Performance Curves 1/3 hp (.25 kW) Pumps

AIR DRIVE PRESSURE (Solid curved lines) AIR DRIVE FLOW (Dotted curve lines)

Shaded areas indicate excessive cycle rates and should be avoided except for intermittent duty.
Performance Curves 3/4 hp (.56 kW) Pumps

LIQUID FLOW - CU. IN. / MIN

OUTLET PRESSURE PSI (BAR)
Light horizontal shaded area indicates an excessively high cycle rate. This should be allowed only for intermittent duty to prevent possible excessive noise and maintenance.

Performance Curves 1.5 hp (1.12 kW) Pumps

Lift pump (Inlet pressure is added to Outlet pressure -1.5 and -4 models only)
Performance Curves 1.5 hp (1.12 kW) Pumps

Intermittent duty dark shaded area is because of fatigue life limitation of materials. (Please consult factory for further advise.)
Light horizontal shaded area indicates an excessively high cycle rate. This should be allowed only for intermittent duty to prevent possibly excessive noise and maintenance (Circuit assistance is available from authorized distributor or factory).

Intermittent duty dark shaded area is because of fatigue life limitation of materials.

Reliability of the XH models -452 thru -1373 will be improved with an air driven supercharge pump, not only to simplify priming but to reduce fatigue stresses. The higher the supercharge, the better the results. Also install a relief valve to protect the lower pressure pump from potential back pressure. Supercharging of the -1373 model is recommended for all applications.
Performance Curves 2 (1.5 kW) & 2.2 hp (1.6 kW) Pumps
Performance Curves 2 (1.5 kW) & 2.2 hp (1.6 kW) Pumps

Liquid Flow – Cu. In./Min. (Litres / Min.)

Outlet Pressure PSI (Bar)

This model has a flow limiting valve. Air flow is proportional to air pressure and is constant for hydraulic pressures from zero to 75% of stall.
Shaded area of chart indicates cycle rate of over 200 rpm. Intermittent operation only is suggested in this area (up to maximum of 300 rpm) to avoid possible objectionable noise and vibration levels. For additional help in setting up pumping system to minimize pump operation in this runaway (shaded) area consult Haskel distributor or factory.

Performance Curves 6 hp (4.5 kW) Pumps
Performance Curves 10 hp (7.5 kW)
CELEBRATING OVER 60 YEARS OF HYDRAULIC AND PNEUMATIC ENGINEERING EXPERIENCE IN THE DESIGN AND MANUFACTURING OF HIGH PRESSURE GENERATING EQUIPMENT AND CONTROLS

For further information on Haskel products, please visit us online at www.haskel.com