	62010130	35	35	20	37	1	125
NLA-200-WG	62010200	53	53	24	43	1 1/2	210
NLA-300-WG	62010300	79	79	24	55	1 1/2	225
NLA-400-WG	62010400	106	106	30	49	1 1/2	300
NLA-500-WG	62010500	132	132	30	57	1 1/2	335
NLA-600-WG	62010600	158	158	30	65	1 1/2	360
NLA-800L-WG	62010805	211	211	32	76	1 1/2	475
NLA-1000-WG	62011000	264	264	36	75	1 1/2	710
NLA-1200-WG	62011200	317	317	36	87	1 1/2	720
NLA-1400-WG	62011400	370	370	36	99	1 1/2	875
NLA-1600-WG	62011600	422	422	48	74	1 1/2	1100
NLA-2000-WG	62012000	528	528	48	87	1 1/2	1280
NLA-2500-WG	62012500	660	660	48	102	2	1435
NLA-3000L-WG	62013000	792	792	48	122	2	1550
NLA-3000S-WG	62013001	792	792	60	80	2	2169
NLA-4000-WG	62014000	1056	1056	60	102	2	2638
NLA-5000-WG	62015000	1320	1320	60	125	2	3246
NLA-7500-WG	62017500	1980	1980	72	127	3	4005
NLA-10000-WG	62019999	2640	2640	72	163	3	4845
NLA-15000-WG	62010000	3963	3963	72	233	3	5925

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts

NLA EXPANSION TANKS – ASME



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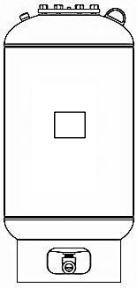

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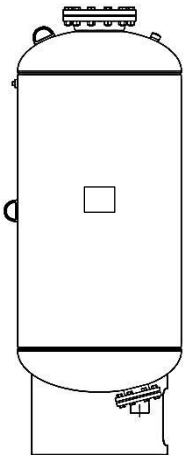


ASME

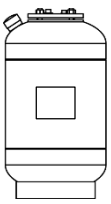
REMOVABLE BLADDER TANK – 125 PSI

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NLA-35	22010035	10	10	12	25	3/4	40
NLA-50	22010050	13	13	14	25	3/4	50
NLA-85	22010085	23	23	16	37	1	90
NLA-130	22010130	35	35	20	37	1	125
NLA-200	22010200	53	53	24	43	1 1/2	210
NLA-300	22010300	79	79	24	55	1 1/2	225
NLA-400	22010400	106	106	30	49	1 1/2	300
NLA-500	22010500	132	132	30	57	1 1/2	335
NLA-600	22010600	158	158	30	65	1 1/2	360
NLA-800L	22010805	211	211	32	76	1 1/2	475
NLA-1000	22011000	264	264	36	74	1 1/2	710
NLA-1200	22011200	317	317	36	86	1 1/2	720
NLA-1400	22011400	370	370	36	99	1 1/2	875
NLA-1600	22011600	422	422	48	72	1 1/2	1100
NLA-2000	22012000	528	528	48	85	1 1/2	1280
NLA-2500	22012500	660	660	48	102	2	1435
NLA-3000L	22013000	792	792	48	122	2	1550
NLA-3000S	22013001	792	792	60	80	2	2169
NLA-4000	22014000	1056	1056	60	102	2	2638
NLA-5000	22015000	1320	1320	60	125	2	3246
NLA-7500	22017500	1980	1980	72	127	3	4005
NLA-10000	22019999	2640	2640	72	159	3	4845
NLA-15000	22019998	3963	3963	72	233	3	5925

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240°F; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG

For Sight Glass - Add $145.00 to List ($)

NLA-HP EXPANSION TANKS – ASME



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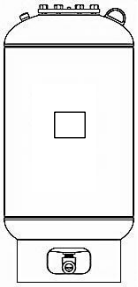

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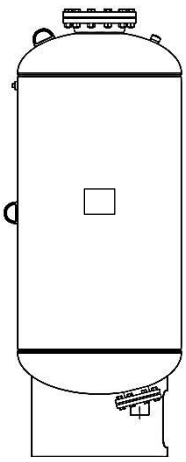


ASME

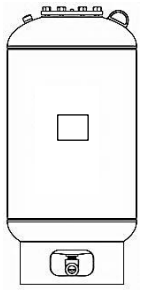
HIGH PRESSURE REMOVABLE BLADDER TANK

Model	Gal.	200 PSI		250 PSI	
		Part No.	Wt.(lbs.)	Part No.	Wt.(lbs.)
NLA-HP-35	10	22040035	52	22050035	53
NLA-HP-50	13	22040050	59	22050050	65
NLA-HP-85	23	22040085	95	22050085	105
NLA-HP-130	35	22040130	127	22050130	141
NLA-HP-200	53	22040200	194	22050200	220
NLA-HP-300	79	22040300	252	22050300	282
NLA-HP-400	106	22040400	336	22050400	410
NLA-HP-500	132	22040500	400	22050500	512
NLA-HP-600	158	22040600	419	22050600	569
NLA-HP-800L	211	22040805	592	22050805	711
NLA-HP-1000	264	22041000	698	22051000	830
NLA-HP-1200	317	22041200	905	22051200	1118
NLA-HP-1400	370	22041400	1107	22051400	1330
NLA-HP-1600	422	22041600	1413	22051600	1713
NLA-HP-2000	528	22042000	1643	22052000	2026
NLA-HP-2500	660	22042500	1935	22052500	2352
NLA-HP-3000L	792	22043000	2198	22053000	2782
NLA-HP-3000S	792	22043001	2694	22053001	2965
NLA-HP-4000	1056	22044000	3291	22054000	3736
NLA-HP-5000	1320	22045000	3858	22055000	4485
NLA-HP-7500	1980	22047500	5491	22057500	6583
NLA-HP-10000	2640	22049999	6796	22059999	8068
NLA-HP-15000	3963	22040000	9814	22050000	12030

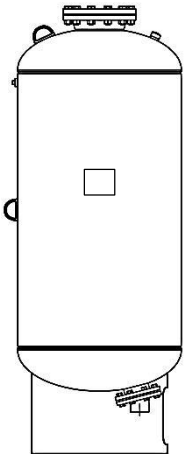
Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG; For vessel dimensions (diameter, height and system connection) refer to NLA price sheet or Submittal data.

For Sight Glass - Add $145.00 to List ($)

NVA EXPANSION TANKS – ASME



ASME



ASME

BOTTOM SYSTEM CONNECTION/REMOVABLE BLADDER TANK

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
NVA-85	22000085	23	23	16	37	1	90
NVA-130	22000130	35	35	20	37	1	125
NVA-200	22000200	53	53	24	43	1 1/2	210
NVA-300	22000300	79	79	24	55	1 1/2	225
NVA-400	22000400	106	106	30	49	1 1/2	300
NVA-500	22000500	132	132	30	57	1 1/2	335
NVA-600	22000600	158	158	30	65	1 1/2	360
NVA-800L	22000805	211	211	32	76	1 1/2	475
NVA-1000	22001000	264	264	36	87	1 1/4	735
NVA-1200	22001200	317	317	36	98 1/2	1 1/4	745
NVA-1400	22001400	370	370	36	110 1/2	1 1/4	900
NVA-1600	22001600	422	422	48	84	1 1/2	1210
NVA-2000	22002000	528	528	48	96	1 1/2	1305
NVA-2500	22002500	660	660	48	110	2	1430
NVA-3000L	22003000	792	792	48	133	2	1575
NVA-3000S	22003001	792	792	60	93	2	2169
NVA-4000	22004000	1056	1056	60	115	2 1/2	2638
NVA-5000	22005000	1320	1320	60	138	2 1/2	3246
NVA-7500	22007500	1980	1980	72	140	3	4080
NVA-10000	22009999	2640	2640	72	172	3	4920
NVA-15000	22000000	3963	3963	72	243	3	6000

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 12 PSIG

For Sight Glass - Add $145.00 to List ($)

WESSGUARD® RETROFIT FOR NLA

The bladder-style expansion tank function is to accept expanded water created during the thermal expansion process that occurs as heat energy increases the system water volume. The properly sized expansion tank will control pressure increases in the piping system based on the captured compressible air chamber within the tank to the designer's acceptable limits.

The system in its as-built state can differ from engineer design and functionality. Unwarranted pressure increases can severely affect the critical components of the heating or cooling system.

