Series A-C 1500 60 Hz
IN-LINE MOUNTED CENTRIFUGAL PUMP PERFORMANCE CURVES
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7” Maximum Impeller Diameter .................................................. 20
9½” Maximum Impeller Diameter ............................................... 23
11” Maximum Impeller Diameter ................................................ 27

USEFUL PUMP FORMULAS

Pressure (PSI) = \[
\text{Head (feet)} \times \text{Specific Gravity}
\]

\[
\frac{2.31}{2.31}
\]

Head (feet) = \[
\text{Pressure (PSI)} \times 2.31
\]

\[
\frac{\text{Specific Gravity}}{\text{Specific Gravity}}
\]

Vacuum (in. of mercury) = \[
\text{Dynamic Suction Lift (feet)} \times 0.883
\]

\[
\text{x Specific Gravity}
\]

Horsepower (brake) = \[
\frac{\text{GPM} \times \text{Head (feet)} \times \text{Specific Gravity}}{3960 \times \text{Pump Efficiency}}
\]

Efficiency (pump) = \[
\frac{\text{Horsepower (water)}}{\text{Horsepower (brake)}}
\]

\times 100 \% \text{ per cent}

NPSH (available) = \[
\text{Positive Factors - Negative Factors}
\]

AFFINITY LAWS: Effect of change of speed or impeller diameter on centrifugal pumps

<table>
<thead>
<tr>
<th>GPM Capacity</th>
<th>Feet Head</th>
<th>BHP</th>
</tr>
</thead>
<tbody>
<tr>
<td>( Q_2 = \frac{D_2}{D_1} \times Q_1 )</td>
<td>( H_2 = \left( \frac{D_2}{D_1} \right)^2 \times H_1 )</td>
<td>( P_2 = \left( \frac{D_2}{D_1} \right)^3 \times P_1 )</td>
</tr>
<tr>
<td>( Q_2 = \frac{\text{RPM}_2}{\text{RPM}_1} \times Q_1 )</td>
<td>( H_2 = \left( \frac{\text{RPM}_2}{\text{RPM}_1} \right)^2 \times H_1 )</td>
<td>( P_2 = \left( \frac{\text{RPM}_2}{\text{RPM}_1} \right)^3 \times P_1 )</td>
</tr>
</tbody>
</table>

Where \( Q = \text{GPM}, H = \text{Head}, P = \text{BHP}, D = \text{Impeller Diameter}, \text{RPM} = \text{Pump Speed} \)
60 HZ
FULL HYDRAULIC RANGE CURVES

3500 RPM

1750 RPM

1150 RPM

Goulds Water Technology
Impellers are trimmed in 1/8" increments to supply required capacity. Responsibility for final impeller sizing remains with Xylem.
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8x8x9 1/2
1150 R.P.M.

N.P.S.H. REQUIRED

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Xylem ['zɪləm]

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We’re 12,500 people unified in a common purpose: creating innovative solutions to meet our world’s water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com