

ELECTRONIC FLOW CONTROL



HIDROMATIC H2

- Complete replacement of the traditional water system set consisting on pressure switch and pressure tank
- Control the starting of the electric pump after a pressure decrease (taps opening) and stopping when the fluid flow interrupt at the maximum pressure level of the electric pumps (taps closing)
- Protection against dry running
- Starting pressure adjustable during the installation
- Standard 1" M hydraulic connections
- Installation in any position - both vertical and horizontal according to the flow direction
- Easily replaceable electronic printed circuit board
- No need of maintenance

| TECHNICAL DATA | |
|--------------------------------|---------------------------|
| Power supply | 110-230V ac ± 10% 50/60Hz |
| Max rated current | 12 A |
| Starting pressure range | 1 - 3,5 bar |
| Max pressure | 10 bar |
| Protection degree | IP65 |
| Max fluid temperature | 55 °C |
| Max ambient temperature | 55 °C |



HIDROTANK H1

- Automatic start and stop operations of single-phases electric pumps up to 2 HP
- Replacement of the traditional water system set consisting on pressure switch and pressure tank.
- Control the starting of the electric pump after a pressure decrease (taps opening) and stopping when the fluid flow interrupt at the maximum pressure level of the electric pumps (taps closing)
- Protection against dry running
- Starting pressure adjustable during the installation
- Standard 1" M hydraulic connections
- Installation in any position-both vertical and horizontal - according to the flow direction
- Easily replaceable electronic printed circuit board
- No need of maintenance
- Thanks to the 0,4 lt. tank it protects from the frequent start-stop required by small request of water and from any losses into the system
- Protection of the electronic board thanks to the new watertight compartment
- Protection from water-hammer
- New design and new concept
- Built in 0,4 lt. tank
- Built in pressure gauge
- Watertight electronic part

| TECHNICAL DATA | |
|--------------------------------|---------------------------|
| Power supply | 110-230V ac ± 10% 50/60Hz |
| Max rated current | 12 A |
| Starting pressure range | 1 - 3,5 bar |
| Max pressure | 10 bar |
| Protection degree | IP65 |
| Max fluid temperature | 35 °C |

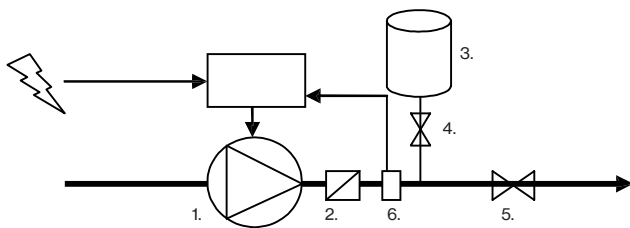


VARIABLE SPEED DRIVE



Frequency 48-62 Hz
 Max ambient temperature 40°C (104°F)
 Max humidity 50% a 40°C
 Max altitude 1000 m
 PWM configurable 2,5; 8 KHz
 Complies with the electromagnetic conformity directive

| V in (±15%) | V out | I line max | I out max | P2 | Kg |
|-------------|---------|------------|-----------|--------|-----|
| 1-230 V | 3-230 V | 11 A | 7,5 A | 2,5 HP | 2,5 |



1. Pump
2. Non return valve
3. Pressure tank
Pressure tank volume suggested: 10% of the capacity of the system
4. Valve-Tap
5. Valve
6. Pressure sensor

| VSD Variable Speed Drive | TYPE | up to | |
|-----------------------------|---------|-------|------|
| | | P2 | |
| | | HP | kW |
| EPIC | CAM | 2 | 1,5 |
| | CAB | 2 | 1,5 |
| | INOX | 1,5 | 1,1 |
| | MPX | 1,2 | 0,88 |
| | MB | 2 | 1,5 |
| | CM | 1,5 | 1,1 |
| | CR | 1 | 0,74 |
| | CS 2" | 2 | 1,5 |
| | CH | 1,5 | 1,1 |
| | CB | 1,5 | 1,1 |
| | ULTRA 3 | 2,5 | 1,85 |
| | ULTRA 5 | 2,5 | 1,85 |
| | ULTRA 7 | 2,5 | 1,85 |
| ULTRA 9 | 2,5 | 1,85 | |
| ULTRA 18 | 2,5 | 1,85 | |



VARIABLE SPEED DRIVE



It's a variable frequency device (inverter); specifically designed for control and protection of electric pumps. Connected to any electric pumps regulates the motor speed in order to manage the pumps performance in relation to operating conditions and requests of the system. Consists in compact electronic units equipped with microprocessor contained in an aluminium structure that grants strenght, ease cooling.

