The ClydeUnion Pumps Duoglide range consists of both configured and engineered-to-order axially split case, two stage pumps designed for higher head/flow applications. The Duoglide provides higher efficiency and lower maintenance than traditional ring section or high speed single stage pumps:

- Extensive range to cover all duties at optimal efficiency
- Horizontal and vertical configurations available
- Various sealing arrangements available
- Material options available for non-corrosive and corrosive applications including seawater
- Radial and thrust bearings available with either grease or oil lubrication
- WRAS and NSF coatings suitable for potable water available
- Designed for both 50Hz and 60Hz markets
- Clockwise and anti-clockwise rotation available

**TYPICAL APPLICATIONS**

- Desalination
- Water treatment, supply + distribution
- District heating + district cooling
- Power auxiliaries
- Mining
- Metal manufacturing
- Chemical + petrochemical industries
- General industrial applications
- Building services

**TECHNICAL DATA**

- **Capacity:** up to 2,500 m³/hr / 11,000 USgpm
- **Delivery head:** up to 320 m / 1,050 ft
- **Temperature:** up to 80 °C / 180 °F
- **Speeds:** up to 3,600 rpm
- **Flange drilling:** ANSI or BS

<table>
<thead>
<tr>
<th>MATERIAL SPECIFICATION</th>
<th>CASING</th>
<th>IMPELLER</th>
<th>SHAFT</th>
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<tbody>
<tr>
<td>SPEC I2</td>
<td>Cast Iron</td>
<td>Bronze</td>
<td>Stainless Steel</td>
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<td>SPEC J</td>
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<td>SPEC A8</td>
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<td>Super Duplex</td>
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Please Note: A wide range of additional materials are available on request.
FEATURES + BENEFITS

1. Low energy costs
   Hydraulic design provides low NPSH, stable characteristics and high efficiency further enhanced with internal coating on cast iron casings and polished internals for steel alloy applications.

2. Sealing arrangement
   Single, double and cartridge options. Packed gland option available on request.

3. Ease of maintenance
   Split casing design simplifies maintenance by allowing access to pump rotor without disturbing pipework or driver.

4. Extended shaft life
   Shaft designed to minimise dynamic shaft deflection and provide ample safety factor in rotation speed, ensuring an extended shaft life.

5. Shaft sleeves
   Renewable shaft sleeves are available in a variety of materials offering shaft protection against stuffing box wear.

6. Wear options
   For economical renewal of operational clearances, replaceable metallic wear rings are fitted as standard, which reduces pressure leakage and improves the overall efficiency. Impeller and composite wear rings are available as a standard option.

7. Casing design
   Robust casing designed to reduce external forces and vibration incorporating integral bearing support. Double volute design utilised on appropriate frames.

8. Single entry impeller
   Back-to-back single entry hydraulically balanced impellers designed with optimised geometry provides high efficiency and low NPSH whilst minimising axial thrust for extended bearing and seal life.

9. Horizontal / vertical arrangement
   Rigid integrally cast feet allows mounting arrangement to be horizontal or vertical. Vertical pumps are fitted with a product lubricated bottom bearing as standard.

RANGE COVERAGE CHARTS

50HZ RANGE CHART

60HZ RANGE CHART

These charts cover the standard pump range. Other engineering designs exist for extreme applications.