



Al-Saghyr Boilers & Pressure Vessels Co. (Ltd.) – AB&P

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PRESSURE VESSELS CODES & REGISTRATIONS

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The items listed in this catalog has been designed and constructed in accordance with the ASME Section VIII Division I Code latest edition and PD 5500.

**MANUFACTURING CAPABILITIES:**

AB&P is capable of producing pressure vessels made from carbon steel, stainless steel and with sizes ranging from 500 mm diameter to 6,000 mm diameter and up to 120 mm wall thick.

**ENGINEERING CAPABILITIES:**

AB&P's engineering professionals are highly trained in AutoCAD & SolidWorks 3D CAD to support your organization's technical design requirements. With 8 design stations and Professional Engineer on staff, AB&P is committed to fulfill your organization's custom equipment needs in a timely manner.



VERTICAL SURGE VESSEL - 500L To 120,000 L

Design Data

Design Pressure (Bar) 2 to 160 Bar

Type : Bladder , Air Compressor or Dip Tube.

Material Of Construction :

Shell/ Dish SA 516 Gr. 70

Pipe ASTM 1106Gr.B

Flange ASTM A105

Fitting A234 Gr.WPB

Base ASTM A36

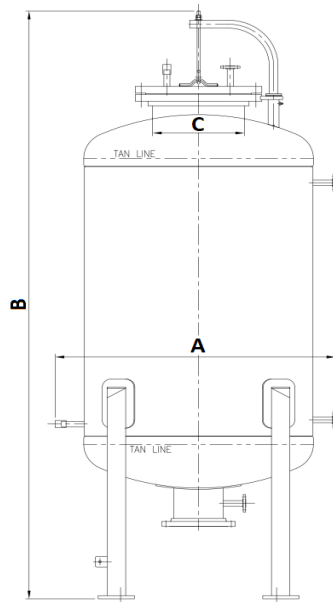
Bladder TPU and Butyl with food quality.

Surface Preparation :

Surface Preparation As Per Sa-2 ½ both.

Internal : One Coat Of Corrosion Resistance Epoxy , Dft 75 Micron or Project requirement.

External : One Coat Of Corrosion Resistance Epoxy, Dft 50-60 Micron. And Two Coats Of Enamel Paint, Dft 50-60 Micron Each. Total Dft: 150-180 Microns Ral No: 9010 (Wite) or Project requirement.



VERTICAL SURGE VESSEL

Capacity L	Ø D	A (mm)	B (mm)	C (mm)	Daivit	Support
500	800	982	2020	300	NO	LEG
1,000	1000	1083	2150	400	NO	LEG
1,500	1000	1083	2825	400	NO	LEG
2,000	1150	1500	3030	500	YES	LEG
3,000	1250	1520	3000	500	YES	LEG
4,000	1350	1640	4800	500	YES	LEG
5,000	1500	1955	5160	500	YES	LEG
6,000	1500	2010	4865	500	YES	LEG
7,000	1600	2030	6200	600	YES	LEG
8,000	1600	2030	6700	600	YES	LEG
9,000	1750	2060	6140	600	YES	LEG
10,000	1800	1977	6761	600	YES	LEG
11,000	2000	2188	5800	600	YES	LEG
12,000	1750	2055	7240	600	YES	LEG
15,000	2190	2500	6660	600	YES	LEG
18,000	2250	2650	7600	600	YES	LEG
20,000	2500	2900	6450	600	YES	LEG/SKIRT
25,000	2500	2950	7400	600	YES	LEG/SKIRT
30,000	2500	3200	8300	600	YES	LEG/SKIRT
35,000	2750	32070	8000	600	YES	LEG/SKIRT
40,000	2845	3200	9050	600	YES	LEG/SKIRT
50,000	2950	3800	10000	600	YES	LEG/SKIRT
60,000	3500	3800	10150	600	YES	LEG/SKIRT
75,000	3500	3800	11750	600	YES	LEG/SKIRT
80,000	3500	3800	12350	600	YES	LEG/SKIRT
100,000	3500	3800	14350	600	YES	LEG/SKIRT
120,000	3500	3800	16550	600	YES	LEG/SKIRT

Note :

1) Customize dim also available based on projects requirments.

2) Provided STD dimen subject to changes after final design as per projects requirement without notice.

HORIZONTAL SURGE VESSEL - 500L To 200,000 L

Design Data

Design Pressure (Bar) 2 to 160 Bar

Type : Bladder , Air Compressor or Dip Tube.

