

360° Swivel Joint for Floating Suction Skimmer



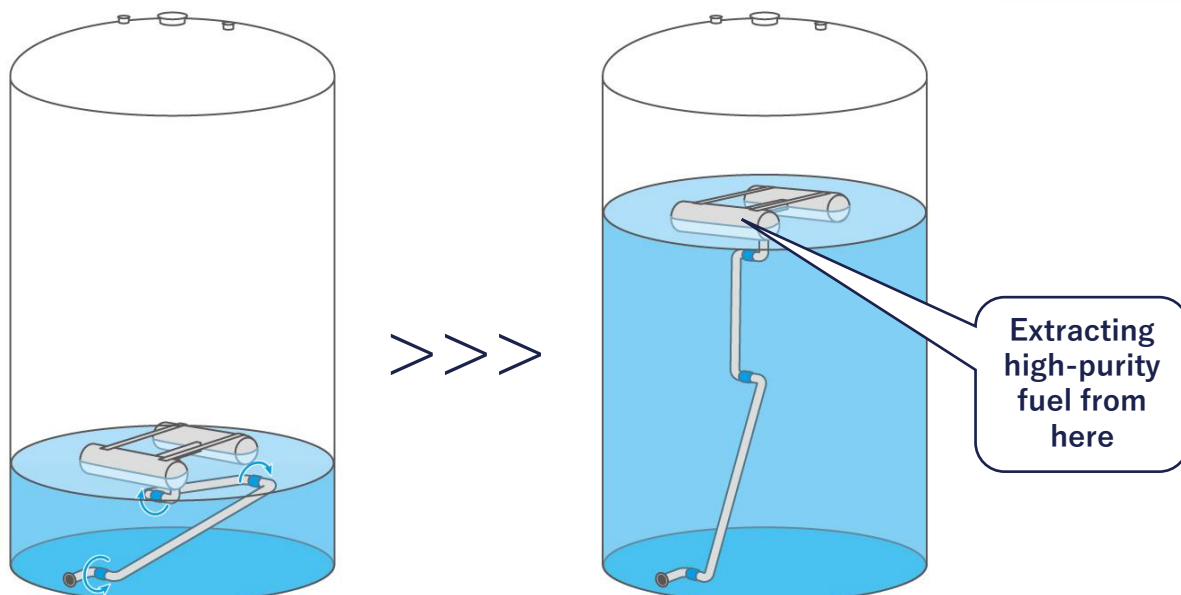
Examples of Use in Fuel Storage Tanks for Overseas Petrochemical Plants and Airports

Adopted by a leading engineering company in Southeast Asia operating in nine countries

Introducing how to use the swivel joint (commonly known as float suction)

A swivel joint, also called a rotary union, is used to rotate pipes or move them forward, left, right, or up and down while transporting pressurized fluids or gases. This time, we will introduce a case study of swivel joints in fuel storage tanks. Fuel storage tanks contain impurities different from fuel, such as water and sediment.

Since these impurities are heavier than fuel and sink to the bottom of the tank, customers requested that the fuel be extracted from the cleanest surface (liquid surface).



**With a combination of swivel joint + piping + float (float),
Pinpoint extraction of the top clarity**

The float, which is at the highest position, always floats on the surface of the fuel due to its buoyancy, so the extraction port is always positioned close to the liquid surface. The height of the liquid level varies up and down depending on the amount of fuel stored, but since the piping section is equipped with a swivel joint, it is possible to keep the fixed piping to follow the level of the liquid. Float suction is essential equipment for maintaining fuel quality, and we contribute to aircraft safety and fuel efficiency through clean fuel extraction. In this case, not only swivel joints but also the design and proposal of the complete ASS'Y set tailored to customer requests led to the adoption decision.

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