



Pioneer Pump, Inc.

SPECIFICATION SHEET

PIONEER PRIME - ENGINE DRIVEN - END SUCTION CENTRIFUGAL PUMP SIZE 4" X 4"

General Specifications: Model: PP44S10L1-F3L913

Engine Driven, Fully Automatic Dry Priming, Vacuum Assisted,
Run Dry, Heavy Duty Solids Handling Pump

Pump Specifications:

Size: 4" X 4" w/3 inch Spherical
Solids Handling Capability

Volute Casing: ASTM A48 Class 30 Gray Iron

Wear Ring: ASTM A48 Class 30 Gray 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 Steel
(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: 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, Standard Steel

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: Deutz F3L913 (Deutz)

Type: Three Cylinder, Four Cycle, Air Cooled
Diesel Engine

Displacement: 188 Cu. In. (3.1 L.)

Governor: Mechanical

Lubrication: Forced Feed

Air Cleaner: Filter Element

Oil Reservoir: 9.54 U.S. Quarts (9.0 L.) Dry

7.94 U.S. Quarts (7.49 L.) Refill

Fuel Tank: 85 U.S. Gallons (321.73 L.)

Operating Time: Full Load: 36 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, integral fuel
tank with fuel gauge, lifting bail, lockable fuel
cap, lockable batter rack & four 2" clean-out/
drain plugs.

Standard Trailer:

Heavy duty fabricated steel frame, integral fuel
tank with fuel gauge, Suspension-6000# 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 "C" 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.

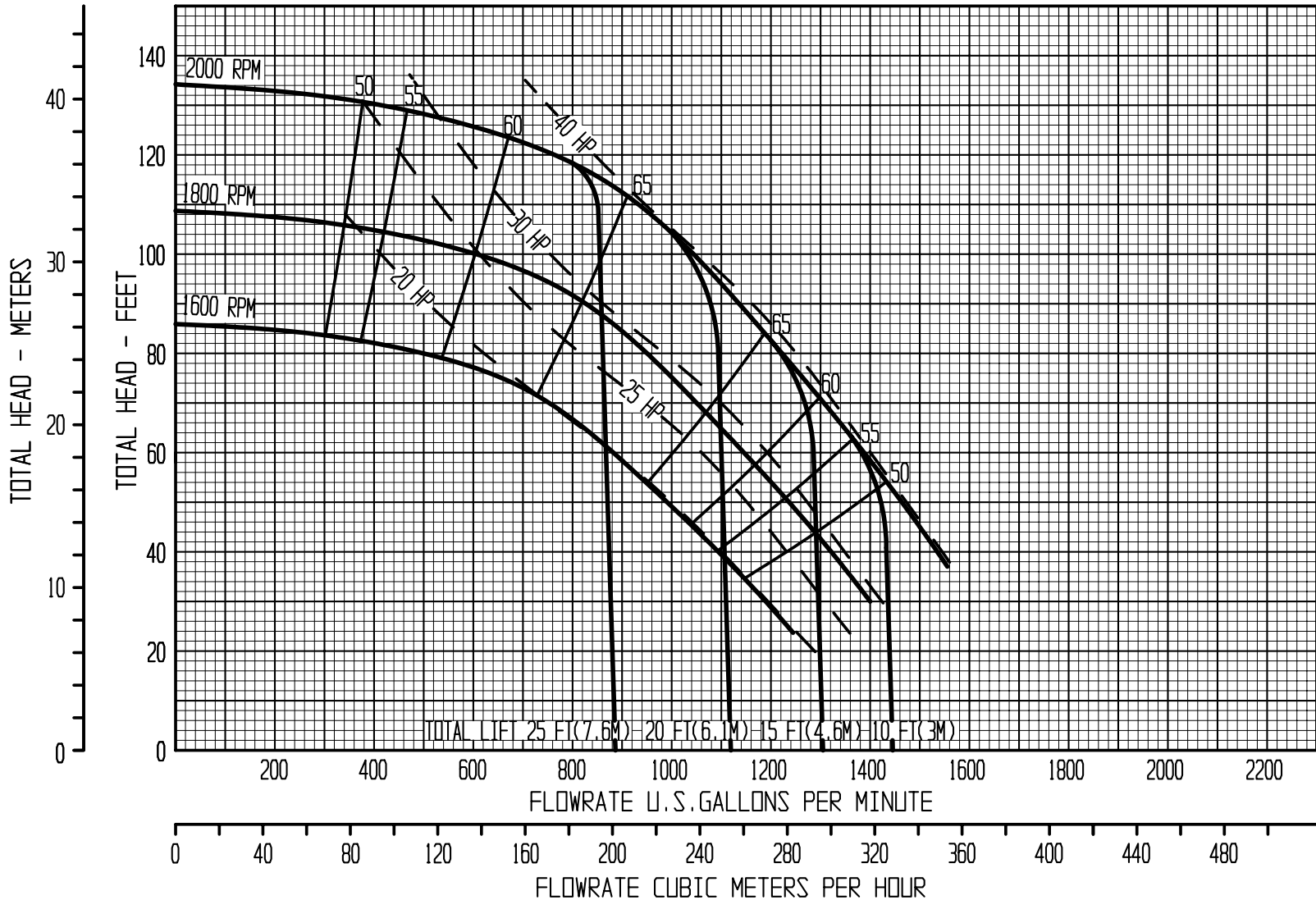
MODEL: PP44S2

SIZE: 4" x 4"

IMPELLER DIA. 10.0"

SOLIDS SIZE: 3.0"

DWG NO. A925HQ



NOTES:

* PIONEER PRIME PERFORMANCE INCLUDES LOSSES FOR PRIMING SYSTEM AND OPEN CLEARANCE WEAR RING.
 * PRELIMINARY PERFORMANCE

MODEL: PP44S2

PIONEER PUMP, INC.

PIONEER PRIME SERIES

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