



Pioneer Pump, Inc.

SPECIFICATION SHEET

PIONEER PRIME - ENGINE DRIVEN - END SUCTION CENTRIFUGAL PUMP SIZE 8" X 8"

General Specifications: Model: PP88S12L11-F6L914 Engine Driven, Fully Automatic Dry Priming, Vacuum Assisted, Run Dry, Heavy Duty Solids Handling, Pump Package

Pump Specifications:

Size: 8" X 8" with 3 Inch Spherical Solids Handling Capability

Suction Cover: ASTM A48 Class 30 Gray Iron

Wear Ring: ASTM A48 Class 30 Gray Iron

Volute Casing: ASTM A536 Grade 80-55-06 Ductile Iron

Volute Cleanout: Handhole Type, ASTM A48 Class 30 Gray Iron

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 and 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 and Ductile 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: ANSI 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: 316 Stainless Steel, CD4-Mcu Stainless Steel and Ductile Iron

Engine Specifications:

Model: F6L914 (Deutz)

Type: Six Cylinder, Four Cycle, Air Cooled Diesel Engine
Displacement: 373.9 Cu. In. (6.128 L.)

Governor: Mechanical

Lubrication: Forced Feed

Air Cleaner: Filter Element

Fuel Tank: 135 U.S. Gallons (510.94 L.)

Operating Time: Full Load: 27 Hours

Starter: 12 Volt Electric

Standard Features:

Safety Shut Down Switches for Low Oil Pressure, High Temperature and V-belt Failure. Instrument Panel with Temperature and Oil Pressure Gauge, Ampmeter, Hourmeter & Tachometer. Muffler with Rain Cap and Battery.

Engine/Pump Coupling:

S.A.E. # 3 Housing with 10 Inch Rubber Disc Drive

Standard Off Road Trailer:

Heavy Duty Fabricated Steel Frame, Integral Fuel Tank with Fuel Gauge, Lifting Bail, Lockable Fuel Cap, Lockable Battery Rack and Four 2" Clean-Out/Drain Plugs, Suspension-7000# Single Torsion-Flex Axle, Adjustable Front Leveling Jack, Adjustable Towing Bar with Safety Chains, Heavy Duty Tires and Wheels.

Trailer Options:

D.O.T. Light Package, Work Lights, Adjustable Rear Jack(s), Lifting Crane, Special Tires and Wheels, Dual Axles, Diamond Plate Fenders, Electric Brakes Lockable Enclosed Battery Box, Lockable Enclosed Control Panel, Lockable Enclosed Engine Housing, Storage Box and Hose Rack.

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 with Steel Shaft and

Connecting Rod-Oil Lubricated

Separator Specifications:

Separator Spool: Double Chamber, Standard Steel

Air/Water Chamber: Bolted to Suction Spool/Volute of Centrifugal Pump-Chamber Designed to Separate Air and Water Before Entering the pump Case. O-Ring Sealed with Vacuum Pump Isolation Valve.

Air/Separation Valve: Constructed of Non-Corrosive Manganese Bronze with 316 Stainless Steel Valve Stem & Seat. Actuator Assembly with Float Ball and Hardware 316 Stainless Steel.

Discharge Check Valve: Swing Style - Cast Iron w/Buna-n Disc (Viton Optional)

