**Technical Specs.**

- Operational depth:
  - Up to 555 ft.; 169 m.
- Flow range:
  - To 2 US gpm, 2,880 gpd; 7.6 lpm, 10,900 lpd
- Well casing size:
  - 2 in. (5.08 cm) or greater

**Surface-grade power, maintenance**

Blackhawk’s V-2 Elevated-Temp Pneumatic Piston Pump™ is specially designed to handle elevated temperature pumping of virtually any fluid, regardless of chemical composition, from 150°F to 300°F (65°C to 120°C).*

The Model 101 pump maintains steady flows of 2 gallons per minute to depths of 555 feet. Model 102 pumps to 5 gpm at 243 feet.

Maximum speed is 40 full strokes (up and down) per minute. Optimal speed for long pump life is 20 strokes per minute.

The V-2 Elevated-Temp is a reciprocating-rod, positive-displacement piston pump powered by industrial-quality compressed air. The motor is a surface grade, above the wellhead, allowing simplified installation and maintenance.

Power is direct from the surface to the sucker-rod assembly. No air enters the well or contacts the pumped fluid. Fluid inlet is at pump bottom intake and removes fluid to 0 submergence depth.

*For landfills below 150°F, use standard Blackhawk pneumatic, electric or solar models. Above 300°F, contact Blackhawk to customize pumps with ultra-high-temperature components.

**Flow vs. Depth**

**V-2 Elevated-Temp 101, 102**

- **Model 101**
  - 555 at 100 psig.
- **Model 102**
  - 243 at 100 psig.
Model 101: Lifts to 555 feet

Performance Data
- Operating Depth: 555 ft. / 169 m
- Flow Range: To 2 US gpm, 2,880 gpd; (7.6 lpm, 10,900 lpd)
- Recommended Discharge Pressure: 50 psig
- Maximum Lift: 555 feet of water
- Strokes per Minute: 5 - 40
- Max. Strokes per Minute: 40
- (variable speed control adjusts to well conditions; liquid drawn down to top of screen)
- Discharge per Stroke: .05 US gal / .19 liter
- Temperature Range: 150°F to 300°F / 65°C to 120°C

Technical Data
- Max. External Diameter: 1.9 in. (4.83 cm)
- Total Cylinder Length: 38 in. (96.5 cm)
- Connection To Riser Pipe: 1.25 in. (3.18 cm)
- Recommended Internal Bore-Hole Diameter: 2 to 3 in. (5.08 cm to 7.62 cm) or greater
- Weight Of Cylinder: 8 lb. (3.63 kg)
- Discharge Size: 1.25 in. (3.18 cm) NPT
- Installation: Any angle from vertical to horizontal
- Driver Weight: 35 lb. (15.8 kg)
- Driver Rod Weight: 12 lbs. per 100 feet (3.7 kg per 100 m)
- Foot Valve Assembly Weight: 8 lb. (3.6 kg)
- Min. Well Casing Size: 2 in. (5.08 cm)
- Pneumatic Air Connection: 3/8 in NPT, 3/8 in. OD tubing

Available Options
- Drive-rod auto oiler
- Pressure-relief valve
- Programmable pneumatic timer
- Cylinder oiler & filter regulator
- Flow meter
- Pneumatic cylinder counter
- Well seals & kits
- Factory-fresh seal replacements
- Factory driver-refurbishment program

Visit 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