



FLOATING SUCTION & SKIMMERS

As the global leader in the design and manufacture of floating suction lines and skimmers, and with more than 800 in service throughout the world, Matrix Applied Technologies Floating Suction and Skimmer leads the industry in proven design and quality. The MAT floating suction or skimmer lines can be custom-designed to meet any tank configuration. All piping and pontoons are fabricated from stainless steel for optimized design and operational longevity.

Suction lines are commonly used for aviation facility Jet-A1 and Avgas tanks, as well as in power plants, crude oil collection tanks, or anywhere the quality of the product to exit the tank is an issue.

There are 2 main suction line types:

- Suspended, most commonly used for fixed roof tanks
- Roller, for use beneath a steel or aluminum floating roof

Both are available in diameters of 3 to 36 inches.

A HIGHER STANDARD IN **PRODUCTS.**

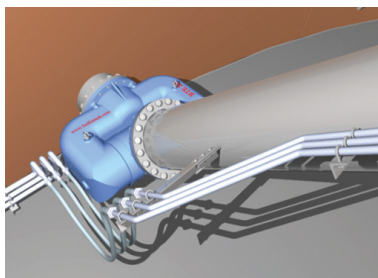
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Level Indicator

Designed to provide a visual indication that the suction line is operating properly, our level indicator consists of a cable connected to the suction line. The cable is connected to a weight running up and down guide rods on the outside of the tank shell and, in addition to providing visual indication that the suction line is operating correctly, also indicates the suction line's position. A level indicator is an imperative when the suction line operates beneath a floating roof.

Sample Lines

Sample lines can be provided on the main suction arm for fuel sampling. Matrix Applied Technologies can provide 3/4 or 1-inch diameter sample lines. Typically, sample points are located at the center of lower third, middle third and upper third of the tank liquid level.



Roller Type Suction Line

Roller type floating suction lines are fitted with rollers that run along the underside of the steel floating roof. No special track is required and the roller can negotiate plate overlaps. The same suction line can operate beneath an aluminium or stainless steel Internal Floating Roof (IFR), however, in this situation, a track must be added beneath the IFR to accommodate the roller. As an IFR manufacturer, Matrix Applied Technologies can design an appropriate suction line track and provide extra buoyancy for aluminium or stainless steel IFRs when necessary.

Articulated Lines

When the tank height is greater than tank diameter, a single arm suction line will not reach maximum liquid level height. In this case, a two-arm or articulated suction line is required. A similar articulated configuration can be used for skimmer lines.

Skimmers

These are designed to skim off a layer of hydrocarbon liquid floating on top of the water. Essentially, a skimmer is designed to remove the top layer of a two-phase liquid stored in a tank. Line sizes are usually 3 or 4 inches in diameter although Matrix Applied Technologies can manufacture larger sizes. Pontoons are designed to float on their centerline at the lowest S.G. tank product. The skimmer plate is located an adjustable distance below.