MODEL: PP88S12

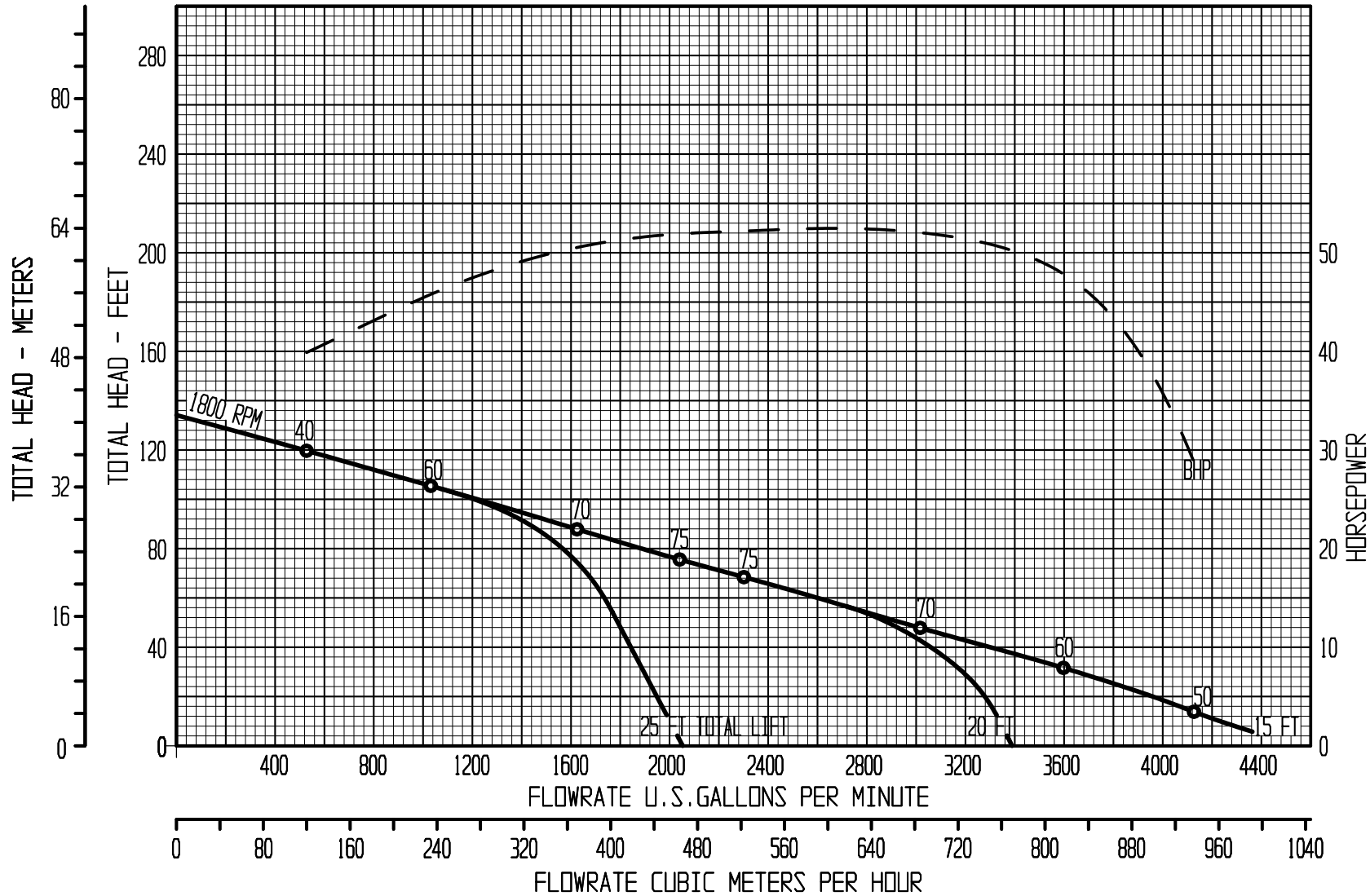
SIZE: 8" x 8"

SPEED: VARIOUS

IMPELLER DIA.: 11.0"

SOLIDS SIZE: 3.0"

DWG. NO. A2554HQ



* PIONEER PRIME PERFORMANCE INCLUDES LOSSES FOR PRIMING SYSTEM AND OPEN CLEARANCE WEAR RING.
 * CERTIFIED AS TESTED H-Q, HORSEPOWER AND EFFICIENCY. LIFT CURVES ARE CALCULATED.

MODEL: PP88S12

PIONEER PUMP, INC.

PIONEER PRIME SERIES

DWG. NO. A2554HQ