



Pioneer Pump, Inc.

SPECIFICATION SHEET

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

General Specifications: Model: SAPP66S12-4045D Silent Pack
Engine Driven, Fully Automatic Dry Priming, Vacuum Assisted,
Run Dry, Heavy Duty Solids Handling, Silent Pack Pump

Pump Specifications:

Size: 6" X 6" w/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 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: 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: (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: 4045D-150-80 (John Deere)
Type: Four Cylinder, Four Cycle, Water Cooled Diesel Engine
Displacement: 277 Cu. In. (4.5 L.)
80 H.P. (47.72 KW) Continuous Rated @ 1800 RPM

Governor: Mechanical
Lubrication: Forced Feed
Air Cleaner: Filter Element
Oil Reservoir: 9.01 U.S. Quarts (8.5 L.) Dry
7.41 U.S. Quarts (6.99 L.) Refill
Fuel Tank: 85 U.S. Gallons (321.7 L.)
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. # 4 Housing w/ 10 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 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 towing bar, safety chains, lights, fenders, "D" Rings for Tie Down and Heavy Duty Tires and Wheels.

Standard Silent Pack Trailer:

12 Gauge Stainless Steel Canopy with Door, Center Lifting Point, Insulation, Inlet and Outlet Connection for Water, Inlet and Outlet Air, Internal Spill Basin, with Fenders, Lights & Removeable Canopy. 63 - 66 DBA Rating @ 7 Meters
With Automatic Programmable Panel. By Adding Low/High Level Floats Unit Can Turn On and Shut Off Automatically.

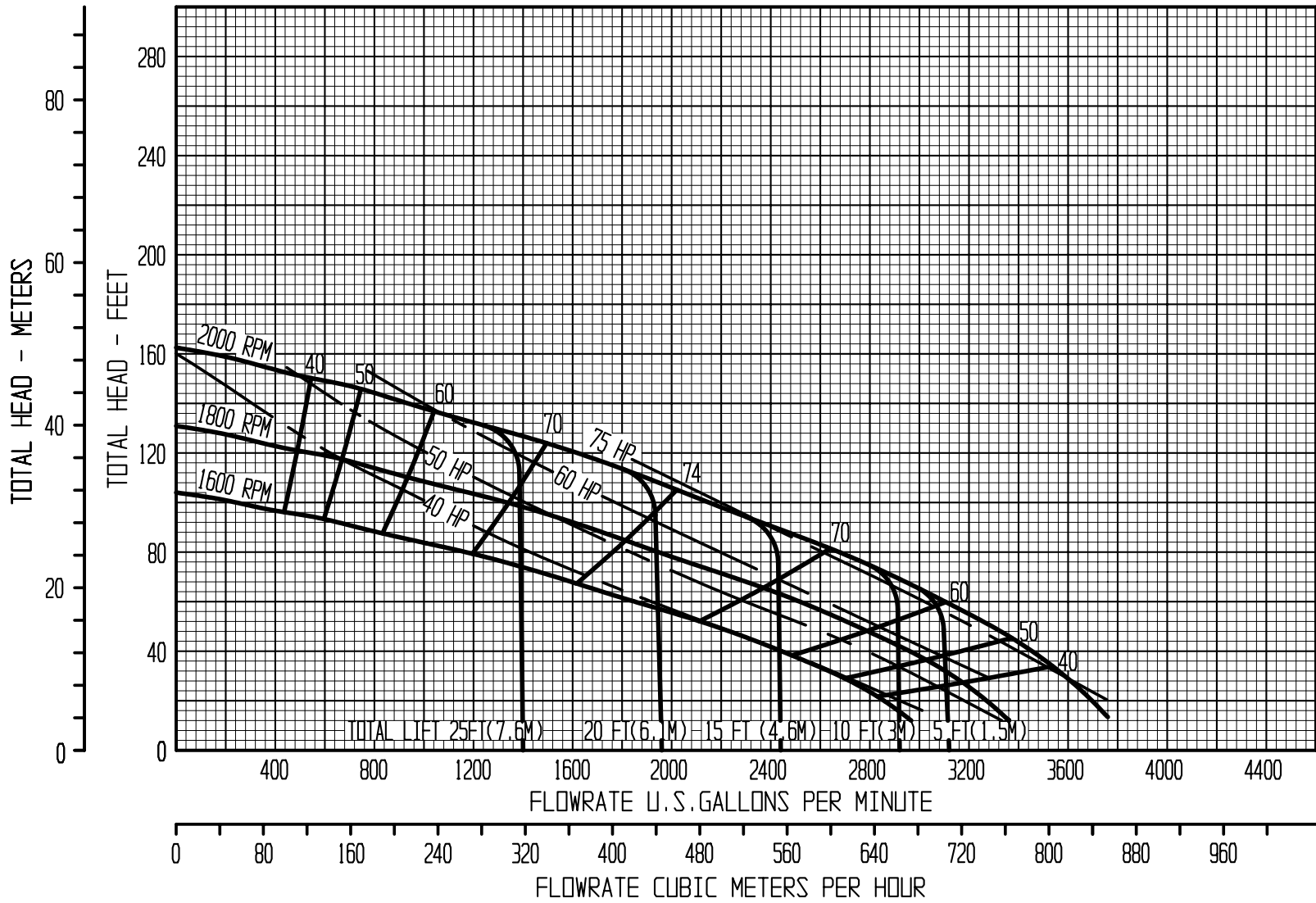
MODEL: PP66S12

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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