

BIG BERTHA PNEUMATIC PISTON PUMPS

APPLICATIONS

LANDFILL LEACHATE **GAS CONDENSATE RECOVERY GAS WELL DEWATERING**

LARGEST TOP-HEAD-DRIVE PNEUMATIC DRIVE MOTORS

Big Bertha Pneumatic Piston Pumps, designed for very difficult heavy duty applications, provide high pumping volume at high discharge pressure and provide a positive one-way push with each stroke. These pumps handle hot, viscous liquids and can be installed in side slope pumping configurations.

APPLICATIONS

High volume

FEATURES

PRODUCT OVERVIEW

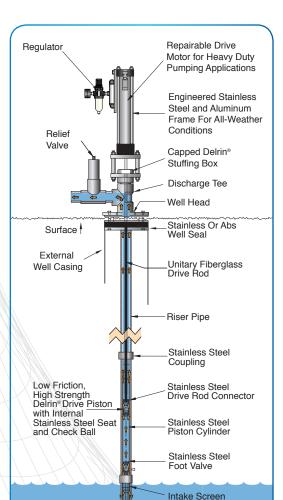
PUMPING CAPABILITIES DEPENDING ON MODEL CHOICE

FLOW RANGE

10 US GPM 38 LPM

OPERATIONAL DEPTH

1,000 Ft. 300 M



- High discharge pressure
- Hot, viscous liquids
- Side slope pumping

BENEFITS

Largest pneumatic piston pump drive motor—3.25 in. by 12 in.

- · Handles difficult to handle liquids
- Provides high head
- · Handles high discharge pressure
- Uses either air or electric logic to run pump
- · Offers high strength, non stall design

Model	Force/Lift (feet at 100 psig regulator pressure)
101	0 – 1,500
102	0 – 700
103	0 – 320

Positive one-way push with each stroke

Provides high pumping volume.

Positive magnetic limit switches reverse strokes back and forth. This unit will automatically shut down against high back pressure or when dead head conditions are encountered.

High temperature oil pump motor stretch offset configuration option insures motor drive does not contact liquid being pumped.

Because the rod stroke that contacts the liquid being pumped never contacts the motor, the drive motor never sticks or clogs and can handle chemically active liquids, sticky chemicals, tar, and high temperature liquids.

Field-serviceable Pneumatic Top-Head-**Drive Motor**

- · Motor is above the well head to facilitate easy maintenance and service operations.
- · Simple, three-input control is located on the motor's side frame, keeping maintenance simple and safe for field personnel.
- · Weather resistant design handles all weather conditions.



FEATURES BENEFITS Field-serviceable Pneumatic · Controlled pumping rate reduces risk of overpumping and Top-Head-Drive Motor significantly reduces silting. (continued) · Top head motor design provides a safer working environment Eliminates fugitive emissions, because the top head mechanical pneumatic drive motor is above grade and driver air never enters the well. There are no exhaust emissions. · Replaceable seals make the pump field serviceable. · No high pressure air enters the well. Non-Metallic Delrin* · Strong custom built drive pistons with Delrin housing and or heat and chemically stainless steel internal seat and check ball provide proven resistant PEEK Drive extended service life. **Pistons** · Eliminating metal-to-metal moving parts makes this pump ideal for applications requiring resistance to chemical encrustation, bio-fouling, and abrasion. Stainless Steel Downhole Stainless steel provides long downhole life, even in critical Pump Cylinder tough grit and silt environments of landfills, gas wells, and chemical and hydrocarbon wells. · Field-proven Delrin foot valve drive pistons, and stainless steel seat and check ball with patent-applied-for seat, provide durable, dependable performance. Patented drive rod and · Patented drive rod/connector design allows pumping connector capabilities to 10 gpm to depths of 1,000 feet, depending on model choice. Patented design provides easy, clean operation in tough pumping environments. · Strong, fail-proof unitary reinforced drive rods handle difficult pumping conditions in vertical or horizontal wells. Customizable Standard components can be configured for specific applications demands.

ABOUT BLACKHAWK TECHNOLOGY COMPANY

Founded in 1990, Blackhawk Technology Company manufactures the industry's most comprehensive line of electric, pneumatic, and windmill top-head-drive positive displacement piston pumps designed to withstand the harshest outdoor environments and the most rigorous downhole pumping conditions. The Company originated landfill and groundwater remediation piston pumps, and no one offers more application experience in landfills, petrochemical facilities, and remediation sites.

To learn more, see our customer testimonials and case histories at www.blackhawkco.com.

PATENTED PUMPS THAT WORK WHEN OTHERS FAIL — NO PUMP OUTPERFORMS BLACKHAWK



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