The advantages of the use of IPFC:

- Energy saving
- Simple Installation
- Overload protection
- Dry running protection
- Noise reduction
- Soft Start & Stop
- Installation options: directly on the motor cover of the pump or wall installation

| TYPE | IPFC 109 | IPFC 114 | IPFC 306 | IPFC 309 | IPFC 311 | IPFC 314 | IPFC 318 | IPFC 325 | IPFC 330 | IPFC 338 | IPFC 348 | IPFC 365 | IPFC 375 | IPFC 385 |
|--------------------------------------|--|----------------------|-----------|-----------------|----------|--------------------|-----------|-------------------------------|----------|------------|--------------------|-----------|-----------|-----------|
| Input rated voltage | 1 × 230 V ± 15% | | | 3 × 400 V ± 15% | | | | | | | | | | |
| Output rated voltage | 1 × 230 V 3 × 230 V | | | 3 × 400 V | | | | | | | | | | |
| Output rated current | 9 A 1- 7 A 3- | 9 A 1- 11 A 3- | 6 A 3- | 9 A 3- | 11 A 3- | 14 A 3- | 18 A 3- | 25 A 3- | 30 A 3- | 38 A 3- | 48 A 3- | 65 A 3- | 75 A 3- | 85 A 3- |
| Output rated power | 1,1 kW 1- 1,5 kW 3- | 1,1 kW 1- 3 kW 3- | 2,2 kW 3- | 4 kW 3- | 4 kW 3- | 5,5 kW 3- | 7,5 kW 3- | 11 kW 3- | 15 kW 3- | 18,5 kW 3- | 22 kW 3- | 30 kW 3- | 37 kW 3- | 45 kW 3- |
| Max motor current | 7,2 A 1- 6,3 A 3- | 7,2 A 1- 9,9 A 3- | 5,4 A 3- | 8,1 A 3- | 9,9 A 3- | 12,6 A 3- | 16,2 A 3- | 22,5 A 3- | 27 A 3- | 34,2 A 3- | 43,2 A 3- | 58,5 A 3- | 67,5 A 3- | 76,5 A 3- |
| Input frequency | 50 - 60 Hz | | | | | | | | | | | | | |
| PWM frequency | 2,5 - 4 - 6 - 8 - 10 - 12 kHz settable | | | | | | | | | | | | | |
| Control panel | backlight LCD with 2 x 16 characters and buzzer / Bluetooth® SMART 4,0 | | | | | | | | | | | | | |
| Input analogical signals | 4 × 4 - 20 mA | | | | | | | | | | | | | |
| Input digital signals | 2 | | | | | | | | | | | | | |
| Communication | RS485 / Bluetooth SMART 4,0 | | | | | | | | | | | | | |
| 2 DOL Auxiliary pump contacts | clean, NO, 230 V, I _{max} , 6 A | | | | | | | | | | | | | |
| Cooling | Auxiliar built-in cooling fan /mot fan | | | | | | | | | | | | | |
| Protection degree | IP55 (IP54 for IPFC 338 < > IPFC 385) | | | | | | | | | | | | | |
| Assembly | on motor fan cover with kit / hang on wall with kit | | | | | | | on motor feet / wall with kit | | | | | | |
| Max ambient temperature | 40° C | | | | | | | | | | | | | |
| Max ambient altitude | 1000 m slm / de-rate 2% each 100 m | | | | | | | | | | | | | |
| Input / Output feeding cable | 2 × PG 13,5 + 3 × PG 9 | | | | | | | | | | | | | |
| Dimension | 181 × 181 × 228 mm | | | | | 260 × 260 × 180 mm | | | | | 410 × 680 × 260 mm | | | |



