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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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with experienced engineers and technicians on staff.

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so your equipment works exactly as you specify.

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Find the *Apache Stainless Equipment 93-3* at our website: *Click HERE*

APACHE

STAINLESS EQUIPMENT

An Employee Owned Company



ASME Portable Stainless Steel Pressure Vessels

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APACHE STAINLESS EQUIPMENT

We were founded in 1975 and have built a sterling reputation within the industry as a manufacturer of superior small vessels and portable tanks. Our products are designed to ASME code and fabricated from stainless steel and other high alloy materials.

Our customers come to us because of our outstanding customer service, high quality construction, experienced craftsmen, finishing capabilities, competitive prices, breadth of product and engineering support. Our portable vessels meet the needs of customers within a variety of industries, including water purification, biofuels, chemical, pharmaceutical, personal care and engineering firms.

Top Located Fittings

Four ¼" Female NPT Fittings are located on the top head to accommodate pressure in, product out, a safety or relief valve and the forth fitting is available for a gauge or other item.

Closure Options

Four types of closures are available.

1. Models 90, 120 and 180 feature our ***large mouth*** 4 7/8" x 5 7/8" oval design opening for easy filling, cleaning and inspection.

2. Model 93 features our 3 ¼" x 3 7/8" ***small mouth*** oval design that allows for more or larger fittings on a 9" diameter vessel.

3. All models include our standard ***easy open*** closure with bail assembly. A vacuum/low pressure closure is available on all models when vacuum or low pressure applications are needed.

4. Our Model 99 features a 2" stainless steel nipple with stainless steel plug and 3" aluminum nut. This closure allows both vacuum or low pressure operation.

Easy Open Large Mouth Closure



Apache's *large mouth* 4 7/8" x 5 7/8" closure opening provides easy filling, cleaning and inspection.

Easy Open Small Mouth Closure



Apache's *small mouth* 3 1/4" x 3 7/8" closure opening allows for more or larger fittings on a 9" diameter vessel.

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Specifications

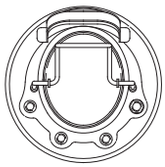
All Standard Apache Pressure Vessels Feature:

- Product Contact Surfaces that are either 304L or 316L Stainless Steel
- Four ¼" Female NPT Fittings
- EPDM Closure O-Rings
- Fully Passivated, White Pickle Finish

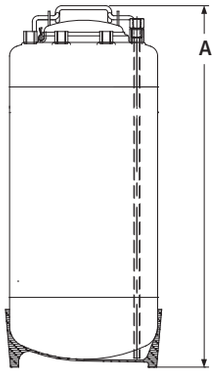
MODEL 90,93,99 with 9" DIAMETER			
Type of Stainless Steel	Maximum Operating Temperature		Maximum Allowable Working Pressure
	FAHRENHEIT	CELSIUS	PSI
304L	300°F	149°C	165
316L	300°F	149°C	165

Model 90 Specifications

- 9" Inside Diameter
- 165 psi Maximum Allowable Working Pressure
- 3/8" MNPT x 1/4" FNPT Dip Tube
- Molded Rubber Foot Ring
- Large 4 7/8" x 5 7/8" Oval Opening



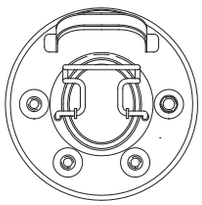




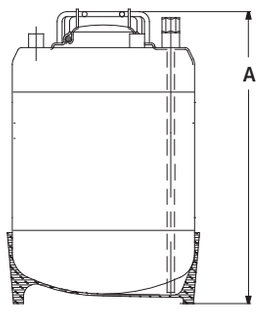
MODEL 90 SPECIFICATIONS			
Catalog Number	Capacity		Overall Height (in.) - A
	GALLONS	LITERS	
90-1	1	5.00	9 1/4
90-2	2	7.57	11 13/32
90-3	3	11.36	15
90-4	4	15.14	18 5/8
90-5	5	18.93	22 1/4
90-6	6	22.71	25 7/8
90-7	7	26.50	29 15/32

Model 93 Specifications

- 9" Inside Diameter
- 165 psi Maximum Allowable Working Pressure
- 3/8" MNPT x 1/4" FNPT Dip Tube
- Molded Rubber Foot Ring
- Small 3 ¼" x 3 7/8" Oval Opening







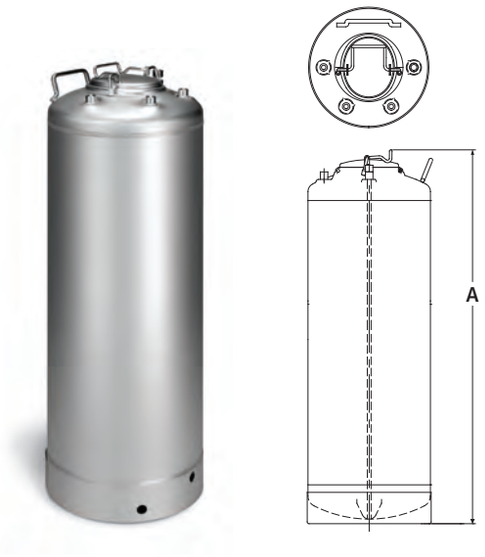
MODEL 93 SPECIFICATIONS			
Catalog Number	Capacity		Overall Height (in.) - A
	GALLONS	LITERS	
93-1	1	5.00	9 1/4
93-2	2	7.57	11 13/32
93-3	3	11.36	15
93-4	4	15.14	18 5/8
93-5	5	18.93	22 1/4
93-6	6	22.71	25 7/8
93-7	7	26.50	29 15/32

