

Process Pumps for Tank Farms



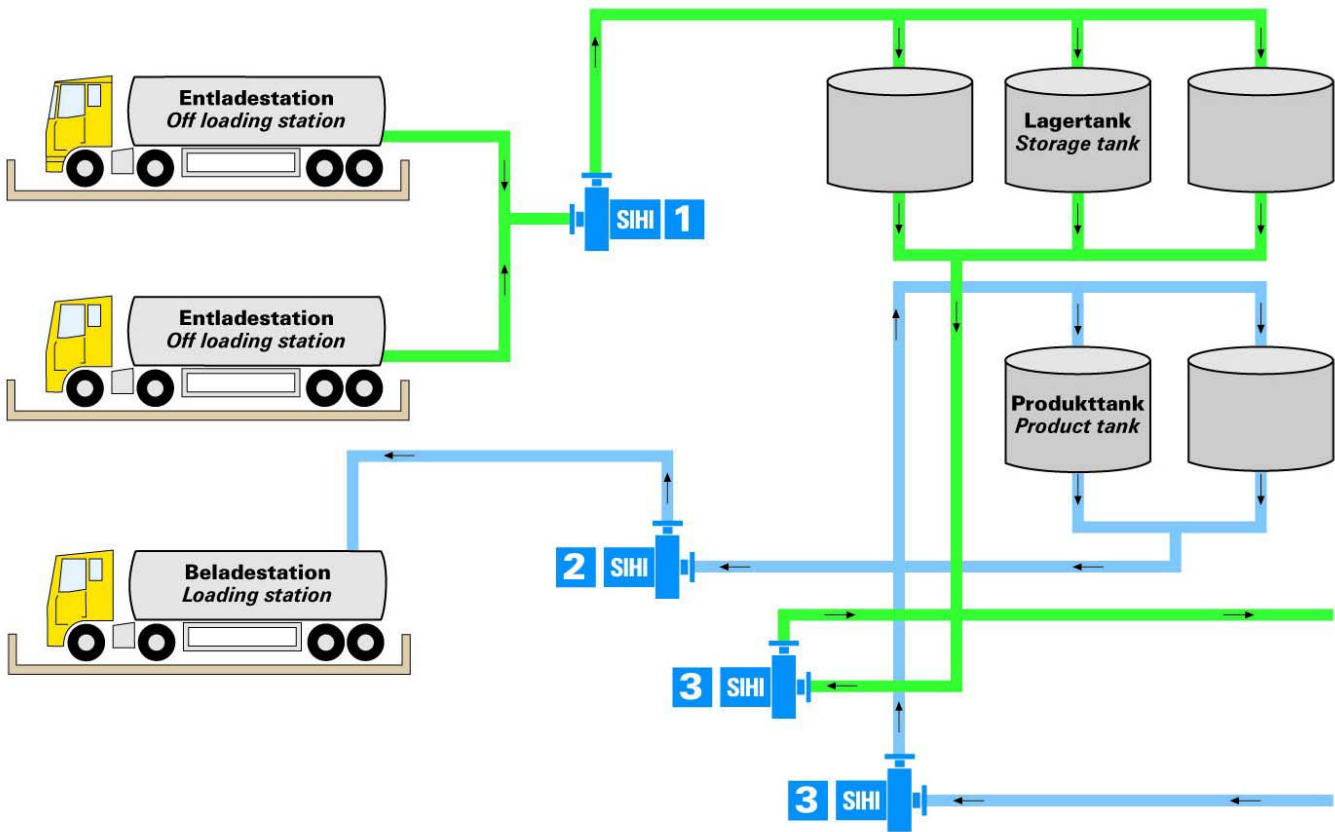
Tank farms are often found in chemical plants and the tanks are used to store both the raw materials for the plants various processes as well as storing the finished products.

In addition to tank farms in process plants there is also the need for tank farms in locations such as in a port where chemicals can be stored prior to them being loaded onto a ship for onward distribution.

On a tank farm the storage vessels can vary considerably in size depending on the product stored. The smaller vessels may store liquids such as solvents where the larger vessels with capacities of several thousands cubic meters may store liquefied gases or other fuels.

Centrifugal pumps are often used in tank farms for both loading and unloading the tanks.

Process Pumps for Tank Farms



An overview of the various Process Pumps

1 Off loading pumps

Off loading pumps are used to transfer the liquids from road tankers, railway tankers or tanker ships into the holding tank. The technical requirements for these pumps are dependent on the physical properties of the liquids to be transferred. These off loading pumps are generally installed close to the off loading station.



















2 Loading pumps

Loading pumps are used to transfer the liquids from the holding tanks into road tankers, railway tankers or tanker ships. The technical requirements for these pumps are dependant on the physical properties of the liquids to be transferred. The transfer of liquefied gases has special requirements with regards to the NPSHR-value of the pumps that are selected. These pumps should therefore be selected to be capable of handling a full range of liquefied gases.

3 Transfer pumps

The transfer pumps are often identical to the loading pumps. The difference is that these pumps are used on site for the transfer of liquids from the holding tanks onto other processes on the plant. Depending on the requirements and properties of the liquids these pumps must be able to generate a higher differential pressure to the loading pumps and therefore multi-stage pumps are often installed.

Innovative Solutions from Sterling SIHI

Process pumps	Pump types	Pump execution			
1 Off loading pumps	Chemical process pumps Type CBS, CBM, CBE, CBT		Capacity: Shaft sealing: Material:	max. 2200 m³/h mechanical seal, mag drive nodular iron, stainless steel, special materials on request	
	Multi-stage centrifugal pumps Type MSL, MSM, MSH		Capacity: Shaft sealing: Materials:	max. 650 m³/h stuffing box, mechanical seal grey cast iron, nodular iron, chrome steel, stainless steel	
	Side channel pumps Type CEH		Capacity: Shaft sealing: Material:	max. 35 m³/h mechanical seal, mag drive nodular iron, stainless steel	
2 Loading pumps	Chemical process pumps Type CBS, CBM, CBE, CBT		Capacity: Shaft sealing: Material:	max. 2200 m³/h mechanical seal, mag drive nodular iron, stainless steel, special materials on request	
	Multi-stage centrifugal pumps Type MSL, MSM, MSH		Capacity: Shaft sealing: Materials:	max. 650 m³/h stuffing box, mechanical seal grey cast iron, nodular iron, chrome steel, stainless steel	
	Side channel pumps Type CEH		Capacity: Shaft sealing: Material:	max. 35 m³/h mechanical seal, mag drive nodular iron, stainless steel	
3 Transfer-pumps	Chemical process pumps Type CBS, CBM, CBE, CBT		Capacity: Shaft sealing: Material:	max. 2200 m³/h mechanical seal, mag drive nodular iron, stainless steel, special materials on request	
	Multi-stage centrifugal pumps Type MSL, MSM, MSH		Capacity: Shaft sealing: Materials:	max. 650 m³/h stuffing box, mechanical seal grey cast iron, nodular iron, chrome steel, stainless steel	
	Side channel pumps Type CEH		Capacity: Shaft sealing: Material:	max. 35 m³/h mechanical seal, mag drive nodular iron, stainless steel	



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