PRESSURE TRANSDUCER

| TYPE | Output signal | Input voltage | Working pressure | Maximum pressure |
|------|---------------|---------------|------------------|------------------|
| SPD | 4... 20 mA | 9... 28 V | 0 - 25 bar | 32 bar |



PROTECTION/CONTROL PANEL

Legend

| SERIES | ELECTRICITY SUPPLY | | N. PUMPS | | | PUMP TYPE | | | POWER P2 | SPEED | | MOTOR STARTER | | | FEATURE | | | |
|--------|--------------------|----|----------|---|---|-----------|-------------|---------|------------|-------|----------|---------------|-----|------------|-----------------|---------------------------------|---------------------------------|--------------------------|
| | 1~ | 3~ | 1 | 2 | 3 | Borehole | Submersible | Surface | Kw | Fixed | Variable | DOL | Y/Δ | Soft start | Impedance start | Switch with overload protection | Electromechanical control panel | Electronic control panel |
| PML | ■ | - | ■ | - | - | ■ | - | ■ | 0,37 ÷ 2,2 | ■ | - | ■ | - | - | - | ■ | - | - |
| PMC | ■ | - | ■ | - | - | ■ | ■ | ■ | 1,1 ÷ 1,5 | ■ | - | ■ | - | - | - | ■ | - | - |
| PMLD | ■ | - | ■ | - | - | - | ■ | - | 1,1 ÷ 1,5 | ■ | - | ■ | - | - | - | ■ | - | - |
| PT | - | ■ | ■ | - | - | ■ | ■ | ■ | 0,37 ÷ 15 | ■ | - | ■ | - | - | - | ■ | - | - |
| EQSM | ■ | - | ■ | - | - | ■ | ■ | ■ | 0,37 ÷ 15 | ■ | - | ■ | - | - | - | - | - | ■ |
| EQSMT | - | ■ | ■ | - | - | ■ | ■ | ■ | 0,55 ÷ 15 | ■ | - | ■ | - | - | - | - | - | ■ |
| QST | - | ■ | ■ | - | - | ■ | ■ | ■ | 4,5 ÷ 220 | ■ | - | - | ■ | - | - | - | ■ | - |
| QSS | - | ■ | ■ | - | - | ■ | - | ■ | 7,5 ÷ 220 | ■ | - | - | - | ■ | - | - | ■ | - |
| QRS | - | ■ | ■ | - | - | ■ | - | ■ | 4,5 ÷ 220 | ■ | - | - | - | - | ■ | - | ■ | - |
| EQ2SM | ■ | - | - | ■ | - | ■ | ■ | ■ | 0,37 ÷ 15 | ■ | - | ■ | - | - | - | - | - | ■ |
| EQ2SMT | - | ■ | - | ■ | - | ■ | ■ | ■ | 0,55 ÷ 15 | ■ | - | ■ | - | - | - | - | - | ■ |
| Q2ST | - | ■ | - | ■ | - | ■ | ■ | ■ | 4,5 ÷ 220 | ■ | - | - | ■ | - | - | - | ■ | - |
| EQ3SM | ■ | - | - | - | ■ | ■ | ■ | ■ | 0,25 ÷ 1,5 | ■ | - | ■ | - | - | - | - | - | ■ |
| EQ3SMT | - | ■ | - | - | ■ | ■ | ■ | ■ | 0,37 ÷ 5,5 | ■ | - | ■ | - | - | - | - | - | ■ |

Overload protection unit for 1 single-phase pump with run capacitor



- Power supply 1x230V-50/60Hz
- Electrical switch
- Run capacitor
- Externally resettable thermal relay
- Illuminated 0-1 main switch
- IP55 rated thermoplastic enclosure
- Outputs with cable gland

