

3000 Series Cut Sheets

Retail GoPump by Bennett

Electronic Retail (Money & Volume) Pumps and Dispensers

3000 Chassis 3800S & 3800H Series Models - Conventional Flow Rates

When we set out to design the new 3000 series chassis, we asked if good looks were as important for single and twin dispensers as they are for the multi-product high hose dispensers used at convenience stores. We were forced to answer yes. No matter how functional the product, good looks are always important to create a positive image for your brand identity. That's why you'll find esthetic details such as rounded radius corner end panels, hidden fasteners, back-lighted LCD displays, and attractive color schemes. We'll even silk screen your company logo or selected graphics on the panels to further enhance your company image.

We thought the reasons why C-stores demand high hose styling in their multi-product dispensers were just as valid for single and twin dispensers. Here are some of the reasons. 1. Hose handling is easier when you're not pulling against a hose retractor device that is commonly used on low hose dispensers. 2. The high hose design keeps the hose off the pavement and increases hose life. 3. Vapor recovery is so much easier and less expensive. For these reasons, we decided to offer the *GoPump* in the same high hose style design that you'll find at your local C-store - an industry first. And, of course, we continue to offer traditional low hose style designs as well.

A single key opens the upper and lower doors. The doors swing open on hinges so they don't get scratched if you need to get inside the cabinet.

For performance, it's what's inside that counts. Our suction pumps use the renowned Bennett Type 75 series pumping units. We supply pumping units and meters to over 20 other pump companies around the world. We are the world's largest OEM supplier of hydraulic components to other pump companies. Good looks count inside too. For us, good looks inside means simple, streamlined designs that make the product easy to manufacture and provide ample space to make service and maintenance quick and easy to accomplish. Our pumping unit and our meter are bottom inlet, top outlet designs so the two bolt together at a common flange to eliminate excess product tubes and connections. Less tubes and connections translates to less chance for leaks and helps to keep flow rates at peak performance levels.

We have a simple design philosophy: *Simplicity breeds reliability*. That sounds easy, but simplicity is elusive and difficult to conquer. Open our heavy duty electronics compartment door and you'll be surprised at how little there is inside. A simplified, single circuit board eliminates "cable mess" and provides the primary display, CPU functions, I/O functions, power supply, eCal (electronic meter calibration feature), RS485 communications, electromechanical analog totalizer, push button programming switches, battery backup for weights and measures last sale recall requirement, and field wiring terminal strip. In the event of a malfunction, the single board can be changed out in minutes. With a simple, self-paced Home Study Course on CD, technicians can quickly become competent to service the GoPump and obtain a certification from Bennett to perform service and maintenance on the GoPump. A factory rebuilt circuit board exchange program further lowers your long term cost of ownership.

- eCal, our method to electronically calibrate the measurement accuracy of the hydraulic meter, is the simplest, fastest, and most accurate method to calibrate the measurement accuracy. Unlike mechanical calibration methods, there is no physical change to the meter such as lengthening or shortening the piston throw. Our SB100 four piston meter does not have to "re-seat" or "wear-in" after a change in calibration since we make no physical changes to the meter during calibration. With eCal, calibration can be performed in less than 50% of the time required for mechanical calibration and done with greater accuracy in most cases. While the traditional mechanical calibration method has been used for close to a century, compared to the power and accuracy of eCal, it is a crude and time consuming process. We package a weights and measures approved eCal system as a standard feature of our single board design.
- While our pulse output option adds a second circuit board to the dispenser, it is sometimes required to interface to a fleet management system. However, a single pulse output board provides four channel output capable of allowing a twin hose unit to send pulses simultaneously for both hoses to both a fleet management system and a fuel inventory reconciliation system. Some fleet management systems have interfaced directly to our simple two-command RS485 communication protocol making the optional pulse output board unnecessary and saving you money on your dispenser investment.
- While we provide electronic hose totals easily retrieved with a magnet activator, we also include electromechanical analog totalizers as a standard feature at no extra charge. By providing both electronic and analog totalizers you have a redundant data gathering system with cross checks on the performance of each method.
- Every dispenser meets the weights and measures requirement for the resale of fuel by providing last transaction recall in the event of a power outage. We provide the transaction recall feature on our single circuit board at no extra charge.

We make a complete family of 3000 series chassis dispensers ensuring that all your dispensers will have a common appearance whether they are mechanical, conventional flow electronic *GoPumps*, or our Big Squirt series of ultra high flow truck stop dispensers. If you're considering purchasing a single or twin electronic retail dispenser, take a peek behind the panels and look for simple, streamlined designs. We don't think you'll find a pump anywhere that compares to the simplicity of the **Bennett GoPump**.

Check out BESTool on our web site: www.bennettpump.com to make it simple and fast to write a specification document. And, of course, we're always available to help. Call our Bid and Spec Desk: USA (800) 235-7618, Ext. 3 ~ Outside the USA (231) 798-1310, Ext. 261.



