PUMP OVERVIEW
The ClydeUnion Pumps CUP-BB3 pump is a heavy duty axially split, multi-stage, double volute horizontal pump with opposed impellers and either single or double suction first stage impeller options. They comply with the latest edition of API 610 and API 682 standards and are specifically designed for heavy duty, medium and high pressure applications.

The ClydeUnion Pumps CUP-BB3 flexibility of design allows the pump to be equally acceptable over a wide range of duties varying from standard water, oil and chemical applications to advanced water flood and boiler feed applications. ClydeUnion Pumps legacy brands including DB34, DVMX, H-FH and class “M” provide the industry with a comprehensive hydraulic coverage.

TYPICAL APPLICATIONS
• Crude oil + product pipeline
• Seawater injection
• Refining charge
• Desalination - high pressure reverse osmosis (HPRO)
• Boiler feed
• Produced water injection
• Metals - high pressure descale

TECHNICAL DATA
Capacity: up to 3,000 m³/hr / 12,000 USgpm
Delivery head: up to 3,350 m / 11,000 ft
Temperature: up to 230 °C / 450 °F
Speeds: up to 6,500 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
   Renewable case rings.

6. Impellers
   Back-to-back design to minimise axial thrust. Individually secured, precision cast.

7. Axially split casing

8. Split centre bushing
   Facilitates inspection, removal and replacement. Maximises rotor support and dampering.

9. Material options
   All API 610 material options. Other material options available. NACE compatible. Non-metallic wear parts.

10. 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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