
Distillation Top for 2 x 10 m³ glass-lined steel vessel



For an European manufacturer of Phytopharma products have been two product lines installed, each with 10 m² agitated glass-lined steel vessel.

The project covered beside the vessels the whole engineering and assembly with feed and collector vessels up to 400 l, shell & tube heat exchangers up tot 20 m² as well as the whole product piping made of borosilicate glass 3.3.

The energy supply with steam, thermofluid cycle and cooling water made of stainless steel and plastic piping from the central station or ring pipe line has been installed as well.

Charakteristics:

- 2 x 10 m³ jacketed glass-lined steel reactor with agitator & drive
 - including insulation
 - manual bottom outlet valve
 - glass-lined steel impeller stirrer
 - double mechanical seal with thermosiphon
- 300 l and 400 l feed & collector vessels, graduated, made of borosilicate glass 3.3, including splinter protection coating
- Solid dosing station
- Measures for
 - pressure
 - temperature
 - pH
- 20 m² shell & tube heat exchanger, borosilicate glass 3.3
- All safety valves and bursting discs according to HAZOP-study
- Media supply for heating and cooling of the process
- Guide lines
 - pressure equipment directive, PED 97/23 EG
 - ATEX, EX-Zone 1/2, temperature class T3, explosion group IIB
 - TA-Luft conformity for all connections and valves
 - FDA-material certificate