



HASKEL PUMP

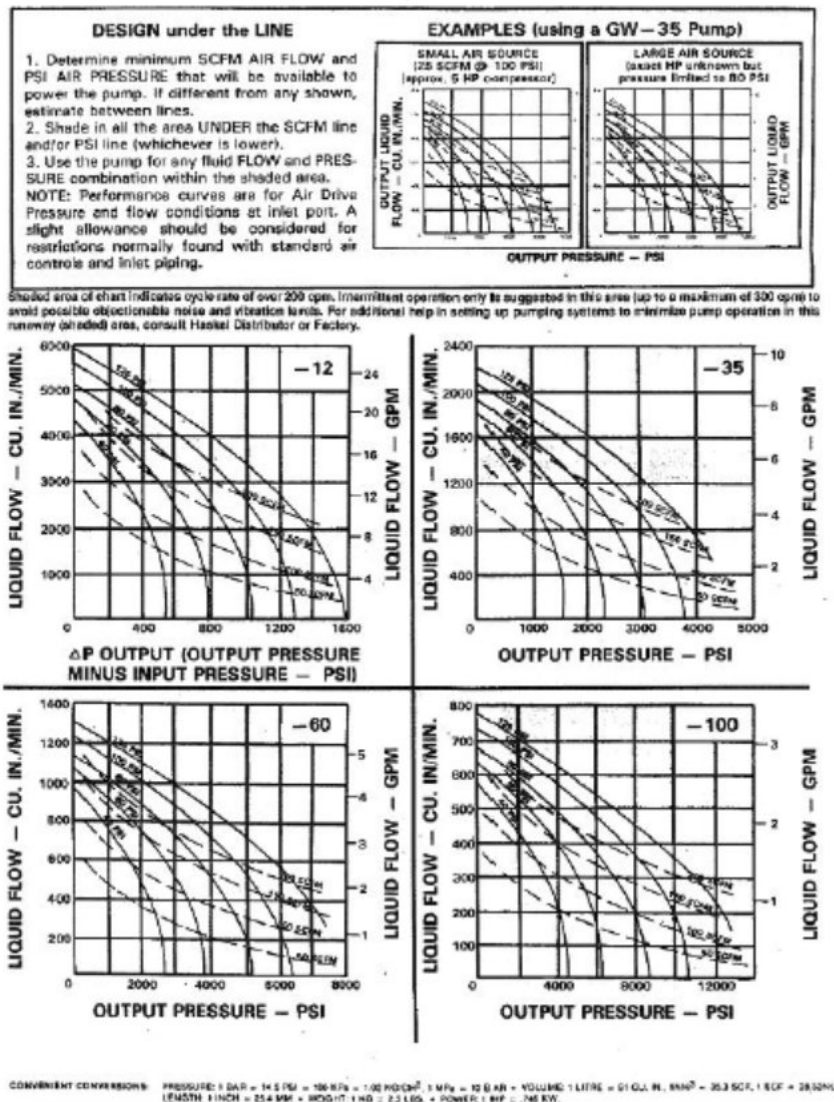
OCS owns Haskel pumps are, air driven high pressure pumping unit, which is used for hydro static testing of pipelines. This pump is a normally used for hydrostatic testing of pipelines with high pressure requirements. OCS's owns 2 units of Haskel pumps. The Haskel Pump model is TP600-GSF-60.

An incoming shop air supply of 125psi will be regulated through a pressure regulator to obtain the desired output pressure on the Haskel GSF-60 pump. The regulated air supply can be read from a 2.5" dial gauge from the front panel. GSF-60 is designed to produce a maximum rated output pressure of 7500psi @ 125 psi regulated air supply. The discharge pressure can be read from a 4" dial gauge range from 0-10,000psi. A pressure release valve (Butech needle valve) is incorporated in the discharge line to release pressure to the tank, allowing the test sample to be removed safely without any pressure in it. The hydraulic system of this Haskel pump is double acting output, single acting suction units.

The specifications of the Haskel high pressure air driven liquid pumps are as below:

Haskel Pump Specifications	
Model :	TP600 GSF-60
Serial No.:	1107-195-197
Maximum operating pressure :	7500 psi (517bar)
Maximum air supply pressure :	125 psi (8.6)
Capacity :	9 to 10 ltr/min (2.6 USgpm)
Horse Power :	6HP (4.5kW)
Tank size :	30 liter (7.9 gallon)
Skid framing :	850 x 410 x 550mm x 80kg
Number of units :	2

PERFORMANCE DATA — G SERIES — 6 H.P.



OCS has Equipment passports for individual Engines, Skids and Fluid Ends which must be reviewed before each project to assess the status. The equipment passport gives the working history, maintenance and certification history for Engines, Fluid Ends and Pump skids.

It is important to regularly review the list of critical spare parts of the equipment before each project. Common problems occur in these units during the operation include the leakage through seals. This pumps has Air drive section and hydraulic section. The seals and O-rings on this section have to be carefully inspected for any wear or scratches. All parts removed for inspection should be washed in suitable greasing agent such as blue gold or equivalent.

Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

This equipment file remains a live document and will be constantly updated by the equipment department.