

# Duoglide

## TWO STAGE, AXIALLY SPLIT CASING PUMP

### PUMP OVERVIEW

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

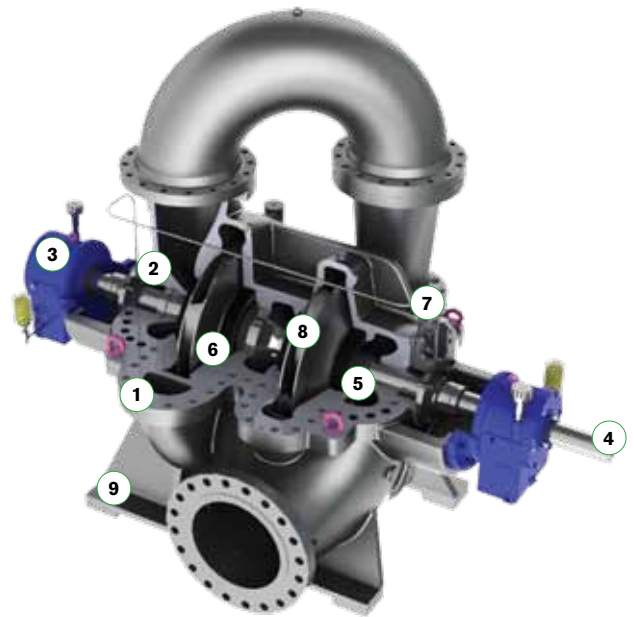
<b>Capacity:</b>	up to 11,000 USgpm / 2,500 m <sup>3</sup> /hr
<b>Delivery head:</b>	up to 1,050 ft / 320 m
<b>Temperature:</b>	up to 180 °F / 80 °C
<b>Speeds:</b>	up to 3,600 rpm
<b>Flange drilling:</b>	ANSI or BS

MATERIAL SPECIFICATION	CASING	IMPELLER	SHAFT
SPEC I2	Cast Iron	Bronze	Stainless Steel
SPEC J	Cast Iron	Stainless Steel	Stainless Steel
SPEC A8	Stainless Steel	Stainless Steel	Super Duplex
SPEC D1	Duplex	Duplex	Super Duplex
SPEC D2	Super Duplex	Super Duplex	Super Duplex

Please Note: A wide range of additional materials are available on request

## FEATURES + BENEFITS

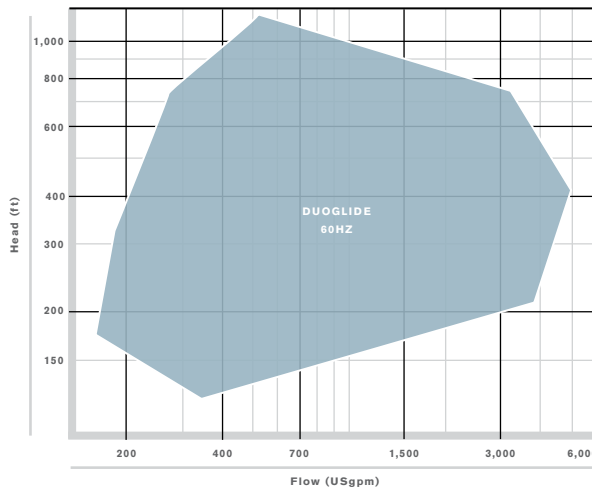
- 1 **Low energy costs**  
Hydraulic design provides low NPSH, stable characteristics and high efficiency further enhanced with internal coating on cast iron casings and polished internals for steel alloy applications
- 2 **Sealing arrangement**  
Single, double and cartridge options. Packed gland option 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 minimize 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 utilized 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 minimizing axial thrust for extended bearing and seal life



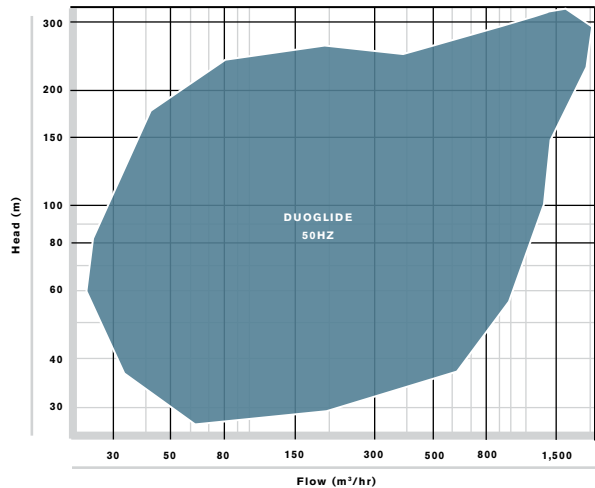
- 9 **Horizontal / vertical arrangement**  
Rigid integrally cast feet allows mounting arrangement to be horizontal or vertical. Vertical pumps are fitted with a product lubricated bottom bearing as standard

## RANGE COVERAGE CHARTS

60HZ RANGE CHART



50HZ RANGE CHART



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