Factors that can affect the excessive pressure swings in the system:
Properly sized expansion tank
Properly installed and pre-charge adjusted expansion tank
Automatic fill station pressure set point
Automatic fill station pressure range drift (over time)
Free air (pockets and entrained) in the piping system
System pump location relative to the expansion tank
System fluid (water, glycol/water, etc.) temperature range

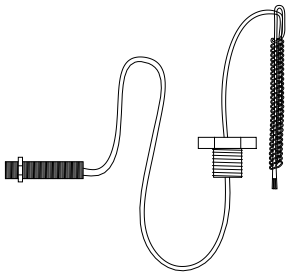
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. **WessGuard**® was developed to monitor the fluid within the expansion tank by determining excessive movement of the vessel bladder. **WessGuard**® incorporates a capacitive proximity sensor that determines if fluid levels in the expansion tank exceed "normal" operating conditions. Furthermore, if an expansion tank bladder is compromised, **WessGuard**® monitors the rising fluid level in the tank.

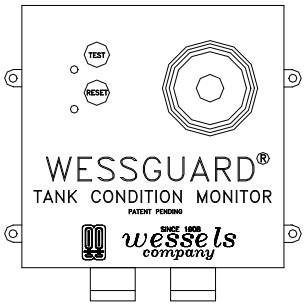
WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual LED and audible alarm. The **WessGuard**® monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - NLA

Model	Part No.	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER





Specify Standard or WessGuard-2® with Phone Texting Alerts

NL REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NL 15	03200015	NA	05200015
NL 20	03200020	NA	05200020
NL 30	03200030	NA	05200030
NL 60	03200090	NA	05200060
NL 80L	03200080	NA	05200080
NL 90L	03200090	NA	05200090
NL 40VL	03200140	NA	05200140
NL 60VL	03200160	NA	05200160
NL 90VL	03200190	NA	05200190
NL 110VL	03200210	NA	05201110
NL 160VL	03200260	NA	05201160

NLA REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NLA 35	02220035	NA	05220035
NLA 50	02220050	NA	05220050
NLA 85	02220085	04220085	05220085
NLA 130	02220130	04220130	05220130
NLA 200	02220200	04220200	05220200
NLA 300	02220300	04220300	05220300
NLA 400	02220400	04220400	05220400
NLA 500	02220500	04220500	05220500
NLA 600	02220600	04220600	05220600
NLA 800L	02220805	04220805	05220805
NLA 1000	9800220	NA	05221000
NLA 1200	9800240	NA	05221200
NLA 1400	9800260	NA	05221400
NLA 1600	9800280	NA	05221600
NLA 2000	9800300	NA	05222000
NLA 2500	9800305	NA	05222500
NLA 3000L	9800320	NA	05223000
NLA 3000S	9800325	NA	05223001
NLA 4000	9800340	NA	05224000
NLA 5000	9800360	NA	05225000
NLA 7500	9800380	NA	05227500
NLA 10000	9800390	NA	05220000

NLAP REPLACEMENT BLADDERS & COVERS

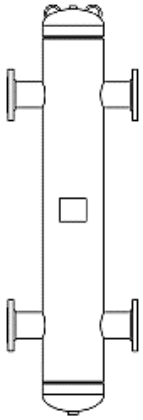
Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NLAP-40	02250040	NA	05220035
NLAP-60	02250060	NA	05220050
NLAP-100	02250100	NA	05220085
NLAP-150	02250150	NA	05220150
NLAP-220	02250220	NA	05220220
NLAP-325	02250325	NA	05220325
NLAP-400	02250400	NA	05220401
NLAP-560	02250560	NA	05220560
NLAP-600	02250600	NA	05220601
NLAP-700	02250700	NA	05220700
NLAP-815	02250815	NA	05220815
NLAP-950	02250950	NA	05220950
NLAP-1100	02251100	NA	05221100

NVA REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
NVA 85	02210085	04310085	05310085
NVA 130	02210130	04310130	05310130
NVA 200	02210200	04310200	05310200
NVA 300	02210300	04310300	05310300
NVA 400	02210400	04310400	05310400
NVA 500	02210500	04310500	05310500
NVA 600	02210600	04310600	05310600
NVA 800L	02210805	04310805	05310805
NVA 1000	02211000	04311000	05311000
NVA 1200	02211200	04311200	05311200
NVA 1400	02211400	04311400	05311400
NVA 1600	02211600	04311600	05311600
NVA 2000	02212000	04312000	05312000
NVA 2500	02212500	04312500	05312500
NVA 3000L	02213000	04313000	05313000
NVA 3000S	02213005	04313001	05313001
NVA 4000	02214000	04314000	05314000
NVA 5000	02215000	04315000	05315000
NVA 7500	02217500	04317500	05317500
NVA 10000	02219999	04310000	05310000

PSA PRIMARY/SECONDARY HEADER – ASME

WITH INTERNAL BAFFLE – 150 PSI



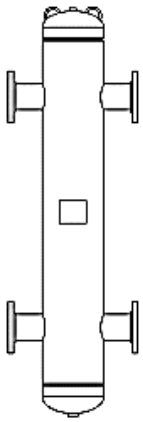
ASME

Model	Part No.	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSA-2	71002020	2	6 5/8	34 1/4	14 3/4	69	90
PSA-2.5	71002025	2 1/2	6 5/8	39 1/4	14 3/4	108	115
PSA-3	71002030	3	10 3/4	49 1/2	18 3/4	144	225
PSA-4	71002040	4	10 3/4	70 1/4	22 3/4	255	330
PSA-5	71002050	5	14	80 1/2	26	398	215
PSA-6	71002060	6	18	93 3/4	30	570	320
PSA-8	71002080	8	24	122 3/4	36	945	575
PSA-10	71002100	10	30	149 1/4	42	1440	935
PSA-12	71002120	12	30	179 1/2	42	2100	1165
PSA-14	71002140	14	42	199 1/4	54	2550	2430
PSA-16	71002160	16	48	224 1/4	60	3300	3260

Materials = Steel Shell;
Maximum Pressure = 150 psig; Maximum Temperature = 450ºF;
Finish = Primer Painted Exterior;
Support Legs Standard on Models PSA-6 and Up.

PSAV PRIMARY/SECONDARY HEADER – ASME

WITH WESSVENT AIR/DIRT SEPARATION – 150 PSI



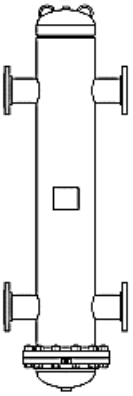
ASME

Model	Part No.	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSAV-2	71102020	2	6 5/8	34 1/4	14 3/4	69	120
PSAV-2.5	71102025	2 1/2	6 5/8	39 1/4	14 3/4	108	145
PSAV-3	71102030	3	10 3/4	49 1/2	18 3/4	144	270
PSAV-4	71102040	4	10 3/4	70 1/4	22 3/4	255	380
PSAV-5	71102050	5	14	80 1/2	26	398	280
PSAV-6	71102060	6	18	93 3/4	30	570	375
PSAV-8	71102080	8	24	122 3/4	36	945	635
PSAV-10	71102100	10	30	149 1/4	42	1440	995
PSAV-12	71102120	12	30	179 1/2	42	2100	1250
PSAV-14	71102140	14	42	199 1/4	54	2550	2480
PSAV-16	71102160	16	48	224 1/4	60	3300	3310

Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 psig; Maximum Temperature = 450ºF;
Finish = Primer Painted Exterior;
Support Legs Standard on Models PSAV-6 and Up.

PSAVR PRIMARY/SECONDARY HEADER – ASME

WITH REMOVABLE WESSVENT AIR/DIRT SEPARATOR – 150 PSI



ASME

Model	Part No.	Conn.	Dia.	Height	Width	Flow (GPM)	Wt. (Lbs.)
PSAVR-2	71302020	2	6 5/8	34 1/4	14 3/4	69	162
PSAVR-2.5	71302025	2 1/2	6 5/8	39 1/4	14 3/4	108	187
PSAVR-3	71302030	3	10 3/4	49 1/2	18 3/4	144	354
PSAVR-4	71302040	4	10 3/4	70 1/4	22 3/4	255	464
PSAVR-5	71302050	5	14	80 1/2	26	398	444
PSAVR-6	71302060	6	18	93 3/4	30	570	625
PSAVR-8	71302080	8	24	122 3/4	36	945	1075
PSAVR-10	71302100	10	30	149 1/4	42	1440	1733
PSAVR-12	71302120	12	30	179 1/2	42	2100	1988
PSAVR-14	71302140	14	42	199 1/4	54	2550	4138
PSAVR-16	71302160	16	48	224 1/4	60	3300	5142

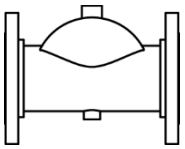
Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF;
Finish = Primer Painted Exterior.
Support Legs Standard on Models PSAVR-6 and Up.

