

Pioneer Prime

PP1818S22L71


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	18" x18" 450 x 450 mm
Flow, Max	19000 USgpm 4370 m ³ /h 1200 l/s
Head, Max	220 feet 70 meters
Flow at BEP	13000 USgpm 2990 m ³ /h 820 l/s
Efficiency at BEP	80%
Solids Handling, Max	4.50" 114 mm
Operating Speed, Max	1180 rpm
Suction Connection	18" (450 mm) 150 ANSI Flanges
Delivery Connection	18" (450 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

High flow, heavy duty, solids handling pump

Designed to operate over a broad range of performance while delivering outstanding suction lift, the PP1818S22 is the solid choice. The rugged construction and oversized shaft provide proven reliability in the most demanding applications.

PIONEER PRIME 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 Roller
Drive End Bearing	Double Row Angular Contact
Shaft	17-4 PH Stainless Steel
SAE	SAE engine-mount bracket options available

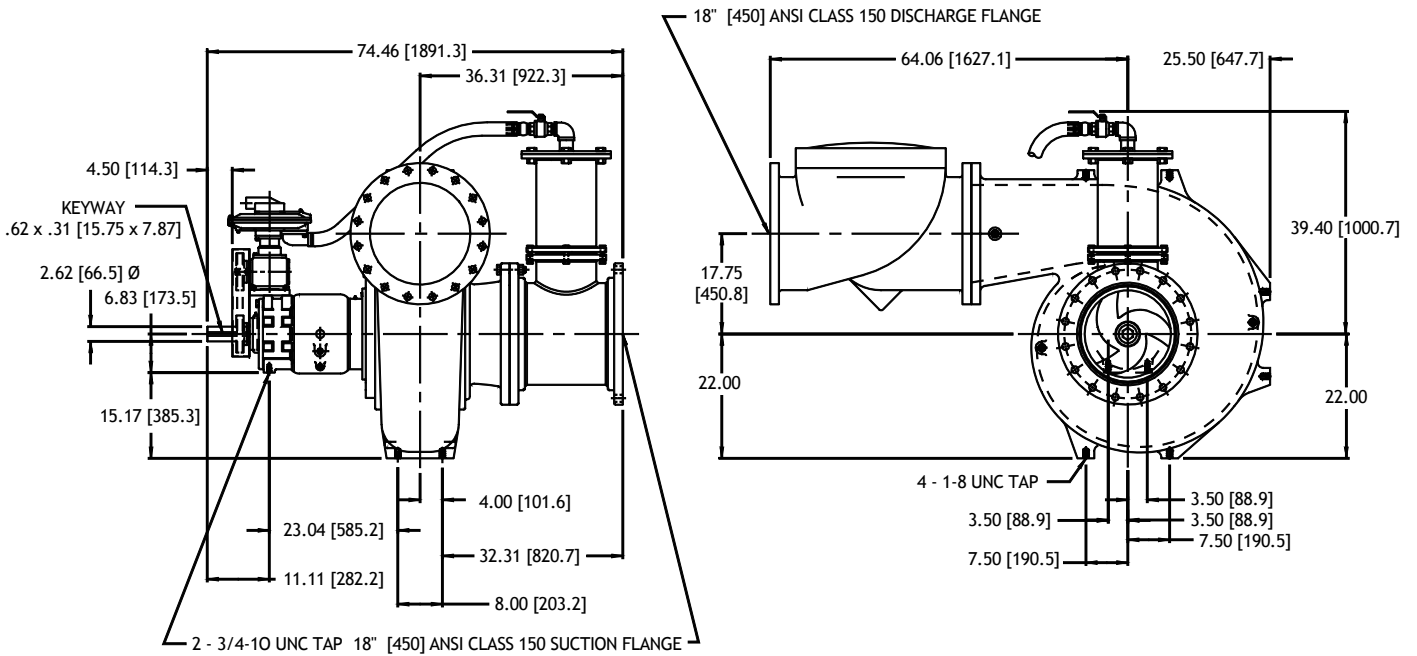
CONSTRUCTION MATERIALS

Material	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM	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

APPLICATIONS

Dirty Water	Raw Water Pumps
Sewage Bypass	Flood Pumps
Silt Returns	Mine Dewatering
Cooling Pumps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE

Model: PP1818S22

Impeller Dia: 22.50"

Speed: Variable

Solids Size: 4.50"

Curve #A6916HQ

