Diesel Engine Driven Pumpsets for Zone 2 Hazardous Areas

Diesel engines operating in Zone 2 hazardous areas present a risk of explosion. The flame protected engines used by Hughes Pumps operate below 200°C. This lower operating temperature, combined with additional shut down features, means the equipment can be used in areas where there is a strong potential explosion hazard.

All Hughes pumps are ATEX compliant so the complete pumpset can be designed to meet European ATEX Directive Zone 2 requirements suitable for use in hazardous areas, typically oil & gas, on & offshore.

Features

- Hughes low speed plunger pump with oil cooling, solid ceramic plungers & stainless steel pumphead
- Top brand diesel engines
- Automatic shutdown on pump fault
- Packaged for use in corrosive environments
- ATEX compliant pumps
- Well proven globally in hazardous areas, on & offshore over tens of years
- CE marked

Build Options

- Partial flameproofing with Chalwyn valve & spark arresting exhaust silencer
- Rigsafe, as partial flameproofing but also with air start & mechanical control panel
- Zone 2 flame protected engines to limit surface temperatures to 200°C
- 316 or Duplex stainless steel pumpheads for seawater
- DNV 2.7-1/EN12079 crashframes or containers
- Sound attenuation
- ATEX compliant pumpsets

Maximum Flowrate

<table>
<thead>
<tr>
<th></th>
<th>HP5000</th>
<th>806 lpm at 250 bar (214gpm at 3,625 psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ultrabar 24</td>
<td>238 pm at 2750 bar (6.1gpm at 40,000psi)</td>
</tr>
</tbody>
</table>

Maximum Pressure

<table>
<thead>
<tr>
<th></th>
<th>HP5000</th>
<th>1400bar at 141pm (20,000psi at 37gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ultrabar 24</td>
<td>2750bar at 231pm (40,000psi at 6.1gpm)</td>
</tr>
</tbody>
</table>

Maximum Power

<table>
<thead>
<tr>
<th></th>
<th>HP5000</th>
<th>375 kW (500hp)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ultrabar 24</td>
<td>120 kW (160hp)</td>
</tr>
</tbody>
</table>

In line with the Company’s policy of research and development, alterations in design, dimensions and appearance are incorporated from time to time in order to ensure that important developments are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.