



We give  
impulses >>>



## **B** TANK UNIT

HIGH-PRESSURE  
FACE SUPPLY SYSTEM

**A** HIGH-PRESSURE  
PUMP

**B** TANK  
UNIT

**C** FILTER  
STATION

**D** EMULSION  
MIXING PLANT

# TANK UNIT

## FUNCTION AND DESIGN

In the high-pressure face supply system the tank unit provides the emulsion for the high-pressure power packs.

The tank has a capacity of 3000 liters as standard.

The tank interior is divided into three segments:

In the two segments at the front end the fluid is returned into the tank.

In the center segment the fluid is drawn in via long suction pipes in order to ensure a smooth suction action. The individual segments are separated by means of smoothing plates.

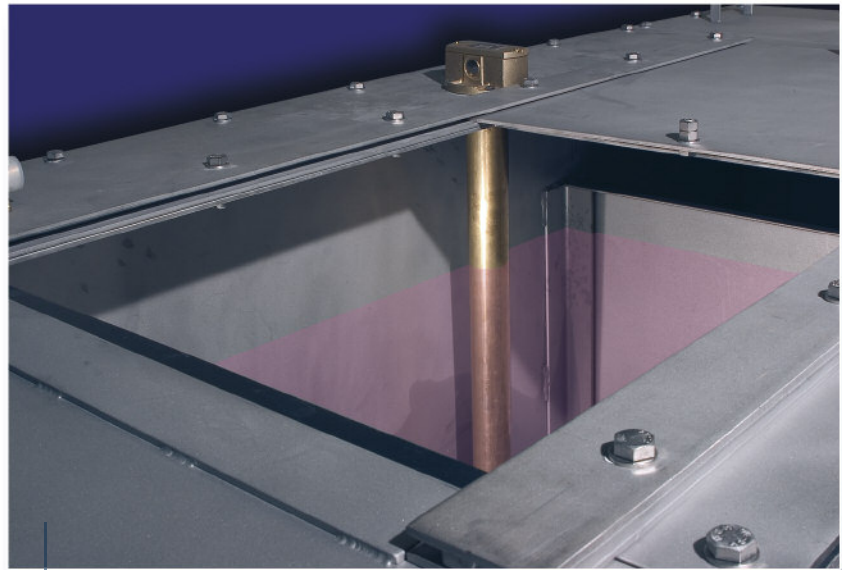
Filling level and temperature of the fluid are monitored separately for each high-pressure pump unit by means of level and temperature switches. These switches shut down the high-pressure pump units above the suction pipes via the pump control system when the fluid drops below a defined level so that the intake of air with consequential dry running of the pumps is prevented.

A third level and temperature switch transmits the necessary information for the emulsion mixing plant to the master control unit. Upon reaching the switching point "top up emulsion" or "tank full" the emulsion mixing plant is either put into operation to refill the tank or switched to a stand-by mode.

Ports in different nominal sizes according to the requirements of the customer are provided at the front for the supply to the tank and close to the bottom there is a closed drain hole. Integrated ports offer the possibility to interconnect several tanks in order to increase the tank capacity, if required. The suction ports and the ports for connecting the tank can be closed individually by means of shut-off valves.

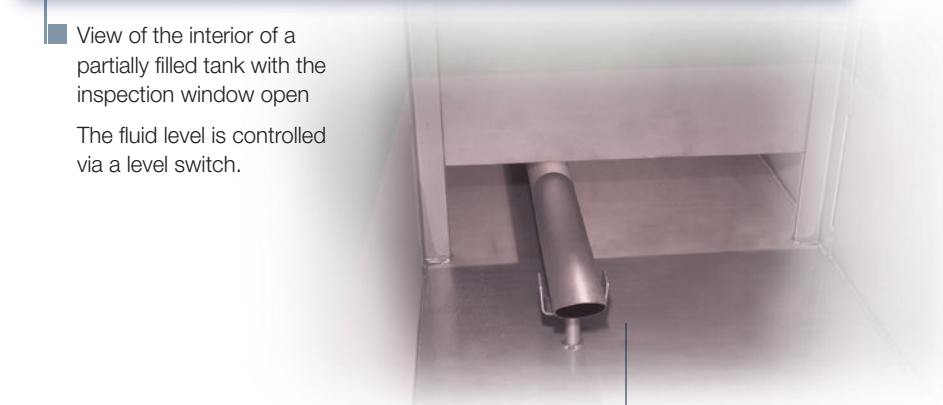
The top of the tank is closed by screwing on cover plates which are equipped with rubber seals preventing that fluid can escape. The inspection opening for checking and cleaning the tank is also provided at the top.

Two cable and hose holders each are located at the side of the tank. Four specially arranged lifting eyes permit space-saving manoeuvring of the tank during transport.



View of the interior of a partially filled tank with the inspection window open

The fluid level is controlled via a level switch.



