

# Pioneer Prime PP43C21L71



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 pump

Size	4" x 3" 100 x 75 mm
Flow, Max	750 USGPM 170 m³/h 47 l/s
Head, Max	700 feet 210 meters
Flow at BEP	540 USGPM 120 m³/h 30 l/s
Efficiency at BEP	47%
Solids Handling, Max	0.78" 20 mm
Operating Speed, Max	2100 rpm
Suction Connection	4" 150 ANSI Flanges
Delivery Connection	3" 150 ANSI Flanges
Lubrication	Oil STD Grease optional
Fasteners	Imperial
Applications	

## Applications

Oil & Gas	Construction
Industrial	Mining
Petrochemical	Rental
Agriculture	Irrigation
-	

PosiValve™ Patent #6,783,730

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#### High pressure, high flow, heavy duty pump

Designed to operate over a broad range of performance while delivering outstanding suction lift, the PP43C21 is the clear choice. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

### UltraPrime<sup>™</sup> Priming System

Ultrarinite Fi	ining 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
Valve	
Other Specifica	tions
	tions Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton <sup>®</sup> elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
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Other Specifica Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton <sup>®</sup> elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running

#### **Construction Materials**

	Standard Construction	Optional Constructions	
Impeller	CA6NM SS	CD4MCu	316 SS
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS	316 SS
Suction Cover	ASTM A536 65-45-12	CD4MCu	316 SS
Volute	ASTM A536 65-45-12	CD4MCu	316 SS
Brac-plate/ bracket	ASTM A536 65-45-12	CD4MCu	316 SS
Backplate	ASTM A536 65-45-12	CD4MCu	316 SS



# 1800 PUMP RENTAL

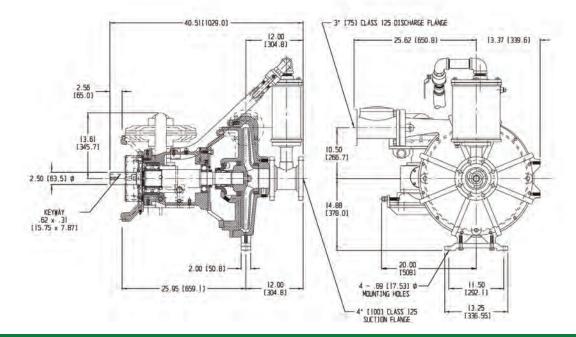
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# **Mechanical Dimensions**



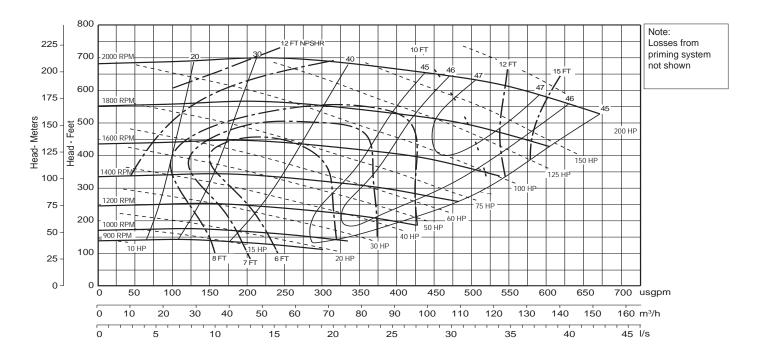
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#### PP43C21



# **Performance Curve**

Model: PP43C21	Impeller Dia: 21"	Speed: Variable	Solids Size: 0.78"	Curve #12948HQ



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