

21K F.A. Round Bottom Manifold⁽¹⁾ Tank

Model/Make: FARBM / Modern

Product Description

This tank has a smooth interior wall and round bottom for easy cleaning.

Technical Data

Weights and Measures

| | |
|----------|---|
| Capacity | 500 BBL (21,000 gallons) |
| Height | 10'-8" (grade to roof plate) 13'-4" (grade to upright guardrail) |
| Width | 8'-6" |
| Length | 47'-2" (nose to tail) 42'-11" (end wall to end wall) |
| Weight | 29,000 lbs. (est.) |

Structural Design

| | |
|------------|---|
| Floor | ¼" thick ASTM A36 carbon steel round bottom |
| Sides/Ends | ¼" thick ASTM A36 carbon steel |
| Top Deck | ¼" thick ASTM A36 carbon steel |
| Wall Frame | 6" wide channel-shaped steel (on exterior side of walls) |
| Roof Frame | 3" wide x 1½" tall channel-shaped steel (on exterior side of roof deck) |

Wetted Materials for material compatibility check

| | |
|---------------------|---|
| Carbon Steel* | Tank walls, bottom, sides; steam coil (if supplied) |
| Carboline Liner | Tank interior (Could be Phenoline 310 or Phenoline 380 – confirm which) |
| Buna (Nitrile, NBR) | Manway gaskets, valve seats, P/V valve gasket |
| Nylon 11 | Valve disc |
| 304 Stainless Steel | Float ball |

*Theoretically if the tank has an interior liner, no carbon steel should be exposed to the liquid. However, if there are areas of thin or missing liner, bare carbon steel will be exposed. It is always a good idea to check compatibility of carbon steel even if the tank interior is lined.

Strapping Table: ST327



Features

| | |
|-----------------------|---|
| Valves | 2-Front & 1-Rear: 4"- wafer butterfly valve. Cast iron body, Buna-N seat & seals, 416 SS stem, Nylon 11 coated ductile iron disk w/ plug and chain. |
| Relief Valve | 16 oz./in2 pressure setting, 0.4 oz./in2 vacuum setting; Buna-N seal |
| Front Inlet | 8" connection, flanged on the inside and outside of the tank |
| Front Drain | 4"-150# flanged connection with butterfly valve |
| Rear Drain | 4"-150# flanged connection with butterfly valve and remote operation handle |
| Fill Line | 3" pipe, top of tank, with cap and chain |
| Gel Line ² | 4" sch. 40 pipe; flanged with butterfly valve |
| Top Vapor | 4"-150# weld neck flange with blind flange (chained) and Buna N gasket |
| Top Manway | One - 21½" I.D. domed lid w/anti-personnel bars, slotted hinges and 5 - ¾" T or eye bolt with wing nut fasteners, hinged to side of tank. Buna-N (NBR) gasket. |
| Front Manway | One - 21½" I.D. domed lid, slotted hinges and 5 - ¾" T or eye bolt with wing nut fasteners, hinged away from stairs. Buna-N (NBR) gasket. |
| Side Manway | One - 21½" I.D. domed lid, slotted hinges and 5 - ¾" T or eye bolt with wing nut fasteners, mounted on passenger side and hinged to front of tank. Buna-N (NBR) gasket. |
| Stairway | Front-mounted with access from driver's side of tank |
| Level Gauge | Ball style with 2-8" 304 SS floats. Floor supports hold floats ½" off floor. |
| Tires | 11.00 x 22.5 (nylon tubeless) |
| Axles | 25K axle, automatic slack adjusters, top mounted 30 service chambers, outboard drums |

¹ It is possible that the manifold has been removed from the tank. All Data on this data sheet is still valid.
² It is possible that the gel line has been removed. Check equipment if this item is required for the application being rented for.

Surface Details

| | |
|------------------|---|
| Exterior Coating | High gloss polyurethane paint |
| Interior Lining | Chemical resistant lining |
| Placard Mounts | Removable 10-gauge steel, 48"x48", both sides of tank at top rear. Secured with nylock nuts or bolts with lock washers. |

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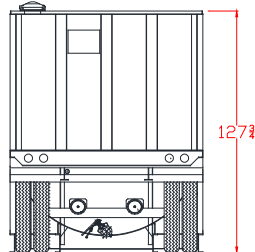
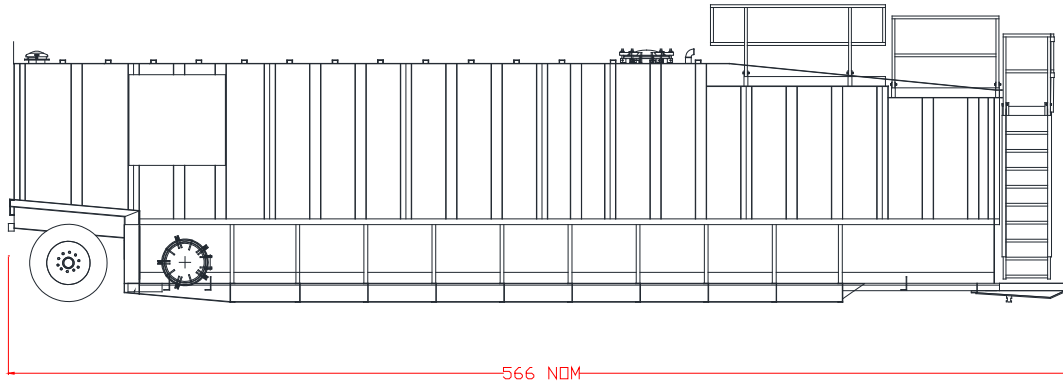
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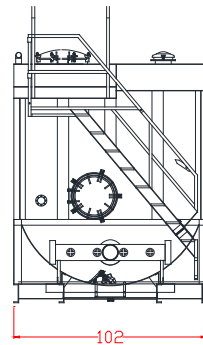
TOP VIEW



SIDE VIEW



REAR VIEW



FRONT VIEW