| TYPE | A | RUN CAPACITOR (μF) | POWER | |
|--------------|----|--------------------|-------|------|
| | | | HP | kW |
| PML 5/16-4 | 4 | 16 | 0,5 | 0,37 |
| PML 5/20-4 | 4 | 20 | 0,5 | 0,37 |
| PML 7/20-6 | 6 | 20 | 0,75 | 0,55 |
| PML 7/25-6 | 6 | 25 | 0,75 | 0,55 |
| PML 10/30-7 | 7 | 30 | 1 | 0,75 |
| PML 10/35-7 | 7 | 35 | 1 | 0,75 |
| PML 15/40-10 | 10 | 40 | 1,5 | 1,1 |
| PML 20/50-13 | 13 | 50 | 2 | 1,5 |
| PML 20/60-13 | 13 | 60 | 2 | 1,5 |
| PML 30/75-18 | 18 | 75 | 3 | 2,2 |
| PML 30/80-18 | 18 | 80 | 3 | 2,2 |
| PMC 15/35-15 | 15 | 35 | 1,5 | 1,1 |
| PMC 20/50-18 | 18 | 50 | 2 | 1,5 |

PROTECTION/CONTROL PANEL

Overload protection unit for 1 single-phase pump with run capacitor + start capacitor with disjuncter



PMLD

- Power supply 1x230V-50/60Hz
- ON/OFF switch
- Electrical switch
- Run + start capacitor with disjuncter
- Externally resettable thermal relay
- Green illuminated main switch
- IP55 rated thermoplastic enclosure
- Outputs with cable gland

| TYPE | A | RUN CAPACITOR (μF) | START CAPACITOR (μF) | POWER | |
|---------------|----|--------------------|----------------------|-------|-----|
| | | | | HP | kW |
| PMLD 15-35-13 | 13 | 35 | 80 | 1,5 | 1,1 |
| PMLD 20/50-15 | 15 | 50 | 80 | 2 | 1,5 |

Overload protection unit for 1 three-phase pump



PT

- Power supply 3x400V-50/60Hz
- ON/OFF switch
- Protective device with thermal relay for motor overload or phase failure
- Thermoplastic enclosure
- IP55 protection level

| TYPE | A | POWER | |
|---------------------|-----------|---------|---------|
| | | HP | kW |
| PT 5/0,9-1,3 | 0,9-1,3 | 0,5 | 0,37 |
| PT 7/1,3-2,1 | 1,3-2,1 | 0,75 | 0,55 |
| PT 10/1,9-3 | 1,9-3 | 1 | 0,75 |
| PT 15-20/2,9-4,5 | 2,9-4,5 | 1,5-2 | 1,1-1,5 |
| PT 20-30-40/4,3-6,8 | 4,3-6,8 | 2-3-4 | 2,2-3 |
| PT 40-50/5,7-9,1 | 5,7-9,1 | 4-5,5 | 3-4 |
| PT 55-75/8,6-13,5 | 8,6-13,5 | 5,5-7,5 | 4-5,5 |
| PT 100/12,5-16,5 | 12,5-16,5 | 10 | 7,5 |
| PT 125-150-16-21 | 16-21 | 12,5-15 | 9,2-11 |
| PT 200/22-29 | 22-29 | 20 | 15 |

Electronic control panel for 1-2-3 pumps with direct start-up



- Single-phase version 100-240Vac 50/60Hz
- Three-phase version 310-450Vac 50/60Hz
- LCD display for voltage, current, power factor, hours of operation, number of starts, motor status, alarms, analogue signal and thresholds
- AUTOMATIC - 0 - MANUAL operation buttons
- Voltage and current minimum and maximum electronic control, failure or incorrect phase sequence control on power supply input
- Programmable anti-seize autotest
- Dry running protection through level probes/ floats/ pressure switches and minimum current
- Up to 6 control inputs: floats/pressure switches
- Input for 4-20 mA or 0-10V analogue signal
- Analogue signal cm - m - bar
- Emergency start and stop inputs with analogue signal
- Clickson thermal pad inputs with automatic reset
- Inversion of inputs (from normally open to normally closed)
- Activation delay from mains return
- Manual button operation (fixed or pulse)
- Programmable alarms for voltage, levels, motor overload, minimum motor current, clicson, output contacts, starts/hour
- Automatic reset for minimum current alarm with 4 programmable times
- Auxiliary and motor protection fuses, isolator protection, duty standby protection
- ABS box IP55. Metallic box IP55 for EQ3SMT
- Duty-standby and motor changeover in the case of a fault for two-pump and three-pump control panels
- Predisposition for capacitors for single-phase versions (capacitors are available separately)

