

Pioneer Prime

# PP66S14L71



Typical Pump Configuration

## Performance

### Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

|                      |   |
|----------------------|---|
| Size                 | 6" x 6"<br>150 x 150 mm                         |
| Flow, Max            | 3,300 USgpm<br>760 m <sup>3</sup> /h<br>210 l/s |
| Head, Max            | 275 feet<br>80 meters                           |
| Flow at BEP          | 2,700 USgpm<br>620 m <sup>3</sup> /h<br>170 l/s |
| Efficiency at BEP    | 75%   |
| Solids Handling, Max | 3.0"<br>76 mm                                   |
| Operating Speed, Max | 2000 rpm  |
| Suction Connection   | 6" (150 mm)<br>150 ANSI Flanges                 |
| Delivery Connection  | 6" (150 mm)<br>150 ANSI Flanges                 |
| Bearing Lubrication  | Oil STD<br>Grease optional                      |
| Fasteners            | Imperial  |

## Applications

|              |                  |
|--------------|------------------|
| Construction | Waste Water      |
| Industrial   | Power Generation |
| Mining       | Environmental    |

### High flow, solids handling heavy duty pump

The PP66S14 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

### UltraPrime™ Priming System

|                        |   |
|------------------------|---|
| Priming System         | Mechanically Driven Diaphragm Style Vacuum Pump   |
| Air Removal Capability | 50 CFM  |
| Priming Chamber        | Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage. |
| Discharge Check Valve  | Swing Style - ductile iron with Buna-n Disc   |

### Other Specifications

|                   |  |
|-------------------|--|
| Mechanical Seal   | Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running |
| Pump End Bearing  | Single row ball  |
| Drive End Bearing | Single row ball  |
| Shaft             | 17-4 PH Stainless Steel  |

### Construction Materials

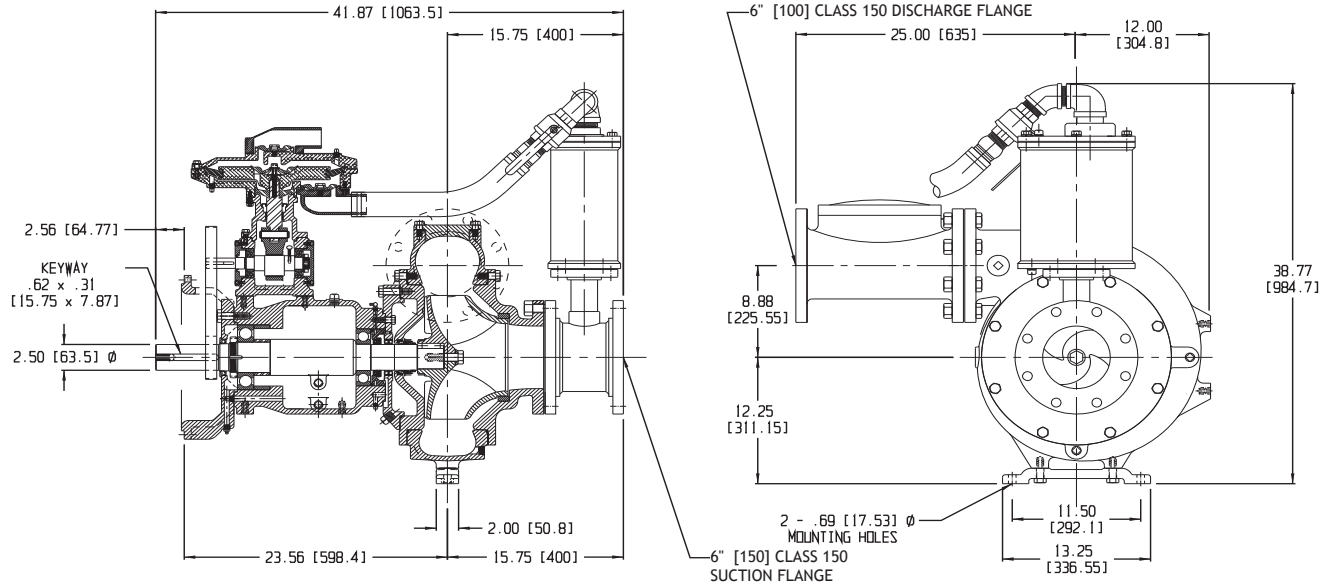
|               | Standard Construction           | CD4MCu Stainless Steel |
|---------------|---------------------------------|------------------------|
| Impeller      | Ductile Iron                    | CD4MCu                 |
| Volute        | Ductile Iron ASTM A536 65-45-12 | CD4MCu                 |
| Wear Ring     | ASTM A48 Class 40 Gray Iron     | 316 SS                 |
| Suction Cover | Ductile Iron ASTM A536 65-45-12 | CD4MCu                 |
| Bracket       | Ductile Iron ASTM A536 65-45-12 | CD4MCu                 |
| Backplate     | Ductile Iron ASTM A536 65-45-12 | CD4MCu                 |

