ALBANY PUMPS

ROTARY LOBE PUMPS

A Positive Solution
Albany Lobe Pumps are manufactured wholly in the United Kingdom. They are supplied world-wide to industries including Oil refining, Sugar, Paint, Soap and Man Made Fibre. Albany Lobe pumps were designed and made by Stothert & Pitt for 100 years. Many difficult applications were successfully solved. These pumps have been developed into robust products with an extremely long life.

CONSTRUCTION

Albany Lobe Pumps consist of a pump casing fitted with a renewable liner, an inner and outer rotor and a rotor shaft supported in bearings. The inner and outer rotors are mounted eccentrically to one another. The pumps can be fitted with an integral, full bore, relief valve. If this is not required the valve facing can be blanked off and a

DESIGN AVAILABILITY

- 3:4 Rotors
- 7:8 Rotors
- Internal bearing
- External bearing
- Steam jacketed body
- Fully steam jacketed
- Vertical
- Horizontal
- Reversing flow
- Bush bearing
- Ball bearing

Handing can be arranged to suit installation requirements.

MATERIALS

The lobe pumps can be manufactured in various combinations of materials including cast iron, cast steel, aluminium bronze, phosphor bronze, stainless steel etc.
**3:4 Lobe pump**

Designed for use on high viscosity liquids these pumps operate at low rotational speeds ensuring that the pockets created during pump rotation are completely filled.

**7:8 Lobe pump**

Designed for use on lower viscosity liquids these pumps operate at synchronous motor speeds which allow the smaller pockets created during pump rotation to completely fill.

**DRIVE ARRANGEMENT**

For normal applications:

7:8 pumps run at synchronous speed, 4 pole speeds are used on smaller pumps while 6, 8 or 10 pole speeds are used on the large pumps.

3:4 pumps normally run at slow speeds with a gearbox or other forms of speed reducer between the prime mover and the pump.

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**PUMPING ACTION**

The inner and outer rotors are mounted eccentrically to one another. The principal of operation is shown in the diagram which shows one full rotation of a 3:4 pump.

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity Range</th>
<th>Pressure</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:4</td>
<td>0.3 - 350 m³/hr</td>
<td>Up to 25 bar</td>
<td>1500c/s - 250,000c/s</td>
</tr>
<tr>
<td>7:8</td>
<td>1 - 100 m³/hr</td>
<td>Up to 20 Bar</td>
<td>10c/s - 2,000 c/s</td>
</tr>
</tbody>
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**7:8 Pump with Relief Valve**
Applications:

Molasses Docks Cargo unloading and loading to 350 m³/hr
Road tankers
Sugar factories

Viscous fuel oils:
Jacketed pumps:
Corrosive duties:

power station duties
high capacity cargo pumps
Resins, glues/adhesives
Albany rotary lobe pumps are produced in gunmetal and stainless steel
Vertical Immersed pumps for bitumen and asphalt

SERVICE AND SPARE PARTS

All Albany Lobe pumps are fully guaranteed.

Maintenance can normally be carried out without disconnecting either the suction or delivery pipework and with the electric motor remaining in situ if required.

Albany have a Spares & Service Department to cover any service work which may be required after expiry of warranty. Service contracts can be arranged which allow periodic pump inspection and reporting

Complementary Products:

For thinner liquids: Albany twin screw pumps to 400 m³/hr
For lower capacities: Albany gear pumps to 1 l/min.
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