



Pioneer Pump, Inc.

SPECIFICATION SHEET

PIONEER PRIME - ENGINE DRIVEN - END SUCTION CENTRIFUGAL PUMP SIZE 6" X 6"

General Specifications: Model: PP66S12L1-F4L913
Engine Driven, Fully Automatic Dry Priming, Vacuum Assisted,
Run Dry, Heavy Duty Solids Handling Pump

Pump Specifications:

Size: 6" X 6" w/3 inch Spherical Solids Handling Capability
Suction Cover: ASTM A48 Class 30 Gray Iron
Wear Ring: 400 Series Heat Treated Stainless Steel
Volute Casing: ASTM A536 Grade 80-55-06 Ductile Iron
Volute Cleanout: Handhole Type, ASTM A48 Class 30 Grey Iron, O-Ring Mounted
Backplate: ASTM A48 Class 30 Gray Iron
Bracket: ASTM A48 Class 30 Gray Iron Enclosed w/ Lip Seal for Mechanical Seal Dry Running w/Oil level sight glass bracket oil capacity 5/8 Gallon
Mechanical Seal: Single Type Seal w/ Silicon Carbide Seal Faces, Viton Elastomers, 300 Series Stainless Hardware & Spring, Seal System Designed for Indefinite Dry Running
Impeller: Enclosed Type Two Port Non-Clog w/3.0 Inch Spherical Solids Handling Capability Construction of ASTM A744 CA6NM Stainless (other materials available including: 316 Stainless Steel, CD4-Mcu, Ductile Iron and Hardened Iron)
Bearing Housing: ASTM A48 Class 30 Gray Iron
Pump End Bearing: Single Row Ball - 6313-C3
Drive End Bearing: Single Row Ball - 6315-C3
Shaft: 1144 Stress Proof Steel (Other Metals Available including: 17-4 PH Corrosion Resistant)
Flanges: AISI 150 # Flanges Standard (250 # Flanges Available)
O-Rings: Buna-n Standard (Others available Including: Neoprene and Viton)
Lip Seals: Bracket - CR Type - Buna-n Bearing/S.A.E. Cover - CR Type - Buna-n
Optional Materials: (Pump End)-Stainless Steel, CD4-Mcu & Ductile Iron

Vacuum Pump Specifications:

50 CFM Air Flow Capacity, Diaphragm Style continuous Vacuum, Mechanically Driven

Materials of Construction:

Casing - Corrosion Resistant Aluminum
Actuator - Corrosion Resistant
Aluminum w/Buna-n Elastomer
Drive Assembly - Cast Iron-Class 30 w/steel shaft & connecting rod-oil lubricated

Separator Specifications:

Separator Spool: Double Chamber, Ductile Iron -ASTM A536 Grade 80-55-06
Air/Water Chamber: Bolted to suction spool/volute of centrifugal pump-chamber designed to separate air & water before entering the pump case. O-ring sealed w/vacuum pump isolation valve.
Air/Separation Valve: Constructed of non-corrosive manganese bronze with 316 stainless steel (SS) valve stem & seat. Actuator assembly with float ball & hardware 316 SS.
Discharge Check Valve: Swing Style - Cast Iron w/Buna-n disc (Viton Optional)

Engine Specifications:

Model: F4L913 (Deutz)
Type: Four Cylinder, Four Cycle, Air Cooled Diesel Engine
Displacement: 249.3 Cu. In. (4.086 L.)
Governor: Mechanical
Lubrication: Forced Feed
Air Cleaner: Filter Element
Oil Reservoir: 11.6 U.S. Quarts (10.9 L.) Dry 10.0 U.S. Quarts (9.4 L.) Refill
Fuel Tank: 85 U.S. Gallons (321.7 L.)
Operating Time: Full Load: 30 Hours
Starter: 12 Volt Electric
Standard Features:

Safety shut down switches for low oil pressure, high temperature & v-belt failure. Instrument panel with temperature & oil pressure gauge, ampmeter, hourmeter & tachometer. Muffler with rain cap & Battery.

Engine/Pump Coupling:

S.A.E. # 3 Housing w/ 8 Inch Rubber Disc Drive (Stub Shaft w/Flexible Coupling also available)

Standard Skid:

Heavy duty fabricated steel frame sand blasted & primed
Integral Fuel tank with fuel gauge, lifting bail, lockable fuel cap, lockable battery rack & four 2" clean-out/drain plugs.

Standard Trailer:

Heavy duty fabricated steel frame, integral fuel tank with fuel gauge, Suspension-5200# single torsion-flex axle. Lifting bail, adjustable front leveling jack, adjustable towing bar (hatch & safety chains), lockable fuel filler cap, lockable battery rack, 7.00 X 15" LT load range "D" tires & wheels.