SEVERE SERVICE PRODUCTS 10

Severe Service Products are designed for applications for commercial and industrial systems that require internal and external protection more robust than traditional fabricated steel designs. These products include stainless Air Purgers & ASME Separators, stainless ASME Plain Steel Tanks, and stainless & epoxy lined (interior & exterior) ASME bladder tanks.

SS-AP INLINE AIR PURGERS – ASME

FABRICATED STAINLESS STEEL



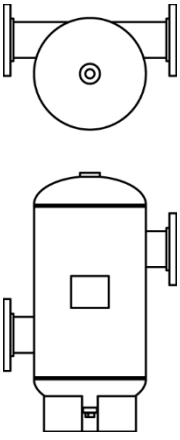
ASME

Model	Part No.	Line Size	Ht.	Lng.	Ship Wt (lbs.)
SS-AP-104	37630040	4	5	16	55
SS-AP-105	37630050	5	7 1/2	20	60
SS-AP-106	37630060	6	8 1/2	24	65
SS-AP-108	37630080	8	11 1/4	32	110
SS-AP-110	37630100	10	14	40	165
SS-AP-112	37630120	12	16 3/4	48	315
SS-AP-114	37630140	14	22	56	475
SS-AP-116	37630160	16	24	48	315
SS-AP-118	37630180	18	28	72	545

Materials = Fabricated Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF; Finish = Primer Painted Exterior
Conforms to ASME requirements.

SS-SPA TANGENTIAL AIR SEPARATORS – ASME

STAINLESS STEEL SEPARATOR LESS STRAINER

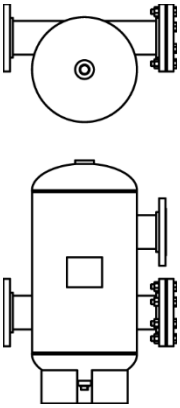


ASME

Model	Part No.	Size	Type	Ht.	Wdth.	Wt. (lbs.)
SS-SPA 2	72050020	2	NPT	22 1/2	16 5/8	73
SS-SPA 2.5	72050025	2 1/2	NPT	24 1/8	16 5/8	75
SS-SPA 3	72050030	3	FLNG	23 1/2	19 3/4	95
SS-SPA 4	72050040	4	FLNG	32	21 3/4	122
SS-SPA 5	72050050	5	FLNG	32	21 3/4	138
SS-SPA 6	72050060	6	FLNG	44	28	222
SS-SPA 8	72050080	8	FLNG	44	28	259
SS-SPA 10	72050100	10	FLNG	60 1/2	41	556
SS-SPA 12	72050120	12	FLNG	60 1/2	41	627
SS-SPA 14	72050140	14	FLNG	78	46 3/8	882
SS-SPA 16	72050160	16	FLNG	108	60	1906
SS-SPA 18	72050180	18	FLNG	124	66	2555
SS-SPA 20	72050200	20	FLNG	138	72	2633
SS-SPA 22	72050220	22	FLNG	150	78	3831
SS-SPA 24	72050240	24	FLNG	150	80	4130

Materials = Stainless Steel; Maximum Pressure = 125 PSIG;
Maximum Temperature = 450ºF; Finish = Primer Painted Exterior

SS-SPA-S STAINLESS STEEL SEPARATOR WITH STRAINER

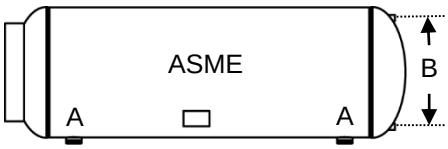


ASME

Model	Part No.	Size	Type	Ht.	Wdth.	Wt. (lbs.)
SS-SPA 2S	72060020	2	NPT	24 1/2	16 5/8	72
SS-SPA 2.5S	72060025	2 1/2	NPT	24 1/2	16 5/8	100
SS-SPA 3S	72060030	3	FLNG	25	19 3/4	108
SS-SPA 4S	72060040	4	FLNG	32	21 3/4	159
SS-SPA 5S	72060050	5	FLNG	32	21 3/4	180
SS-SPA 6S	72060060	6	FLNG	44	28	298
SS-SPA 8S	72060080	8	FLNG	44	28	372
SS-SPA 10S	72060100	10	FLNG	60 1/2	41	840
SS-SPA 12S	72060120	12	FLNG	60 1/2	41	868
SS-SPA 14S	72060140	14	FLNG	78	46 3/8	1160
SS-SPA 16S	72060160	16	FLNG	108	60	2308
SS-SPA 18S	72060180	18	FLNG	124	66	3039
SS-SPA 20S	72060200	20	FLNG	138	72	3980
SS-SPA 22S	72060220	22	FLNG	150	78	4261
SS-SPA 24S	72060240	24	FLNG	160	78	4932

Materials = Stainless Steel; Maximum Pressure = 125 PSIG;
Maximum Temperature = 450ºF; Finish = Primer Painted Exterior

SSNA COMPRESSION TANKS – ASME



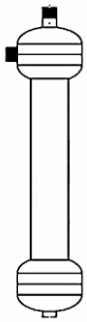
STAINLESS PLAIN STEEL

Model	Part No.	Gal.	Dia	Length	Conn. A	Dist. B	Ship Wt. (lbs.)
SS12NA33	28012033	15	12	33	1"	8	86
SS12NA51	28012051	24	12	51	1"	8	108
SS14NA48	28014048	30	14	48	1"	10	121
SS14NA63	28014063	40	14	63	1"	10	166
SS16NA72	28016072	60	16	72	1"	12	214
SS20NA62	28020062	80	20	62 1/2	1"	16	228
SS20NA78	28020078	100	20	78	1"	16	283
SS24NA65	28024065	120	24	65	1"	20	290
SS24NA72	28024072	135	24	72	1"	20	318
SS30NA62	28030062	175	30	62 1/4	1-1/2"	22	362
SS30NA77	28030077	220	30	77	1-1/2"	22	438
SS30NA84	28030084	240	30	84	1-1/2"	22	474
SS36NA72	28036072	295	36	72	1-1/2"	28	624
SS36NA93	28036093	400	36	92 1/2	1-1/2"	28	770

Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450ºF;
Finish = Primer; Sight glass tappings are ½" NPT; Base stands included on all models

SS-CFS CENTRIFUGAL SOLIDS SEPARATOR – Non-ASME

STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN

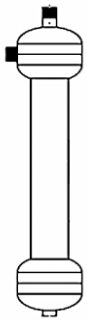


Model	Part No.	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
SS-CFS-50	69010050	19	6	1/2	5 - 10	11
SS-CFS-75	69010075	19	6	3/4	10 - 20	14
SS-CFS-100	69010100	29	6	1	17 - 32	21
SS-CFS-125	69010125	29	6	1 1/4	28 - 50	21
SS-CFS-150	69010150	29	6	1 1/2	45 - 70	22
SS-CFS-200	69010200	32	8 5/8	2	70 - 110	41
SS-CFS-250	69010250	35 1/2	8 5/8	2 1/2	100 - 160	45
SS-CFS-300	69010300	39	10 3/4	3	150 - 250	78

NON-ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF
Also available in 200 & 250 psi rated models

SS-CFA CENTRIFUGAL SOLIDS SEPERATOR – ASME

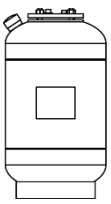
STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN



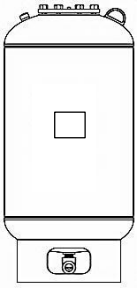
Model	Part No.	Ht.	Dia.	Syst. Conn.	Flow Range (GPM)	W t. (Lbs.)
SS-CFA-50	69011050	19	6	1/2	5 - 10	11
SS-CFA-75	69011075	19	6	3/4	10 - 20	14
SS-CFA-100	69011100	29	6	1	17 - 32	21
SS-CFA-125	69011125	29	6	1 1/4	28 - 50	21
SS-CFA-150	69011150	29	6	1 1/2	45 - 70	22
SS-CFA-200	69011200	32	8 5/8	2	70 - 110	41
SS-CFA-250	69011250	35 1/2	8 5/8	2 1/2	100 - 160	45
SS-CFA-300	69011300	39	10 3/4	3	150 - 250	78

ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF
Also available in 200 & 250 psi rated models