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ASME Dispensing Vessel Specifications and Pressure & Temperature Ratings

Model 120 Specifications

- 12" Inside Diameter
- Standard Stainless Steel Skirt
- 190 psi Maximum Allowable Working Pressure
- Large 4 7/8" x 5 7/8" Oval Opening
- 3/8" MNPT x 1/4" FNPT Dip Tube

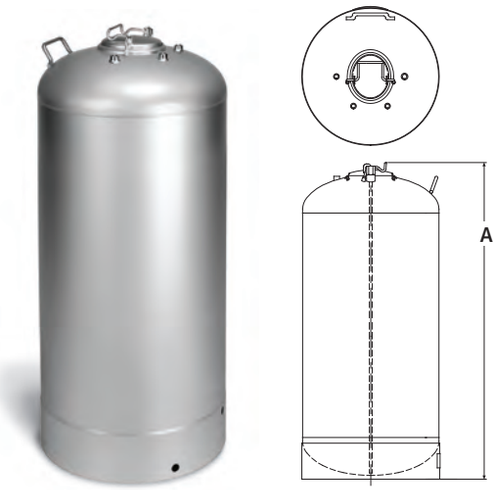


MODEL 120 SPECIFICATIONS			
Catalog Number	Capacity		Overall Height (in.) - A
	GALLONS	LITERS	
120-6	6	22.71	17 9/32
120-7	7	26.50	19 7/16
120-8	8	30.28	21 3/8
120-9	9	34.07	23 1/2
120-10	10	37.85	25 7/16
120-11	11	41.64	27 7/16
120-12	12	45.42	29 1/2
120-13	13	49.21	31 19/32
120-14	14	52.99	33 9/16
120-15	15	56.78	35 19/32
120-16	16	60.56	37 21/32

MODEL 120 with 12" DIAMETER			
Type of Stainless Steel	Maximum Operating Temperature		Maximum Allowable Working Pressure
	FAHRENHEIT	CELSIUS	PSI
304L	300°F	149°C	190
316L	300°F	149°C	190

Model 180 Specifications

- 18" Inside Diameter
- Standard Stainless Steel Skirt
- 140 psi Maximum Allowable Working Pressure
- Large 4 7/8" x 5 7/8" Oval Opening
- 3/8" MNPT x 1/4" FNPT Dip Tube



MODEL 180 SPECIFICATIONS			
Catalog Number	Capacity		Overall Height (in.) - A
	GALLONS	LITERS	
180-20	20	75.70	25 9/16
180-25	25	95.63	30 1/4
180-30	30	113.60	34 15/16
180-35	35	132.53	39 1/2
180-37.4	37.4	141.61	41 3/16

MODEL 180 with 18" DIAMETER			
Type of Stainless Steel	Maximum Operating Temperature		Maximum Allowable Working Pressure
	FAHRENHEIT	CELSIUS	PSI
304L	300°F	149°C	140
316L	300°F	149°C	140

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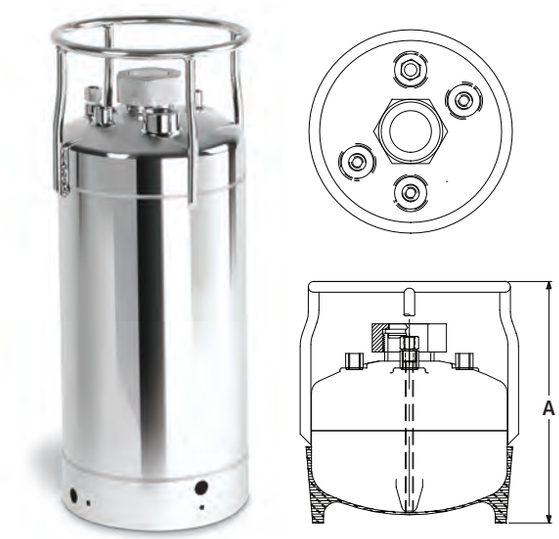
Shipping / Dispensing Vessels

Apache shipping and dispensing vessels are built in accordance with the DOT/UN (Dept. of Transportation/United Nations) and ASME Code specifications. A stainless steel ring chime protects fittings during shipment.

