



Pioneer Prime

# PP44S8BL71



Typical Pump Configuration

## 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	1,450 USgpm 330 m <sup>3</sup> /hr 90 l/s
Head, Max	120 feet 40 meters
Flow at BEP	1,100 USgpm 250 m <sup>3</sup> /h 70 l/s
Efficiency at BEP	77%
Solids Handling, Max	2.0" 51 mm
Operating Speed, Max	2200 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

### High flow, solids handling heavy duty pump

The PP44S8B 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.

### UltraPrime™ Priming 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

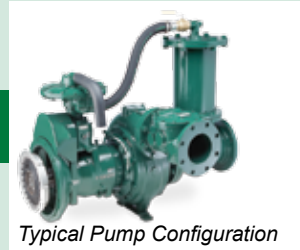
### Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, 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

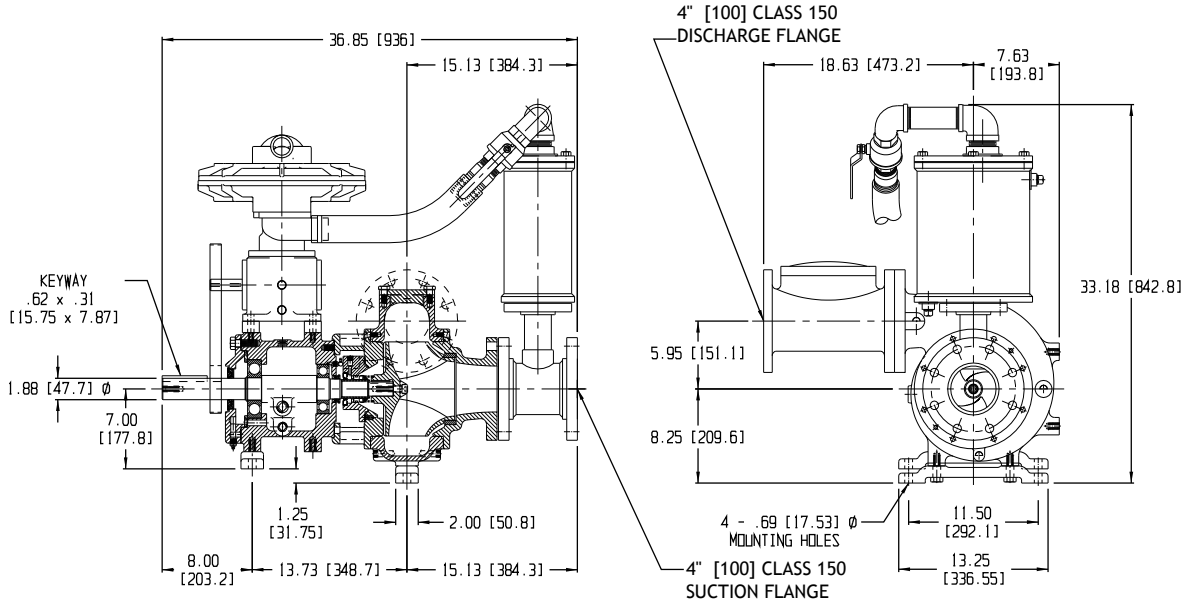
### Construction Materials

	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
Brac-plate	Ductile Iron ASTM A536 65-45-12	CD4MCu

# Mechanical Dimensions



## PP44S8B



# Performance Curve

Model: PP44S8B	Impeller Dia: 8.25"	Speed: Variable	Solids Size: 2.0"	Curve #07729HQ
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