

Pioneer Prime

PP86C14L71

PERFORMANCE

Pioneer Prime series -

vacuum assisted, end suction centrifugal pump

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

Size	8" x 6" 200 x 150 mm
Flow, Max	4400 gpm 1010 m ³ /hr 270 l/s
Head, Max	310 feet 90 meters
Flow at BEP	3100 gpm 710 m ³ /hr 200 l/s
Efficiency at BEP	79%
Solids Handling, Max	1" 35 mm
Operating Speed, Max	2100 rpm
Suction Connection	8" (200 mm) 150 ANSI Flanges
Delivery Connection	6" (150 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial



High flow, heavy duty pump

The PP86C14 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.

FEATURES

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

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	Double Row Angular Contact
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

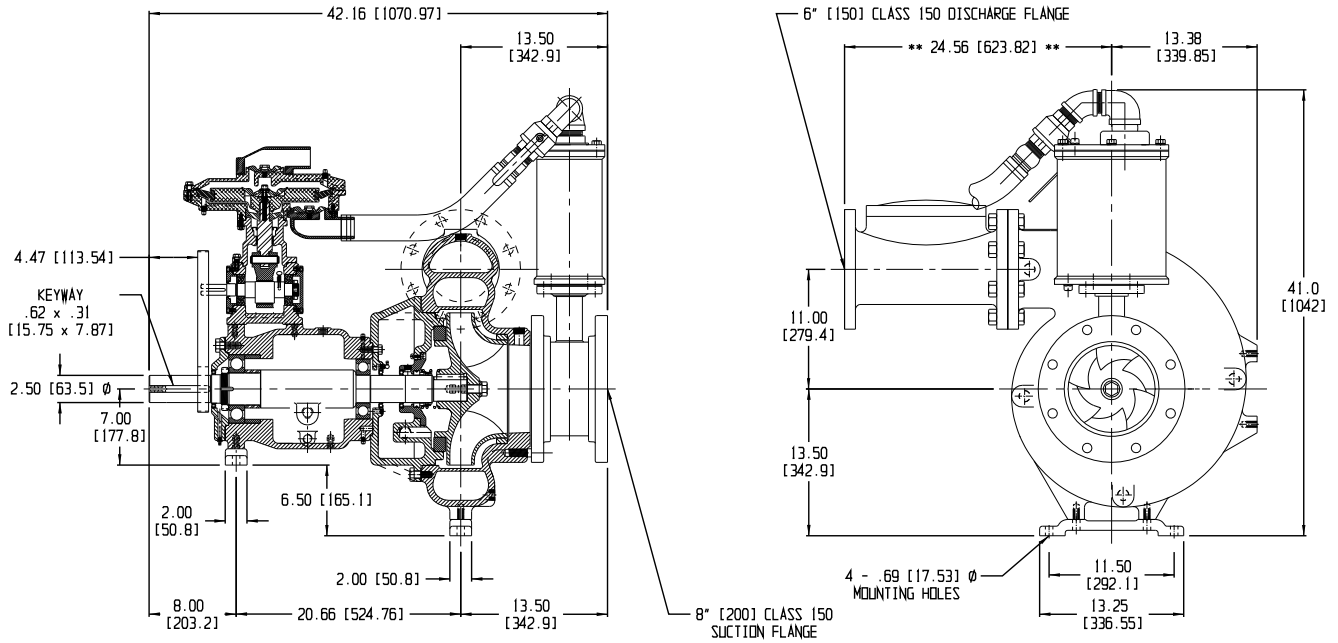
STANDARD MATERIALS OF CONSTRUCTION

Material	Standard Construction	CD4MCu Duplex Stainless
Impeller	ASTM A744 CA6NM Stainless	ASTM A744 CD4MCu
Volute	ASTM A536 Ductile Iron 65-45-12	ASTM A744 CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	ASTM A743 316 Stainless
Suction Cover	ASTM A536 Ductile Iron 65-45-12	ASTM A744 CD4MCu
Brac-Plate	ASTM A536 Ductile Iron 65-45-12	ASTM A744 CD4MCu
Bearing Housing	ASTM A48 Class 30 Gray Iron	ASTM A48 Class 30 Gray Iron

APPLICATIONS

Oil & Gas	Petrochemical
Construction	Rental
Industrial	Agriculture
Mining	Irrigation
PosiValve™ Patent #6,783,730	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE

Model: PP86C14

Impeller Dia: 14"

Speed: Variable

Solids Size: 1"

Curve #08960HQ

