



PIONEER PUMP

PERFORMANCE THROUGH INNOVATION™



PosiValve™ Patent #6,783,730

Pioneer Prime

PP108C24

Performance

Pioneer Prime - Vacuum Assisted Centrifugal Pump

With exceptional NPSH, the **PP108C24** delivers high flow rates without reducing suction lift.

Size	10" x 8" (250 x 200mm)
Flow, Max, Preliminary	5070 GPM @ 1900 rpm (1152 m ³ /hr)
Head, Max, Preliminary	715 feet @ 1900 rpm (218 meters)
Solids handling, max	1.1" (27.9mm)
Max Operating Speed	2000 rpm
Suction connection	10" 150 ANSI Flanges
Delivery Connection	8" 150 ANSI Flanges
Lubrication	Oil, STD Grease, Optional
Fasteners	Imperial

Applications

Mine and Quarry Dewatering
High Head Pumping
Water Transfer
Land Reclamation

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For exceptionally high head while maintaining high suction lifts, the Pioneer Prime PP108C24 is the clear choice.

- Extreme flows with high head, to minimize required pumping time in high head applications without having to stage pumps.
- Choice of sealing options, including oil bath, run dry seal system, for worry free, "tailor made" operation.
- Ultra Prime™ priming system for reliable, repeatable, unattended priming.
- Choices of construction metallurgies, to suit your pumping conditions and give you longer pump life.

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM, single chamber
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - Cast Iron with Buna-n Disc

Other Specifications

Mechanical Seal	Single Type Seal w/ Tungsten Carbide vs. Silicon Carbide Seal Faces, Viton® Elastomers, 300 Series Stainless Steel Hardware and Spring Seal System Designed for Indefinite Dry Running (Optional Sealing types -
Pump End Bearing	Double Row Deep Groove Ball
Drive End Bearing	Double Row Angular Contact Bearings Bearing

Construction Materials Options

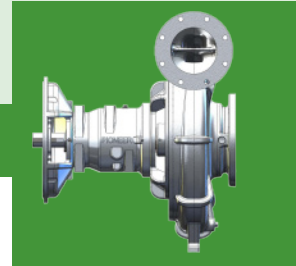
	Standard Construction	CD4MCu Construction	Stainless Steel Construction
Impeller	CA6NM SS	CD4MCu	316 SS
Shaft	17-4 PH	17-4 PH	17-4 PH
Wear Ring	Cast Iron	316 SS	316 SS
Suction Cover	ASTM A536 65-45-12	CD4MCu	316 SS
Volute	ASTM A536 65-45-12	CD4MCu	316 SS
Brac-plate	ASTM A536 65-45-12	CD4MCu	316 SS

1800 PUMP RENTAL

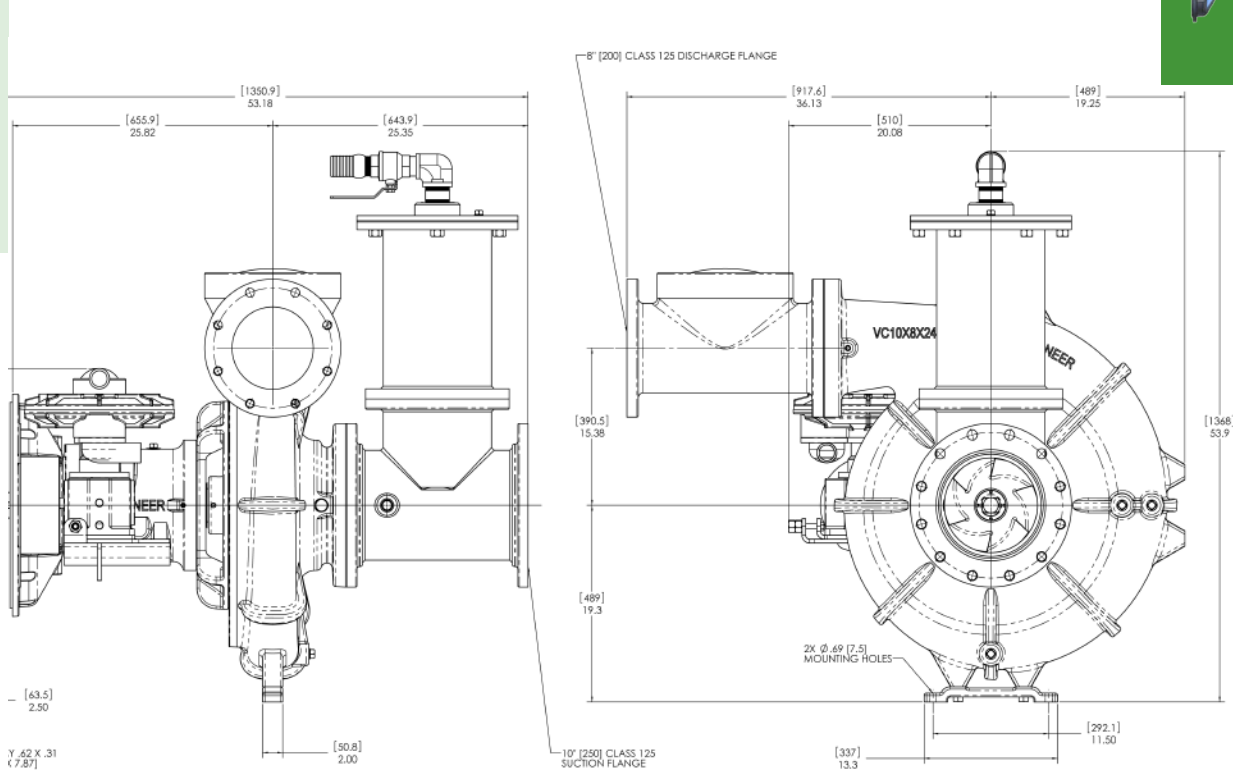
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Mechanical Dimensions

