

# Duoglide-e



## Two-Stage Split Casing Pump

### CAST IRON ARRANGEMENT

The CLYDEUNION Pumps Duoglide-e range is the latest generation of axial split two stage pumps. The range has been developed using the latest 3D and FEA analysis software together with extensive consultation of major users. This has produced an advanced pump which will provide total reliability and reduced whole life costs

- 14 individual pump frames sizes divided into 4 modular shaft groupings
- Horizontal and vertical configurations available
- Standard cartridge bearing and seal assemblies facilitate easy maintenance
- Material options also available for corrosive applications including seawater (refer to 'Duoglide-e Steel Alloy' datasheet)
- Bearing configuration automatically selected to match specific pump duty
- WRAS and NSF coatings suitable for potable water available
- Designed for both 50Hz and 60Hz markets
- Clockwise and anti-clockwise rotation available

### TYPICAL APPLICATIONS

- Water Treatment, Supply and Distribution
- District Heating and District Cooling
- Power Auxiliaries
- Mining
- Metal Manufacturing
- Chemical and Petrochemical Industries
- General Industrial Applications
- Building Services

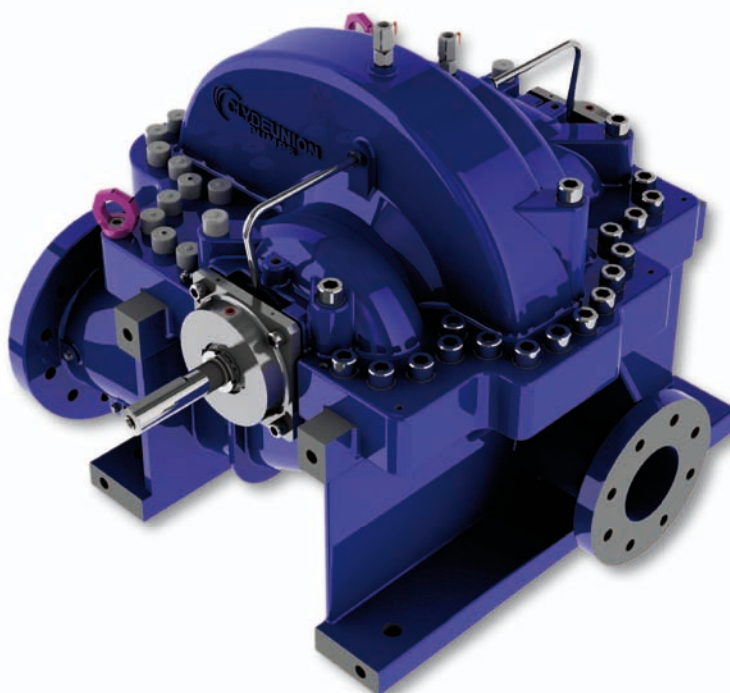
### TECHNICAL DATA

Capacity: up to 1,350 m<sup>3</sup>/hr/5,950 USGPM  
Delivery head: up to 275 m /910 feet  
Temperature: up to 80 °C /180 °F  
Speeds: up to 1,800 rpm  
Flange drilling: BS or ANSI

### MATERIALS OF CONSTRUCTION & COMPONENTS:

Material Spec	Casing	Impeller	Shaft
Spec J	Cast Iron	Stainless Steel	Stainless Steel

