

## PIONEER PRIME SERIES - END SUCTION CENTRIFUGAL PUMP

### PUMP SPECIFICATIONS:

<b>Model:</b>	PP64S12L71-H
<b>Description:</b>	Bare Shaft, Frame Mounted, Horizontal, Fully Automatic Dry Priming, Vacuum Assisted, Run Dry, Heavy Duty Solids Handling Pump
<b>Size:</b>	6" x 4" Class 150 ANSI Flanges Standard (Class 250 ANSI Flanges Available)
<b>Volute Casing:</b>	ASTM A536 Grade 65-45-12 Ductile Iron, Tangential Discharge with Cleanout, Clockwise Rotation (Viewed from the Driven End)
<b>Wear Ring(s):</b>	ASTM A48 Class 40 Gray Iron
<b>Bracket:</b>	ASTM A48 Class 30/35 Gray Iron - Enclosed w/ Lip Seal for Mechanical Seal Dry Running w/ Oil Level Sight Glass
<b>Backplate:</b>	ASTM A536 Grade 65-45-12 Ductile Iron
<b>Mechanical Seal:</b>	Single Type Seal w/ Tungsten Carbide vs. Silicon Carbide Seal Faces, Viton Elastomers, 300 Series Stainless Steel Hardware and Spring Seal System Designed for Indefinite Dry Running
<b>Impeller:</b>	Enclosed Type Non-Clog Impeller w/ 3.0" Spherical Solids Handling Capability - Construction of ASTM A744 CA6NM Stainless Steel (Other Materials Available Including: 316 Stainless Steel CD4MCu Stainless Steel, ASTM A536 Grade 65-45-12 Ductile Iron, and Hardened Iron)
<b>Bearing Housing:</b>	ASTM A48 Class 30/35 Gray Iron
<b>Pump End Bearing:</b>	Single Row Ball
<b>Drive End Bearing:</b>	Single Row Ball
<b>Shaft:</b>	1144 Stress Proof Steel Chromed and Ground Fits (Other Metals Available Including: 17-4 PH Corrosion Resistant Stainless Steel)
<b>Optional Materials:</b>	Special Metals Including: 316 Stainless Steel, CD4MCu Stainless Steel and Hardened Materials

### UltraPrime™ Priming System

#### Vacuum Pump Specifications:

- 50 CFM Air Flow Capacity
- Mechanically Driven Diaphragm Style Continuous Vacuum
- Casing - Corrosion Resistant Aluminum w/ Buna-n Elastomer
- Drive Assembly - Cast Iron-Class 30 w/ Steel Shaft and Connecting Rod-Oil Lubricated

#### Separator Specifications:

- Separator Spool: Double Chamber Standard Steel
- Air/Water Chamber: Bolted to suction spool/volute of centrifugal pump chamber designed to separate air and water before entering the pump case. O-ring sealed w/ vacuum pump isolation valve.
- PosiValve™ Air Separation Valve: Constructed of non-corrosive manganese bronze with 316 Stainless Steel (SS) valve stem and seat. Actuator assembly with float ball and hardware 316 SS.
- Discharge Check Valve: Swing Style - Cast Iron w/ Buna-n disc