

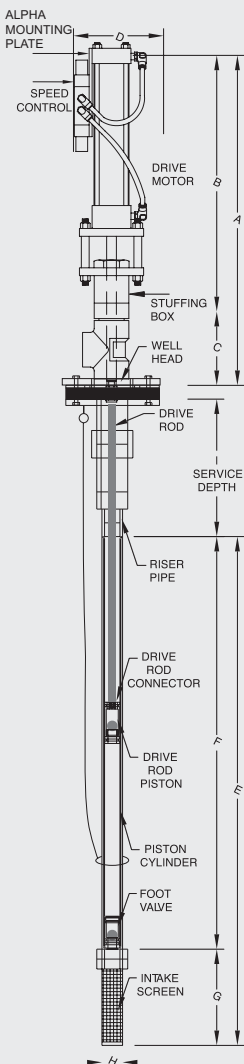
# V-2 Pneumatic Piston Pump™

## TECHNICAL SPECS.

- Operational depth:  
Up to 243 ft.; 74 m.
- Flow range:  
Up to 5.4 US gpm; 20.4 lpm
- Well casing size:  
3 in. (7.62 cm) or greater

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

### PUMP DIMENSIONS



### DIMENSIONS (IN INCHES)

- A. Above Well Height .....41.0
- B. Driver Width .....36.0
- C. Discharge Tee and Well Seal Height..... 5.0
- D. Driver Diameter ..... 5.5
- E. Foot Valve Assembly .....35.0
- F. Foot Valve Length .....30.0
- G. Intake Screen Length ..... 5.0
- H. Largest Downhole Diameter .....2.9



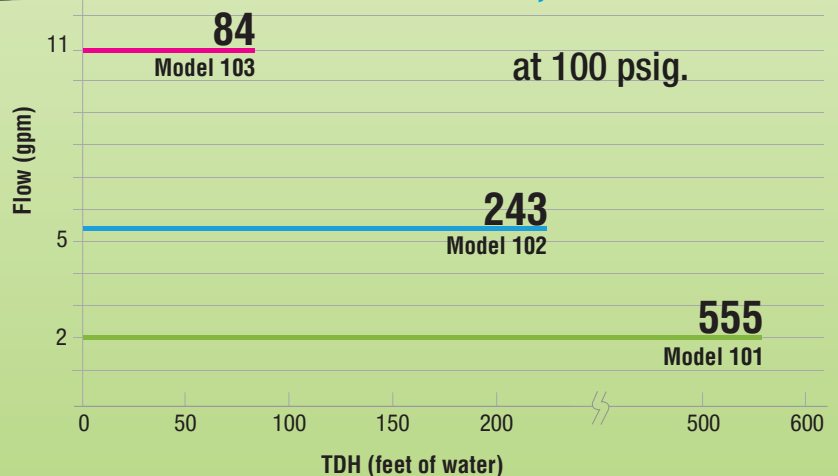
## MODEL 102: VERSATILE ABOVE-WELL-DRIVE PISTON PUMP

### 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 102 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.

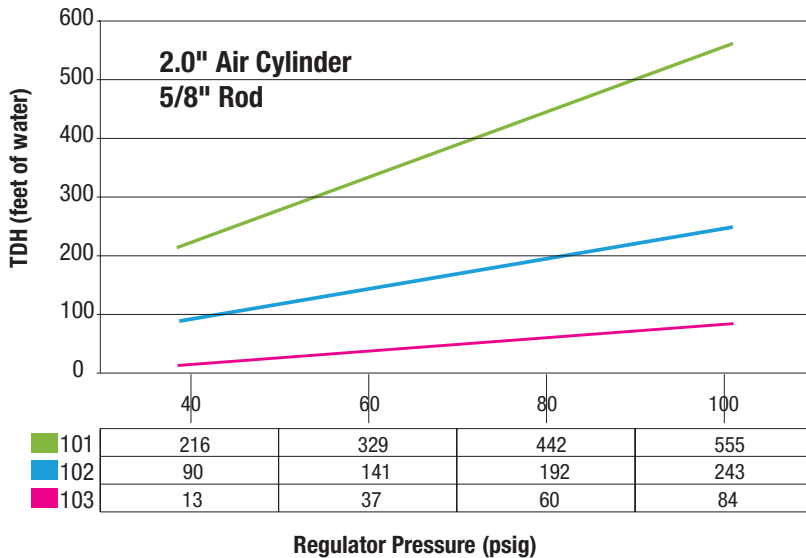
## FLOW vs. DEPTH, V-2 101, 102 and 103



# V-2 Pneumatic Piston Pump™

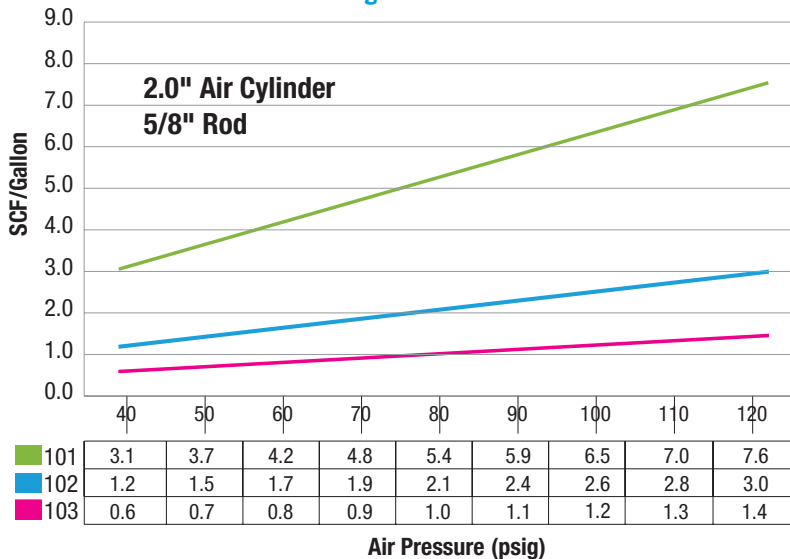
## MODEL 102: ABOVE-WELL POSITIVE-ACTION DRIVE MOTOR

### Depth x Regulator Pressure



Regulator Pressure (psig)

### SCF x Regulator Pressure



Air Pressure (psig)

## Performance Data

Operating Depth	243 ft. / 74 m
Flow Range**	Up to 5.4 US gpm / 20.4 lpm 7,770 US gpd / 29,400 lpd
Max. Operating Pressures	105 psig (based on 100 psi air supply)
Maximum Lift	243 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	2.9 in. (7.37 cm)
Total Cylinder Length	38 in. (96.5 cm)
Connection To Riser Pipe	2 in. (5.08 cm)
Recommended Internal Bore-Hole Diameter	3 to 4 in. (7.62 cm to 10.16 cm) or greater
Weight Of Cylinder	10 lb. (4.53 kg)
Discharge Size	2 in. (5.08 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	10 lb. (4.53 kg)
Min. Well Casing Size	3 in. (7.62 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](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

