

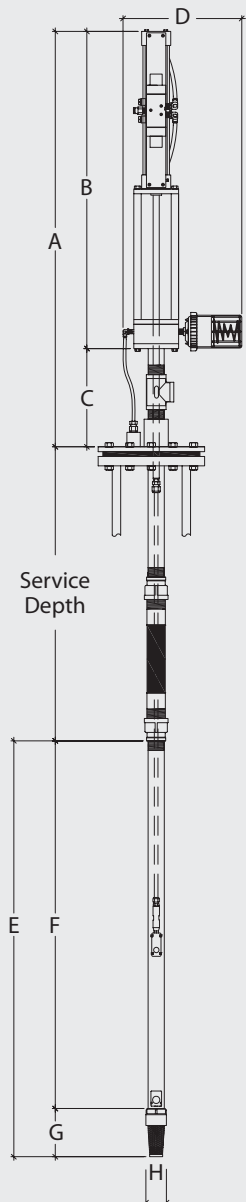
# Edge Pneumatic Piston Pump™

## TECHNICAL SPECS.

- Operational depth: Up to 119 ft.; 36.2 m.
- Flow range: Up to 5.0 US gpm; 18.9 lpm
- Well casing size: 3 in. (7.62 cm) or greater

*Best for landfill leachate, gas-well dewatering, DNAPL & floating product remediation*

### PUMP DIMENSIONS



### DIMENSIONS (IN INCHES)

- A.** Above Well Height .....43.0"
- B.** Driver Height.....33"
- C.** Discharge Tee + .....10"  
Coupling Height
- D.** Driver Diameter .....12.0"  
with Rod Lubricator
- E.** Foot Valve Assembly .....43.0"  
Length
- F.** Foot Valve Length .....38.0"
- G.** Intake Screen Length ..... 5.0"
- H.** Downhole Diameter..... 2.9"



## MODEL 102: ECONOMICAL BEST PERFORMANCE IN CLASS

*Affordable, reliable and rugged; No compressed air in well, discharge*

The Edge Pneumatic Piston Pump™ is Blackhawk's most economical pneumatic.

With 20% more lift than air-push competitors, Edge offers greater productivity and cost-saving advantages. Applications include landfill leachate, gas-well dewatering, DNAPL recovery and floating-product remediation.

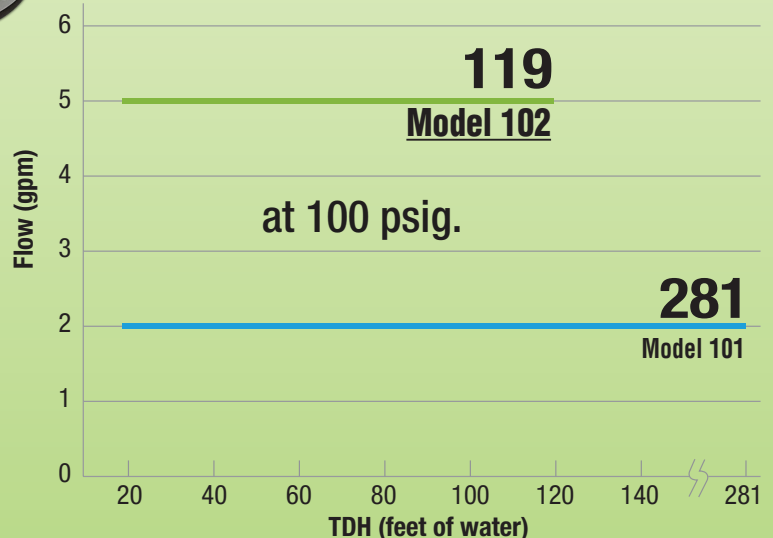
The drive motor and all mechanicals are cleanly above surface grade for easy installation and maintenance. Moving parts, including the drive rod,

never contact the fluid being pumped.

Power is direct from surface through the sucker-rod assembly. Fluid inlet is at pump-bottom intake and removes liquid to 0 submergence depth.

Model 102 maintains steady flow rates of up to 5 gallons (18.9 liters) per minute to depths of 119 feet (36 meters). Its above-ground, mechanical-drive technology means no pneumatic air can enter the well or sump; no odors or gases are released into the atmosphere.

