



# FlexExtend® High Flow

Higher-Volume Water from Deeper Wells — With Less Fuel, Less Power, and No Submerged Electronics.

- Pump from depths up to 165 feet.
- Deliver up to 26.5 gallons per minute.
- Powered from the surface.

## How the Impact Pump Works

FlexExtend works on a hydraulic ram principle.

A surface pump sends pressurized water down to the FlexExtend unit installed in the well. FlexExtend converts flow (volume) into pressure, using that pressure to lift water deeper from within the well.

- No electric motor down the well
- No submerged electronics
- No wiring to fail underground
- All power stays at the surface

Whether the surface pump is gas, diesel, electric, or solar, the hydraulic principle remains the same: efficient pressure conversion instead of wasted energy.

**3X  
MORE  
EFFICIENT**

The FlexExtend High Flow (SLX-40-HF) allows a surface pump - fuel-powered, electric, or solar - to lift water from deep wells and deliver high daily volumes with exceptional efficiency.

Originally developed for non-electric and fuel-powered farms, FlexExtend is equally effective when driven by electric or solar shallow-well pumps, achieving the same efficiency gains without placing motors or electronics down the well.

## Deep Wells, High Volume, Real Farm Performance

FlexExtend High Flow delivers performance around 3x the efficiency of other technologies and provides pumping outputs normally only associated with electric submersibles.

## Real Fuel Savings (Farm-Based Comparison)

Using a realistic agricultural duty cycle:

- 4 hours per day
- 4 days per week
- 52 weeks per year (832 hours annually)
- Fuel cost assumed at \$2.00 per gallon

### Typical Annual Fuel Cost

- Large 13 HP engine: ~\$1,997 / year
- Standard 5 HP engine: ~\$998 / year

FlexExtend suitable small efficient engine (WX10-class): **USES ONLY \$665** in fuel under the same conditions!

**THIS IS \$1,300 IN ANNUAL FUEL SAVINGS ALONE!!**

### FlexExtend can be powered by:

- Small gasoline or diesel powered centrifugal pump
- Belt-driven surface pumps
- Grid-powered electric shallow-well pumps
- Solar / DC shallow-well pumps

*In all cases, FlexExtend allows smaller pumps and power systems to achieve deeper lift and higher output than they could alone.*



Contact us to learn more or find a dealer near you.  
info@impactpumpsamerica.com

# Why It Uses Less Fuel and Power Than a Jet Pump

Jet pumps rely on high speed and high pressure, which wastes energy.

## Jet Pump Drawbacks

- Low efficiency
- Requires oversized engines or motors
- High fuel or power consumption
- High wear and heat
- Poor efficiency as depth increases

## FlexExtend Advantage

- Uses hydraulic efficiency instead of speed
- Allows smaller engines, motors, or solar arrays
- More water per unit of fuel or electricity
- Lower operating stress
- Longer equipment life

Larger job. Smaller power source. Lower cost.

## FLEXEXTEND SLX-40-HF

The FlexExtend SLX-40-HF is the High Flow version of Impact Pumps' revolutionary Surface Lift Extender for surface pumps.

The FlexExtend SLX-40-HF brings water from wells up to 165ft deep and 4" or more in diameter into the range of larger solar/electric surface pumps and small gasoline engine pumps.

## SOLUTION OVERVIEW

- Head max. 165ft
- Output Flow Rate max. 26.5gpm

## TECHNICAL DATA

- Efficiency: Max. 85%
- Borehole diameter: Min. 4 inch
- Water temperature: 32°F - 113°F
- Premium materials: Stainless steel AISI 304

## DIMENSIONS AND WEIGHTS

FLEXEXTEND SLX-40-HF  
High Flow Submersible Unit

- Outside diameter: Max. 3.78 inches
- Length: Max. 27.9 inches
- Weight: 6.2lbs
- Rising Main needed: HDPE 1 1/4" I.D.



## Built for Long-Term Agricultural Use

- Proven 25,000-hour runtime
- Zero scheduled maintenance
- 5-year warranty
- Designed for continuous duty
- Built to be kept and relied on, not discarded.

## Simple Installation with Well Head & Quick Connections

When paired with the Impact Pumps Well Head & Quick-Connections Kit:

- Faster installation
- Multiple installation configurations (Type 1 and Type 2)
- Easy access for service
- Ideal for repeatable farm installs.

## Best Uses

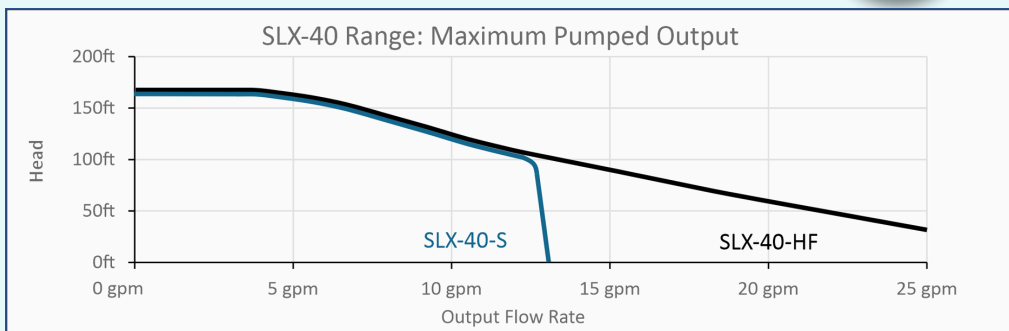
- Livestock watering systems
- Dairy and farm wells
- Irrigation and crop support
- Off-grid water systems
- Fuel-powered, electric, or solar surface pumps

## In Plain Terms

- Pumps deep wells up to 165 feet
- Delivers high daily water volume
- Uses less fuel or power
- Works with gas, electric, or solar pumps
- No electronics in the well
- Easier repairs, longer life

**HIGH FLOW  
SURFACE LIFT  
EXTENDER**

**FLEXEXTEND  
SLX-40-HF**



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Impact Pumps FlexExtend®  
High Flow  
A hydraulic solution for farms  
that value efficiency, simplicity,  
and long service life.