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



Pictured main & inset: Duoglide-e horizontal arrangement

Technical Data

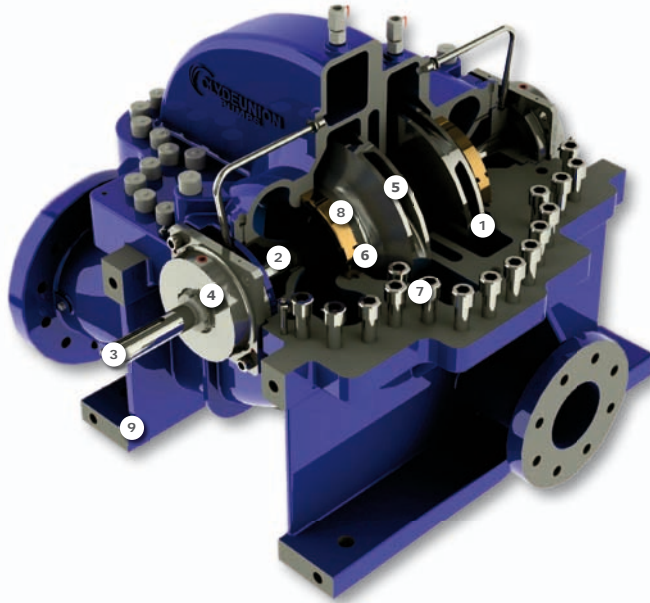


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### CAST IRON ARRANGEMENT



#### 1 ENERGY COSTS

Hydraulic design provides low NPSH, stable characteristics and high efficiency further enhanced with CLYDEUNION Pumps standard performance enhancing internal coating

#### 2 IMPROVED SEAL RELIABILITY

Unique adaptor design allows fitment of all major suppliers cartridge seal assemblies

#### 3 EXTENDED SHAFT LIFE

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

#### 4 EASE OF MAINTENANCE

Split casing design simplifies maintenance by allowing access to pump rotor without disturbing pipe work or driver. Additionally cartridge bearings and seals can be changed in a fraction of the time taken on a conventional axially split case products

#### 5 INCREASED COMPONENT LIFE

Stainless steel impellers as standard offer superior corrosion protection and optimum lifetime operation. Absence of impeller key eliminates the potential for fretting and fatigue failures. All spare impellers are mounted on a new shaft as standard

#### 6 WEAR OPTIONS

For economical renewal of operational clearances, replaceable metallic wear rings are fitted as standard, which reduce pressure leakage and improve the overall efficiency. Composite wear rings are available as a standard option

#### 7 DOUBLE VOLUTE CASING DESIGN

Radial thrust reduced by utilising double volute casing design on all but smallest frames offering improved efficiency, minimised vibration and extended seal and bearing life

#### 8 SINGLE ENTRY IMPELLERS

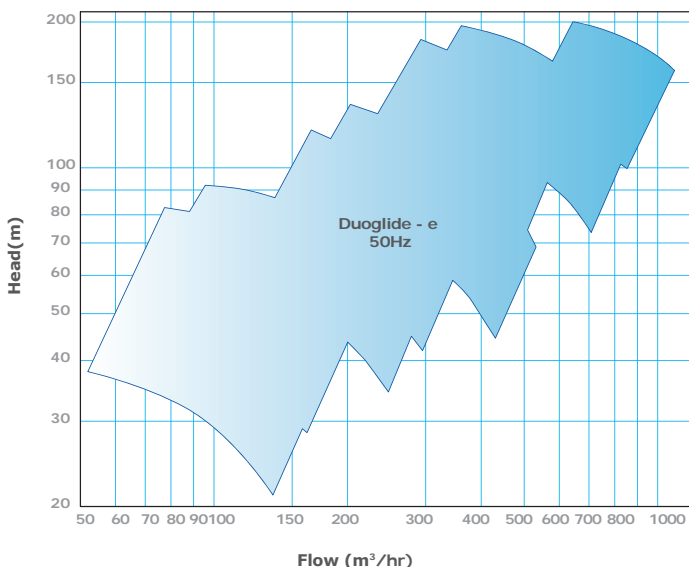
Back to back single entry hydraulically balanced impellers designed with optimised geometry provides high efficiency and low NPSH whilst minimising axial thrust for extended bearing and seal life

#### 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

Features & Benefits

RANGE COVERAGE CHART: Duoglide-e 50Hz 2 & 4 Pole



RANGE COVERAGE CHART: Duoglide-e 60Hz 2 & 4 Pole