Flow-optimized suction of the emulsion



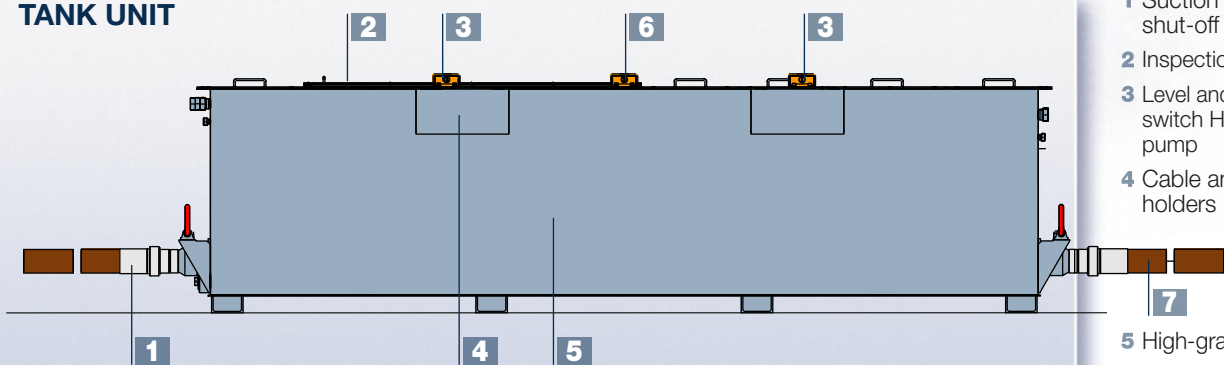
Level and temperature switch connected with screened and weatherproof data cables



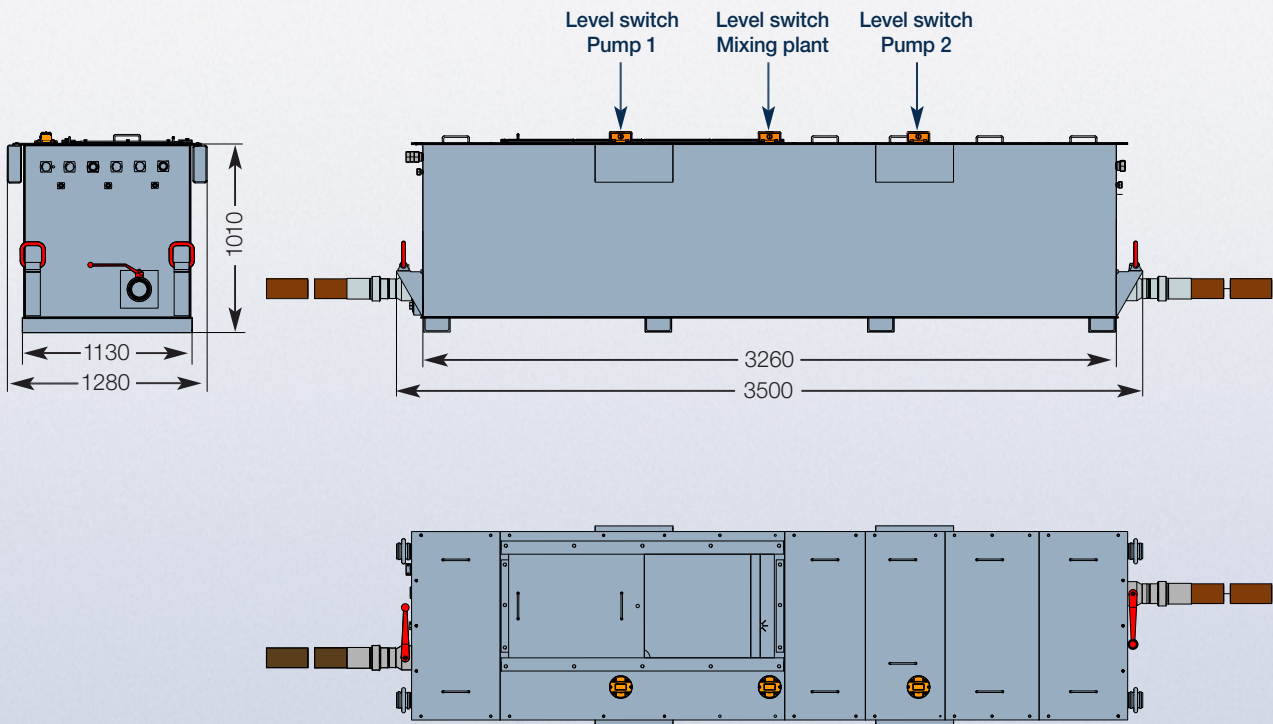




## TANK UNIT



- 1 Suction line with shut-off valve
- 2 Inspection window
- 3 Level and temperature switch High-pressure pump
- 4 Cable and hose holders
- 5 High-grade steel tank
- 6 Level switch Emulsion
- 7 Suction line with shut-off valve





■ Ports of different nominal sizes; below the suction line with shut-off valve

## TECHNICAL DATA

### TANK UNIT

Material	high-grade steel
Capacity	3000 l
Length	3500 mm
Width	1280 mm
Height	1070 mm
Tank connection / suction line	G3 pipe thread – DN80
Drain	G2 pipe thread
Ports	4x G 1 1/2 3x G 1/2 2x G 2

The technical data listed here refer to the standard design.  
▶ Further options are available upon request.

Subject to technical alterations