

OPERATING LIMITS

| | |
|--------------------------|----------------------|
| Flow up to: | 10 m ³ /h |
| Max. operating pressure: | 10 bar |
| Max. discharge pressure: | 1,5 to 3 bar |
| Temperature range: | 0° to +60°C |
| Orifice ND (threaded): | G1 |
| Max. current: | 10 A |
| Protection: | IP 65 |

ACSON

AUTOMATIC CONTROL DEVICE For domestic pumps 50 Hz - 60 Hz

ADVANTAGES

- **Versatility**
- **Automatic starting and stopping.**
- **Water shortage protection.**
- **Anti-hammering safety.**
- **Simplicity**
- **Display of each function by means of lighted indicator lights and pressure gauge.**
- **Flexibility**
- **Starting pressure adjustable according to the available city water pressure.**
- **Reliability**
- **Internal components resistant to corrosion.**

DESIGN

- ACSON is a hydraulic system designed for the automation and protection of pumps.
- The pump engaging pressure can be adjusted between 1,5 and 3 bars.
- A pressure gauge displays the pressure.
- The assembly is possible on right or left.
- As a standard fitting, it comes with a non-return valve.
- Power supply voltage: single-phase 220-240V.

STANDARD CONSTRUCTION

| Main parts | Material |
|----------------------------|----------------------|
| Housing | Composite |
| Membrane | Natural rubber* |
| Spring | Cadmium-plated steel |
| Non-return valve (suction) | Composite |
| Seals | Nitrile |

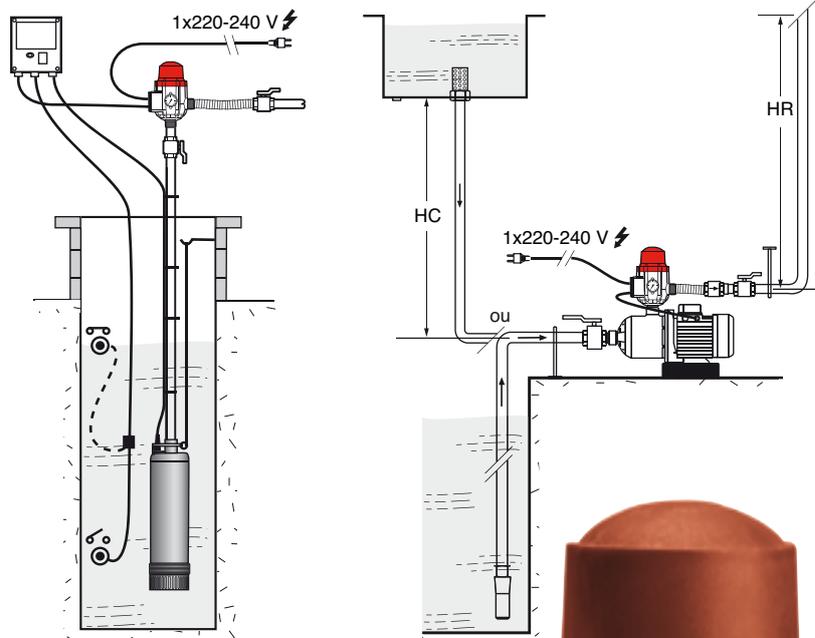
* Food quality.

APPLICATIONS

Protection, control and automatic management of pump operation in a domestic water supply installation.

ACSON is recommended for every water supply installation for watering and washing.

Use with a AQUASON, SPRINGSON, HYDROSON, MULTI-H (including Multi-H 316L)



• SPRINGSON PAC (equipped with ACSON device)



• ACSON

THEORY OF OPERATION

Automation

As soon as a valve opens, the pressure drops in the installation and the pump starts instantly at a 1.5 bar threshold, preset in the works. This threshold can be increased up to 3 bar on site depending on the city water pressure (or HR, HC).

The operation of the pump will last provided there is a minimum flow rate through the network.

“Anti-hammering” safety

When the valve is closed, the pump stops automatically after a time delay of 3 to 5 seconds. This time delay dispenses with the need to install a tank.

