

CUP-BB2

HEAVY DUTY, RADIALY SPLIT, SINGLE STAGE PUMPS

PUMP OVERVIEW

The ClydeUnion Pumps CUP-BB2 is a heavy duty, horizontal, single stage, radially split, between bearings, double suction pump. It is available with top-top or side-side suction and discharge connections. The CUP-BB2 is designed and manufactured to the latest edition of API 610.

The CUP-BB2 pumps are employed for many oil and gas, power, and general industrial applications. Stringent API noise and vibration limits are met due to a rigid pump body with 360° bearing support and heavy centreline mounting. Reliable operation at elevated temperatures is ensured due to a number of cooling methodologies complementing inherently cool running bearing modules.

ClydeUnion Pumps legacy brands including HOL, KSMK, DB21, DB22 and H-OB provide the industry with a very comprehensive hydraulic coverage.



TYPICAL APPLICATIONS

- Refinery processes
- Booster
- Boiler feed booster
- Upstream processes
- Gas processing
- Petrochemical
- Nuclear / conventional power

TECHNICAL DATA

Capacity: up to 3,500 m³/hr / 15,410 USgpm

Delivery head: up to 650 m / 2,300 ft

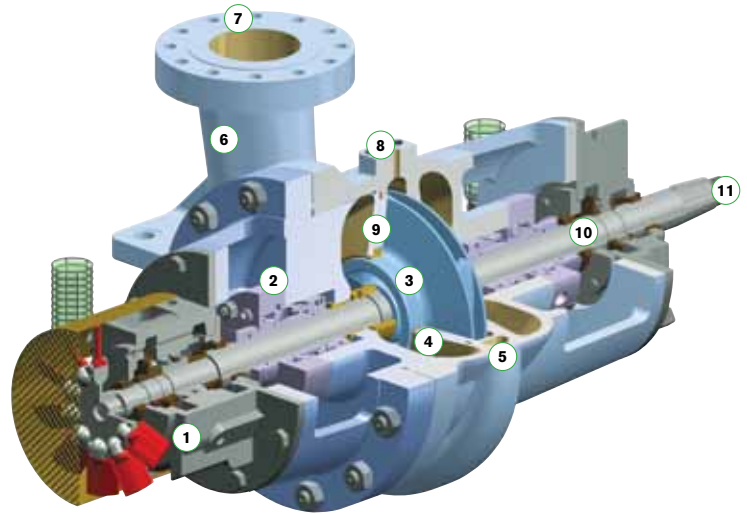
Temperature: up to 427 °C / 800 °F

Speeds: up to 3,600 rpm

Flange drilling: ANSI or BS

FEATURES + BENEFITS

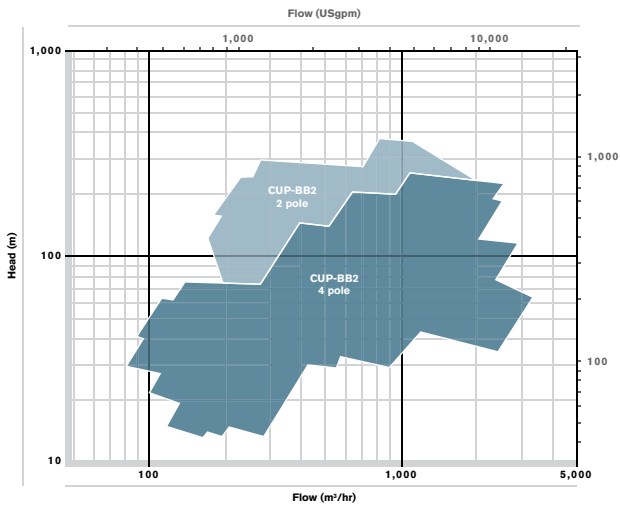
- 1 **Bearing assembly**
360° mounting gives class leading vibration levels. High capacity fan as standard. Pure or purge mist options
- 2 **Seal chamber**
API 682 compliant. Space for dual seals, easy access for maintenance and locking collar arrangement as standard
- 3 **Optimum NPSH performance**
Double suction impeller throughout range. Provides industry leading suction performance
- 4 **Case wear rings**
Renewable case rings
- 5 **Double volute design**
Minimises radial thrust loads for optimised bearing and seal life
- 6 **Variety of nozzle configurations**
Top/top standard. Side/side and side/same side available
- 7 **Flange finishes + rating**
Heavy duty 300 and 600 ratings available as standard. Higher pressure options available. Raised face and ring type joint options available
- 8 **Integrally flanged vent /+ drain connections**
Eliminates weld connection. Eliminates need for bracing. Conventional options available
- 9 **Case wear rings + bushes**
Positive location. Pinned for anti-rotation at split line



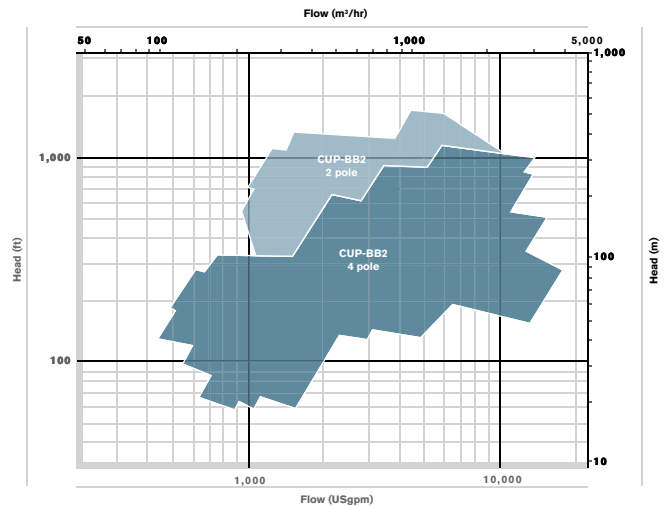
- 10 **Robust rotor design**
Stepped shaft for ease of assembly. Optimised rotor dynamics and power transmission capability
- 11 **API shaft taper**
For easy coupling removal

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-BB2-UK-02

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