| TYPE | VERSION | PUMPS N. | A | POWER | | WEIGHT (Kg) |
|-----------|---------|----------|-------|---------|----------|-------------|
| | | | | HP | kW | |
| EQSM | 1- | 1 | 0-18 | 0,5-3 | 0,37-2,2 | 1,5 |
| EQSMT 10 | 3- | 1 | 0-18 | 0,75-10 | 0,55-7,5 | 2,3 |
| EQSMT 15 | 3- | 1 | 16-25 | 10-15 | 7,5-11 | 2,5 |
| EQSMT 20 | 3- | 1 | 16-32 | 15-20 | 11-15 | 3 |
| EQ2SM | 1- | 2 | 0-18 | 0,5-3 | 0,37-2,2 | 1,5 |
| EQ2SMT 10 | 3- | 2 | 0-18 | 0,75-10 | 0,55-7,5 | 2,5 |
| EQ2SMT 15 | 3- | 2 | 16-25 | 10-15 | 7,5-11 | 3 |
| EQ2SMT 20 | 3- | 2 | 16-32 | 15-20 | 11-15 | 3,5 |
| EQ3SM | 1- | 3 | 0-18 | 0,5-3 | 0,37-2,2 | 5 |
| EQ3SMT 10 | 3- | 3 | 0-18 | 0,75-10 | 0,55-7,5 | 15 |
| EQ3SMT 15 | 3- | 3 | 16-25 | 10-15 | 7,5-11 | 15 |
| EQ3SMT 20 | 3- | 3 | 16-32 | 15-20 | 11-15 | 15 |



| RUN CAPACITOR | POWER |
|---------------|-------|
| | HP |
| 20µF | 0,5 |
| 25µF | 0,75 |
| 35µF | 1-1,5 |
| 40µF | 1,5 |
| 50µF | 2 |
| 80µF | 3 |

| RUN CAPACITOR + START CAPACITOR WITH DISJUNCTOR | POWER |
|---|-------|
| | HP |
| 35µF + 80µF | 1,5 |
| 50µF + 80µF | 2 |

PROTECTION/CONTROL PANEL

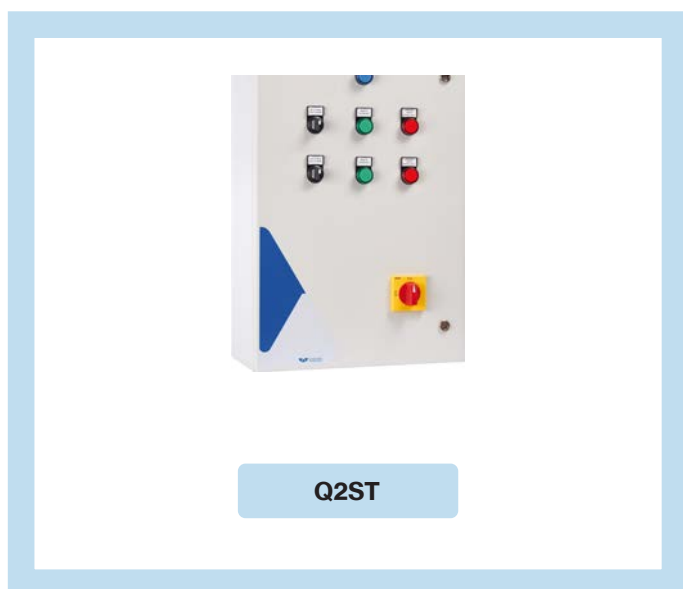
Star/delta control panel for 1 three-phase pump



