

# Anchor High-Temp Electric Piston Pump®

## TECHNICAL SPECS.

- Operational Depth: To 351 feet, 107 meters (1 HP); 165 feet, 50 meters (½ HP)
- Flow range: To 3.27 US gpm; 12.4 lpm
- Well Casing Size: Min. 3 in.; 7.62 cm.

For Wells 150°F to 250°F  
**MODEL 102: ABOVE-WELL DRIVER MOTOR**

### Surface-grade power, maintenance

Blackhawk's Anchor High-Temp Electric Piston Pump™ is specially designed to handle high temperature pumping of virtually any fluid, regardless of chemical composition, from 150°F to 250°F (65°C to 120°C).\*

The Model 102 electric pump maintains steady flows to 3.27 gallons per minute – at 351 feet with a 1 HP motor and 165 feet with ½ HP. Model 101 maintains flows to 1.35 gpm to depths of 804 feet with 1 HP and 385 feet with a ½ HP motor.

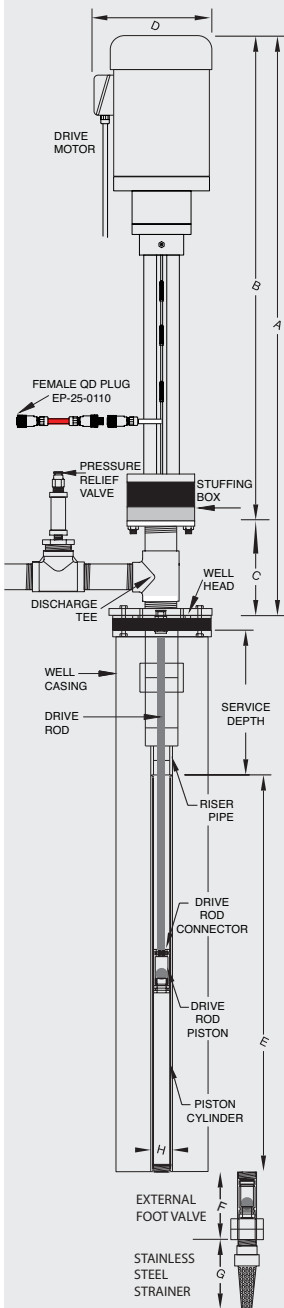
Maximum speed is 20 full strokes (up and down) per minute.

The Anchor High Temp is a

reciprocating-rod, positive-displacement piston pump powered by electricity. Motor and controls are at surface grade, above the wellhead, allowing simplified installation and maintenance.

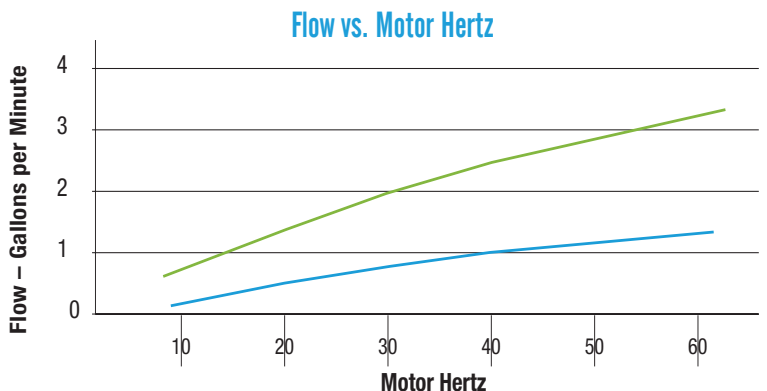
Top-head drive motor provides linear pumping action direct from the surface through the sucker-rod assembly. Fluid inlet is at pump bottom intake and removes fluid to 0 submergence depth.

\*For landfills below 150°F, use standard Blackhawk electric, pneumatic or solar models. Above 250°F, contact Blackhawk to customize pumps with ultra-high-temperature components.



