Understanding Product Need

- Emergency Response Time
- Patient Care
<table>
<thead>
<tr>
<th>Vehicle Class</th>
<th>Vehicle Weight</th>
<th>Required Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Vehicle</td>
<td>10,000 lbs</td>
<td>21 PSI</td>
</tr>
<tr>
<td>Medium Duty</td>
<td>26,000 lbs</td>
<td>55 PSI</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>33,000 lbs</td>
<td>69 PSI</td>
</tr>
</tbody>
</table>

\[
F_{lift} = P \times A_{pressure}
\]

\[
A_{pressure} = 2 \times (A_{center})
\]

\[
A_{center} = (14 \text{ in}) \times (17 \text{ in}) = 238 \text{ in}^2
\]

where \( P \) = pressure in PSI

\( F_{lift} \) = lifting force in lbs
20,000 — 100,000 units nationwide

$153 Million USD

Emergency Medical Services

Neighborhoods

School Zones