

CUP-BB5V

HEAVY DUTY, RADIALY SPLIT, MULTI-STAGE PUMPS

PUMP OVERVIEW

The ClydeUnion Pumps CUP-BB5V is a horizontal, double casing, radially split, multi-stage pump with opposed impellers and between bearings design suitable for high pressure, high speed and high temperature applications. All units comply with API 610. There are many ClydeUnion Pumps CUP-BB5V pumps operating worldwide on services as diverse as:

- Hot hydrocarbon refinery services with temperature up to 450°C (842°F)
- High suction pressure applications up to 100 Bar (1450psi) as standard with 300 Bar (4350psi) discharge capability
- Ethylene, propylene, LPG and all gas stripping products such as amine and lean solution



TYPICAL APPLICATIONS

- Refineries
- Gas plants
- Oil production facilities
- Pipelines
- Seawater injection
- Boiler feed water
- Hydrocarbon

TECHNICAL DATA

Capacity: up to 2,800 m³/hr / 12,350 USgpm

Delivery head: up to 4,100 m / 13,600 ft

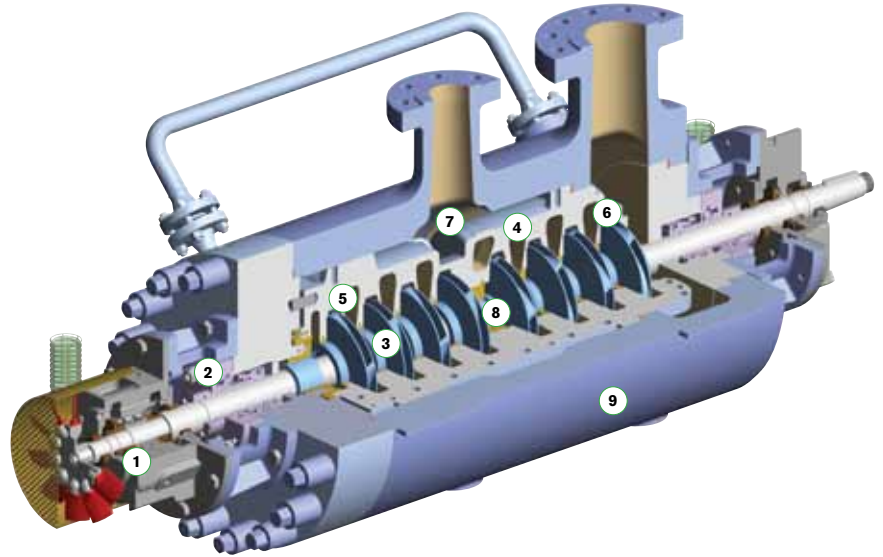
Temperature: up to 180 °C / 350 °F

Speeds: up to 7,000 rpm

Flange drilling: ANSI or BS

FEATURES + BENEFITS

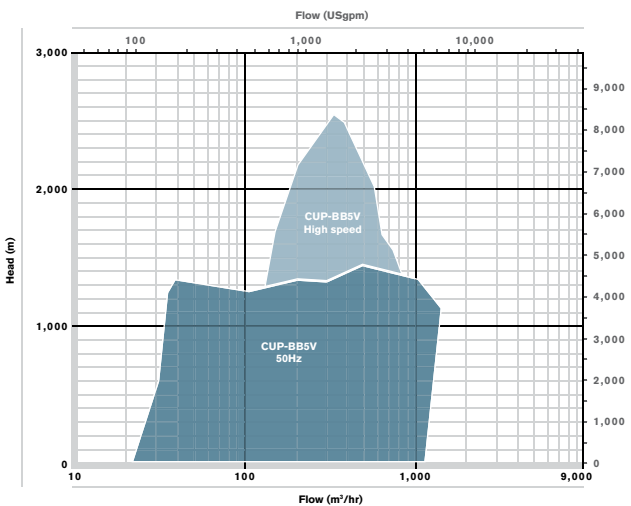
- 1 **Bearing assembly**
360° mounting gives class leading vibration levels. High capacity fan as standard. Pure or purge mist options
- 2 **Seal chamber**
API 682 compliant. Space for dual seals, easy access for maintenance and locking collar arrangement as standard
- 3 **Integral wear rings**
Reduced risk of failure due to wear part displacement. Retro-fit with conventional rings when necessary, conventional options available
- 4 **Double volute design**
Minimises radial thrust loads for optimised bearing and seal life
- 5 **Case wear rings + bushes**
Positive location, pinned for anti-rotation at split line
- 6 **Impellers**
Back-to-back design to minimise axial thrust. Individually secured, precision cast
- 7 **Axially split casing**
Hydraulic re-rates available within existing casing. Minimises rotor change-out time. Complete balancing and inspection without rotor disassembly. Near centreline mount



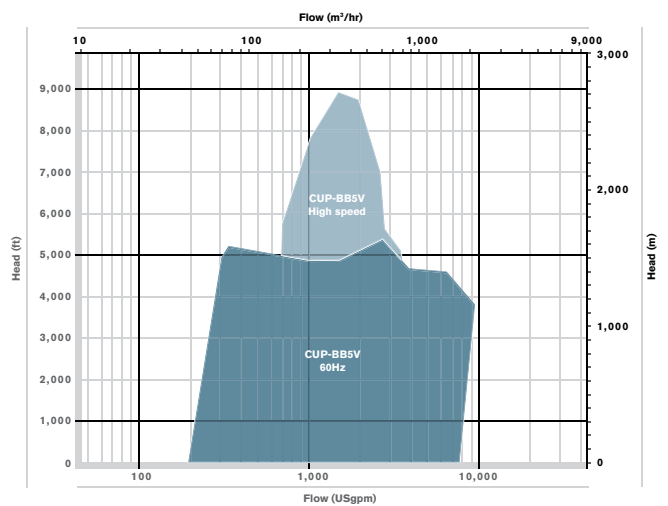
- 8 **Split centre bushing**
Facilitates inspection, removal and replacement. Maximises rotor support and dampening
- 9 **Material options**
All API 610 material options. Other material options available. NACE compatible. Non-metallic wear parts

RANGE COVERAGE CHARTS

50HZ RANGE CHART



60HZ RANGE CHART



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

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CUP-04-BB5V-UK-02

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