Standard Features

Capacities	1 – 10 gallon
Inside Diameter	9"
4 NPT Female Pipe Fittings On Top Head	¼" – 18 NPT
Skirt or Foot Ring	Rubber
O-Ring Material	Teflon
Maximum Allowable Working Pressure Rating	165 psi
Surface Finish	White Pickle
FNPT Dip Tube	1/4" x 3/8" MNPT

MODEL 99 SPECIFICATIONS			
Catalog Number	Capacity		Overall Height (in.) - A
	GALLONS	LITERS	
99-01	1	5.00	11 1/4
99-02	2	5.75	13 3/8
99-03	3	11.36	17
99-04	4	15.14	20 5/8
99-05	5	18.93	24 1/4
99-06	6	22.71	27 7/8
99-07	7	26.50	31 1/2
99-08	8	30.28	35 1/8
99-09	9	34.07	38 3/4
99-10	10	37.85	42 3/8



Optional Electropolish Finish and Stainless Steel Skirt shown above.

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Material Finishing Capabilities

Electropolishing

We are uniquely equipped to offer our customers a variety of material finishing services in house quickly, efficiently and cost-effectively. Our capabilities range from mechanical polishing and bead blasting to pickling or passivation and electropolishing. We are one of only a handful of companies that maintain an Electropolishing System on site with highly trained technicians who have extensive experience polishing stainless steel and other high alloy materials.

Our mechanical polishing capabilities meet ASME surface designations ranging from SFW1-SFW6 and our electropolishing proficiencies range from ASME SFW4-SFW6 surface designations.

Advanced finishes, such as passivation and electropolishing each provide essential benefits to any fabrication process.

The most visible benefit of Electropolishing is it's bright, shiny appearance. The process provides a microscopically smooth surface for **improved**:

- corrosion resistance through the removal of surface contaminants and the formation of a protective layer of surface oxide rich in chromium.
- sterilization by providing a micro-finish that eliminates surface pits and crevices and reduces the buildup of bacteria,
- cleaning time and effort due to the reduction in residual product buildup

Pickling/Passivation

We also specialize in and offer Pickling or Passivation; a finishing process that **improves and enhances:**

- corrosion-resistance through an acid mixture containing oxidizing agents that form a natural molecular layer found within stainless steel.

It also **removes** all—carbon content, weld discoloration, anti-spatter, and light-duty scratches.

Surface Finishes Available:

Apache Number	Finish Designation	ASTM Number	RA Micron	RA Micro Inch	ISO Designation
1	White Pickle	-	-	15-30	-
2	EP*	-	-	10-16	-
3	180 Grit	-	.600 - .625	20-25	-
4	3 + EP	-	-	10-16	-
5	240 Grit	#6	.375 - .500	15-20	-
6	5 + EP	-	-	8-12	-
7	320 Grit	#7	.200 - .300	8-12	N4
8	7 + EP	-	-	6-12	-

*EP = Electropolish

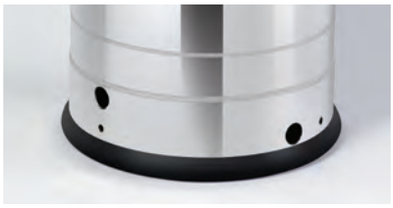
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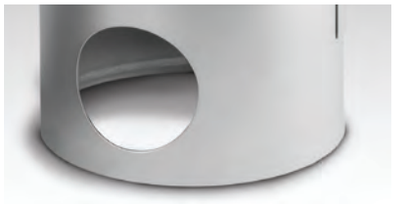
In-House Engineering

Standard Apache Pressure Vessels are designed to meet most applications for dispensing or transferring liquids; but, because special needs arise we offer the following options as modifications.



Dip Tube – Special types, sizes, NPT, sanitary clamp, and additional dip tubes are available.





Special Skirts – Extra long stainless steel skirts with four 4" hand holes when fittings or valves are required on the bottom. Black rubber foot ring is also available.



Fittings – Additional fittings, larger size, sanitary, or special fittings can be added to top, bottom or side.



Small/Large Mouth and Vacuum/ Low Pressure Closures – Allows the vessel to function under full vacuum or low pressure as well as normal pressure conditions.



Stainless Steel Cart Assembly Wheels provide for easy transport of the vessel without lifting.



Closure O-Ring Materials – For specific applications, Nitrile, VITON®, and TEFLON® encapsulated VITON are available. EPDM is standard.

Yes We Can! We can incorporate almost any options you want into your Apache vessel, including any of the additional components listed below.

Lifting lugs or eyes	Platforms
Sight gauges	Internal heating or cooling coils
Brackets	Agitators
Legs	Conventional or Dimpled jackets
Stands	Insulated shrouds

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NEED SOMETHING MORE SPECIFIC OR A LITTLE LARGER?

Let Us Help You Design Your Own Vessel!
Our in-house engineering staff can provide technical support to help build a vessel that will work for your specific industrial application.

Custom Built Stainless Steel Tanks
We can custom build stainless steel tanks, process vessels, containers and pressure vessels from 1 gallon capacity up to 165,000 gallons or more.



Custom Mixing Vessel

To contact an Apache representative in your area call or e-mail us today!
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E-mail: **info@apachestainless.com**

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Competitive Prices

Specifications subject to change without notice.



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