

Hydraulic Datasheet

Pump / Stages : 2 HED 16 Customer : GS EC Based on curve no. : 2 HED 16-LL-P001 Customer reference Flowserve reference Item number 53P-138A/B : 136433 Version 1 Service Slurry Boosting Pump Date June 12, 2013 **Operating Conditions** Materials / Specification : 8.1 m3/h Capacity Material column code : C6 Pump specification : 8.1 m3/h Water capacity (CQ=1.00) Normal capacity : -Other Requirements Total Developed Head : 336.50 m Hydraulic selection : API-610 11th Edition (CH=1.00) : 336.50 m Water head Construction: API-610 11th Edition NPSH available (NPSHa) : 119.5 m Test tolerance: API-610 11th Edition NPSHa less NPSH margin Driver Sizing: API 610 Maximum suction pressure : 17.0 barg Seal configuration : Double Seal Liquid Liquid type : Hydrocarbon Temperature / Spec. Gravity : 331 C / 0.900 Solid Size - Actual / Limit Viscosity / Vapor pressure : 1.3 cP 1.65 bara Performance

Hydraulic power : 6.71 kW

Pump speed : 2950 rpm

Efficiency (CE=0.99) : 11.0 %

NPSH required (NPSHr) : 3.5 m
Rated power : 61.2 kW
Maximum power : 63.5 kW
Driver power : 75.0 kW / 101 hp

Casing working pressure : 49.2 barg (based on shut off and Rated specific gravity @ Cut dia)

Maximum allowable : 100.0 barg
Hydrostatic test pressure : 150.0 barg
Est. rated seal chamb. press. : -

Impeller diameter

Rated : 358.0 mm Maximum : 400.0 mm Minimum : 300.0 mm Suction specific speed : 5110 US units Minimum continuous flow : 6.7 m3/h Maximum head @ rated dia : 365.24 m Flow at BEP : 17.7 m3/h Flow as % of BEP 459% Efficiency at normal flow Impeller dia ratio (rated/max) : 89.5 % Head rise to shut off : 8.5 % Total head ratio (rated/max) : 80.5 %

CURVES ARE APPROXIMATE, PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS; CAPACITY, HEAD, AND POWER.