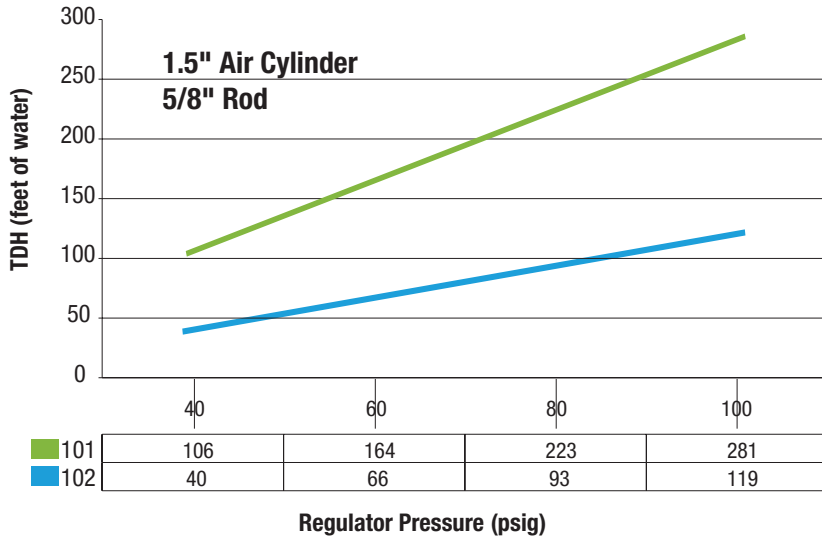
## FLOW vs. DEPTH, Edge 101 AND 102



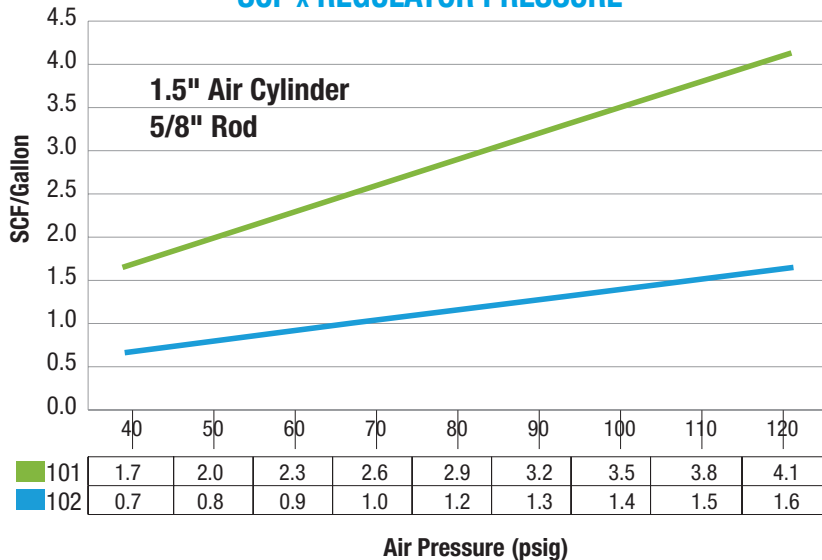
# Edge Pneumatic Piston Pump™

## MODEL 102: TOP-HEAD DRIVE NO PNEUMATIC AIR IN DISCHARGE

### DEPTH x REGULATOR PRESSURE



### SCF x REGULATOR PRESSURE



See how a piston pump works:

[blackhawkco.com/how-solar-linear-rod-piston-pumps-work](http://blackhawkco.com/how-solar-linear-rod-piston-pumps-work)

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

### Performance Data

Operating Depth	119 ft. / 36.2 m
Flow Range	Up to 5.0 US gpm / 18.9 lpm 7,200 US gpd / 27,000 lpd
Max. Operating Pressures	51.6 psig (based on 100 psi air supply)
Maximum Lift	119 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	.125 US gal / .48 liter (flow does not vary with depth)
Temperature Range	To 140° F / 60° C

### Technical Data

Max. External Diameter	2.9 in. (7.37 cm)
Above Wellhead Height	43 in. (109.2 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 lb. (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 cylinder counter
- Well seals & kits
- Factory-fresh seal replacements
- Factory driver-refurbishment program

The best-performing environmental pump in the business

