

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 76 mm
Flow, Max	675 USgpm
	160 m³/h
	40 l/s
Head, Max	700 feet
	210 meters
Flow at BEP	540 USgpm
	120 m ³ /h
	30 l/s
Efficiency at BEP	47%
Solids Handling,	0.78"
Max	20 mm
Operating Speed,	2100 rpm
Max	
Suction Connection	4" (100 mm)
	150 ANSI Flanges
Delivery Connection	3" (76 mm)
	150 ANSI Flanges
Bearing Lubrication	Oil STD
	Grease optional
Fasteners	Imperial

Applications

Quarry Mining Steel Dust Suppression Firefighting Oil & Gas

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™ 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 Specifica	tions
Other Specifica Mechanical Seal	tions Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton [®] elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton [®] elastomers, 300 series stainless steel hardware and spring,
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

Construction Materials

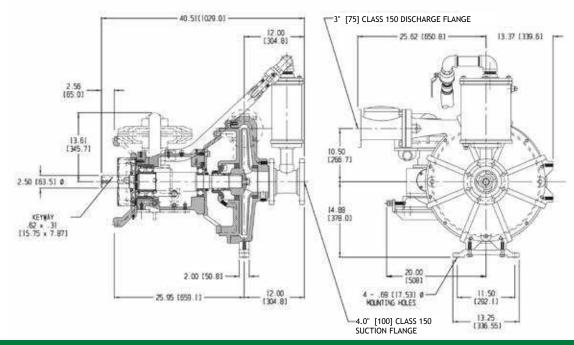
	Standard Construction	CD4MCu Stainless Steel	
Impeller	CA6NM SS	CD4MCu	
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu	
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS	
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu	
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu	
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu	

Mechanical Dimensions



Typical Pump Configuration





Performance Curve

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

