

## Pioneer Prime

# PP64C14

### 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	6" x 4" 150 x 100 mm
Flow, Max	2100 USgpm 477 m <sup>3</sup> /hr 132 l/s
Head, Max	350 feet 107 meters
Flow at BEP	1300 USgpm 295 m <sup>3</sup> /hr 82 l/s
Efficiency at BEP	72%
Solids Handling, Max	1" 25 mm
Operating Speed, Max	2200 rpm
Suction Connection	6" (150 mm) 150 ANSI Flanges
Delivery Connection	4" (100 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

### APPLICATIONS

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



#### High Flow, Heavy Duty Pump

The PP64C14 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 AND BENEFITS

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

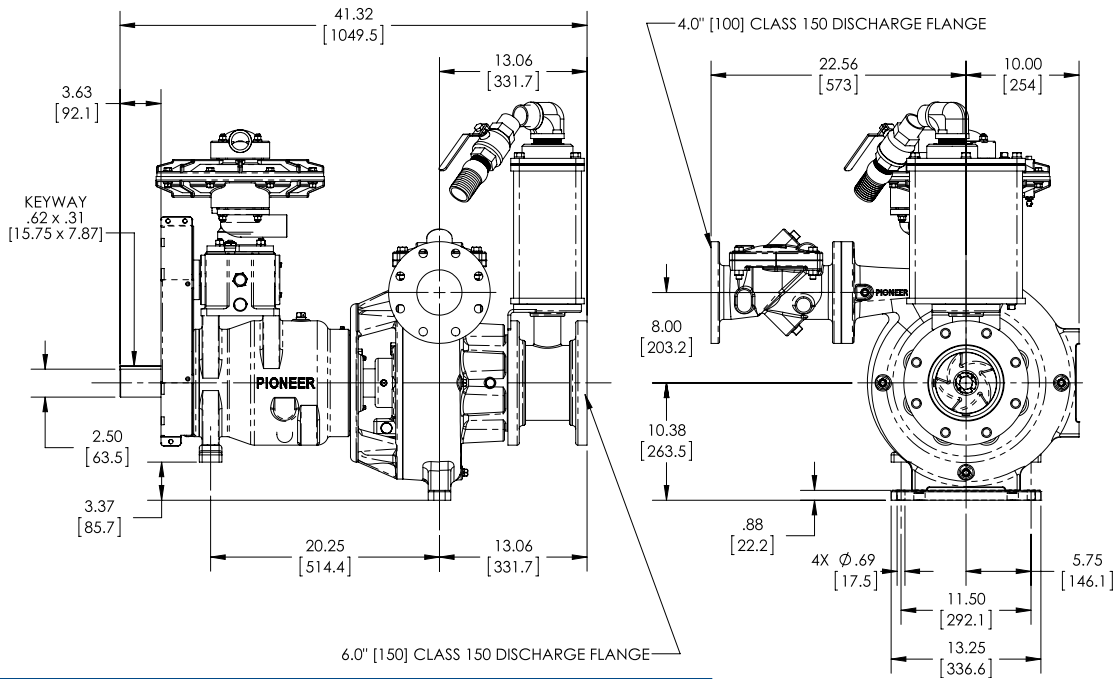
### SPECIFICATIONS

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring (run dry option available)
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

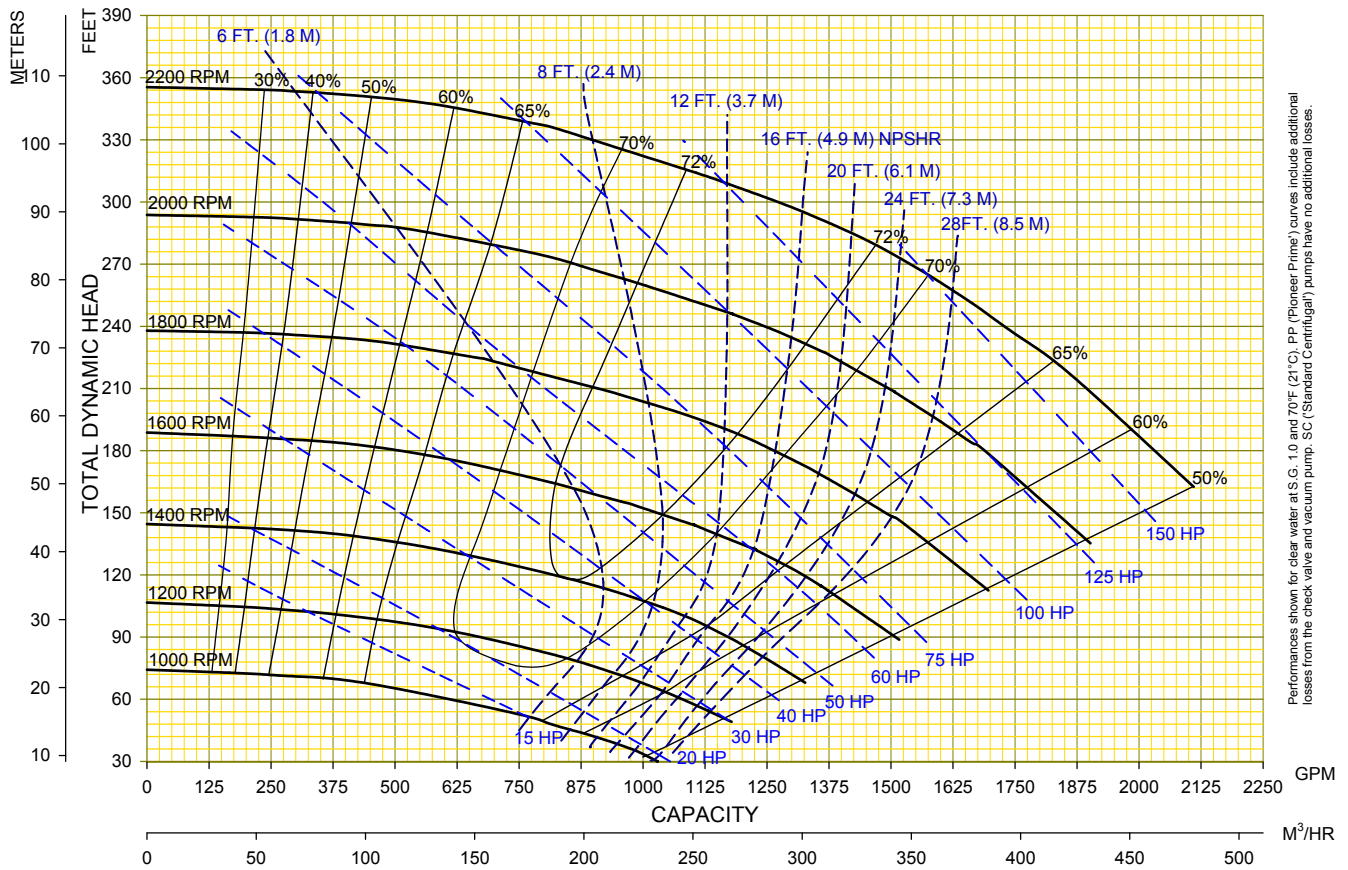
### MATERIALS OF CONSTRUCTION

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

## MECHANICAL DIMENSIONS



## PERFORMANCE CURVE



Performances shown for clear water at S.G. 1.0 and 70°F (21°C). P.P. (Pioneer Prime) curves include additional losses from the check valve and vacuum pump. S.C. (Standard Centrifugal) pumps have no additional losses.