



## Specification Sheet for Model PP44S10L71-404D-22T

Pioneer Prime - Vacuum Assisted  
Centrifugal Pump, Diesel-Driven Package

**Optional Sound Attenuated Enclosure**



### Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

### Pump Specifications

Pump Size	4 x 4 inches	100 x 100
Max Flow	1,600 USgpm	370 m³/h
Max Head	150 feet	50 metres
Solids Size	3 inches	76 mm

### Options & Accessories

#### Trailers

- Off-Road Trailer  
(No fenders or lights, No VIN)
- On-Road Trailer – Surge Brakes  
(DOT ready, VIN)
- On-Road Trailer – Electric Brakes  
(DOT ready, VIN)

#### Control Panel

Lofa 750

#### Accessories

- Interior Lights
- Skid Tubes
- Solar Charger
- Spare Tire Carrier
- Toolbox

#### Enclosures

- Environmental canopy Kit
- Sound attenuated canopy Kit
- Premium sound attenuated canopy Kit

### Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu

### Engine Specifications

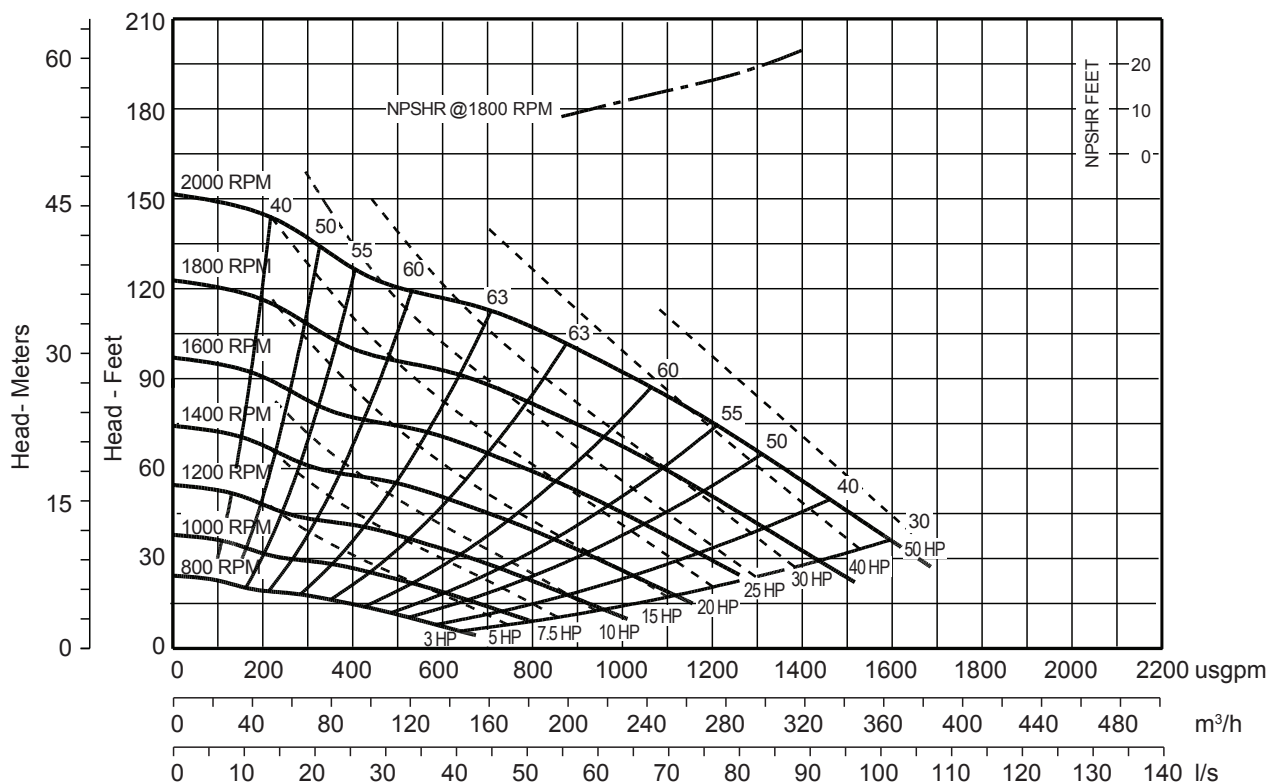
Engine Type	Perkins 404D-22T, 4-Cylinder Diesel, Interim Tier 4
Displacement	135 Cu. In. (2.2 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	2.6 GPH (9.8 L/H) (Full Load)
Continuous Horsepower	41 HP @ 1800 RPM
Operating Time	41 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

### UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

# Performance Curve

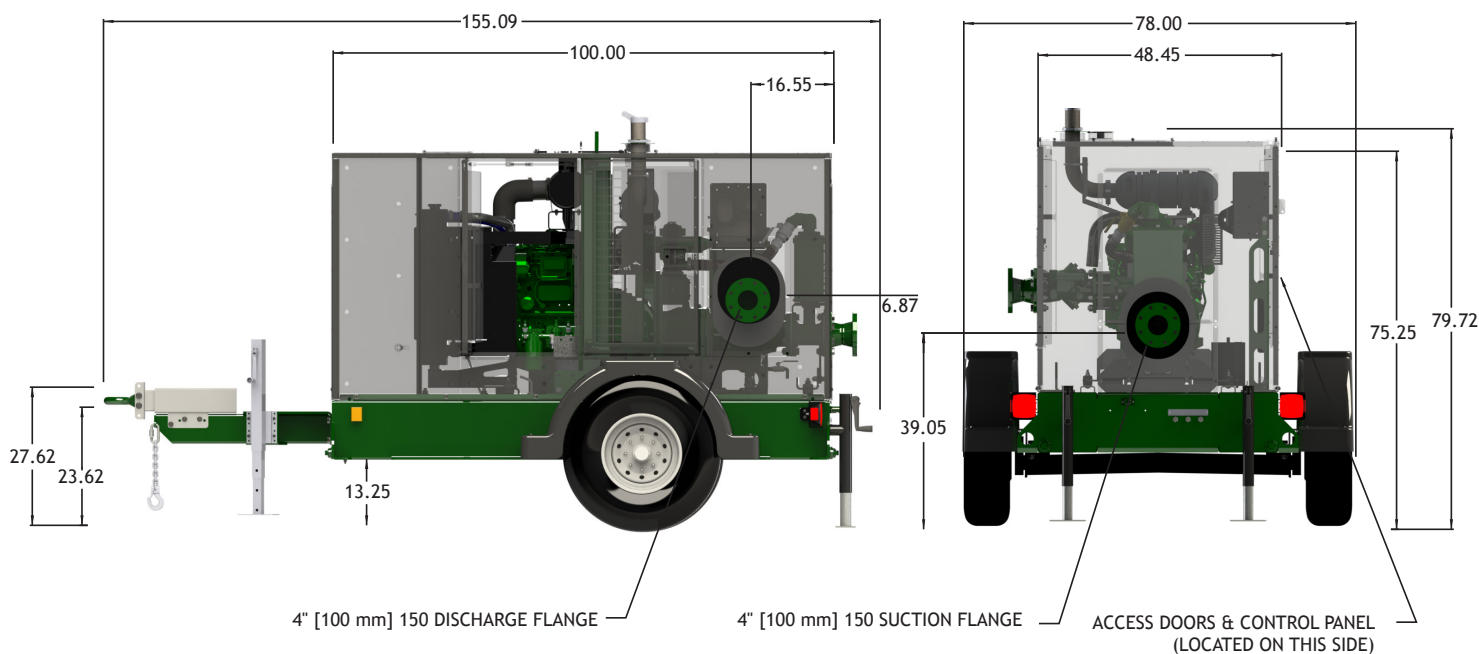
Model: PP44S10	Impeller Dia. 10.0"	Solids Size: 3.0"	Curve # 07903HQ
----------------	---------------------	-------------------	-----------------



# Mechanical Drawing

## PP44S10L71-404D-22T

Skid, Dry	2910 lbs
Skid, Wet	3603 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.