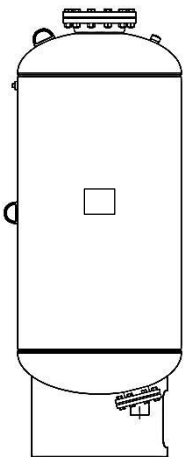
SSFXA REMOVABLE BLADDER TANKS – ASME



ASME



ASME



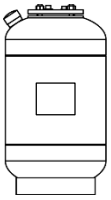
ASME

STAINLESS STEEL REMOVABLE BLADDER

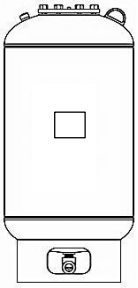
Model	Part No.	Gal.	Dia.	Ht.	Syst. Con.	Wt. (Lbs.)
SSFXA 35	26010035	10	12	23 1/2	3/4	63
SSFXA 50	26010050	13	14	24	3/4	76
SSFXA 85	26010085	23	16	37	1	141
SSFXA 130	26010130	35	20	37	1	151
SSFXA 200	26010200	53	24	43	1 1/2	243
SSFXA 300	26010300	79	24	55	1 1/2	279
SSFXA 400	26010400	106	30	49	1 1/2	333
SSFXA 500	26010500	132	30	57	2	398
SSFXA 600	26010600	158	30	65	2	440
SSFXA 700	26010700	185	30	80	2	401
SSFXA 800L	26010805	211	32	76	2	404
SSFXA 1000	26011000	264	36	87	3	735
SSFXA 1200	26011200	317	36	98	3	745
SSFXA 1400	26011400	370	36	111	3	900
SSFXA 1600	26011600	422	48	84	3	1210
SSFXA 2000	26012000	528	48	96	3	1305
SSFXA 2500	26012500	660	48	114	4	1430
SSFXA 3000L	26013000	792	48	134	4	1575
SSFXA 4000	26014000	1056	60	115	4	2638
SSFXA 5000	26015000	1320	60	138	4	3246

Materials = Stainless Steel Shell, Heavy Duty Butyl Bladder;
Maximum Pressure = 125 PSIG; Maximum Temperature = 240ºF;
Finish = Bead blast Exterior; Factory Pre-charge = 30 PSIG

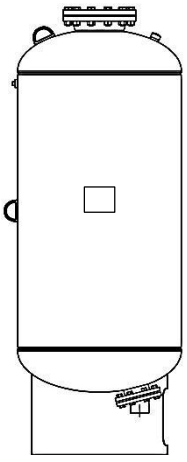
EPFXA EPOXY-LINED BLADDER TANKS – ASME



ASME



ASME



ASME

EPOXY REMOVABLE BLADDER

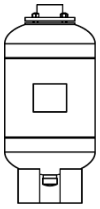
Model	Part No.	Gal.	Dia.	Ht.	Syst. Con.	Wt. (Lbs.)
EPFXA 35	27010035	10	12	23 1/2	3/4	40
EPFXA 50	27010050	13	14	24	3/4	50
EPFXA 85	27010085	23	16	37	1	90
EPFXA 130	27010130	35	20	37	1	125
EPFXA 200	27010200	53	24	43	1 1/2	210
EPFXA 300	27010300	79	24	55	1 1/2	225
EPFXA 400	27010400	106	30	49	1 1/2	300
EPFXA 500	27010500	132	30	57	2	330
EPFXA 600	27010600	158	30	65	2	360
EPFXA 700	27010700	185	30	80	2	401
EPFXA 800L	27010805	211	32	76	2	475
EPFXA 1000	27011000	264	36	87	3	735
EPFXA 1200	27011200	317	36	98	3	745
EPFXA 1400	27011400	370	36	111	3	900
EPFXA 1600	27011600	422	48	84	3	1210
EPFXA 2000	27012000	528	48	96	3	1305
EPFXA 2500	27012500	660	48	114	4	1430
EPFXA 3000L	27013000	792	48	134	4	1575
EPFXA 4000	27014000	1056	60	115	4	2638
EPFXA 5000	27015000	1320	60	138	4	3246

Materials = Carbon Steel Shell, Internally NSF Epoxy Lined, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 180ºF; Finish = Epoxy Lined Exterior; Factory Pre-charge = 30 PSIG

SHOCK & SURGE TANKS 11

Shock & Surge Tanks are specially designed hydro-pneumatic tanks used to absorb the harmful water hammer pressure wave in a piping system. When properly sized, these tanks are designed to capture the kinetic energy wave of a quick-closing valve (or other offending fixture) and limit the pressure spike that is otherwise created. Typically used in water well systems, municipal water distribution lines, pressure booster systems, and industrial water distribution systems.

SSA SHOCK & SURGE TANKS – ASME



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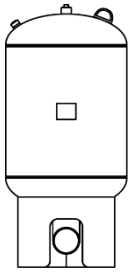
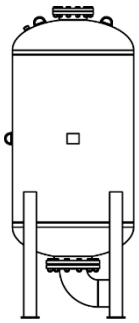


ASME



ASME

REMOVABLE BLADDER TANK

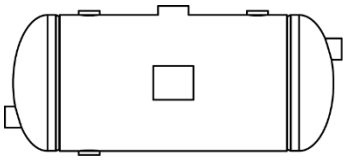
Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
SSA 35	26050035	10	10	12	26	2 1/2	63
SSA 50	26050050	13	13	14	26	2 1/2	74
SSA 85	26050085	23	23	16	30 1/2	3G	116
SSA 130	26050130	35	35	20	30 1/2	3G	135
SSA 200	26050200	53	53	24	46 1/2	4G	250
SSA 300	26050300	79	79	24	58 1/2	4G	360
SSA 400	26050400	106	106	30	52 1/2	4G	430
SSA 500	26050500	132	132	30	63	6G	525
SSA 600	26050600	158	158	30	71	6G	640
SSA 700	26050700	185	185	30	81 1/2	6G	749
SSA 800L	26050800	211	211	32	84	6G	760
SSA 1000	26051000	264	264	36	85	10F	830
SSA 1200	26051200	317	317	36	107	10F	1118
SSA 1400	26051400	370	370	36	119	10F	1330
SSA 1600	26051600	422	422	48	92	10F	1713
SSA 2000	26052000	528	528	48	105	10F	2026
SSA 2500	26052500	660	660	48	122	10F	2352

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 250 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

G = Grooved Pipe Connection

F = Flanged Connection

SIZING FTA STEAM CONDENSATE FLASH TANKS



ASME

FLASH TANK SIZING

INFORMATION REQUIRED

TOTAL FLOW (LIQ. & VAPOR)		LBS/HR
INLET PRESSURE		PSIG
OUTLET PRESSURE		PSIG

SIZING

FROM CHART (BELOW)

AREA FACTOR		AF
TOTAL DISENGAGING AREA (AF X TOTAL FLOW)/1000		SQ.FT.

SELECTION

MODEL	DISENG. AREA (SQ. FT.)
FTA 13	2.71
FTA 18	3.25
FTA 24	3.79
FTA 30	4.22
FTA 48	6.00
FTA 80	7.67
FTA 125	10.00
FTA 180	12.00

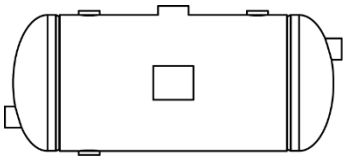
MODEL:

AREA FACTOR CHART (AF)

INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG) 0	2	5	10	15	20	30	40	60	80	100
400	5.41	4.70	3.89	3.01	2.44	2.03	1.49	1.15	0.77	0.56	0.42
350	5.14	4.45	3.66	2.84	2.28	1.91	1.38	1.07	0.70	0.51	0.37
300	4.86	4.15	3.42	2.62	2.11	1.75	1.26	0.96	0.62	0.44	0.31
250	4.41	3.82	3.12	2.39	1.91	1.56	1.11	0.85	0.52	0.37	0.25
200	3.98	3.40	2.80	2.12	1.68	1.37	0.97	0.72	0.43	0.28	0.18
175	3.75	3.20	2.61	1.95	1.57	1.26	0.87	0.64	0.38	0.23	0.15
160	3.60	3.08	2.50	1.86	1.46	1.19	0.80	0.59	0.34	0.21	0.12
150	3.48	2.98	2.41	1.80	1.40	1.14	0.77	0.56	0.31	0.19	0.10
140	3.36	2.86	2.31	1.72	1.35	1.08	0.72	0.52	0.29	0.16	0.08
130	3.24	2.76	2.23	1.65	1.29	1.02	0.67	0.49	0.26	0.14	0.07
120	3.12	2.65	2.15	1.57	1.22	0.97	0.64	0.44	0.23	0.12	0.04
110	2.99	2.52	2.05	1.50	1.15	0.91	0.58	0.40	0.20	0.09	0.02
100	2.85	2.41	1.92	1.40	1.07	0.85	0.53	0.36	0.16	0.06	
90	2.68	2.26	1.81	1.30	0.99	0.77	0.48	0.31	0.13	0.05	
80	2.52	2.12	1.67	1.18	0.90	0.68	0.42	0.25	0.09		
70	2.34	1.95	1.55	1.08	0.81	0.61	0.35	0.20	0.04		
60	2.14	1.77	1.39	0.96	0.70	0.52	0.27	0.14			
50	1.94	1.59	1.22	0.81	0.58	0.41	0.20	0.08			
40	1.68	1.36	1.02	0.67	0.44	0.30	0.11				
30	1.40	1.10	0.81	0.50	0.29	0.16					
20	1.06	0.81	0.55	0.28	0.12						
12	0.75	0.48	0.28								
10	0.62	0.42	0.23								

