

Elevated-Temp Pumps for Fluids 150°F to 300°F

New Pneumatic & Electric Piston Pumps Manage Full Range of Elevated Temp Fluids

All Power, Drive Mechanics Above the Wellhead

Blackhawk's emerging line of elevated-temperature products features technologically advanced pumps built to operate in elevated temperatures over 150°F; the only environmental pumps we have found that stand up to temps of 300°F or greater.*

The V-2 Elevated-Temp Pneumatic Piston Pump™ and Anchor Elevated-Temp Electric Piston Pump™ handle virtually anything flowable, regardless of chemical composition and viscosities, including boiling liquids.

Specialty materials of construction for the elevated-temp line include PEEK thermoplastic-polymer seal cartridges and pistons, Viton® fluoropolymer seals and U-cups, brass oiler plates and green-fiber thermoplastic rods, all developed for elevated-heat, chemically hazardous duty.

Both the V-2 and Anchor offer two models to meet varying

flow and lift requirements. Anchor drive motors are available in ½ HP and 1 HP versions. Anchors also can be made explosion proof.

All power and driver mechanics are cleanly and safely above the wellhead. There is no high-pressure air or electricity below surface grade. Maintenance is less frequent, simpler and faster. The pumps are environmentally friendly and do not emit greenhouse gases.

Blackhawk elevated-temp products are successfully pumping at several of North America's most troublesome landfill sites.

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

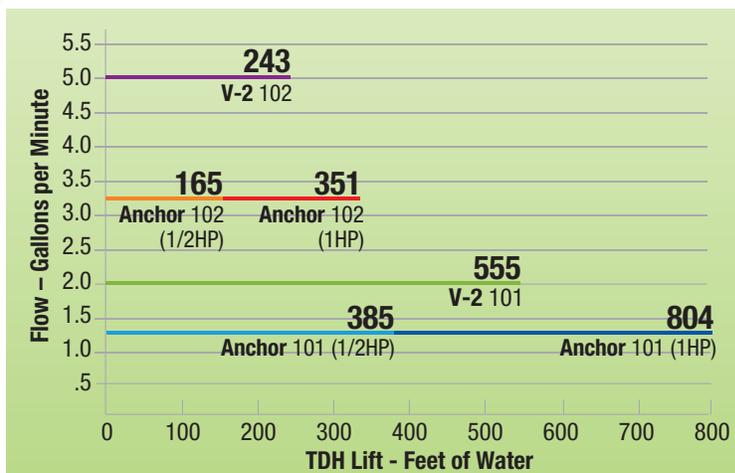


V-2 Elevated-Temp Pneumatic
 Depths to 555 feet;
 Flows to 5.0 gal/min
 Depending on model



Anchor Elevated-Temp Electric
 Depths to 804 feet
 Flows to 3.27gal/min
 Depending on model

FLOW vs. DEPTH



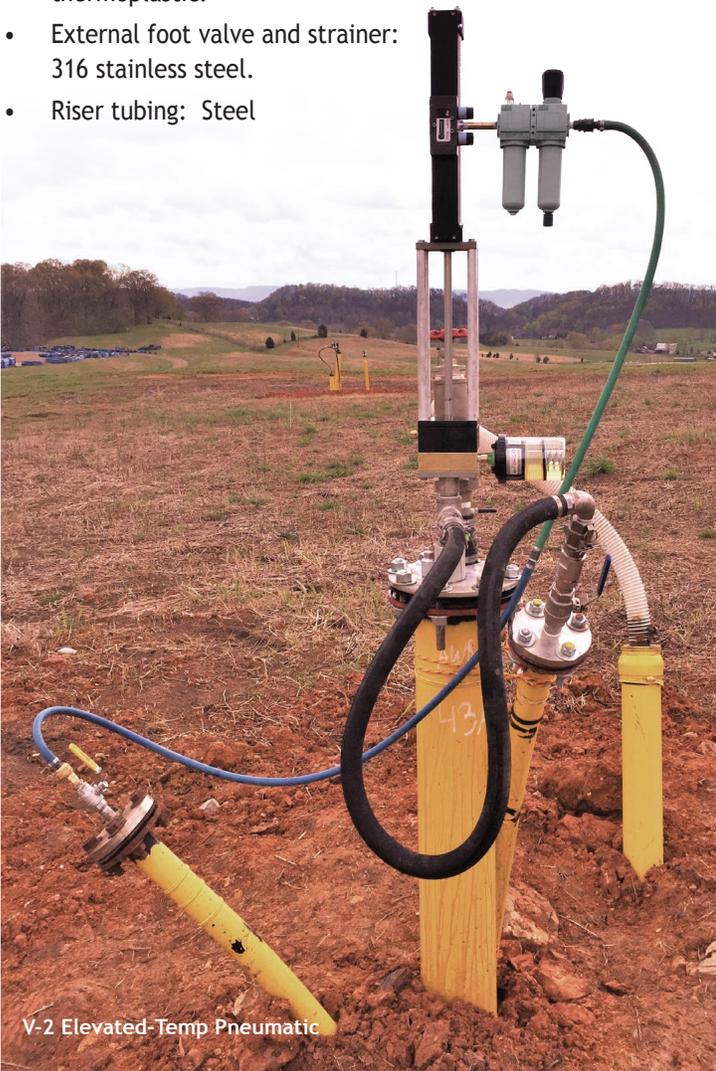
5 Advantages

- Pumps anything flowable
- Indifferent to vacuum
- Any angle to horizontal
- Low, easy maintenance
- Snap-in seal replacement

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Specialty Materials of Construction

- Stuffing box: Delrin® crystalline thermoplastic (top) seal plate and brass oiler plate (bottom).
- Snap-in seal cartridge: PEEK semi-crystalline organic thermoplastic polymer.
- Cartridge seals: Viton® synthetic rubber and fluoropolymer elastomer.
- Drive piston: PEEK polymer with Viton U-cups.
- Drive rod: Green fiber-reinforced thermoplastic.
- External foot valve and strainer: 316 stainless steel.
- Riser tubing: Steel



V-2 Elevated-Temp Pneumatic



Hot Well Stuffing Box



Seal block with PEEK Cartridge



PEEK Piston



External Foot Valve and Strainer

Available Options



Rod Oiler
Injects tiny, pre-set oil amounts into seal plate to lube drive rod



Pressure Relief Valve
Controls/limits built-up pressure from clogs, failures

V2 Pneumatic

- Programmable timer
- Cylinder oiler & filter regulator
- Pneumatic cycle counter
- Liquid-level control
- Factory driver-reconditioning program

Anchor Electric

- Programmable logic control
- Variable speed control
- Liquid-level conductivity probes
- Pressure transducers

Anchor Electric control panel



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