Trailer Options:

D.O.T. light package, work lights, adjustable rear jack(s), lifting crane, special tires & wheels, dual axles, diamond plate fenders, surge brakes lockable enclosed battery box, lockable enclosed control panel, lockable enclosed engine housing, storage box & hose rack.

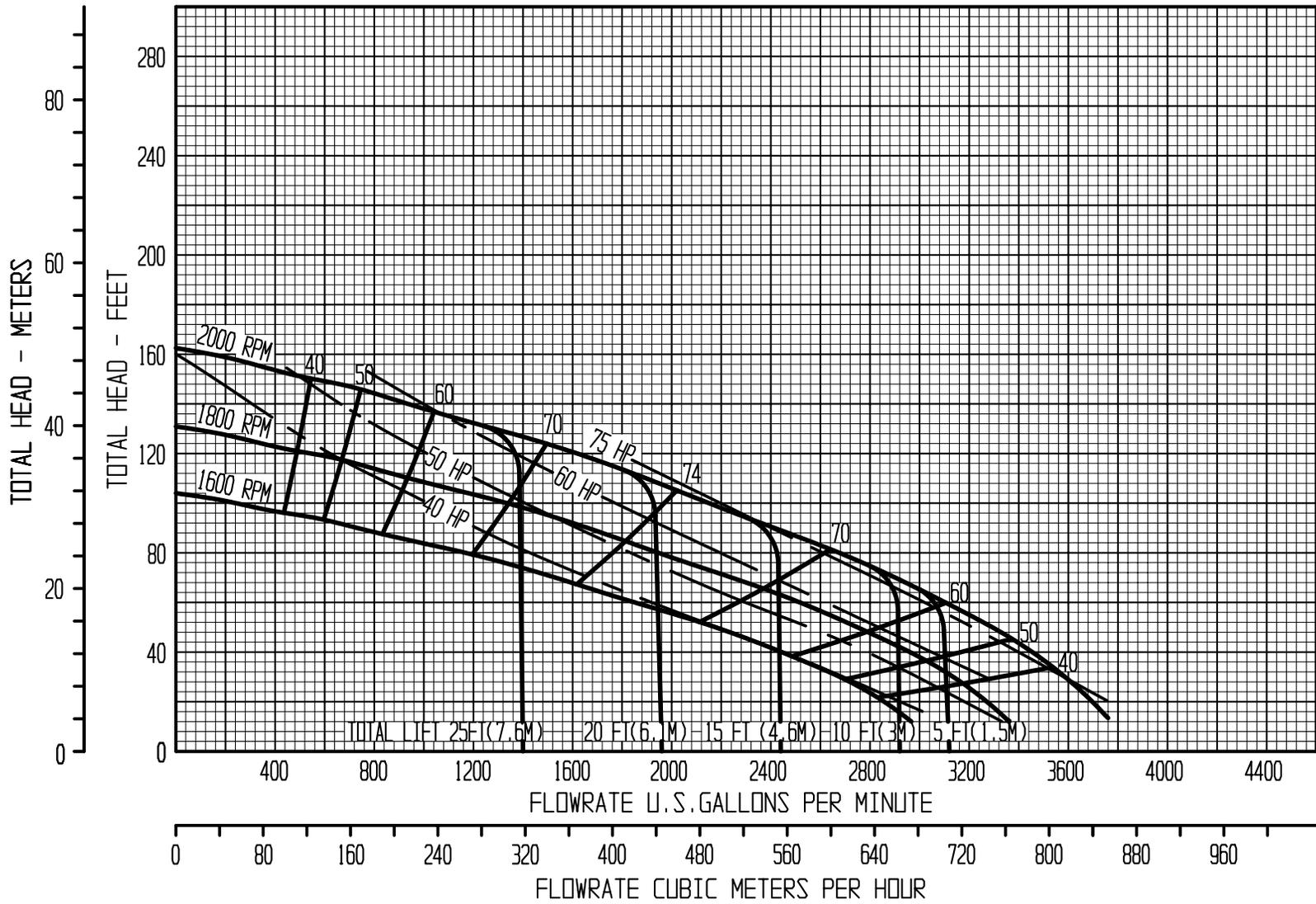
MODEL: PP66S12

SIZE: 6" x 6"

IMPELLER DIA. 11.0"

SOLIDS SIZE: 3.0"

DWG NO. A928HQ



NOTES:

* PIONEER PRIME PERFORMANCE INCLUDES LOSSES FOR PRIMING SYSTEM AND OPEN CLEARANCE WEAR RING.
 * CERTIFIED AS TESTED PERFORMANCE.

MODEL: PP66S12

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PIONEER PRIME SERIES

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