G&L Pumps

Goulds Pumps / G&L Pumps Variable Speed Product Line

Since 1997 G&L Pumps, a Goulds Pumps company, has been providing variable speed pump control solutions to its customers. The first product was the AQUAVAR® variable speed controller. Today, G&L Pumps offers a wide range of capabilities for the variable speed pump control market. Our philosophy has not changed: To provide quality, variety and systems solutions for our pump customers.

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Our variable speed products include the following:

1 AQUAVAR (Commercial / Industrial Applications).

Pump mounted version is the flagship of the G&L Pumps Variable Speed Product Line. Initial launch was 1997 for the North American market. Since then, thousands of satisfied installations have been made into the Commercial and Industrial Markets. Some features include:

- Single phase, 230 volt units, 2 and 3 HP.
- Three phase, 460 volt, 5 HP, up to and including 30 HP.
- Motor mounted capability to a standard TEFC pump motor.
- Multi-Pump control up to 4 AQUAVAR controlled pumps. Additional panels or starters are NOT required. Connection made via the RS485 on each AQUAVAR.
- NEMA 4 enclosure.
- Integral variable frequency drive with pump control logic. Designed exclusively for centrifugal pumps!
- Easy programming in pump language.
- LCD keypad and display on unit (display can be remote mounted on latest version).
- Motor required is a three phase standard AC induction type. Inverter duty not needed.
- Pump protection from run-out, suction loss.
- Relay contacts available for PUMP RUN, FAULT LIGHT.
- Analog output 0 – 10 Vdc for monitoring system pressure.
- UL, CSA approvals.

2 AQUAVAR 56 (Commercial / Residential Applications).

Smaller version of the AQUAVAR. Can be pump mounted to the TEFC fan cover of pump motors, typically 56J frame, fractional HP motors. Display is not included in standard package, and must be plugged in to program. Launch was in 1998 and is used primarily for smaller water systems, and price conscious customers. Features include:

- Single phase, 230 volt, 1 HP ONLY.
- Lower cost version of the standard AQUAVAR.
- Small compact design for mounting to standard TEFC pump motor.
- RS485 multi-pump up to four pump sequence.
- External connected keypad, plug in and portable for multiple units (separate item).
- Contacts for “slave” pump, low water switch, motor temperature switch.
- Pressure transducer only, pressure range up to 147 psi.
- Ambient temperature up to 104º F.
- NEMA 12 enclosure.
- UL, CSA approvals.

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3 AQUAVAR II (Commercial / Industrial Applications)

Second generation of the AQUAVAR pump controllers. This unit is only offered in a wall mounted version up to 75 HP, 480 volt. This variable speed controller has more versatility with voltage inputs, amperage range, and motor options.

- Single phase voltage input, 200 – 230 volt, ± 15%, 1 HP – 10 HP.
- Three phase voltage input, 200 – 230 volt, ± 15%, 1 HP – 20 HP.
- Three phase voltage input, 460 volt, ± 15% 1 HP – 75 HP.
- 50/60 Hz input for OEM use.
- NEMA 12 enclosure (indoor use), NEMA 4 available.
- Standard pressure transducer, 0 – 362 psi range.
- 30 ft. transducer cable.
- Constant pressure, constant flow, level control.
- 4 – 20mA current signal from transducer.
- Ambient temperature limit is 104° F, low limit is 32° F.
- Programmable voltage input (200, 208, 230, 460 and 575 volts).
- Programmable service factor amperage 10%.
- Pump programming is the same as motor mounted AQUAVAR.
- Dual pressure settings (with relay switch).
- Multi-pump up to four (4) units (without any control panels or accessories).
- Use with standard NEMA design B motors or submersible/turbine motors.
- Over/under voltage, current, phase loss, short circuit, ground fault, sensor fault, overtemperature, motor temperature protection.
- UL, cUL approvals.

4 AQUABOOST I (Residential/ Commercial Applications)

Packaged system. First generation of small residential type variable speed pump controllers. Sizes up to 3 HP (10 Amp), this unit provides constant pressure and speed control to smaller pumps, primarily used for residential markets. Typical system includes the pump/ motor, controller, wiring/ conduit, Goulds air diaphragm tank V6P, pipe tee, pressure gauge, pipe plugs, pressure transducer, and motor thermal sensor.

- Single phase input ONLY, 230 volt, ± 15% tolerance.
- 1, 2 and 3 HP (10 Amp rating).
- 3 phase, 230 volt motor required.
- Preset for 50 psi at factory.
- Field programmable up to 80 psi.
- Flows up to 53 GPM (3AB1).

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4 AQUABOOST I (Residential/ Commercial Applications) *continued*

- Ambient temperature 104º F maximum.
- Indoor rated only, NEMA 12.
- Cooling fan.
- Input / output wire with flexible conduit included.
- UL, cUL, CE approvals.
- Low suction pressure protection.
- Pump run-out protection.
- Sensor fault.
- Over/under voltage, short circuit, ground fault, overload amps.
- Signal lights, pump run, pump fault, pump stopped.
- External control program/ troubleshooting device (sold separately).

5 AQUABOOST II (Residential, Plumbing)

Pre-packaged system that includes: pump/motor, pressure tank, pressure transducer, piping tee, pressure gauge, wiring with flexible conduit. Self diagnostic variable speed controller is the next generation of constant pressure.

- Single phase input voltage ONLY, 208 – 230 volt, ± 15% tolerance.
- Maximum amperage on motor is 4.2 and 6.9 Amps.
- Motor must be three phase, 208 – 230 volt, ± 10%.
- Flows up to 32 GPM.
- Pressure factory set for 50 psi.
- Field programmable pressure setting up to 85 psi, total system.
- Outdoor rated, NEMA 3R enclosure, rain-tight.
- UL, cUL, CE approvals.
- FCC compliant for interference.
- Signal lights for pump running, faults, stopped.
- Self-diagnostic, plug-in display not needed.
- Field setting for booster pumps.
- Wall mounted with convection air cooling.
- Maximum ambient temperature 104º F.
- Electrical efficiency above 95%.

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www.goulds.com
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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