# Mechanical Dimensions



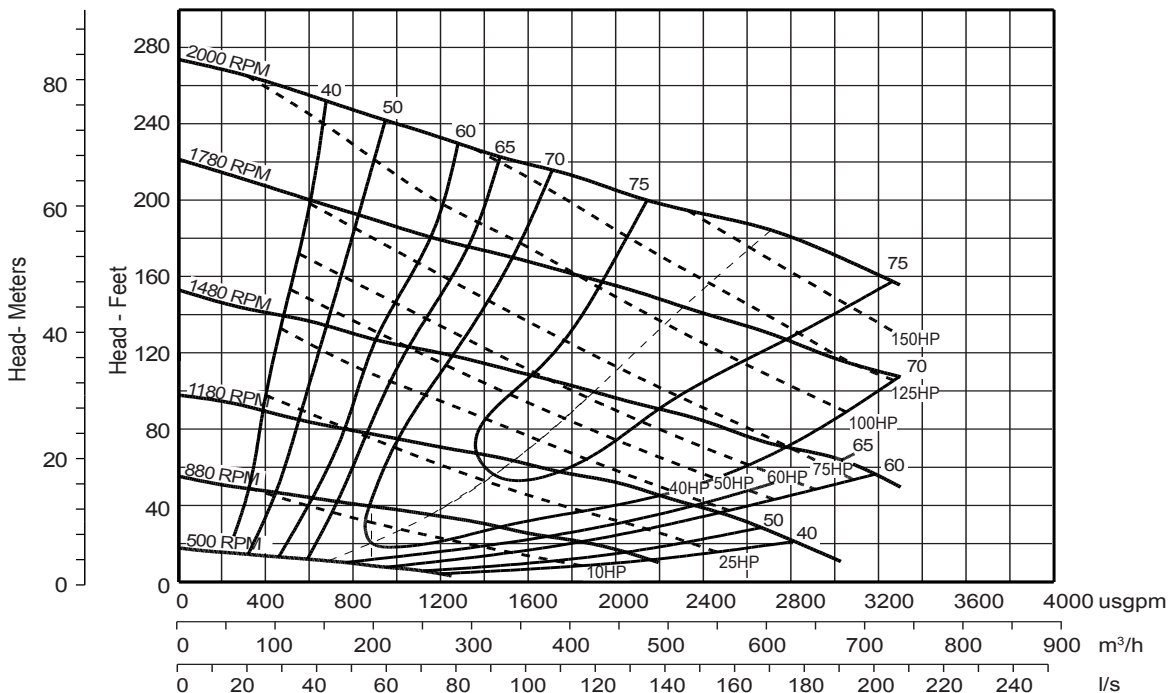
Typical Pump Configuration

## PP66S14



# Performance Curve

|                |                   |                 |                   |                 |
|----------------|-------------------|-----------------|-------------------|-----------------|
| Model: PP66S14 | Impeller Dia: 14" | Speed: Variable | Solids Size: 3.0" | Curve #A07976HQ |
|----------------|-------------------|-----------------|-------------------|-----------------|



Note: Losses from priming system not shown

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