FTA STEAM CONDENSATE FLASH TANKS - ASME

HORIZONTAL FLASH TANKS

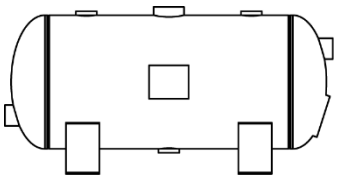


ASME

Model	Part No.	Gal.	Dia.	Ht.	Ship Wt. (lbs.)
FTA-13	17010039	13	10	39	79
FTA-18	17012039	18	12	39	94
FTA-24	17014039	24	14	39	108
FTA-30	17016010	30	16	38	121
FTA-48	17018010	48	18	48	168
FTA-80	17024010	80	24	46	214
FTA-125	17030010	125	30	48	285
FTA-180	17036010	180	36	48	339

Materials = Steel; Maximum Pressure = 150 PSIG for FTA-13 to FTA-30 and 125 PSIG for all other models; Maximum Temperature = 450ºF; Finish = Primer Painted Exterior

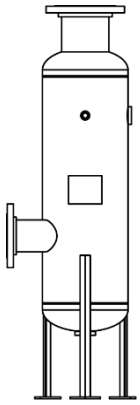
CONFIGURATION ADDERS



ASME

Model	Sparge	Drop Pipe	Saddles	Handhole
FTA 13 **FTA 18** **FTA 24**				
FTA 30 **FTA 48** **FTA 80**				
FTA 125 **FTA 180**				

For saddles welded to the tank, refer to custom tank pricing (page 10.4).
Sparge for FTA-13 through FTA-48 furnished with 20 – 3/8" holes;
Sparge for FTA-80 through FTA-180 furnished with 32 – 3/8" holes;
Handhole limits Max. Temperature to 400ºF



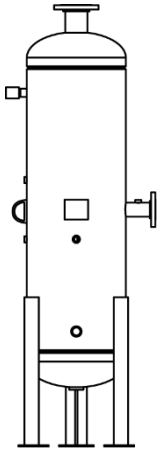
ASME

VERTICAL FLASH TANKS

Model	Gal.	Dia.	Ht.	Inlet	Vent	Wt. (Lbs.)
FTA-6V	4	6	50	2	2 1/2	82
FTA-8V	7	8	52	3	4	64
FTA-12V	17	12	55 1/2	4	6	104
FTA-16V	37	16	63 1/2	6	6	170

Materials = Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450ºF; Finish = Primer Painted Exterior

BDT STEAM BLOWDOWN TANKS



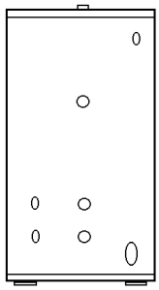
ASME

Model	Part no.	Dia.	Ht.	Boiler Design Press.	Steam Vent Size "A"	Blow-down Size "B"	Water Outlet Size "C"	Water Inlet Size "D"	Ship Wt. (lbs.)
BDT 21	52010021	14	66		2	3/4	1 1/2	3/4	411
BDT 22	52010022	14	66	1	2	1	1 1/2	1	411
BDT 23	52010023	14	66	to	2	1 1/4	2 1/2	1 1/4	411
BDT 24	52010024	14	66	50	2 1/2	1 1/2	2 1/2	1 1/2	411
BDT 25	52010025	18	72	psig	3	2	4	2	583
BDT 26	52010026	20	72		4	2 1/2	4	2	635
BDT 51	52010051	14	66		2	3/4	1 1/2	1	411
BDT 52	52010052	14	66	51	2 1/2	1	2	1 1/4	411
BDT 53	52010053	18	72	to	3	1 1/4	3	1 1/2	583
BDT 54	52010054	18	72	100	4	1 1/2	4	2	583
BDT 55	52010055	24	72	psig	5	2	4	2 1/2	775
BDT 56	52010056	30	78		6	2 1/2	5	2 1/2	1007
BDT 101	52010101	14	66	101	2 1/2	3/4	2	1	411
BDT 102	52010102	14	66	to	3	1	3	1 1/4	411
BDT 103	52010103	20	72	150	4	1 1/4	3	1 1/2	635
BDT 104	52010104	24	72	psig	5	1 1/2	4	2	775
BDT 151	52010151	14	66		3	3/4	2	1	411
BDT 152	52010152	18	72	151	4	1	2 1/2	1 1/4	583
BDT 153	52010153	24	72	to	5	1 1/4	3	2	775
BDT 154	52010154	30	78	200	6	1 1/2	4	2	1007
BDT 156	52010156	48	78	psig	8	2 1/2	5	3	1685
BDT 201	52010201	18	72		4	1 1/4	2	1 1/4	583
BDT 202	52010202	24	72	201	5	1 1/2	2 1/2	1 1/2	775
BDT 203	52010203	30	78	to	6	2	4	2	1007
BDT 204	52010204	36	78	300	6	2 1/2	4	2 1/2	1148
BDT 205	52010205	48	78	psig	8	3	5	3	1685
BDT 206	52010206	54	84		10	3	6	3	1955
BDT 301	52010301	20	72		4	1 1/4	2 1/2	1 1/4	635
BDT 302	52010302	24	72	301	5	1 1/2	3	1 1/2	775
BDT 304	52010304	42	78	to	8	2 1/2	4	2 1/2	1486
BDT 305	52010305	54	84	400	10	3	5	3	1955
BDT 306	52010306	66	84	psig	10	4	6	4	2417
BDT 401	52010401	20	72	401	4	1 1/4	2 1/2	1 1/4	635
BDT 404	52010404	48	78	to	8	2 1/2	4	2 1/2	1685
BDT 405	52010405	60	84	500	10	3	5	3	2233
BDT 406	52010406	72	84	psig	12	4	8	4	2715
BDT 501	52010501	24	72		5	1 1/4	2 1/2	1 1/4	775
BDT 502	52010502	30	78	501	6	1 1/2	3	1.5	1007
BDT 503	52010503	42	78	to	8	2 1/2	4	2 1/2	1486
BDT 504	52010504	54	84	600	10	2 1/2	5	2 1/2	1955
BDT 505	52010505	66	84	psig	12	3	6	3	2417
BDT 506	52010506	72	84		12	4	8	4	2715
BDT 602	52010602	36	78		6	1 1/4	3	1 1/2	1148
BDT 603	52010603	48	78	601	8	2	4	2	1685
BDT 604	52010604	60	84	to	10	2 1/2	5	2 1/2	2233
BDT 605	52010605	72	84	800	12	3	6	3	2715
BDT 606	52010606	72	84	psig	12	4	8	4	2715

Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F;
Finish = Primer Painted Exterior

STORAGE TANKS: GLASSLINED

Glasslined storage tanks are used to store cold or hot potable water. Typically used in **domestic hot water storage** systems.

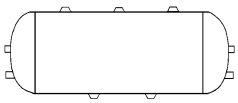


ASME & Non-ASME

JACKETED AND INSULATED TANKS – ASME & Non-ASME

Model	Part No.	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
GN 120VJ	34024069	120	29 1/2	62	150	320
GA 120VJ	34028062	120	28	61 3/4	160	400
GA 200VJC	34029077	200	32	77	125	560
GA 200VJ	34030077	175	36	83	125	615
GA 250VJ	34020078	250	36	93	125	900
GA 350VJ	34036087	350	42	97	125	940
GA 400VJ	34036098	400	42	105	125	1,012
GA 500VJ	34044088	500	54	84	125	1,658
GA 750VJ	34048106	750	54	116	125	2,094
GA 1000VJ	34049138	1000	54	150	125	3,328

Materials = Glass-lined steel vessel; Maximum Temperature = 180ºF;
Finish = Urethane Paint Exterior; Furnished with Magnesium Anode Rods.
Horizontal Models available – Consult Factory



ASME

NON-JACKETED TANKS - ASME

Model	Part No.	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
GA 200V	34028077	200	28	77	125	415
GA 200M	34032077	200	30	72	125	460
GA 350M	34036086	350	36	88	125	670
GA 400M	34036097	400	36	97	125	775
GA 500M	34042088	500	42	89	125	815
GA 750M	34048105	750	48	106	125	1,290
GA 1000M	34048138	1000	48	138	125	1,655
GA 1250M	44054129	1250	54	129	125	2,451
GA 1500M	34054153	1500	54	153	125	2,810

Materials = Glass-lined steel vessel; Maximum Temperature = 180ºF;
Finish = Red Oxide Primer Exterior; Furnished with Magnesium Anode Rods;
"M" Models have Threaded Leg Sockets to Equip Pipe Legs (Not Included) for Vertical Mounting.

