

Pioneer Prime

PP44S8L71

PERFORMANCE

**Pioneer Prime series -
vacuum assisted, end suction centrifugal pump**

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

Size	4" x 4" 100 x 100 mm
Flow, Max	1600 gpm 370 m ³ /hr 90 l/s
Head, Max	150 feet 40 meters
Flow at BEP	1060 gpm 240 m ³ /hr 70 l/s
Efficiency at BEP	60%
Solids Handling, Max	3" 76 mm
Operating Speed, Max	2500 rpm
Suction Connection	4" (100 mm) 150 ANSI Flanges
Delivery Connection	4" (100 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

APPLICATIONS

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

PosiValve™ Patent #6,783,730



High flow, solids handling heavy duty pump

The PP44S8 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering 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

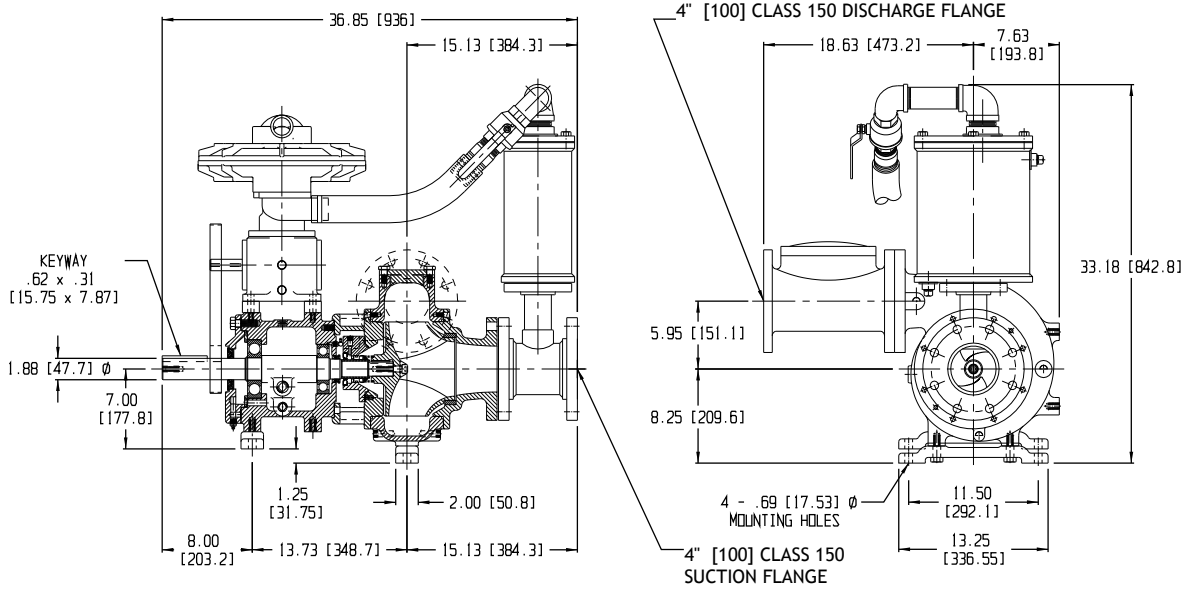
SPECIFICATIONS

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	Single Row Ball
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

STANDARD MATERIALS OF CONSTRUCTION

	Standard Materials	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

MECHANICAL DIMENSIONS



PERFORMANCE CURVE

Model: PP44S8

Impeller Dia: 8.25"

Speed: Variable

Solids Size: 3"

Curve #A7663HQ

