Ace FuelSafe® Systems

Durable Design … Reliable Results

Durable Design - Reliable Results

Durability in design is our top priority, everything else follows. We believe this is accomplished through a constant focus on minimizing complexity, using high quality components and most importantly asking ourselves how we would want the system to be built. Focus on ease of use and maintenance maintains this perspective. Our goal is to become the gold standard for fuel system design by delivering on our promise of durable design and reliable results.

The Ace FuelSafe line was introduced as a safe, reliable and sensible option for the discerning owner/operator who prefers a durably designed system that will safely transfer fuel from point A to B with minimal complexity. Our FuelSafe systems are designed and built by service personnel who have maintained fuel system equipment in the field and have a deep appreciation for reliability and simplicity in fuel system design.

PUMP SKID PACKAGE:

Ace FuelSafe Pump Sets use Rotary Gear, positive displacement, continuous duty pump with internal relief mounted in an outdoor rated enclosure w/ lockable door, spill containment and leak switch. Pump set is designed to work with Ace Fuelsafe UL-508 control panel. Dual Pump set controls standard is lead/lag. Each pump is sized for full duty/fill demand. Properly sized flow switch is included with each pump set but is shipped loose for installation at Day tank. If ordering ILOP the flow switch will be located at ILOP inlet. Remote mount allows for detection of line shear preventing an unintentional fuel spill.

PUMPS

Rugged dutile iron construction Positive displacement

Includes:

- Compact close-coupled design
- Stainless steel shafts
- Durable steel helical gears provide quiet operation
- Process lubricated carbon graphite bearings
- O-ring cover seal for maximum leak protection
- Buna Lip Seal -standard

INLET MANIFOLD

Includes:

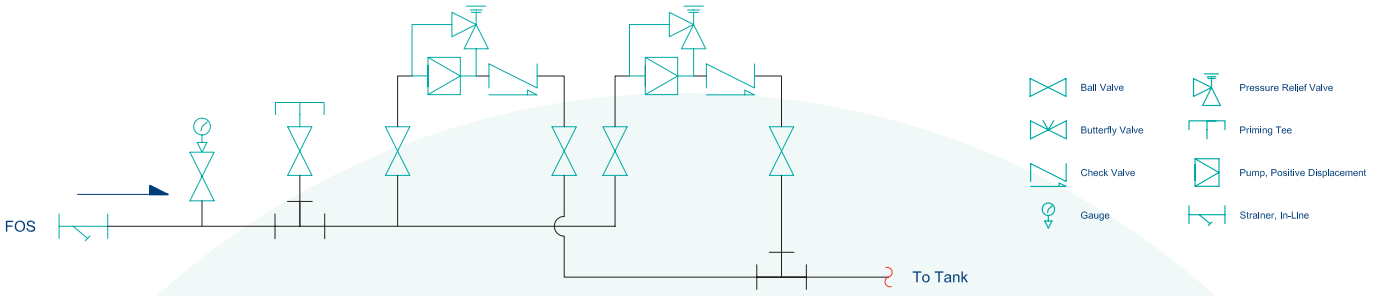
- Y type suction strainer with bottom clean out and plug
- Priming Tee with riser pipe, isolation valve and dust plug.
- *(Optional)* Vacuum gauge with isolation valve.
- *(Optional)* Fusible globe valve. *(Shipped Loose)*
- *(Optional)* Stainless steel flex connectors w/; swivel adapters. *(Shipped Loose)*

