## **SLES Mixing and Dilution Unit**

2019 | 1



## **SLES Mixing and Dilution Unit**

SLES\* is an organic chemical compound with excellent cleansing and foaming properties. For this reason it is **an ingredient of various detergents**, **household products**, **soaps and shampoos**.

SLES is usually supplied to the producers of above liquids at a concentration of 70%.

Due to its physical properties, this concentrated solution is difficult to handle and must be diluted below 27% before using it in the process.

viscosity over 90.000 cP rapid viscosity decrease
70 % 27 % 5 %

Solution concentration

The innovative SLES Mixing and Dilution Unit designed by Tapflo enables an immediate and continuous preparation of a less concentrated SLES solution. This device gives a full control over the process of mixing and dilution while eliminating the necessity of purchasing and maintaining a complex technological installation.





Constant mixing

#### **Features**

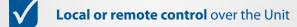


Water and extra additives

70% SLES solution











 feeding 70% SLES solution directly from a road tanker

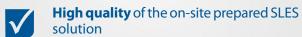
#### **Benefits**













<sup>\*</sup>SLES - sodium laureth sulfate

# **SLES Mixing and Dilution Unit**



## **Design and materials**

Pumps:	<ul> <li>Progressive Cavity Pump for 70% SLES solution feed</li> <li>Centrifugal Pump for mixing SLES with water and pumping the solution</li> </ul>	
Control and automation:	<ul> <li>Control Unit including PLC with a touch screen</li> <li>Pressure transmitters</li> <li>Temperature transmitter</li> <li>Frequency inverters</li> <li>Flowmeters</li> <li>Valves with dedicated control system</li> </ul>	
Piping:	Standard execution in AISI 316 stainless steel	
Frame:	• Construction steel coated with anti-corrosive paint or AISI 316 stainless steel	

### **Technical date**

Flow rate:	up to 30 m³/h
Discharge pressure:	up to 6 bar-g
Concentration of obtained SLES solution:	0 - 27 %

## **Example of SLES Mixing and Dilution Unit**