### DIMENSIONS (IN INCHES)

- A. Above Well Height ..... 48.5
- B. Driver Length ..... 43.0
- C. Discharge Tee and Well Seal Height .. 5.0
- D. Driver Diameter ..... 8.0
- E. Foot Valve Assembly ..... 40.0
- F. External Foot Valve ..... 4.0
- G. Stainless Steel Strainer..... 4.0
- H. Largest Downhole Diameter ..... 1.9

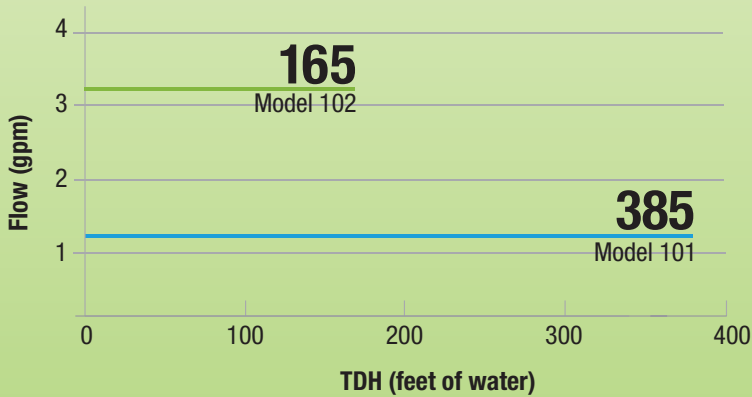


102	.73	1.4	1.98	2.47	2.89	3.27
101	.3	.58	.82	1.02	1.19	1.35

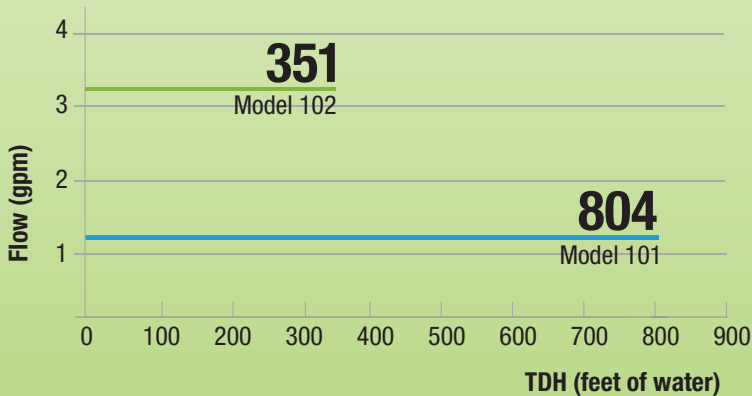
# Anchor High-Temp Electric Piston Pump™

MODEL 102: Flows to 3.27 gal per min

## FLOW vs. DEPTH, 1/2 HP Motor



## FLOW vs. DEPTH, 1 HP Motor



## Performance Data

Operating Depth	351 ft., 107 m. (1 HP); 165 ft., 50 m. (½ HP)
Flow Range	To 3.27 US gpm, 4,709 gpd; (½ HP & 1 HP)
Discharge per Stroke	.16 US gallons per stroke (Flow does not vary with depth)
Motor	½ HP or 1 HP
Power Supply	120- or 230-volt single phase, or 230- or 460-volt three phase
Max. Lift	351 ft., 107 m. (1HP); 165 ft., 50 m (½ HP) *Variable-speed (stroke) control adjusts to well conditions; liquid drawn down to top of strainer
Max. Discharge Pressure	50 psig
Temperature Range	150° F to 250° F / 65° C to 120° C

## Technical Data

Stroke Length	12 in.
Recommended Bore Hole	3 to 4 in. or more
Max External Diameter	2.9 in.
Min Well Casing	3 in.
Cylinder Length	30 in.
Connection to Riser Pipe	2 in.
Connection to Sucker Rod	7/16 in. - 20 in.
Discharge Size	2 in. NPT
Cylinder Weight	10 lb.
Driver Weight	40 lb.
Driver Rod Weight	12 lb. per 100 ft.
Foot Valve Assembly Wt.	10 lb.
Installation	Any angle horizontal to vertical

## Available Options

- Drive-rod auto oiler
- Pressure-relief valve
- Liquid- level control
- Variable speed control
- Flow meter
- Well seals & kits
- Factory seal replacement

Visit [www.blackhawkco.com](http://www.blackhawkco.com) to see why motors above the wellhead mean less-costly, more compliant, safer operations.

The best-performing environmental pump in the business

