



**Pioneer Prime**

# PP425C75L71



## PERFORMANCE

### End suction centrifugal pump

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

Size	4" x 2.5" 100 x 65 mm
Flow, Max	540 USgpm 120 m <sup>3</sup> /h 30 l/s
Head, Max	250 feet 80 meters
Flow at BEP	400 USgpm 90 m <sup>3</sup> /h 30 l/s
Efficiency at BEP	77%
Solids Handling, Max	0.5" 10 mm
Operating Speed, Max	3575 rpm
Suction Connection	4" (100 mm) 150 ANSI Flanges
Delivery Connection	2.5" (60 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

### High flow, heavy duty pump

The PP425C75 is a high flow, ruggedized pump designed to run over a broad range of performance and deliver outstanding suction lift. 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	Single Row Ball
Shaft	17-4 PH Stainless Steel

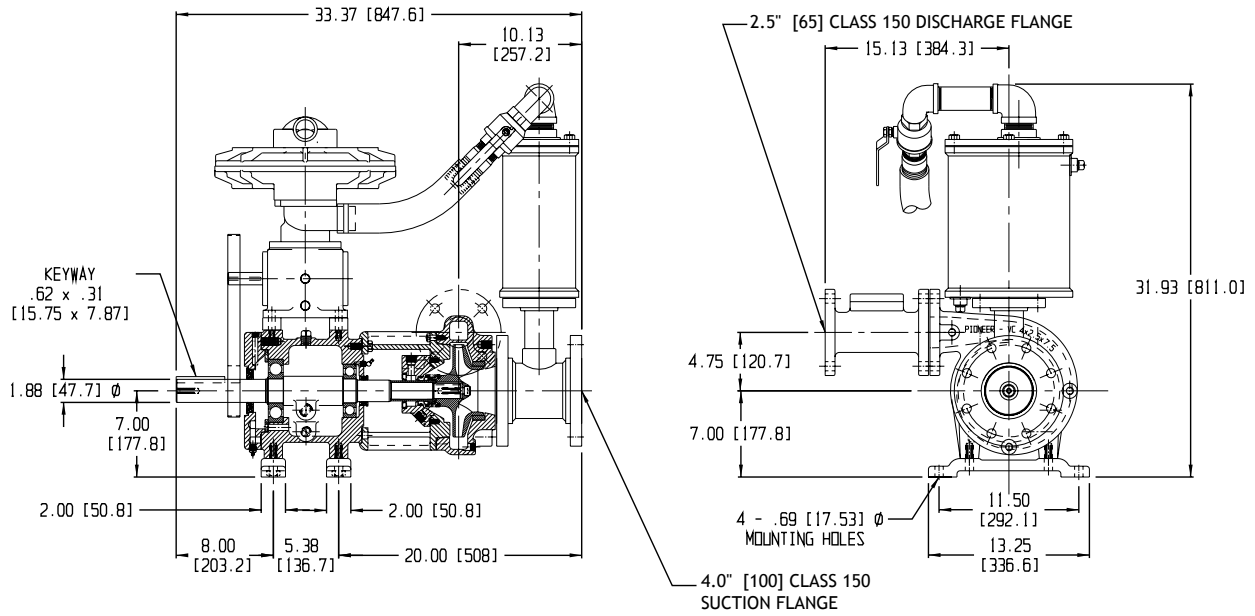
## CONSTRUCTION MATERIALS

Material	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM	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
Brac-plate	Ductile Iron ASTM A536 65-45-12	CD4MCu

## APPLICATIONS

Oil & Gas	Petrochemical
Construction	Rental
Industrial	Agriculture
Mining	Irrigation

## MECHANICAL DIMENSIONS



## PERFORMANCE CURVE

Model: PP425C75

Impeller Dia: 7.5"

Speed: 3575

Solids Size: 0.5"

Curve #A1621HQ

