

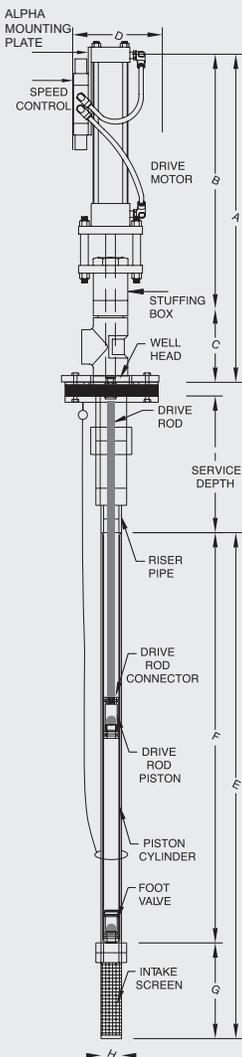
V-2 Pneumatic Piston Pump™

TECHNICAL SPECS.

- Operational depth:
Up to 84 ft.; 25.6 m.
- Flow range:
Up to 11.0 US gpm; 41.6 lpm
- Well casing size:
4 in. (10.16 cm) or greater

Best for leachate, gas-well dewatering, condensate sump, remediation

PUMP DIMENSIONS



DIMENSIONS (IN INCHES)

- A. Above Well Height41.0
- B. Driver Width36.0
- C. Discharge Tee and Well Seal Height..... 5.0
- D. Driver Diameter 5.5
- E. Foot Valve Assembly35.0
- F. Foot Valve Length30.0
- G. Intake Screen Length 5.0
- H. Largest Downhole Diameter 3.9



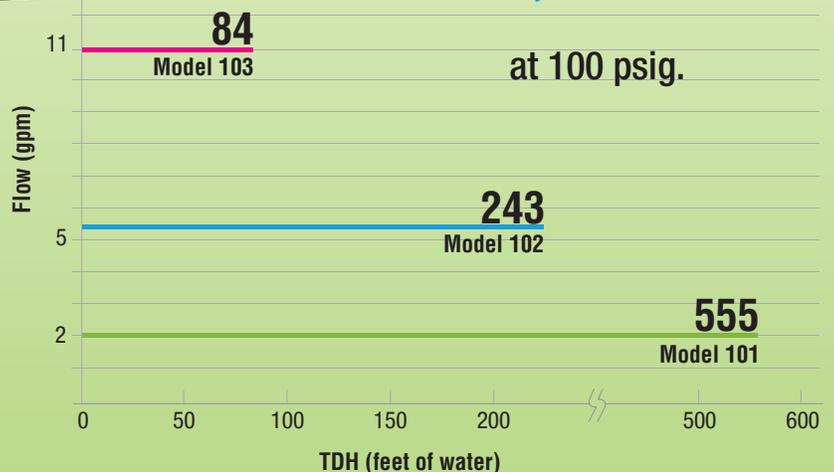
MODEL 103: VERSATILE ABOVE-WELL-DRIVE PISTON PUMP

Broadest Application Range

The V-2 Pneumatic Piston Pump™ is Blackhawk's most versatile pneumatic. It is designed for the broadest range of pumping applications and environments, including hot or harsh landfill leachate, gas-well dewatering, condensate-recovery sump and hydrocarbon remediation. Model 101 maintains steady flow to depths of 555 feet (169 meters).

The V-2 Model 103 is a reciprocating rod, positive-action piston pump powered by industrial-quality compressed air. The motor is at surface grade, above the wellhead for easy installation and maintenance. Power to the pump is direct from surface through the sucker-rod assembly. The fluid inlet is at the pump bottom intake and removes fluid to 0 submergence depth.