Code	Description
A	ASME
C	Compact
G	Glass Lined
J	Jacketed & Insulated
M	Horizontal or Vertical Mounting
N	Non-ASME
V	Vertical Mounting

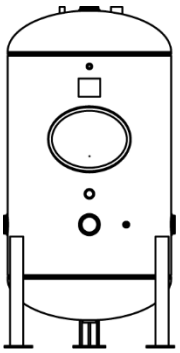
SADDLES

Diameter	Wt. Per Pair
30"	50 lbs.
36"	56 lbs.
42"	93 lbs.
48"	115 lbs.
54"	148 lbs.

STORAGE TANKS: EPOXY LINED

Epoxy lined storage tanks are used to store cold or hot potable water. Typically used **in domestic hot water storage** systems.

NON-JACKETED TANKS - ASME



ASME

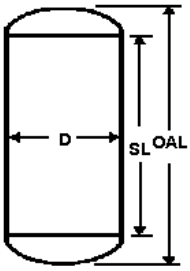
Model	Part No.	Gal.	Dia.	Height	Max. Oper. Pressure	Weight (Lbs.)
EA-140	35000140	140	24	81	150	350
EA-190	35000190	190	30	72	150	460
EA-225	35000225	225	30	84	150	510
EA-268	35000268	268	36	74	150	810
EA-320	35000320	320	36	86	150	890
EA-388	35000388	388	36	99	150	900
EA-375	35000375	375	42	76 3/4	150	980
EA-450	35000450	450	42	89 3/4	150	1,110
EA-535	35000535	535	42	102	150	1,225

Materials = NSF Listed Epoxy-Lined steel vessel;
Maximum Temperature = 180ºF; Finish = Primer Paint Exterior

STORAGE TANKS: CUSTOM

Custom tanks are used for the storage of fluids and can have commercial and industrial applications. Specific linings are available for the protection of the tank inner steel walls. Custom tanks are available in 16" to 72" diameter and up to 216" over head dimensions. 125 psi rated tanks.

PLAIN STORAGE TANK WITH STANDARD FITTINGS



ASME

Dia (in.)	OAL (in.)	Shell Length	Cap. (gal.)	Black Wt.	Black	Glass	Epoxy	Cement	Ins. Jacket
16	48	39	40	87					
	60	61	50	102					
20	48	37	65	131					
	60	49	80	160					
	72	61	100	189					
24	48	35	95	157					
	60	47	115	190					
	72	59	140	222					
	84	71	165	290					
	96	83	185	356					
30	48	31	145	230					
	60	43	180	276					
	72	55	220	323					
	84	67	250	370					
	96	79	290	418					
	120	103	365	511					
36	60	40	265	411					
	72	52	315	479					
	84	64	370	547					
	96	76	400	615					
	120	100	525	752					
42	72	49	430	712					
	84	61	500	804					
	96	73	575	895					
	120	97	720	1077					
	144	121	860	1259					
	168	145	1000	1441					
	192	169	1150	1624					
48	84	57	650	1118					
	96	69	750	1236					
	120	93	940	1470					
	144	117	1125	1705					
	168	141	1315	1938					
	192	165	1500	2174					
54	96	65	950	1782					
	120	89	1190	2110					
	144	113	1425	2440					
	168	137	1665	2765					
	192	161	1900	3092					
	216	185	2140	3420					
60	120	86	1465	3045					
	144	110	1760	3443					
	168	134	2055	3841					
	192	158	2350	4239					
	216	182	2640	4637					
72	120	84	2115	4523					
	144	108	2560	5096					
	168	132	2960	5669					
	192	156	3385	6242					
	216	180	3800	6815					

STANDARD FITTINGS

ALL CUSTOM TANK PRICES INCLUDE A QUANTITY OF UP TO SIX THREADED OPENINGS PER THE TABLE BELOW. THERE IS NO DEDUCTION ON ANY TANK REQUIRING LESS THAN SIX TAPPINGS.

Tank Diameter (in.)	16-20	24-30	36-42	48-54	60-72
Size Tapping (in.)	1	1 1/2	2	2 1/2	3

Pipe Size (In.)	Forged Steel Threaded	Stainless Steel Threaded	150# Slip-On Flange	150# Slip-On w/Blind Flange
to 1-1/2				
2				
2 1/2				
3				
4				
5				
6				
8				
10				
12				
14				

INSPECTION OPENINGS

Black Steel – 12 x 16" manhole standard on 42" dia. and larger

Epoxy lined – 11" x 15" manhole standard on 30" dia. and larger

Glass-lined – manhole or handhole is available as optional feature

HANDHOLES & MANHOLES Size (in.)
4 x 6 Handhole
6 x 8 Handhole
11 x 15 Manhole
12 x 16 Manhole
14 x 18 Manhole

Cement lined – 11" x 15" manhole standard on 30" dia. and larger

OTHER FITTINGS

Hold Down Clips – 16" to 36" Dia
– 42" to 60" Dia
– 72" Dia
Lift Lug

BASE OPTIONS

SADDLES

Tank Dia. (in.)	Weight Per Pair (lbs.)	Extra To Weld Saddles
10	10	
12	12	
14	15	
16	21	
20	29	
24	35	
30	49	
36	57	
42	88	
48	115	
54	148	
60	171	
66	214	
72	257	

FOR ADDITIONAL CLEARANCE, SADDLES CAN BE PROVIDED WITH THREADED FITTINGS FOR PIPE LEGS (NOT INCLUDED).

Tank Diameter	Add For Saddle Taps
16" thru 36"	
42" thru 72"	

BASE RING

Tank Dia. (in.)	Wt. (lbs.)
16	11
20	20
24	23
30	31
36	52
42	78
48	139
54	145
60	275
72	480

BASE CLEARANCE
16" TO 42" DIA. - 7"
48" TO 72" DIA. - 9"

ANGLE LEGS

Tank Dia. (in.)	Wt. (lbs.)
16	36
20	36
24	36
30	70
36	70
42	120
48	120
54	305
60	305
72	305

LEG CLEARANCE - 12"

*ANGLE LEGS INCLUDE FOOT PADS.

Add TUBE BUNDLE OPTION

"A"

- Includes collar and heating bundle installed in vessel
- Standard units are furnished with cast iron heads, ¾" O.D. copper tubes, steel tube sheets, steel collars, brass tube supports, gaskets, nuts and bolts
- When ordering, specify "TWC" for water in tubes or "TCS" for steam in tubes
- Standard units are ASME construction

"B"

- Includes only installation price for collars and bundles supplied by customer
- A customer supplied tube bundle/collar must be provided to Wessels freight prepaid with ASME partial data reports prior to fabrication

4" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)
TCW-TCS-412	12	2.1	29
TCW-TCS-418	18	3.3	30
TCW-TCS-424	24	4.5	32
TCW-TCS-430	30	5.6	33
TCW-TCS-436	36	6.8	35
TCW-TCS-442	42	8	36
TCW-TCS-448	48	9.2	38
TCW-TCS-454	54	10.4	39
TCW-TCS-460	60	11.5	41
TCW-TCS-466	66	12.7	42
TCW-TCS-472	72	13.9	44
TCW-TCS-484	84	16.3	47
TCW-TCS-496	96	18.6	50

6" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)
TCW-TCS-612	12	3.3	51
TCW-TCS-618	18	5.6	56
TCW-TCS-624	24	8	61
TCW-TCS-630	30	10.3	66
TCW-TCS-636	36	12.7	71
TCW-TCS-642	42	15	76
TCW-TCS-648	48	17.4	81
TCW-TCS-654	54	19.7	86
TCW-TCS-660	60	22.1	91
TCW-TCS-666	66	24.4	96
TCW-TCS-672	72	26.8	101
TCW-TCS-684	84	31.5	111
TCW-TCS-696	96	36.2	121

8" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)
TCW-TCS-818	18	11	97
TCW-TCS-824	24	15	107
TCW-TCS-830	30	19	117
TCW-TCS-836	36	23	127
TCW-TCS-842	42	27	137
TCW-TCS-848	48	32	147
TCW-TCS-854	54	36.5	157
TCW-TCS-860	60	41	167
TCW-TCS-866	66	45	177
TCW-TCS-872	72	49	187
TCW-TCS-884	84	58	207
TCW-TCS-890	96	67	227

10" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)
TCW-TCS-1024	24	27	198
TCW-TCS-1030	30	34.5	209
TCW-TCS-1036	36	42	220
TCW-TCS-1042	42	49.5	231
TCW-TCS-1048	48	56	242
TCW-TCS-1054	54	63.5	243
TCW-TCS-1060	60	71	264
TCW-TCS-1066	66	78.5	275
TCW-TCS-1072	72	86	286
TCW-TCS-1084	84	101	308
TCW-TCS-1096	96	116	330

12" SERIES Model Number	Length of Bundle	Sq. Ft. Heating Surface	Approx. Weight (lbs.)
TCW-TCS-1236	36	61	297
TCW-TCS-1242	42	72	321
TCW-TCS-1248	48	83	345
TCW-TCS-1254	54	94	369
TCW-TCS-1260	60	104	393
TCW-TCS-1266	66	115	417
TCW-TCS-1272	72	126	441
TCW-TCS-1278	78	137	465
TCW-TCS-1284	84	147	489
TCW-TCS-1296	96	169	537

COIL DATA		**WATER IN TUBES**		**STEAM IN TUBES**	
Unit Diameter (in.)	Working Pressure (psi)	Inlet NPT (in.)	Outlet NPT (in.)	Inlet NPT (in.)	Outlet NPT (in.)
4	150	1 1/4	1 1/4	1 1/4	3/4
6	150	2	2	2	1
8	150	3	3	3	1 1/4
10	125	4	4	4	2
12	125	4	4	4	2

MAXIMUM OPERATING TEMPERATURE: 375°F

NOTES: 1. For vertical installation, select coil with required square foot area but with tube bundle not to exceed tank diameter.
2. Larger tube bundle diameters, 1 ¼" bundles and double wall bundles available on request.

THERMAL EXPANSION TANKS 14

Thermal tanks are used to absorb the additional volume of potable water created by a domestic water heater. Properly sized, the tank will maintain system pressures below relief valve settings. Typically used in **domestic water heating** systems or other systems where **corrosive system fluid requires stainless or corrosive resistant wetted parts.**

SIZING THERMAL EXPANSION TANKS

To properly size a thermal expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons) – Includes water heater(s) and re-circ. line volume
- Minimum In-coming Water Temperature (in degrees F)
- Maximum Water Heater Set-point Temperature (in degrees F)
- Maximum Static Water Pressure (in psig)
- Maximum Safe Pressure (in psig) – Typically relief valve less 10%

Use the following form and acceptance factor table to calculate tank sizing by hand or visit **www.westank.com/calculator** to automatically calculate the size and model. Download our **Wessels Company App** to your iOS or Android device for mobile sizing on the go.

SYS. VOL. = WATER HEATER & RECIRC. VOL.		**GAL.**
EXPANSION FACTOR		
CALCULATE ACCEPTANCE VOLUME (SYS. VOL. X EXP. FACTOR)		**GAL.**
ACCEPTANCE FACTOR (AF)		
CALCULATE TANK VOLUME (ACCECPTANCE VOLUME/AF)		**GAL**
SELECT MODEL		

EXPANSION FACTOR TABLE

MIN. SYSTEM TEMPERATURE (DEG. F)

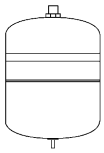
MAX. SYSTEM TEMPERATURE (DEG. F)	40	50	60	70	80
50	0.00006				
60	0.00055	0.00049			
70	0.00149	0.00143	0.00094		
80	0.00260	0.00254	0.00205	0.00111	
90	0.00405	0.00399	0.00350	0.00256	0.00145
100	0.00575	0.00569	0.00520	0.00426	0.00315
110	0.00771	0.00765	0.00716	0.00622	0.00511
120	0.01004	0.00998	0.00949	0.00855	0.00744
130	0.01236	0.01230	0.01181	0.01087	0.00976
140	0.01501	0.01495	0.01446	0.01352	0.01241
150	0.01787	0.01779	0.01730	0.01636	0.01525
160	0.02092	0.02086	0.02037	0.01943	0.01814
170	0.02418	0.02412	0.02363	0.02269	0.02158
180	0.02763	0.02757	0.02708	0.02614	0.02503
190	0.03127	0.03121	0.03072	0.02978	0.02867

ACCEPTANCE FACTOR

MAX. PRESSURE (PSIG)

MIN. PRESSURE (PSIG)	70	80	90	100	110	120	130	140	150
20	0.590	0.634	0.669	0.697	0.722	0.742	0.760	0.776	0.789
30	0.472	0.528	0.573	0.610	0.642	0.668	0.691	0.711	0.729
40	0.354	0.422	0.478	0.523	0.561	0.594	0.622	0.646	0.668
50	0.236	0.317	0.382	0.436	0.481	0.520	0.553	0.582	0.607
60	0.118	0.211	0.287	0.349	0.401	0.445	0.484	0.517	0.546
70		0.106	0.191	0.262	0.321	0.371	0.415	0.452	0.486
80			0.096	0.174	0.241	0.297	0.346	0.388	0.425
90				0.087	0.160	0.223	0.276	0.323	0.364

T THERMAL EXPANSION TANKS – Non-ASME



NON-ASME

LISTED MATERIALS

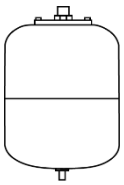
MODELS LISTED
T-5 T-12
T-25 T-30

FIXED DIAPHRAGM

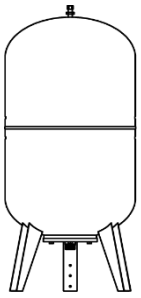
Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
T-5	32010005	2.1	1.3	7.9	10.8	3/4	5
T-12	32010012	4.8	2.9	10.6	13.7	3/4	9
T-25	32010025	9.3	5.5	15.0	15.7	1	18
T-30	32010030	13.2	7.8	15.0	21.1	1	23
T-42V	32010042	21	12.5	17.7	23.6	1	33
T-60V	32010060	40	23.8	19.7	35.2	1 1/4	60
T-80V	32010080	53	31.5	23.6	33.9	1 1/4	81
T-180V	32010180	79	46.9	24.8	44.7	1 1/4	105
T-260V	32010260	106	63	24.8	57.1	1 1/4	145
T-325V	32010325	132	78.4	29.5	53.1	1 1/4	190

Materials = Steel with Epitaxial® Inner Liner, Heavy Duty Butyl Diaphragm;
Maximum Pressure = 150 PSIG; Maximum Temperature = 200ºF;
Finish = Blue Powder Coat Exterior; Factory Pre-charge = 30 PSIG

TX THERMAL EXPANSION TANKS – Non-ASME



NON-ASME



NON-ASME

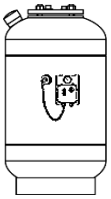
REMOVABLE BLADDER

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
5TX	33022050	2.1	2.1	7.9	12.9	3/4	6
12TX	33022120	4.8	4.8	10.6	16.2	3/4	9
25TX	33022250	10.6	10.6	12.6	22.5	1	22
30TX	33022300	15.8	15.8	15	28.7	1	31
42TX	33022420	21.1	21.1	17.7	28.9	1	35
60TX	33022600	26.4	26.4	17.7	31.1	1	45
80TX	33022800	52.8	52.8	21.6	42.5	1 1/2	84
180TX	33022900	79.2	79.2	24.8	46.3	1 1/2	111

Materials = Steel, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240ºF; Finish = Red Powder Coat Exterior;
Factory Pre-charge = 30 PSIG

Smart Tank Series: TXA with WessGuard®

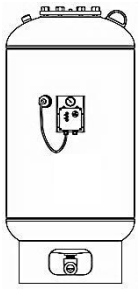
Smart Tank Series TXA-WG are ASME removable bladder type pre-charged thermal expansion tanks with **WessGuard**® bladder monitor. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system's expanded water is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. If the system creates a condition that extends the bladder beyond the normal movement, **WessGuard**® monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.