Water shortage safety

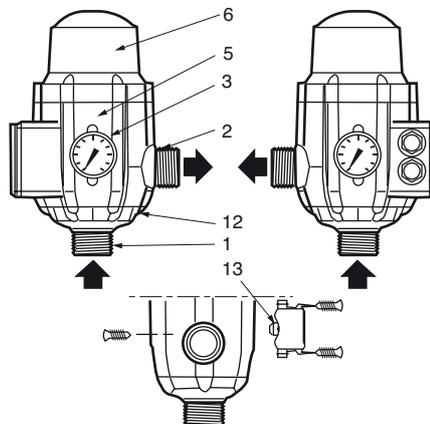
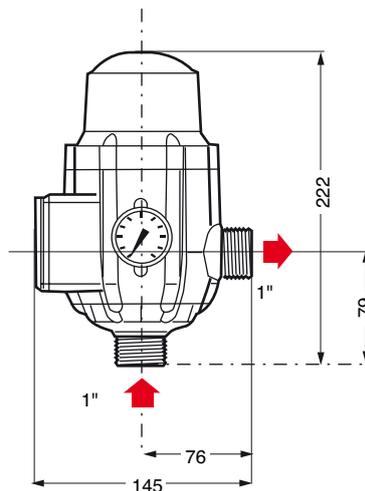
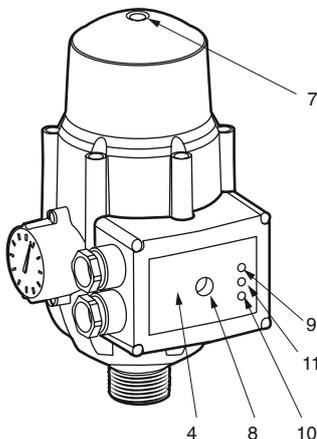
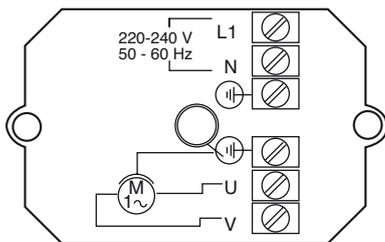
The logic control protects the pump against water shortage by stopping the motor. This stoppage is indicated by the lighting of the «alarm» lighted indicator. Restarting of the pump must be activated manually using the «RESET» button.

Even when a logic control is used, the characteristics of the pump will be preserved entirely.

The self-priming function is ensured by holding the «RESET» key down during priming.

DESCRIPTION

- 1- Suction orifice with integrated non-return valve
- 2- Discharge orifice
- 3- Pressure gauge (0 - 10 bar)
- 4- Electric unit with electronic board incorporating water shortage protection by motor stoppage and pump and network connecting box
- 5- Hydraulic chamber with membrane
- 6- Compensation chamber with spring
- 7- Pump tripping pressure adjusting screw
- 8- Reset button (RESET)
- 9- Power indicator light (POWER)
- 10- Pump operating indicator light (ON)
- 11- Safety system activation indicator light (ALARM)
- 12- Internal cover
- 13- Pressure gauge access



ACSON AND PUMPS

ACSON is designed to automate surface pumps (SPRINGSON, HYDROSON, MULTI-H) and well pumps (AQUASON) designed to pump clear water.

It can be connected either directly to the pump discharge (if DNR = G1) or to a rigid pipe between the pump and the ACSON.

To avoid any constraints affecting the ACSON housing, it is advisable to use a flexible pipe on the discharge side.

ACSON can be used with a pump connected to the city water network without a water shortage protection device (city water pressure less than or equal to 1 bar) because it is incorporated into the logic control system. For this reason, a non-return valve on the discharge between the pump and the logic control is pointless.

FEATURES

a) Electrical

- ACSON is designed to operate on 220-240 V, 50 Hz or 60 Hz single-phase current (3-phase current possible, consult us).
- Connections to terminal block by stuffing box.

b) Installation

- In vertical position only.
- Direct connection to pump discharge port or to rigid pipe between pump and ACSON.

c) Conditioning

- Supplied in cardboard pack with assembly manual.

d) Maintenance

- Standard replacement of equipment recognized to be defective during its warranty period.

OPTION KIT ACSON including:

- Electric cable for connection between motor and logic controller (l = 0,6 m).
- Electric cable with standardized connector (2 pole + ground) for connection to ground (l = 1,5 m).
- ØG1 flexible hose for link between logic controller and installation water supply.

| Order reference | Item reference |
|-----------------|----------------|
| Kit acson | 4046703 |