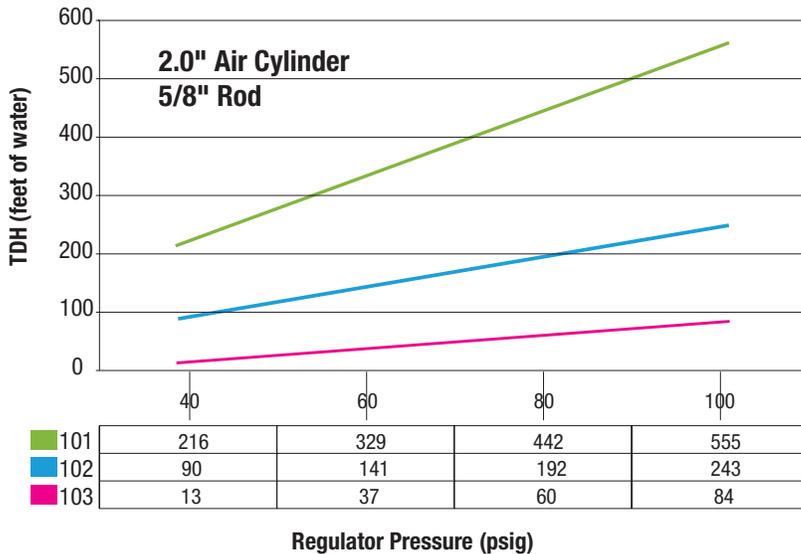
FLOW vs. DEPTH, V-2 101, 102 and 103



V-2 Pneumatic Piston Pump™

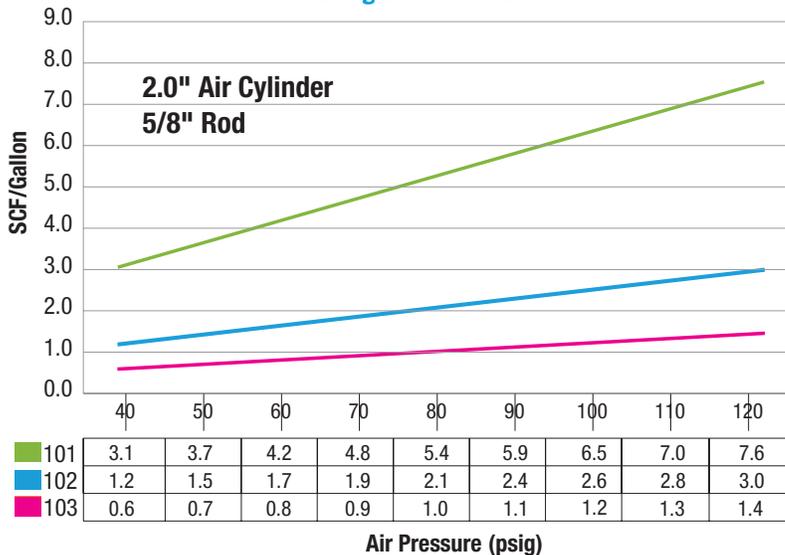
MODEL 103: ABOVE-WELL POSITIVE-ACTION DRIVE MOTOR

Depth x Regulator Pressure



Regulator Pressure (psig)

SCF x Regulator Pressure



Air Pressure (psig)

Performance Data

Operating Depth	84 ft. / 25.6 m
Flow Range**	Up to 11.0 US gpm / 41.6 lpm 15,840 US gpd / 59,960 lpd
Max. Operating Pressures	36.4 psig (based on 100 psi air supply)
Maximum Lift	84 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)	
Temperature Range	To 140° F / 60° C

**** Meets Reciprocating Pump Tests (ANSI/HI 6.6-2015)**

Technical Data

Max. External Diameter	3.9 in. (9.9 cm)
Total Cylinder Length	38 in. (96.5 cm)
Connection To Riser Pipe	2 in. (5.08 cm)
Recommended Internal Bore-Hole Diameter	4 to 5 in. (10.62 cm to 12.7 cm) or greater
Weight Of Cylinder	12 lb. (5.4 kg)
Discharge Size	3 in. (7.62 cm) NPT
Installation	Any angle from vertical to horizontal
Driver Weight	35 lbs. (15.8 kg)
Driver Rod Weight	12 lbs. per 100 feet (3.7 kg per 100 m)
Foot Valve Assembly Weight	20 lb. (9.1 kg)
Min. Well Casing Size	4 in. (10.16 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 cycle 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