ASME

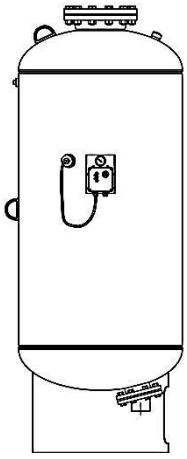
REMOVABLE BLADDER TANK – ASME – 150 PSI

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA-35-WG	60010035	10	10	12	25	3/4	40
TXA-50-WG	60010050	13	13	14	25	3/4	50



ASME

TXA-85-WG	60010085	23	23	16	37	1	90
TXA-130-WG	60010130	35	35	20	37	1	132
TXA-200-WG	60010200	53	53	24	43	1 1/2	220
TXA-300-WG	60010300	79	79	24	55	1 1/2	236
TXA-400-WG	60010400	106	106	30	49	1 1/2	315
TXA-500-WG	60010500	132	132	30	57	2	347
TXA-600-WG	60010600	158	158	30	65	2	378
TXA-800L-WG	60010805	211	211	32	76	2	503



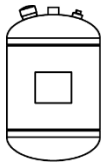
ASME

TXA-1000-WG	60011000	264	264	36	74	3	795
TXA-1200-WG	60011200	317	317	36	86	3	820
TXA-1400-WG	60011400	370	370	36	99	3	980
TXA-1600-WG	60011600	422	422	48	72	3	1395
TXA-2000-WG	60012000	528	528	48	85	3	1525

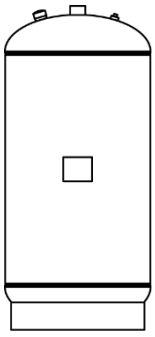
Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts

TTA THERMAL EXPANSION TANKS – ASME



ASME



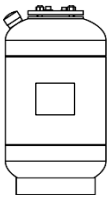
ASME

FIXED DIAPHRAGM

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TTA-5	18020005	3.5	2.3	10	14	3/4	22
TTA-12	18020012	5.0	3.3	12	14	3/4	28
TTA-20	18020020	8.0	5.3	12	20	3/4	34
TTA-30	18020030	15.0	10.0	16	24	1	64
TTA-42	18020042	22.0	14.5	16	31	1	88
TTA-60	18020060	26.0	17.5	16	34	1	93
TTA-80	18020080	35.0	23.5	16	45	1	109
TTA-100	18020100	45.0	30.0	20	39	1	148
TTA-125	18020125	60.0	40.0	20	50	1	175
TTA-160	18020160	70.0	47.0	24	47	1 1/2	259
TTA-180	18020180	80.0	53.0	24	50	1 1/2	268
TTA-210	18020210	90.0	60	24	53	1 1/2	283

Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

TXA THERMAL EXPANSION TANKS – ASME



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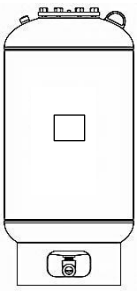


ASME

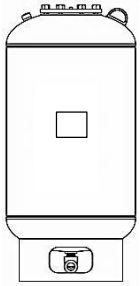
REMOVABLE BLADDER

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA 35	20010035	10	10	12	23 1/2	3/4	40
TXA 50	20010050	13	13	14	24	3/4	50
TXA 85	20010085	23	23	16	37	1	90
TXA 130	20010130	35	35	20	37	1	132
TXA 200	20010200	53	53	24	43	1 1/2	220
TXA 300	20010300	79	79	24	55	1 1/2	236
TXA 400	20010400	106	106	30	49	1 1/2	315
TXA 500	20010500	132	132	30	57	2	347
TXA 600	20010600	158	158	30	65	2	378
TXA 800	20010805	211	211	32	76	2	503
TXA 1000	20011000	264	264	36	86 1/2	3	795
TXA 1200	20011200	317	317	36	98 1/2	3	820
TXA 1400	20011400	370	370	36	110 1/2	3	980
TXA 1600	20011600	422	422	48	84	3	1395
TXA 2000	20012000	528	528	48	96	3	1525

Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240ºF; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

TXA-FF Full Flow (Flow-Through) – ASME

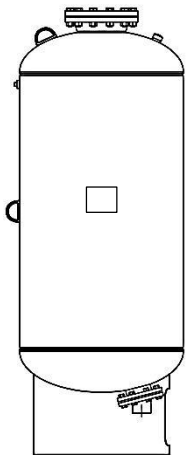
Wessels type TXA-FF tanks are ASME removable bladder type pre-charged tanks designed as a multifunctional bladder for controlling system pressures in Thermal Expansion, Hydronic Expansion, and Hydro-Pneumatic applications. The TXA-FF design incorporates a unique flow-through design that promotes fluid mixing. Mixing of the fluid inside the bladder tank disrupts stagnant water, preventing growth of potentially harmful bacteria colonies. The water is contained in a heavy-duty butyl bladder, preventing tank corrosion and waterlogging.



ASME

REMOVABLE BLADDER TANK – 150 PSI

Model	Part No.	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TXA-85-FF	20110085	23	23	16	37	1	90
TXA-130-FF	20110130	35	35	20	37	1	132
TXA-200-FF	20110200	53	53	24	43	1 1/2	220
TXA-300-FF	20110300	79	79	24	55	1 1/2	236
TXA-400-FF	20110400	106	106	30	49	1 1/2	315
TXA-500-FF	20110500	132	132	30	57	2	347
TXA-600-FF	20110600	158	158	30	65	2	378
TXA-800L-FF	20110805	211	211	32	76	2	503



ASME

TXA-1000-FF	20111000	264	264	36	74	3	710
TXA-1200-FF	20111200	317	317	36	86	3	720
TXA-1400-FF	20111400	370	370	36	99	3	875
TXA-1600-FF	20111600	422	422	48	72	3	1100
TXA-2000-FF	20112000	528	528	48	85	3	1280

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG;
Maximum Temperature = 240ºF; Finish = Primer Painted Exterior;
Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

WESSGUARD® RETROFIT FOR TXA

The bladder-style thermal expansion tank function is to accept expanded water created during the heating process that occurs in a domestic water heating system. The properly sized thermal expansion tank will control pressure increases in the water heating system based on the captured compressible air chamber within the tank to the designer's acceptable limits.

Factors that can affect the pressures in the water heating system:
Properly sized thermal expansion tank
Properly installed and pre-charge adjusted thermal expansion tank
Fluctuations in line pressure
Water heater temperature range fluctuations

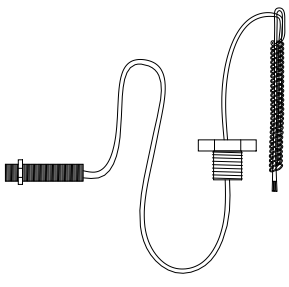
Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. **WessGuard**® was developed to monitor the fluid within the thermal expansion tank by determining excessive movement of the vessel bladder. **WessGuard**® incorporates a capacitive proximity sensor that determines if fluid levels in the thermal expansion tank exceed "normal" operating conditions. Furthermore, if a thermal expansion tank bladder is compromised, **WessGuard**® monitors the rising fluid level in the tank.

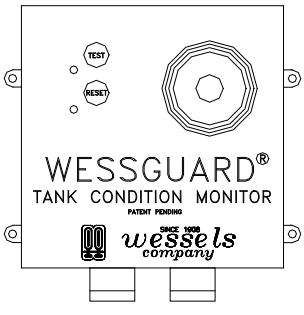
WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The **WessGuard**® monitor also has normally open contact to tie directly to an energy management system.

WESSGUARD® RETROFIT - TXA

Model	Part No.	Sensor Lead	Monitor Lead	Sensor Diameter	Monitor Dimensions	Connection To Tank	Wt. (Lbs.)
WG-RETRO	61110001	38"	46"	3/4"	5 1/4" X 5 1/4"	1" NPT	3

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1" TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER





Specify Standard or WessGuard-2® with Phone Texting Alerts

TX REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
5TX	0330005	NA	0550005
12TX	0330012	NA	0550012
25TX	0330025	NA	0550025
30TX	0330030	NA	0550030
42TX	0330042	NA	0550042
60TX	0330060	NA	0550060
80TX	0330080	NA	0550080
180TX	0330180	NA	0550180

TXA REPLACEMENT BLADDERS & COVERS

Model	Bladder Part No.	Bottom Assembly Part No.	Top Assembly Part No.
TXA 35	02200035	0420035	0520035
TXA 50	02200050	0420050	0520050
TXA 85	02200085	0420085	0520085
TXA 130	02200130	0420130	0520130
TXA 200	02200200	0420200	0520200
TXA 300	02200300	0420300	0520300
TXA 400	02200400	0420400	0520400
TXA 500	02200500	0420500	0520500
TXA 600	02200600	0420600	0520600
TXA 800L	02200805	0420800	0520800
TXA 1000	02201000	0421000	0521000
TXA 1200	02201200	0421200	0521200
TXA 1400	02201400	0421400	0521400
TXA 1600	02201600	0421600	0521600
TXA 2000	02202000	0422000	0522000