

SDP 050



Automated pumping station

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DESCRIPTION

- The unit is delivered complete, with instrumentation and with technical documentation and instructions.
- The system consists of a tank and three pumps which have to supply the distribution tank (water tower).
- The consumption is adjusted by a leak-flow valve connected to the distri| Réservoir A
- The cycle is managed by an industrial programmable controller.



SUGGESTED APPLICATIONS

This unit had been created for new sections involving electronic control

- Study of the concepts of a water pumping station
- Measurement of the parameters involved in pumping water to specific heights
- Rotation of the pumps and maintenance operations
- Regulation - PID type on frequency variator of TOR (all or nothing)
- Programming the API controller

PRINCIPLE DIAGRAM

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TECHNICAL CHARACTERISTICS

- 3 similar motor driven pumps
 - Three-phase engine – 0.37 kW
 - Body and wheel in bronze
 - Closed wheel type
 - Each pump has its own adjustment valve and insulating valve

- Frequency control
 - Easy vectorial control
 - Programming keyboard
 - Constant or quadratic couple mode
 - External-instruction inlet from the controller

- Analogue level sensor
 - Floater principle
 - All the parts in contact with the fluid are stainless steel
 - 4-20 mA-outlet in current loop

- Programmable Controller
 - Reference MODICON TSX37
 - 16 inlets– 12 outlets TOR
 - 8-inlets modulus 4-20 mA 12 bits
 - 2-outlets modulus 0-10 Vdc 11 bits
 - Provided with programming software PL7 Micro for Windows 95 or more recent
 - Programming Grafset, with contact or literal is possible

- Safety elements
 - Differential breaker - 30 mA
 - High and low level detector

- Tank
 - Inferior : polypropylene, capacity 150 L
 - upper : polypropylene, capacity 150 L, level on the height : 900 mm

UTILITIES

Electric supply : 400 V TRI + NEUTRAL – 50 Hz

DIMENSIONS

Length : 1 700 mm
Width : 750 mm
Height : 2 200 mm
Weight : 90 kg