Material Of Construction :

Shell/ Dish SA 516 Gr. 70

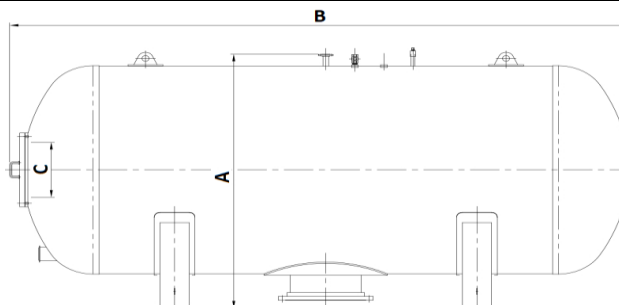
Pipe ASTM A106Gr.B

Flange ASTM A105

Fitting A234 Gr.WPB

Base ASTM A36

Bladder TPU and Butyl with food quality.



HORIZONTAL SURGE VESSEL

Surface Preparation :

Surface Preparation As Per Sa-2 ½ both.

Internal : One Coat Of Corrosion Resistance Epoxy , Dft 75 Micron or Project requirement.

External : One Coat Of Corrosion Resistance Epoxy, Dft 50-60 Micron. And Two Coats Of Enamel Paint, Dft 50-60 Micron Each. Total Dft: 150-180 Microns Ral No: 9010 (Wite) or Project requirement.

Capacity L	Ø D	A (mm)	B (mm)	C (mm)	Daivit	Support
500	800	1600	1700	300	NO	LEG/SADDEL
1000	1000	1750	1800	400	NO	LEG/SADDEL
1500	1000	1750	2500	400	NO	LEG/SADDEL
2000	1150	2000	3030	500	YES	LEG/SADDEL
3000	1250	2200	3000	500	YES	LEG/SADDEL
4000	1350	2350	3400	500	YES	LEG/SADDEL
5000	1500	2500	3500	500	YES	LEG/SADDEL
6000	1500	2500	4100	500	YES	LEG/SADDEL
7000	1600	2700	4000	600	YES	LEG/SADDEL
8000	1600	2700	4500	600	YES	LEG/SADDEL
9000	1750	2850	4500	600	YES	LEG/SADDEL
10000	1750	2900	4700	600	YES	LEG/SADDEL
11000	1750	3150	5100	600	YES	SADDEL
12000	1750	2850	5500	600	YES	SADDEL
15000	2000	3400	5400	600	YES	SADDEL
18000	2100	3450	5700	600	YES	SADDEL
20000	2150	3750	6200	600	YES	SADDEL
25000	2500	3750	7500	600	YES	SADDEL
30000	2500	3750	6800	600	YES	SADDEL
35000	2500	3750	7800	600	YES	SADDEL
40000	2800	4140	7250	600	YES	SADDEL
50000	2800	4140	8950	600	YES	SADDEL
60000	2800	4140	10450	600	YES	SADDEL
75000	3000	4580	11300	600	YES	SADDEL
80000	3000	4580	12000	600	YES	SADDEL
100000	3000	4580	15000	600	YES	SADDEL
120000	3000	4580	17700	600	YES	SADDEL
125,000	3000	4580	18500	600	YES	SADDEL
150,000	3000	4580	22000	600	YES	SADDEL

Note :

1) Customize dim also available based on projects requirments.

2) Provided STD dimen subject to changes after final design as per projects requirement without notice.

VERTICAL SAND FILTER VESSEL - DIA 1000 To 4000

Design Data

Design Pressure (Bar) 2 to 16 Bar

Internals Design : Client to Provide.

Material Of Construction :

Shell/ Dish SA 36 or SA 516 Gr. 70

Pipe ASTM A106Gr.B

Flange ASTM A105

Fitting A234 Gr.WPB

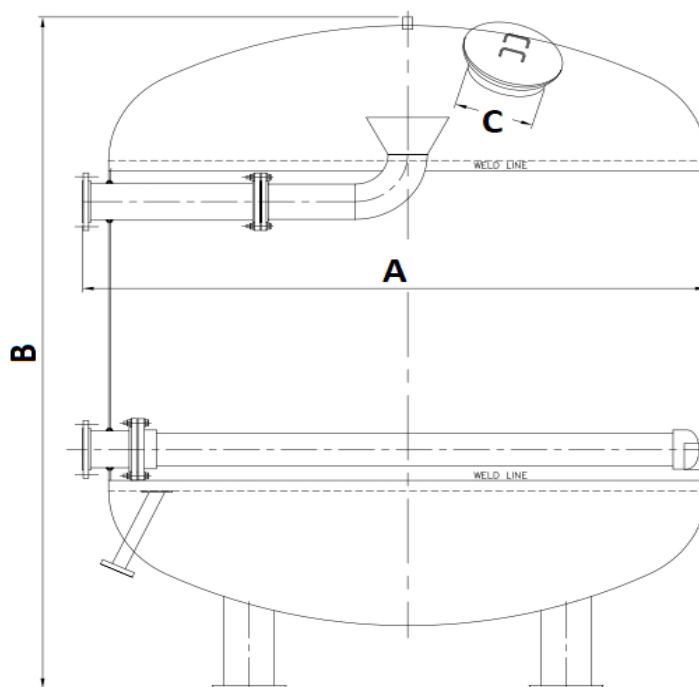
Base ASTM A36

Surface Preparation :

