



# MUNICIPAL

PUMP SOLUTIONS





# MUNICIPAL PUMPS

Working for a municipality can be demanding. With fewer resources and being asked to do more with them, keeping everything running smoothly requires a pump with extreme performance that makes the most of every dollar. It has to be durable and reliable to provide consistent operation in lift stations, sewage, and water treatment applications. Fortunately, Pioneer Pump offers just that.

## ENGINEERING LEADERSHIP

Pioneer Pump’s leading-edge innovation has created the industry’s best pump, meticulously designed and crafted by a team of highly-skilled engineers. This design moves more product, more efficiently than the competition, giving the best value in a budget-conscious world. Strategically designed, the large eye area provides high flow and exceptional solids handling with low NPSHr. They’re so efficient, you’ll achieve greater performance with less energy than ever before.

## BUILT TO LAST

Built with the highest quality of materials available, Pioneer pumps stand the test of time. Ductile iron volutes and stainless steel impellers and shafts ensure long life and the reliability necessary for the demanding requirements of municipal pumping. In fact, these pumps are so reliable that they offer years of repair-free operation.

Bearing frames with oversized bearings and chromed shafts with lip seals or bearing isolators work to extend pump life, while mechanical seals with optional run-dry capability prevent leakage and damage. Plus, these municipal pumps are ingeniously designed for easy maintenance with back-pull configurations, replaceable wear rings, wear plates, suction cover, and removable inspection covers.

## SERVICE SUPPORT SUCCESS

Pioneer Pump will not just sell a pump. Using a combined 200 years of experience to fully optimize your pump’s performance, Pioneer Pump will make recommendations for piping, mounting, and pump placement that can help maximize your process and system performance. Modular designs with a variety of mounting configurations allow for maximum flexibility while reducing parts inventory. Pioneer Pump also provides attentive, highly-knowledgeable service and support through a global network of distributors. For those rare occasions when a pump goes down, Pioneer will get you back up and running quickly with an extensive inventory of replacement pumps and parts.

## PUMP SPECIFICATIONS

Pump Series	Head (ft / m)	Flow (gpm / m <sup>3</sup> /hr)	Sizes (in / mm)	Features
Standard Centrifugal (SC)	Up to 850+ / 260	20–44000 / 4–1000	1.5–30 / 40–760	High-performance, end-suction; Solids handling or clear liquids; Run-dry capability
Pioneer Prime (PP)	Up to 850+ / 260	20–44000 / 4–1000	1.5–30 / 40–760	Vacuum-assisted, automatic priming, run-dry; Solids handling or clear liquids
Self-Prime (ES, P, PT, PE)	Up to 200+ / 60	20–3500 / 4–795	1.5–10 / 40–250	Self-priming; Solids handling or clear liquids



*Enclosed silent units are available with low dBA ratings and are designed for unattended operation.*

## MUNICIPAL PUMPS

### LIFT STATIONS

**More performance, less energy:** Pioneer's innovative pump design features highly-efficient impellers with low NPSHr characteristics.

**Peace of mind, even in emergencies:** Whether your needs require a portable engine-driven pump or a permanently-mounted lift station backup, Pioneer Pump offers unmatched reliability.

**Better ROI:** Superior materials of construction used in every Pioneer pump provide better reliability and longer life.

**Applications include:**

- End-suction centrifugal dry pit
- Self-priming
- Vacuum-assisted portable bypass



### SEWAGE TREATMENT

**High flow, no worries:** Standard centrifugal, vacuum-assisted, or self-priming pumps are capable of handling the most demanding treatment applications.

**Thrive under pressure:** A high-efficiency design allows for more pressure while maintaining flow under flooded or suction lift conditions.

**Applications include:**

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| ■ Influent                      | ■ Filtering backwash              |
| ■ Effluent                      | ■ Settling basins                 |
| ■ Return activated sludge (RAS) | ■ Sequencing batch reactors (SBR) |
| ■ Waste activated sludge (WAS)  | ■ Bypass                          |



### WATER TREATMENT

**Consistent pressure for less:** By maintaining consistent water pressure while still performing efficiently, Pioneer pumps use less energy to do more work.

**Innovation that keeps you ahead:** Pioneer Pump is on the leading edge of developing pumps with lower lead content that will meet future National Sanitation Foundation® (NSF) requirements.

**Performance throughout the process:** Pioneer's wide range of pumps move water reliably throughout the entire water treatment process.

**Applications include:**

- |                   |                 |
|-------------------|-----------------|
| ■ Filter backwash | ■ Effluent      |
| ■ Bypass          | ■ Potable water |



# THE PIONEER PUMP ADVANTAGE

## PATENTED PIONEER PRIME

Timing belt driven vacuum pump removes air from the suction line while the patented PosiValve™ prevents liquid entry into the vacuum pump.

- Quick initial priming
- Overcomes minor suction-side leaks
- Continuous, unattended reprime under auto stop/start conditions

## HEAVY-DUTY COMPONENTS

All Pioneer standard centrifugal models are designed to stand up under the most demanding environments. Over-sized shafts and bearings, optimal materials, and advanced designs combine to create products that deliver performance in the field.

