Customer : KRAKATAU STEEL

Item number : 324-J12,J22

Service : lean solution circulating pump

Vendor reference : 5237-00051 Date : March 8, 2011 FLOWSERVE Pump Division

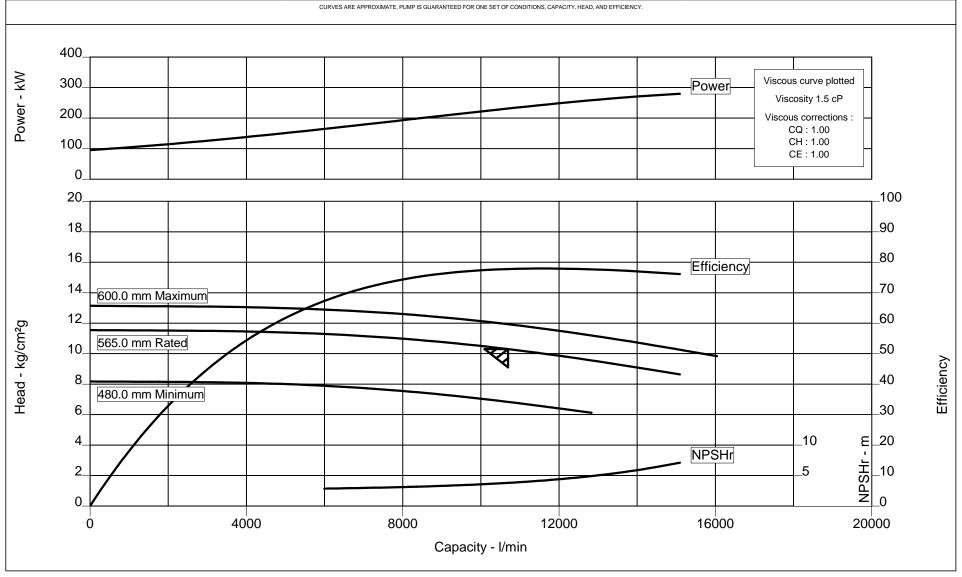
Capacity

Head

Pump size & type : 200-LNN-600 Based on curve no. : 921R1/1-AA

Number of stages : 1

: 10696.0 I/min Specific gravity : 1.000 : 10.30 kg/cm²g Pump speed : 1480 rpm





Other Requirements



Customer : KRAKATAU STEEL Pump / Stages : 200-LNN-600 / 1
Customer reference : KRAKATAU STEEL PRO Based on curve no. : 921R1/1-AA

Item number : 324-J12,J22 Vendor reference : 5237-00051
Service : lean solution circulating pump Date : March 8, 2011

Operating Conditions Materials / Specification

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Capacity : 10696.0 l/min Material column code : G1
Water Capacity (CQ=1.00) : 10696.0 l/min Pump specification :

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Normal capacity :-

Total Developed Head : 10.30 kg/cm²g

Water head (CH=1.00) : 10.30 kg/cm²g

Hydraulic selection : No specification

Construction : No specification

NPSH available (NPSHa) : 8.0 m

NPSHa less NPSH margin : - Test tolerance : Hydraulic Institute Level A

Maximum suction pressure : 0.2 kg/cm²g Driver Sizing : Max Power(MCSF to EOC)with SF

Liquid

Liquid type : Other

Temperature / SG : 71 $^{\circ}$ C / 1.000 Solid Size - Actual / Limit : - / 0.00 mm Viscosity / Vapor pressure : 1.5 cP / 0.40 kg/cm²a

Performance

Hydraulic power : 180 kW Impeller diameter

 Pump speed
 : 1480 rpm
 Rated
 : 565.0 mm

 Efficiency (CE=1.00)
 : 77.8 %
 Maximum
 : 600.0 mm

Minimum : 480.0 mm

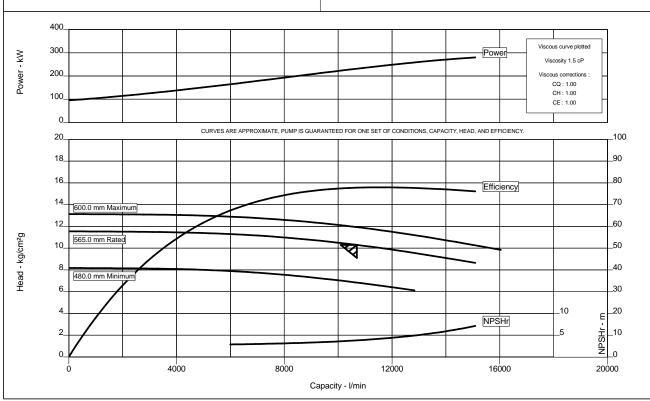
NPSH required (NPSHr): 3.8 mSuction specific speed: 8000 US unitsRated power: 231 kWMinimum continuous flow: 2820.9 l/minMaximum power: 280 kWMaximum head @ rated dia: 11.5 kg/cm²g

 Driver power
 : 280 kW / 375 hp
 Flow at BEP
 : 11609.0 l/min

 Casing working pressure
 : 11.7 kg/cm²g
 Flow as % of BEP
 : 92.1 %

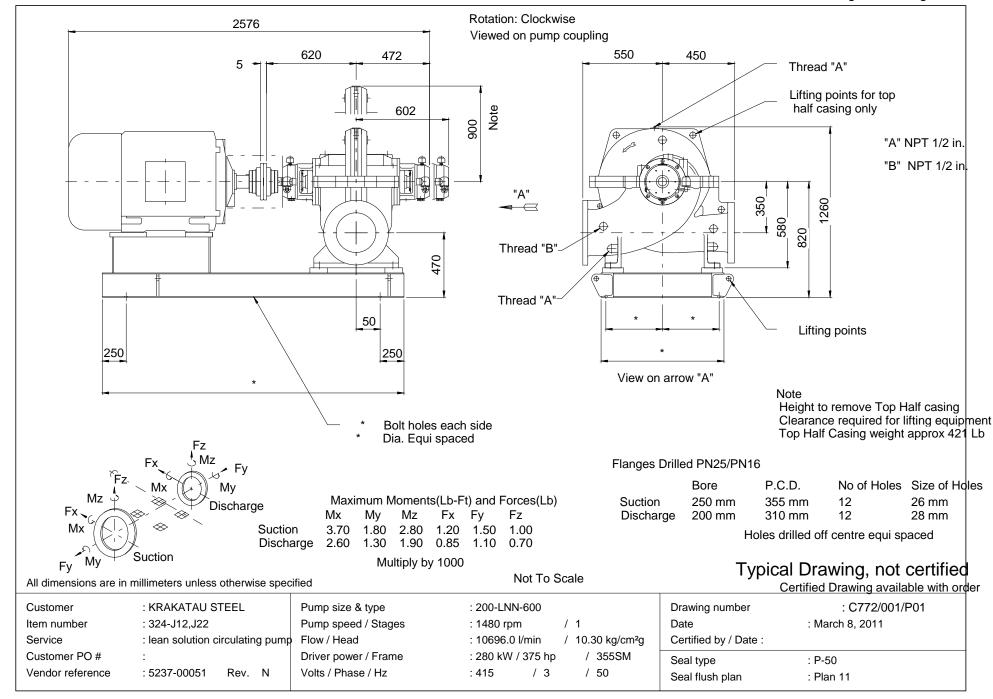
(based on shut off @ cut dia) Efficiency at normal flow :-

Est. rated seal chamb. press. :- Total head ratio (rated/max) : 86.3 %



Efficiency





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