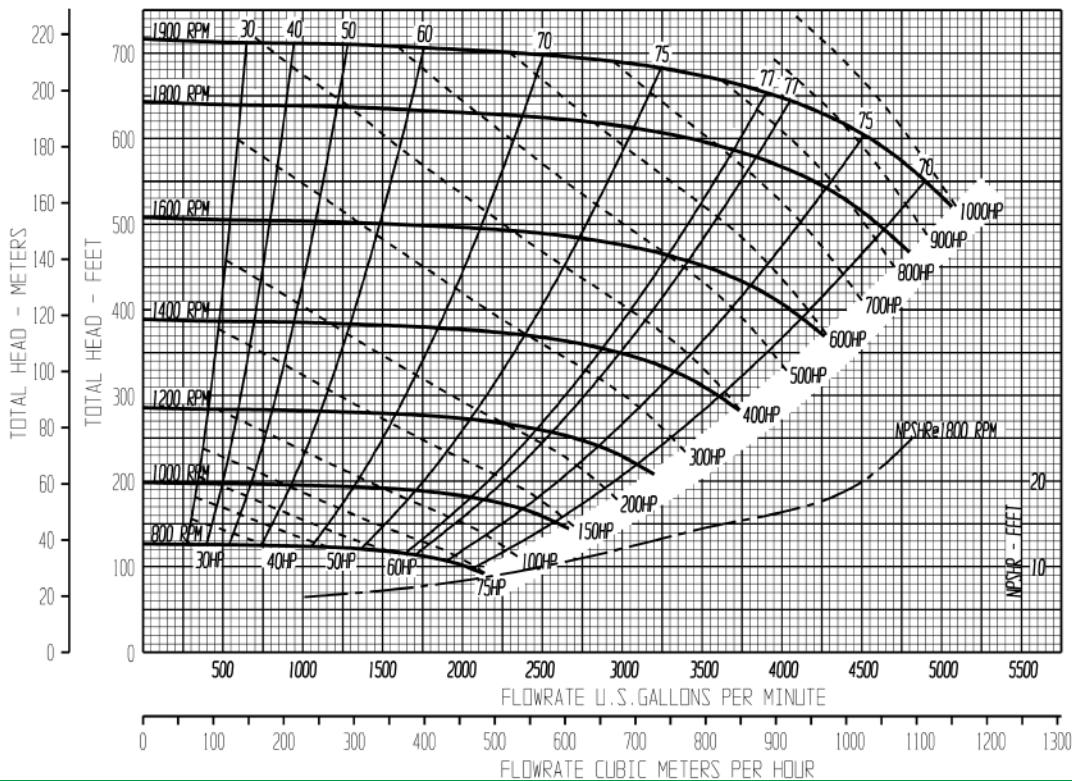


PP108C24



Performance Curve

MODEL: PP108C24	IMPELLER DIA.: 24"	SPEED: 2000 RPM	SOLIDS SIZE: 1.1"
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Note: Performance Shown is based on full CFD analysis performed by Simerics, Inc on solid model provided by Pioneer Pump.

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