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Technical specifications for flammable products filling line

Purpose and mechanical construction

- Filling line is designed to packaging flammable liquids into dedicated containers with a capacity up to 1000 dm^3
- Filling lance made of stainless steel(material DIN 1.4404), having a length 1000 mm and diameter of 40/50 mm
- PFTE, Viton seals
- Platform scale and digital display designed for explosion hazard area(Ex II 2 GD T4)
- Platform scale made of stainless steel(material DIN 1.4301)
- Platform scale dimensions: 1200x1200 or 1250x1250 mm
- Platform scale maximum capacity is 3000 kg
- Platform scale accuracy 0,5 kg
- Filling line arm made of stainless steel(material DIN 1.4435)
- Filling line arm weight(including accessories) is approx 120 kg
- Arm has two degrees of freedom
- Filling line equipped with a vapor extraction system connection
- Filling line equipped with a clamps designed to testing the containers grounding

Control system

- Control cabinet located outside explosion hazard area
- Cabinet with valves located no more than 5 m from the filling line
- Cabinets made of glass fiber reinforced polyester
- Cabinets degree of protection is IP66 and provide double isolation in accordance with EN60529 and IEC529
- Control system based on PLC GE Fanuc
- Control elements which working in explosion hazard area are designed as a intrinsically safe circuits(Ex ia IIC)

Control system functions

- Lifting and lowering of the filling lance
- Opening and closing of the filling lance
- Container grounding control
- Filling line arm blockade
- Weight set point control
- Overflow or container leak control
- Controlled roller conveyor(optional)
- Blockade from external vapor extraction system
- Pump work control
- Weight auto correction function
- Blockade from independent explosive detection system

Supply

- Power supply: 3x400 Vac, current consumption: I<16 A
- Instrument air: 0.55 – 0.65 MPa, filtred 40 µm