Surface Preparation As Per Sa-2 ½ both.

Internal : As per project requirement.

External : One Coat Of Corrosion Resistance Epoxy, Dft 50-60 Micron. And Two Coats Of Enamel Paint, Dft 50-60 Micron Each. Total Dft: 150-180 Microns Ral No: 9010 (Wite) or Project requirement.



VERTICAL SAND FILTER VESSEL

Ø D	Capacity L	A (mm)	B (mm)	C (mm)	Daivit	Support
1000	1200	1100	2000	400	No	LEG
1200	1800	1300	2300	400	No	LEG
1600	4200	1710	2518	450	No	LEG
1800	5600	1910	2852	450	No	LEG
2000	7100	2110	2983	450	No	LEG
2200	11150	2322	3760	450	No	LEG
2400	10850	2510	2874	450	No	LEG
2600	13100	2710	3232	450	No	LEG
2800	21150	3520	6573	450	No	LEG
3000	18380	3110	3432	450	No	LEG
3600	36650	3760	4232	450	No	LEG
4000	46900	3760	4432	450	No	LEG

Note :

1) Customize dim also available based on projects requirments.

2) Provided STD dimen subject to changes after final design as per projects requirment without notice.

HORIZONTAL SAND FILTER VESSEL - DIA 1000 To 4500

Design Data

Design Pressure (Bar) 2 to 16 Bar
Internals Design : Client to Provide.

Material Of Construction :

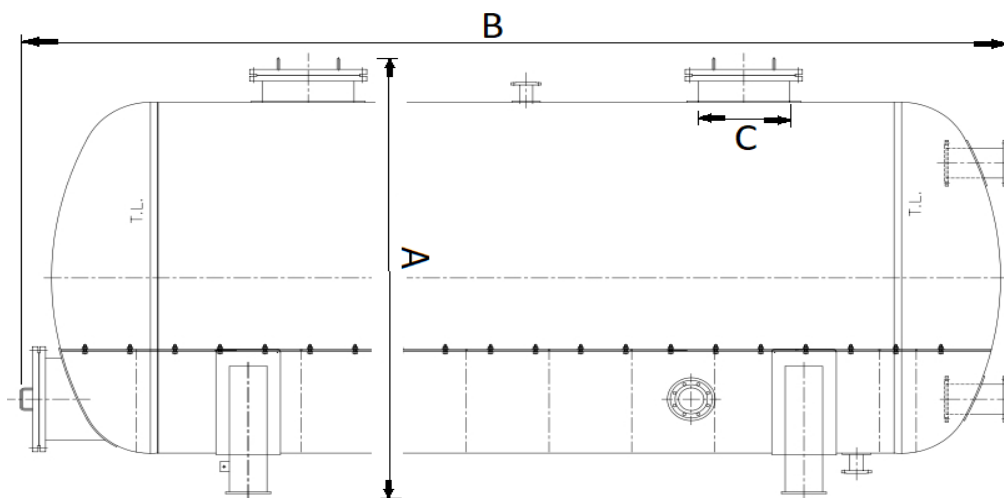
Shell/ Dish SA 36 or SA 516 Gr. 70
Pipe ASTM A106Gr.B
Flange ASTM A105
Fitting A234 Gr.WPB
Base ASTM A36

Surface Prepration :

Surface Preparation As Per Sa-2 ½ both.

Internal : As per project requirment.

External : One Coat Of Corrosion Resistance Epoxy, Dft 50-60 Micron. And Two Coats Of Enamel Paint, Dft 50-60 Micron Each. Total Dft: 150-180 Microns Ral No: 9010 (Wite) or Project requirment.



