



Zone II HD500 Pump Unit

Operation/Service

Offshore specification triplex pump, intended for pressure testing and general pumping applications. Certified for use in Zone II hazardous areas under ATEX.

Components

Power Train

Detroit Series 60 engine rated at 600BHP @ 2100 RPM fitted with Allison OFS4750 – series transmission and a Pyroban 3GP electronic safety shutdown and gas detection system consisting of:

- Engine over-speed
- High exhaust gas temperature (200 °C)
- High coolant temperature (100 °C)
- Low oil pressure
- Detection of hydrocarbon gas in inlet tract
- Detection of hydrocarbon gas in the cooling air flow
- Activation of the manual emergency stop button

Fuel Tank

Stainless Steel fuel tank with the capacity

to last up to 8 hours, and remote fuelling capability.

Triplex Pump

An Axon HD 500 triplex high performance pump with 4" plungers and a maximum flow rate of 7.5bbls/min.

Control Panel

The control panel accommodates all engine controls and indicators. This includes:

- Start, stop switch
- Emergency stop
- Engine throttle control
- Engine oil pressure indication
- Engine coolant temperature indication
- Exhaust temperature indication
- Transmission gear selection
- Transmission oil pressure
- Pump discharge pressure indicator
- Pump flow indicator

Safety/Environmental

- Pressure Relief valve set at 12,000psi
- Overpressure kick-out switch

- Bunding in case of any leaks or spills
- Drain Points

Standards/Certification

- CE Marked
- ATEX Zone II Hazardous Area
- DNV 2.7-1 & BS 12079
- CSC Certified Frame
- Machinery directive 98/37/EC

Mass

Actual unit weight: 13,900kg (fully fuelled)

Dimensions (lwxh)

Length: 6,058mm

Width: 2,438mm

Height: 2,591mm

Design Temperature

Min: -10 °C

Max: +50 °C

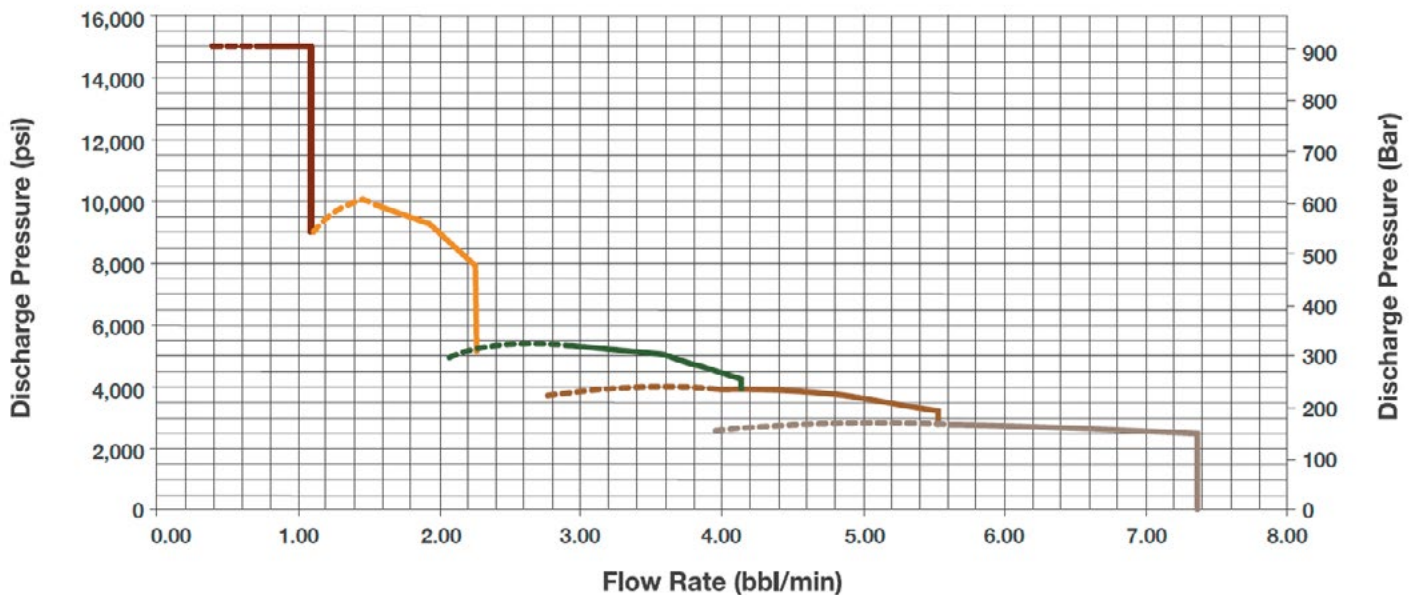
Connections

Suction: 4" Fig 206

Discharge: 3" Fig 1502



**Zone II Triplex Performance Chart
HD500 - 4 in. Plungers**



First Gear
 Second Gear
 Third Gear
 Fourth Gear
 Fifth Gear

NOTE: The above graph shows the maximum pressure achievable at maximum Hydraulic Horsepower for the full range of engine rpm in each gear. Dotted lines denote transmission converter operation and solid lines denote transmission lock-up. Curves are based on calculated HHP available and a volumetric efficiency of 97%

HEAD OFFICE 3A/6 Innovation Parkway, Birtinya QLD 4575
P: 07 5438 4300 E: admin@nationalpump.com.au

EC 09484