- Power supply 3x400V-50/60Hz
- 24V transformer for auxiliary circuit
- Low voltage inputs and circuits
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- Star/delta line contactors in AC3
- Auxiliary and motor protective devices with fuses
- Main door interlock switch disconnecter
- ABS box up to 11kW, metal box from 15kW

| TYPE | A | POWER | |
|---------|-----|-------|------|
| | | HP | kW |
| QST 5 | 13 | 5,5 | 4 |
| QST 7 | 15 | 7,5 | 5,5 |
| QST 10 | 17 | 10 | 7,5 |
| QST 15 | 24 | 15 | 11 |
| QST 20 | 31 | 20 | 15 |
| QST 25 | 38 | 25 | 18,5 |
| QST 30 | 50 | 30 | 22 |
| QST 40 | 60 | 40 | 30 |
| QST 50 | 75 | 50 | 37 |
| QST 60 | 100 | 60 | 45 |
| QST 75 | 124 | 75 | 55 |
| QST 100 | 135 | 100 | 75 |
| QST 125 | 155 | 125 | 92 |
| QST 150 | 200 | 150 | 110 |
| QST 180 | 241 | 180 | 132 |
| QST 220 | 300 | 220 | 162 |
| QST 300 | 410 | 300 | 220 |

Star/delta control panel for 2 three-phase pumps



- Power supply 3x400V-50/60Hz
- 24V transformer for auxiliary circuit
- Low voltage inputs and circuits
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- Star/delta line contactors in AC3
- Auxiliary and motor protective devices with fuses
- Main door interlock switch disconnecter
- Metal box (whole range)

| TYPE | A | POWER | |
|----------|-----|-------|------|
| | | HP | kW |
| Q2ST 3 | 8,5 | 3 | 2,2 |
| Q2ST 5 | 13 | 5,5 | 4 |
| Q2ST 7 | 15 | 7,5 | 5,5 |
| Q2ST 10 | 17 | 10 | 7,5 |
| Q2ST 15 | 24 | 15 | 11 |
| Q2ST 20 | 31 | 20 | 15 |
| Q2ST 25 | 38 | 25 | 18,5 |
| Q2ST 30 | 50 | 30 | 22 |
| Q2ST 40 | 60 | 40 | 30 |
| Q2ST 50 | 75 | 50 | 37 |
| Q2ST 60 | 100 | 60 | 45 |
| Q2ST 75 | 124 | 75 | 55 |
| Q2ST 100 | 135 | 100 | 75 |
| Q2ST 125 | 155 | 125 | 92 |
| Q2ST 150 | 200 | 150 | 110 |
| Q2ST 180 | 241 | 180 | 132 |
| Q2ST 220 | 300 | 220 | 162 |
| Q2ST 300 | 410 | 300 | 220 |

PROTECTION/CONTROL PANEL

Soft start control panel for 1 three-phase pump



QSS

- Power supply 3x400V-50/60Hz
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- NA input for start control
- Auxiliary motor protective devices with fuse
- Main door interlock switch disconnecter
- Forced ventilation kit
- IP54 rated metal box
- Ambient temperature $-5 \div +40^{\circ}\text{C}$

| TYPE | A | POWER | |
|---------|-----|-------|------|
| | | HP | kW |
| QSS 10 | 18 | 10 | 7,5 |
| QSS 15 | 25 | 15 | 11 |
| QSS 20 | 30 | 20 | 15 |
| QSS 25 | 37 | 25 | 18,5 |
| QSS 30 | 45 | 30 | 22 |
| QSS 40 | 60 | 40 | 30 |
| QSS 50 | 72 | 50 | 37 |
| QSS 60 | 85 | 60 | 45 |
| QSS 75 | 105 | 75 | 55 |
| QSS 80 | 125 | 80 | 59 |
| QSS 100 | 142 | 100 | 75 |
| QSS 125 | 170 | 125 | 92 |
| QSS 150 | 210 | 150 | 110 |
| QSS 180 | 250 | 180 | 132 |
| QSS 220 | 300 | 220 | 162 |
| QSS 300 | 370 | 300 | 220 |

