OFFSHORE CONSTRUCTION SPECIALISTS

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UNION & 4 STAGE / SLOW PUMP SKID DESIGN/OPERATIONAL BRIEF

Union Pump Specifications

Make - Union Pump Company

Model - MFQ

Size & Type - 6x 10 MQF 5 stages

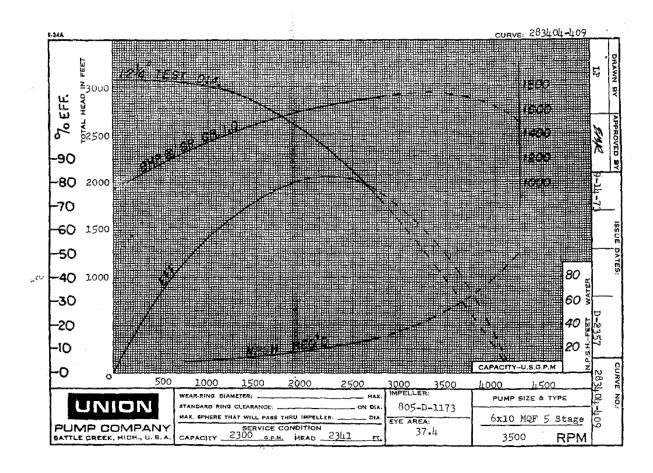
Suction Flange - 10" x 900#

Discharge Flange - 6" x 900#

Nominal speed - 3500 rpm

Lubrication - Forced or Oil ring splash

Best Efficiency Point (BEP) - 2300 gpm @ 2342 Ft @ 3500 rpm with 5 stages.



Pump Curve @ BEP - 3500 RPM



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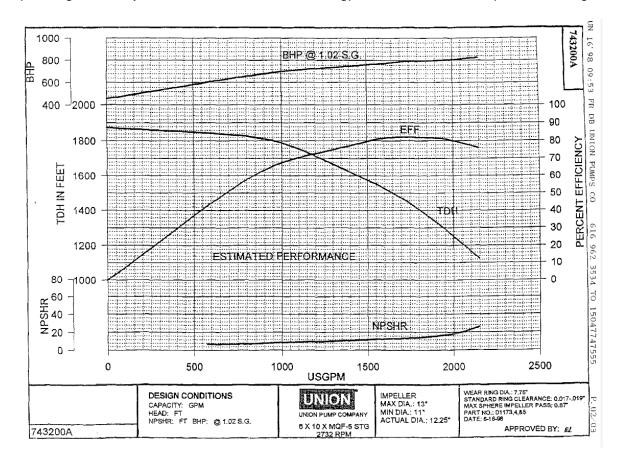


Pump Operating speed

2732 rpm

Operating Efficiency

1950gpm @1350Ft @2732 rpm with 5 stages



Pump Operating Curve @ 2732 RPM

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High Pressure 4 Stage / High flow Slow Pump Skids with V12/V16 Engine Power Train

High Pressure 4 stage (250SLD450-60x4) centrifugal pumps are used for providing high pressure water required for jetting and pre-commissioning activities. / High Flow – single stage (Slow 250-550) are used as Feed pumps to supply water to high pressure pumps. Pumps are driven by General Motors 12V149 diesel Engine. V16 Diesel Engine can be used to power the pumps based on future project requirements.

Skid design will be carried out considering bigger size V16 engine compatibility for future use, so effectively any combination of V12/V16 drive train & 4 Stage/Slow pump can be accommodated in skid frame structure.

4 stage Pump Curve & 12V149 Engine performance curve are as below:



