

BCM RANGE

of process pumps
to API 610-6th edition

The BCM is a two stage, between bearing, horizontal range of pumps complying to API 610-6th edition.

The BCM range is centre line mounted, of heavy duty design, and capable of heads to 400m. and capacities to 180 m³/hr. Maximum design pressure 45 bar.

Water cooling of bearings, stuffing boxes and pedestals can be provided enabling the BCM to operate at temperatures up to 400°C.

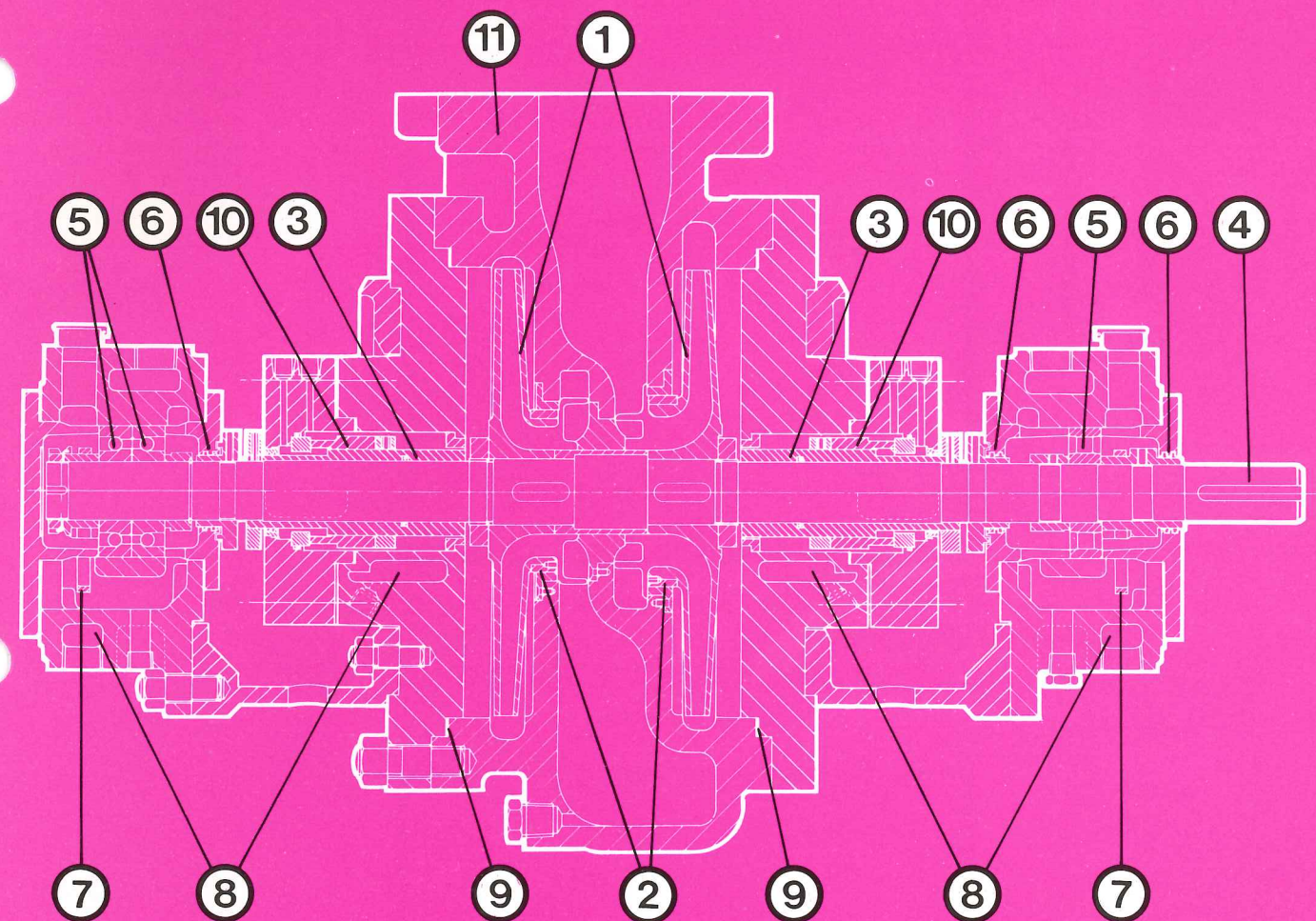
The BCM is ideally suited for those applications where two-stage overhung designs are not acceptable.

Computer aided design techniques have been used to determine shaft strength and critical speeds are well above maximum operating speeds, thus reducing vibration to a minimum.

All pumps are radially split and nozzle configurations can be either top/top or side/side.

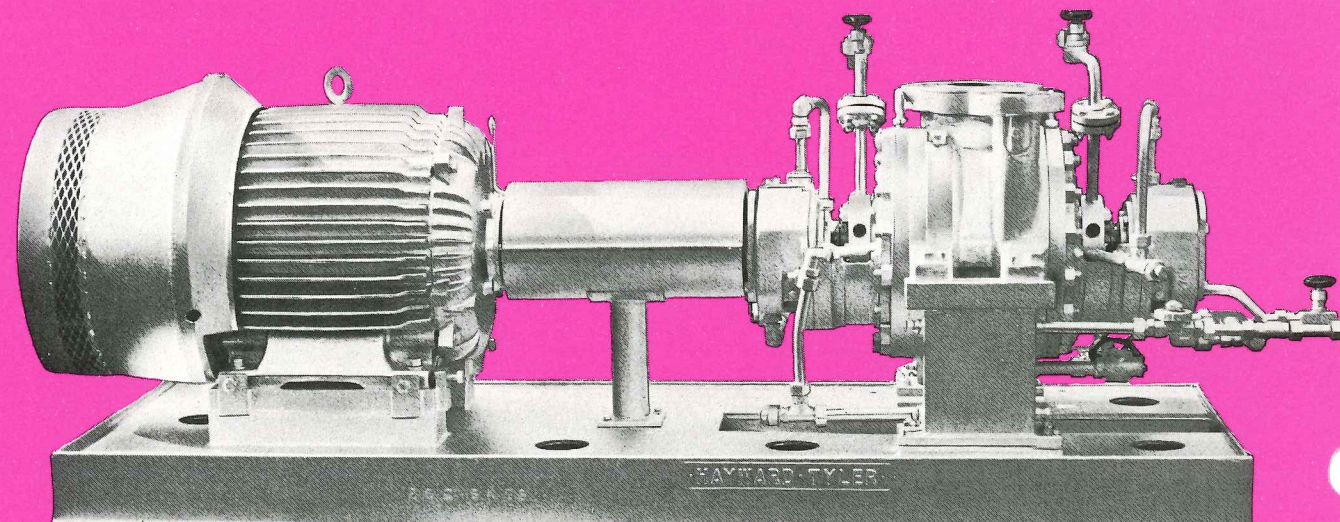
The rotating assemblies can be removed without disturbance of the suction or discharge pipework.

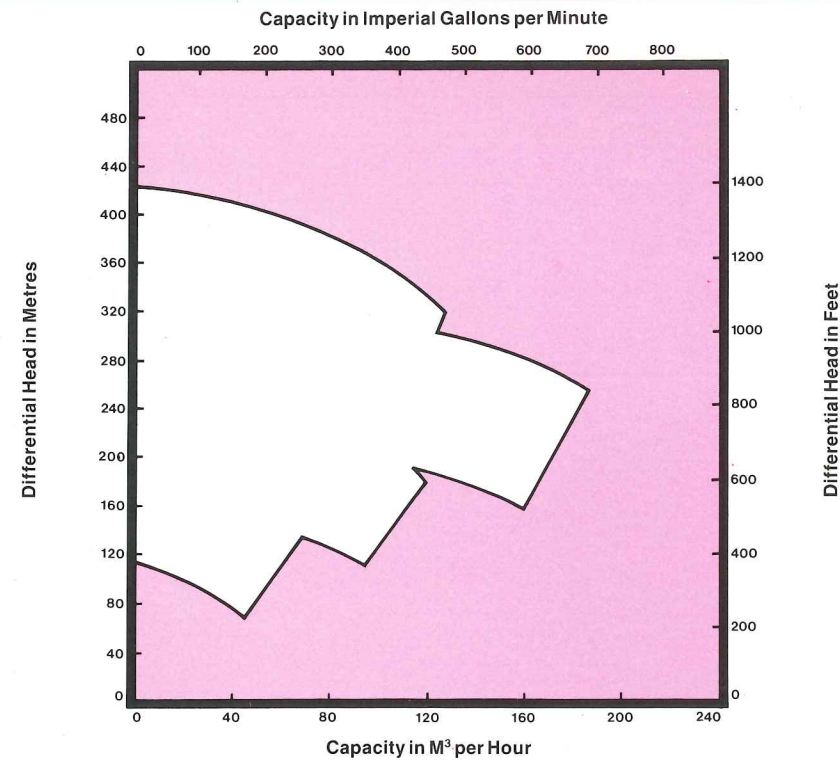
The full range of API 610 materials is available and all units can accommodate a wide selection of mechanical seals, all installations conforming to API 610-6th edition.



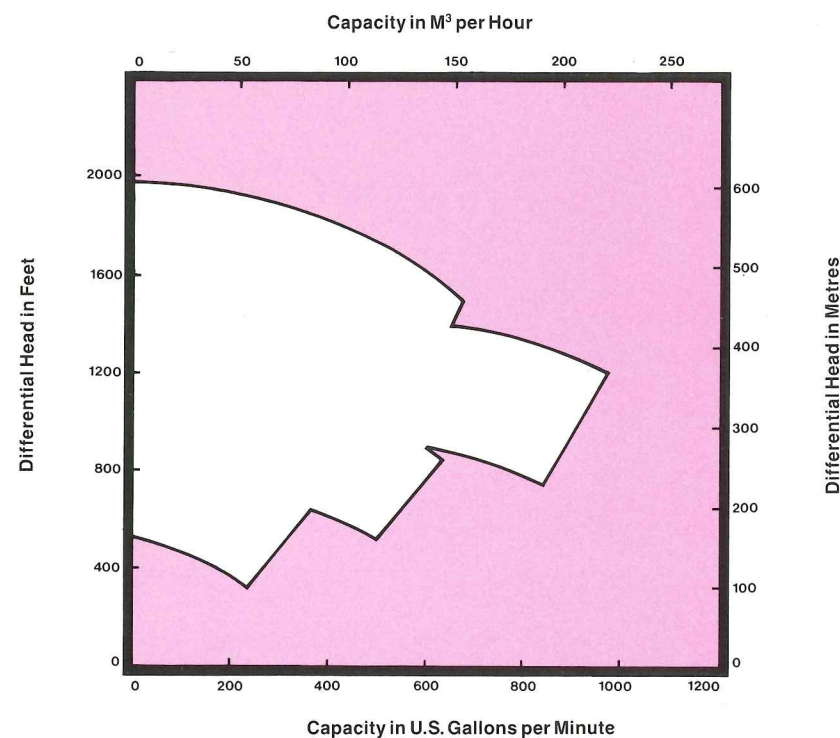
Two-Stage Pumps

- 1. Impellers:** Shrouded for high efficiency and hydraulically opposed to reduce axial thrust to a minimum. Separated by a close fitting bush and centre sleeve which can be 'Stellited' when necessary. Balanced as required by API 610.
- 2. Wear Rings:** Faces 'Stellited' when necessary, and secured by screws. Easily renewable.
- 3. Shaft Sleeves:** Sealed against leakage and hard surfaced or 'Stellited' when necessary.
- 4. Shafts:** Heavy duty design, first critical speed well above maximum operating speed. Alloy or stainless steel, whichever is required for the application.
- 5. Bearings:** The roller radial and angular contact thrust bearings are selected to give bearing lives above API 610 requirements. The back-to-back fitted angular contact bearings do not require to be paired; any two can be used together.
- 6. Bearing Seals:** These prevent bearing contamination by liquid or solid matter and leakage of oil from the bearing housing and are of labyrinth type to API 610.
- 7. Lubrication:** Oil circulation is by oil rings and distributed through galleries. The correct level is maintained by constant level oilers.
- 8. Cooling:** Can be provided to bearing housings, stuffing boxes and pedestals when pumping temperature demands.
- 9. Case Gaskets:** Captive between pump case and covers, conforming to API 610.
- 10. Seal:** Mechanical seals of various types can be fitted to suit the pumping application. Soft packing with lantern ring can be fitted, when required.
- 11. Flanges:** ANSI 300 and ND 40 are standard but others can be supplied to suit customers'





50 HZ RANGE CHART



60 HZ RANGE CHART

Conversion kits are available to change existing overhung designs to between bearing designs.

Installation and Service

One of the contributory factors to the world-wide success of Hayward Tyler is the exceptionally high standard of service that is part of every installation.

What does this service cover? Just about everything you can think of to do with our products. This means installation, commissioning, trouble shooting on site, reconditioning and repairs, spares, technical advice, testing facilities and many others. It can

vary from advice on the telephone by a field service engineer to organising shipment of pumps back to our Works for reconditioning and testing under load conditions.

Every Hayward Tyler pump is designed to work with the minimum of maintenance. Occasionally however things do go wrong, but no matter how remote the locality, modern communications will bring a field service engineer within hours.

Hayward Tyler

A Sterling Company

Hayward Tyler Limited
Process Industry Products

Hayward Tyler

BCM RANGE of process pumps