Control panel with impedance start for 1 three-phase pump



QRS

- Power supply 3x400V-50/60Hz
- Blue mains supply LED
- Green motor running LED
- Red motor overload alarm LED
- NA input for start control
- Stator reactance with 4 starts/hour, 2 of which are consecutive
- Adjustable reactance timer
- Line and impedance starter contactors in AC3
- Main door interlock switch disconnecter
- Ambient temperature $-5 \div +40^{\circ}\text{C}$

| TYPE | A | POWER | |
|---------|-----|-------|------|
| | | HP | kW |
| QRS 5 | 13 | 5,5 | 4 |
| QRS 7 | 16 | 7,5 | 5,5 |
| QRS 10 | 20 | 10 | 7,5 |
| QRS 15 | 29 | 15 | 11 |
| QRS 20 | 35 | 20 | 15 |
| QRS 25 | 52 | 25 | 18,5 |
| QRS 30 | 63 | 30 | 22 |
| QRS 40 | 80 | 40 | 30 |
| QRS 50 | 90 | 50 | 37 |
| QRS 60 | 110 | 60 | 45 |
| QRS 75 | 135 | 75 | 55 |
| QRS 90 | 150 | 90 | 66 |
| QRS 100 | 175 | 100 | 75 |
| QRS 125 | 200 | 125 | 92 |
| QRS 150 | 235 | 150 | 110 |
| QRS 180 | 310 | 180 | 132 |
| QRS 220 | 360 | 220 | 162 |
| QRS 300 | 410 | 300 | 220 |

TANKS



UTILIZATION

Interchangeable membrane expansion tanks; the pre-charge pressure in the tank guarantees a water reserve but also reduces the number of startups of the connected pump; the membranes are certified for use with foodstuffs; they may be in EPDM or butyl depending on the model.

CONSTRUCTION CHARACTERISTICS

Flanges in galvanised steel or AISI 304 stainless steel. Tanks in carbon steel coated with powder paint or in AISI 304 stainless steel.

Pre-charge valve with protective cover.

| TYPE | DESCRIPTION |
|-----------|-----------------------------|
| AS 24 | 24 lt. Spherical tank |
| ACV 24 | 24 lt. Horizontal tank |
| ACZ 24 | 24 lt. Horizontal tank |
| ACA 24 SS | 24 lt. Stainless steel tank |
| AC 50 | 50 lt. Horizontal tank |
| AC 60 | 60 lt. Horizontal tank |
| AC 80 | 80 lt. Horizontal tank |
| AC 100 | 100 lt. Horizontal tank |
| AC 200 | 200 lt. Horizontal tank |
| AC 300 | 300 lt. Horizontal tank |
| AV 50 | 50 lt. Vertical tank |
| AV 60 | 60 lt. Vertical tank |
| AV 80 | 80 lt. Vertical tank |
| AV 100 | 100 lt. Vertical tank |
| AV 200 | 200 lt. Vertical tank |
| AV 300 | 300 lt. Vertical tank |
| AV 500 | 500 lt. Vertical tank |
| AV 750 | 750 lt. Vertical tank |
| AV 1000 | 1000 lt. Vertical tank |

MEMBRANES



| TYPE | DESCRIPTION |
|--------------|-------------------------------|
| MZ 24 | EPDM membrane for ACZ 24 lt. |
| M 24 | membrane for AS 24 - ACV 24 |
| M 50 | membrane for AC 50 - AV 50 |
| M 100 | membrane for AC 100 - AV 100 |
| M 200 | membrane for AC 200 - AV 200 |
| M 300 | membrane for AC 300 - AV 300 |
| M 500 | membrane for AV 500 |
| M 750 - 2000 | membrane for AV 750 - AV 2000 |

PRESSURE SWITCHES



| TYPE | DESCRIPTION | RANGE AT RISING PRESSURE (bar) |
|------|-------------|--------------------------------|
| PP5 | 1- / 3- | 1-5 |
| PP12 | 1- / 3- | 3-12 |

PRESSURE GAUGES



| TYPE | PHASE |
|---------|---------------------------|
| PR 6 | 0-6 bar rear connection |
| PR 6 R | 0-6 bar radial connection |
| PR 12 | 0-12 bar rear connection |
| PR 10 G | 0-10 bar glycerine |
| PR 12 G | 0-12 bar glycerine |

FLEXIBLE HOSES



| TYPE | DESCRIPTION |
|--------|-----------------------------------|
| FL 530 | Flexible hose with bend 1"x530x1" |
| FL 600 | Flexible hose with bend 1"x600x1" |
| FL 700 | Flexible hose with bend 1"x700x1" |
| FL 850 | Flexible hose with bend 1"x850x1" |

