


**Pioneer Prime**

# PP108C18L71


**PERFORMANCE**
**End suction centrifugal pump**

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

Size	10" x 8" 250 x 200 mm
Flow, Max	5,500 USgpm 1270 m3/h 350 l/s
Head, Max	500 feet 150 meters
Flow at BEP	5,400 USgpm 1240 m3/h 340 l/s
Efficiency at BEP	74%
Solids Handling, Max	1.25" 30 mm
Operating Speed, Max	2000 rpm
Suction Connection	10" (250 mm) 150 ANSI Flanges
Delivery Connection	8" (200 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

**High flow, heavy duty pump**

Designed to operate over a broad range of performance while delivering outstanding suction lift, the PP108C18 is the clear choice. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

**PIONEER PRIME 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, FKM elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Double Row Angular Contact
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

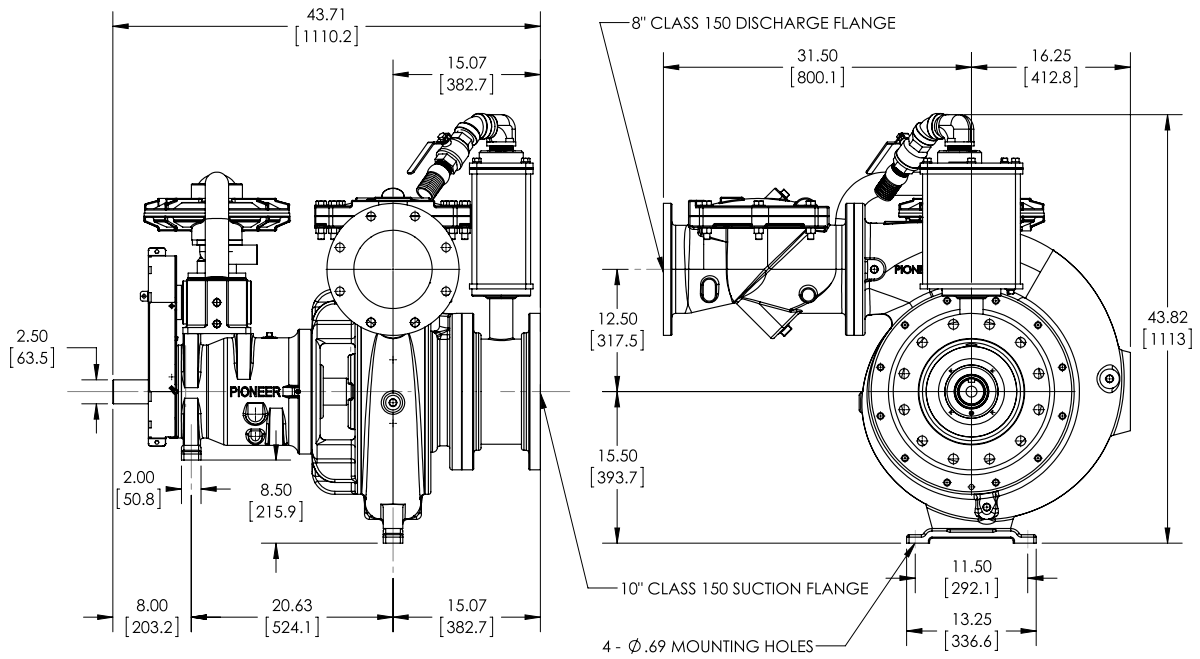
**CONSTRUCTION MATERIALS**

Material	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	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

**APPLICATIONS**

Quarry	Firefighting
Mining	Oil & Gas
Steel	
Dust Suppression	

## MECHANICAL DIMENSIONS



## PERFORMANCE CURVE

Model: PP108C18

Impeller Dia: 18.25"

Speed: Variable

Solids Size: 1.25"

Curve #A5136HQ