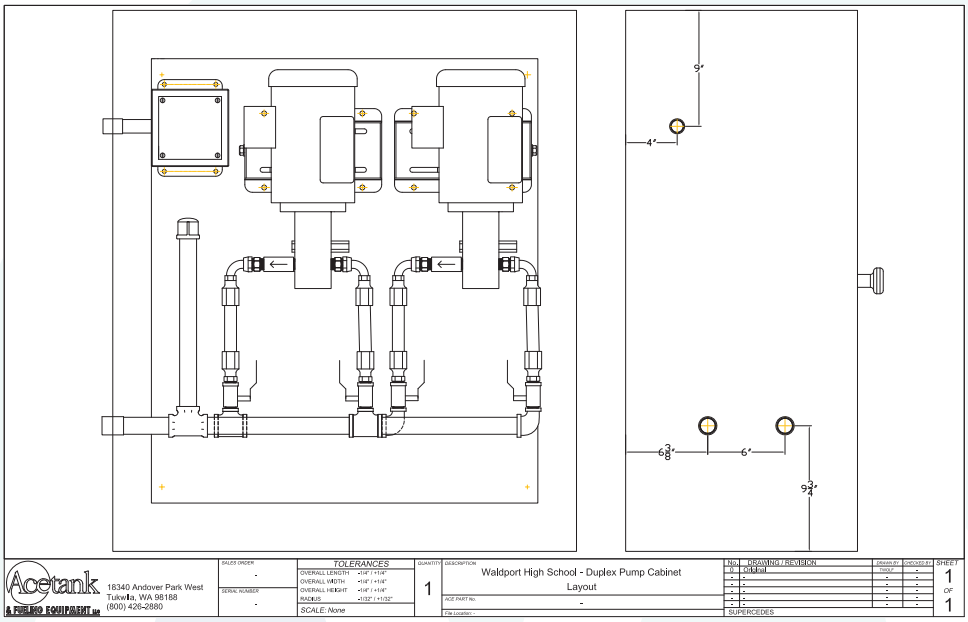
INFINITE LOOP OVERFILL PROTECTION SYSTEM *(ILOP)*
(Optional)

Our proprietary Infinite Loop Overfill Prevention System eliminates the need for complex reverse overflow pumping systems. Our system uses supply pump pressure to safely return fuel back to the main tank without relying on another level switch to start a reverse overflow pump.

Acetank & FUELING EQUIPMENT

Ace FuelSafe Cabinet Dispensing Package Specification:





- Powder Coat Finish System inside & out.
- Sturdy Piano Hinge Doors w/ Gasketed Enclosure.
- Lockable Door Hardware w/ Oversized Handles for cold weather operation.
- Reinforcement as needed to support equipment
- As built/ spec sheet holder
- Watertight piping and conduit penetrations
- Continuous Duty Pumps with Internal Relief.
- Y type suction strainer with bottom clean out and plug
- Priming Tee with riser pipe, isolation valve and dust plug.
- Optional Vacuum gauge with isolation valve.
- Ace QC certification

FUEL MAINTENANCE *(FP)*

Fuel Maintenance (water & particulate removal) packages can be offered in a standalone configuration or as part of the FuelSafe Day Tank package. This option includes fuel filtration skid as integral part of day tank system eliminating the need for added infrastructure required to support a standalone fuel maintenance system. Eliminating system complexity and minimizing cost impacts to the project.

The integral fuel maintenance system allows for the use of existing fuel supply and return lines as the fuel supply pumps act as both the prime mover for the fill operation and the fuel maintenance cycles. This ensures clean fuel, regular exercise schedules for supply pumps and minimizes installation complexities.

Pump Sizing

Calculation

During pump operation, what is the difference in elevation from the surface of the fuel in bulk tank to the inlet of the supply pump? _____ft.

How far (in feet) will you be piping the fuel? What size will the pipe be (in inches)? How many gallons per minute will you be pumping through the pipe? With this information, use the friction loss tables found in the pump-sizing link of our web site to determine this figure as expressed in feet of head, _____ft.

As you pipe the fuel to the day tank, will it be going uphill, downhill, or basically level? Express this in a positive figure for uphill, a negative figure for downhill, and record it as feet of elevation rise or fall, _____ft.

Now let's total all the feet of head figures from the calculations above and arrive at a total,_____ ft.

(This TDH calculation will be used along with a gallon per minute figure to select your pump using our pump curves)

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Acetank & FUELING EQUIPMENT