Series
3800S
3800H

Product Cut Sheet

Electronic Retail Dispensers and Pumps Spec Sheet

GoPump 3000 Chassis 3800S & 3800H Series Models (Money & Volume)

Standard Features

- Simplified electronic computer.
- Stand-alone or Interfaced to Control Device.
- RS485 interface or current loop or dual pulse output (i.e. 4-pulse output channels).
- Exclusive eCal™ (Electronic Calibration).
- Magnet activated electronic totals display.
- Programmable unit of measure for US gallons, liters, or imperial gallons.
- Operates from 115/230Vac, 60/50Hz, or 380 Vac, 50Hz.
- Suction pump models feature 1-HP continuous duty motor(s).
- Back lighted 1-inch LCD displays.
- Satellite Outlet Connection for remotes (except Quad).
- Singles, 1-Product Twins, 2-Product Twins.
- Quad "Active-4 hose" remote or suction.

Construction

- Low Hose Cabinet Design.
- High Hose Cabinet Design.
- Front or side mount nozzle boots.
- Long-life cabinet using galvalneal components and powder coated panels.
- Black end panels & top.
- Black electronics door - hinged, swing down.
- Optional color lower doors - hinged, swing out.
- Heavy duty hose hook (optional internal hose retractor available for low hose models).

Computer

- Simplified single board design electronics. Includes CPU, power, display, eCal, RS485 or current loop connection, electromechanical analog totalizer, push-button programming switches, wiring terminal strip.
- LED Backlighting board for the LCD display.
- Optical pulser.
- Designed for temperature extremes—no heaters or cooling fans required.
- Long life, highly visible back lit LCD display, 1" (2.54cm) numerals for money & volume; 1/2" (1.27cm) numerals for price-per-volume.
- Battery Backup for last sale recall during power outage (required for resale of fuel).
- Simple 2-command protocol via RS485 interface to fleet management systems supplies pump status, pulses, volume sale & volume totals.
- Current loop Bennett fuel protocol interface.
- Field wiring goes directly to terminal strip on Computer (for new installations pull 72" of wire above grade level).
- Built-in diagnostics with error codes.
- Transaction display of: 999.999 for gallons, 9999.99 for liters and 6-digits for money with programmable decimal point.
- Electronic hose totals of:
 - 99999999.999 for gallons (8.3)
 - 99999999.99 for liters (9.2)
- Electromechanical totalizer 9999999.

Hydraulics

- Precision Bennett SB100 Meter, 4-piston, positive displacement design.
- Type 75 or type 75-HD Bennett sliding vane pumping unit with integral vortex air eliminator.
- SB100 meter is electronically calibrated (eCal). Mechanically calibrated meter is optional.
- All remote units include built-in inlet check valves to keep the hydraulics full and prevent meter/pulser count-up when the submersible pump pressurizes the system.
- Remote units use replaceable paper filter.
- Suction pumps use a reusable strainer.
- All low hose units feature 1" hose outlets; high hose units have 3/4" Outlet.
- Suction units include 1-1/2" ground joint union and riser pipe. Union & riser pipe not supplied for remote units.

Options

- Debit/Credit card reader (single display per side models only).
- E85 alcohol blend compatibility option.
- Programmable Dual Pulse Output Board to interface to fleet management systems & tank monitoring system if RS485 is not used.
- 2-Stage prepay/preset electric solenoid valve for 1-product, 1-hose or 2-product, 2-hose suction pumps. (valve is standard on all other models).
- Internal spin-on filter & adapter for remote models.
- For high hose models: balance vapor coax hose outlet & internal vapor return piping.
- Sub pump relay 3-phase contactor.
- Intercom speaker for high hose models.
- Stainless steel lower doors and/or end panels.
- Stainless "All Panels" Option (lower doors, end panels, cover for electronics compartment).
- "Super Stainless" Option is "All Panels" option plus electronics door and grade panel holder).
- Custom lower door colors and/or graphics.
- Mechanical calibration dial for SB100 meter.
- Hose clamp for 5/8", 3/4", or 1" I.D. hose.
- Explosion proof junction box for lower hydraulic area.
- 380 Volt 3-Phase Motors.
- Local Preset (attendant preset)
- Pressure regulating valve for suction pumps with aboveground tank installation.
- Internal hose retractor.
- Strainer in lieu of filter w/ or w/o cloth sack.
- Hoses, nozzles, swivels.
- Companion Satellites (GoPump style in low or high hose cabinets or economy LPS style).
- Satellite pipe kit installed in remote master.
- Satellite in use light for remote master.



**Dual Dispenser Electronics
Two Complete Electronic Systems
Simplicity in Action**

Bennett dispensers may dispense "Av-Gas", but cannot dispense Jet Fuel to fuel jet aircraft.

For information on flow rates and model configurations see our Price Lists.

UL™ listed.

Certified for resale applications. The N.T.E.P. Certificate of Conformance is available upon request.

Units have been tested and found to comply with the limits for a Class A computing device in accordance with Subpart J of Part 15 of FCC Rules regarding radio frequency interference.

Specifications in this document are subject to change without notice.

