AUTONEUTRAL
ACID BASE

APPLICATION

This application uses the customer's own pre-process effluent storage tank. The tank is fitted with a submerged pump to convey the effluents for processing. The pump control system is provided by us. The Autoneutral station is used to neutralise the effluent to bring its pH to an acceptable level.

OPERATION

The station uses the following items:
• A solenoid valve to drain the tank automatically once neutralisation is complete
• An automatic solenoid valve for sampling
• A general control cabinet for the automated operation of the processing unit
- Agitator control
- Solenoid control
- pH-meter to manage the NEUTRALISATION
• The station is Skid-mounted and can be relocated by forklift truck.

All parts in contact with the product are made from 316L stainless steel or PVC. The tank is made from polyethylene. It is placed on a plastic pallet.

DESIGN

A 1,000-litre volume neutralisation tank with :

- An A1 agitator - type PP 1000 – 0.kW – 99 rpm
- An NC solenoid for injecting NaOH, piloted by the pH meter output
- An NC solenoid for injecting H2SO4, piloted by the pH meter output
- A pH probe in the neutralisation tank to send signals to the pH meter
- A 4-level probe (VHL – HL – LL – VLL)
- A pH meter with 2 dry contacts for automating the reactant pumps. pH < 6.5 sodium reagent pump activated pH > 8.5 acid reagent pump activated
- A 100-litre NAOH storage tank, with an «out of reagent» level probe
- A 100-litre H2SO4storage tank, with an «out of reagent» level probe

TECHNICAL DATA

> Drawing for illustration purposes