



**Float Switches** - tested for use with Aquavar SOLO Controllers



**9K589** Over-Pressure Switch for use with Aquavar SOLO or "S-Drive" Controllers



**9K585** Moisture Sensor with Relay



**6K210** Gauge Guard

# VFD Accessories

**9K585 MOISTURE SENSOR WITH RELAY**

- 5 VDC power supply is provided by VFD
- Will detect any conductive non-flammable liquid
- Ideal anywhere water damage could occur
- Automatic reset



Undetected water damage, such as that caused by leaking pipes or corroded water heaters, cost homeowners tens of thousands of dollars each year. Such repairs are time consuming and costly to correct. Applications could include computer room sub-floor areas, telephone equipment rooms, bathrooms, laundry rooms, any areas adjacent to a water storage tank or piping. Also evaporative air conditioners, drip pans, overflows and /or drains.

Using no mechanical parts, the GRI Water Sensors are triggered by a moisture bridge across the sensor contacts. The GRI Water Sensors can be installed to detect a layer of water as minute as 1/16 of an inch in depth.

The 9K585 Closed Loop Sensors use an external power source to energize a built-in relay contact so battery power is not recommended. Used in a closed loop configuration, an alarm condition will occur when moisture is detected, or if power to the sensor is lost, and if the sensor should fail. The relay output can be wired directly to any alarm panel or can be used to actuate an external device, i.e. transmitter, annunciator, etc.

See *IM234 for wiring instructions.*

**9K589 OVER-PRESSURE SWITCH FOR USE WITH AQUAVAR SOLO OR "S-DRIVE" CONTROLLERS****Features**

- Range scale from 60 - 120 PSI
- Factory set at 80 PSI
- Lead-free brass construction
- Gold plated contacts for long life
- Use as over-pressure protection on Balanced Flow or S-Drive Controller
- Normally Closed contacts - connect leads to Secondary (dry) Contact Switch
- Wire length - 72 inches
- Use a 5/32" Allen wrench to unlock barrel to change pressure setting
- Snap action, opens and closes on  $\pm 1 - 2$  PSI range, not a differential pressure switch.
- Installation instructions and applications are detailed in the Aquavar SOLO IOM, IM229.

This is the only pressure switch we have tested and approved for use with our variable speed drives. Standard pressure switch contacts tend to corrode and malfunction when used with dry contacts.



### FLOAT SWITCHES - Tested For Use with Aquavar SOLO Controllers

The A2X Series of Float Switches have been tested and approved for use with CentriPro Variable Speed Controllers. The Float Switches come in various lengths and in Normally Open (N.O.) type for pumping down or emptying a tank as well as Normally Closed (N.C.) type, identified by a U Suffix, for pumping up, filling a tank or pond. Instructions for using these switches are in the SOLO IOM, IM229. The Float Switch bulletin is in the SES catalog and the wastewater section of our website, literature code is BCPFS.

#### Float Switch Order Numbers

##### Normally Open

A2X13 10'

A2X33 20'

A2X53 30'

##### Normally Closed

A2X23U 15'

A2X33U 20'

A2X53U 30'

#### Features

- Gold plated contacts for low current applications
- Operates on a 45° differential, above or below horizontal
- Includes a mounting clamp for attaching to pipe (as shown)
- Not sensitive to rotation
- 18 gauge, 2 conductor wire
- Maximum submergence is 30'
- Maximum water temperature 140° F
- Polypropylene float housing is impact and corrosion resistant
- Installation and application information is in the Aquavar SOLO IOM.



### 6K210 GAUGE GUARD

#### Features

- Low unit cost - makes it feasible to protect even moderate priced instruments.
- Compact size makes these isolators ideal for limited-space installations.
- + 4% accuracy, will handle most applications.
- Hermetically-sealed, molded uni-body construction - avoids possibility of leaks.
- Glass-filled Polypro bodies for chemical compatibility and maximum temperatures to 100° F
- Housing is glass filled Polypropylene.
- Each Gauge Guard features a durable and flexible Buna-N diaphragm which serves as a protective barrier between the process fluid and instrument.
- Simple to fill and install. Completely fill the internal space on the instrument side of the diaphragm with mineral or vegetable oil in order to transmit the process pressure to the instrument.



#### Maximum Pressure Ratings

##### Liquids

200 PSI (13.8 bars)

##### Gases

100 PSI (6.9 bars)

**Maximum Temperature:** 100°F ( 38°C)



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