HORIZONTAL SAND FILTER VESSEL

Ø D	Capacity L	A (mm)	B (mm)	C (mm)	Daivit	Support
1000	1677	1400	2300	400	No	SADDEL
1200	3168	1700	2900	400	No	SADDEL
1600	6700	2200	4200	450	No	SADDEL
1800	9670	2400	4420	500	No	SADDEL
2000	12781	2600	4900	500	No	SADDEL
2200	15719	2800	5000	500	No	SADDEL
2400	20366	3000	5400	500	No	SADDEL
2600	31160	3135	6520	600	No	SADDEL
2800	40246	3400	7000	600	No	SADDEL
3000	56570	4635	9103	600	No	SADDEL
3600	101320	5200	11100	600	No	SADDEL
4000	142470	4871	12305	450	No	SADDEL
4500	176600	5500	12500	600	No	SADDEL

Note :

- 1) Customize dim also avilable based on projects requirments.
- 2) Provided STD dimen subject to changes after final design as per projects requirment without notice.

STORAGE TANK - DIA 1000 To 30000

Design Data

Design Pressure (Bar) ATM

Service : Water, Chemical & Fuel.

Internals Design : Client to Provide.

Material Of Construction :

Shell/ Dish SA 36 o, SS or SA 516 Gr. 70

Pipe ASTM A106Gr.B

Flange ASTM A105

Fitting A234 Gr.WPB

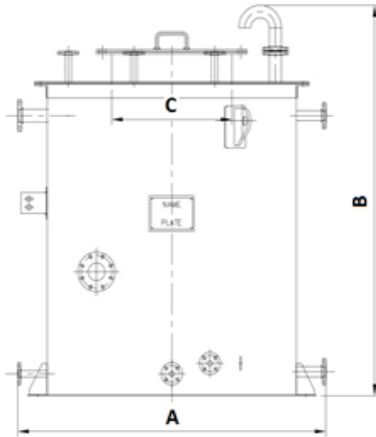
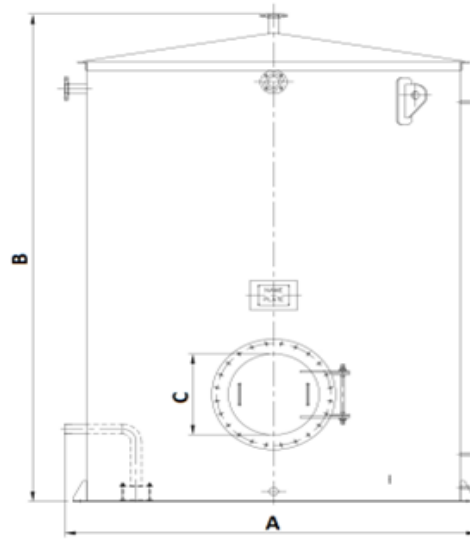
Base ASTM A36

Surface Preparation :

Surface Preparation As Per Sa-2 ½ both.

Internal : As per project requirement.

External : One Coat Of Corrosion Resistance Epoxy, Dft 50-60 Micron. And Two Coats Of Enamel Paint, Dft 50-60 Micron Each. Total Dft: 150-180 Microns Ral No: 9010 (Wite) or Project requirement.

**SELF SUPPORTED FLAT ROOF STORAGE TANK****SELF SUPPORTED CONICAL ROOF STORAGE TANK**

Ø D	Capacity L	A (mm)	B (mm)	C (mm)	Roof	Support
1000	750	1310	1760	-	FLAT	Base Plate
1200	1000	1570	1800	-	FLAT	Base Plate
1600	2000	1810	2115	600	FLAT	Base Plate
1600	3000	1810	2350	600	FLAT	Base Plate
2000	8000	2320	3400	600	FLAT	Base Plate
2400	12500	2715	3360	600	FLAT	Base Plate
2500	15000	2800	3670	600	FLAT	Base Plate
3000	22000	3400	4200	600	FLAT	Base Plate
3000	30000	3500	5700	600	FLAT	Base Plate
3000	40000	3500	6500	600	FLAT	Base Plate
3400	50000	3850	6500	600	FLAT	Base Plate
3500	65000	3950	7650	600	FLAT	Base Plate
3800	80000	4150	8100	600	FLAT	Base Plate
4000	100000	4700	9000	600	CONE	Base Plate
4500	150000	5500	10500	600	CONE	Base Plate
5000	200000	6000	11200	600	CONE	Base Plate
5000	250000	6000	13800	600	CONE	Base Plate
5500	300000	6500	13750	600	CONE	Base Plate
6000	350000	7000	13850	500	CONE	Base Plate
7000	500000	8000	14500	600	CONE	Base Plate
8000	600000	9000	13500	600	CONE	Base Plate
10000	750000	11000	11000	600	CONE	Base Plate
12000	1000000	13000	10500	600	CONE	Base Plate

Note :

1) All dimintion will be provided after recive customer datd and completing AB&P design.