Dispergator in 20 Feet Container

G.Haiden / 02.04.2014 Information (not specified)





1. Container, describtion

Machinery from IKA for disolving powder products build in a 20" sea container Total weight 12Mto. controlunit with high level automation electrical SPS control unit with visualization . frame of Container build of steel ST 37-2; fully lacquered high mobility, easy to transport

the container has several openings (on the side, on top, ...) to connect with other equipment (e.g. tanks, mixing vessels, ...)

The machine was build in 2008 and was only working a few days for proofing the capability.

2. Dosing of powder for dissolving

high precision dosing by a screw powder quantity: 1-5m³/h of flowable powder 1,2m³ powder reservoir of stainless steel outlet is DN200 "stirring" unit in powder reservoir engine for the screw number of revolutions controlled by ac drives

sensor in reservoir for level control safety sieve made of stainless steel unbalanced motor for vibrations tube with DN175 and valve control unit for humidity



3. dosing of liquids

3.1 water:

Monopump; 4000-15000L/h, max. 50Pas Viscosity 5,5kW performance of engine, 230/400V, Schutzart IP65, made of stainless steel liquid level sensor, tubes DN100 measurement of volumetric flow

tube DN80 to the Dispergator valves are electrical - pneumatic

<u>3.2 dosing of viscose liquids (e.g. PCE)</u> monopumpe; 4000-15000L/h, max. 50Pas Viscosity monopumpe; 4000-15000L/h, max. 50Pas Viscosity liquid level sensor, tubes DN80 measurement of volumetric flow



5 electrical-pneumatic valves; 5 tubes out, posibility for rinsing with water

<u>3.2 dosing of liquids in small amounts</u> possibility of 2 different types pneumatic pump; max 220L/h 0,18kW performance of engines, 230/400V, made of PVDF, sealing made of tubes DN20 to the water line, valve valve electrical pneumatic



4 Dispergator

Dispergator IKA MHD-Plant 2000/30 Inline Mixing and Dispersing of powder and liquids

20000L/h max. troughput of water max. 85°C temperature, max. 50Pas viscosity of finished solution

engine, drive with fan belt 45kW performance of the engine; at 50Hz 1500min⁻¹, Schutzart IP55,

Mixing tool; screw 1SA DN175, Generator 2PP, entering liquid DN88, entering powder DN175, leaving tube DN125,

special sealing technology

leaving tube DN125; 2 tubes from dispergator to e.g. mixing vessel

ByPass line to MHD; tube DN80, to waterline or monopump 2,



5 Electrical control unit

cabinet incl. HMI, Software for the control of the unit / visualization Software (SPS) Language German / English

Automatic program, manual program Visualization control of pumpes and valves, posibility to specify the end product alarms



6 overview, scetch