CONNECTORS



| TYPE | DESCRIPTION |
|------|--------------------------|
| R3 | 3 way 1" brass connector |
| R5 | 5 way 1" brass connector |



| TYPE | DESCRIPTION |
|-----------|---|
| R5X 1" | 5 way 1" Aisi 304 connector with built-in no return valve |
| R5X 1"1/4 | 5 way 1" 1/4 Aisi 304 connector with built-in no return valve |
| R5X 1"1/2 | 5 way 1" 1/2 Aisi 304 connector with built-in no return valve |

VALVES



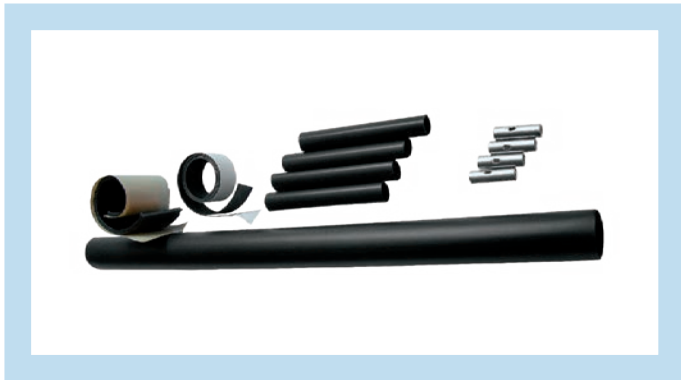
| TYPE | DESCRIPTION |
|-----------|--------------------|
| VF 1" | foot valve 1" |
| VF 1" 1/4 | foot valve 1" 1/4 |
| VF 1" 1/2 | foot valve 1" 1/2 |
| VF 2" | foot valve 1" 1/2 |
| VR1" | check valve 1" |
| VR 1" 1/4 | check valve 1" 1/4 |
| VR 1" 1/2 | check valve 1" 1/2 |
| VR 2" | check valve 1" |

FLOAT SWITCHES



| TYPE | DESCRIPTION |
|-------|-------------------------|
| GK 2 | Key 2 mt. cable length |
| GK 3 | Key 3 mt. cable length |
| GK 5 | Key 5 mt. cable length |
| GK 10 | Key 10 mt. cable length |

CABLES JOINTS



Kit GC series

Junction cable kit with heat - shrinkable tubing.

For a professionally made junction it is recommended to use the "Kit GC", it has excellent requirements in terms of electric, mechanical and water resistance. This kit is composed of: crimp wire connectors in tinplated copper, thin wall heat-shrinkable tubing to cover the conductor of the cable, a strip of Scotch 2547, one of Scotchfil and medium wall heat-shrinkable tubing to cover the junction. It is recommended to seal the two end points of the sheath with a PVC textured insulating tape.

| TYPE | Cables section mm ² | Cable number |
|--------------|--------------------------------|--------------|
| Kit GC 4/2,5 | 1/2,5 | 4 |
| Kit GC 4/6 | 4/6 | 4 |
| Kit GC 4/10 | 10 | 4 |
| Kit GC 4/16 | 16 | 4 |
| Kit GC 4/25 | 25 | 4 |
| Kit GC 4/35 | 35 | 4 |
| Kit GC 4/50 | 50 | 4 |
| Kit GC 1/50 | 50 | 1 |
| Kit GC 1/70 | 70 | 1 |
| Kit GC 1/95 | 95 | 1 |
| Kit GC 1/120 | 120 | 1 |
| Kit GC 1/150 | 150 | 1 |

LEVEL PROBES



Kit K3SL series

Level Probes Kit consist of 3 electrodes model K3SL.

Single pole probe used for level control in wells or storage tanks.

It made of an AISI 303 stainless steel electrode, a plastic (PPOX) holder and a cable gland.

A seal ring and the tightening of the cable gland PG7 prevent water from entering the cable terminal connector and causing its oxidation.

Cable connection: screw.

The external cable diameter must be 2.5 to 6mm/Ø0.1 to 0.24" to warrant perfect sealing.

Maximum connection cable section: 2.5mm².

Maximum operating temperature: +60°C.

