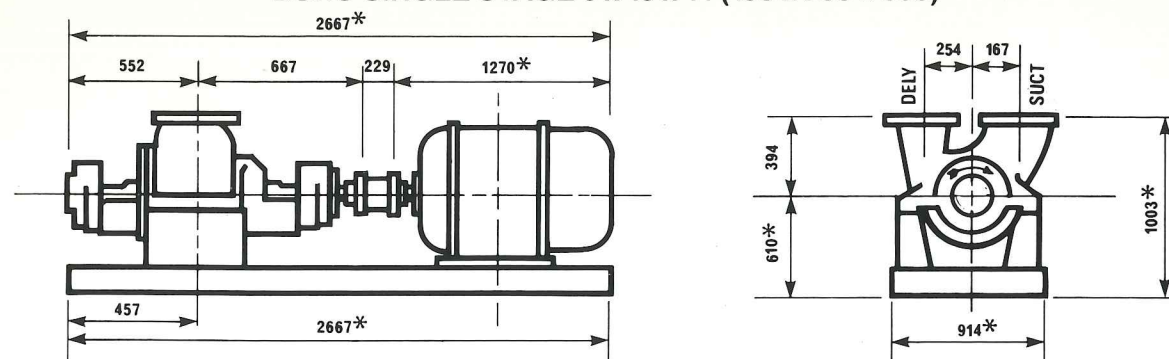
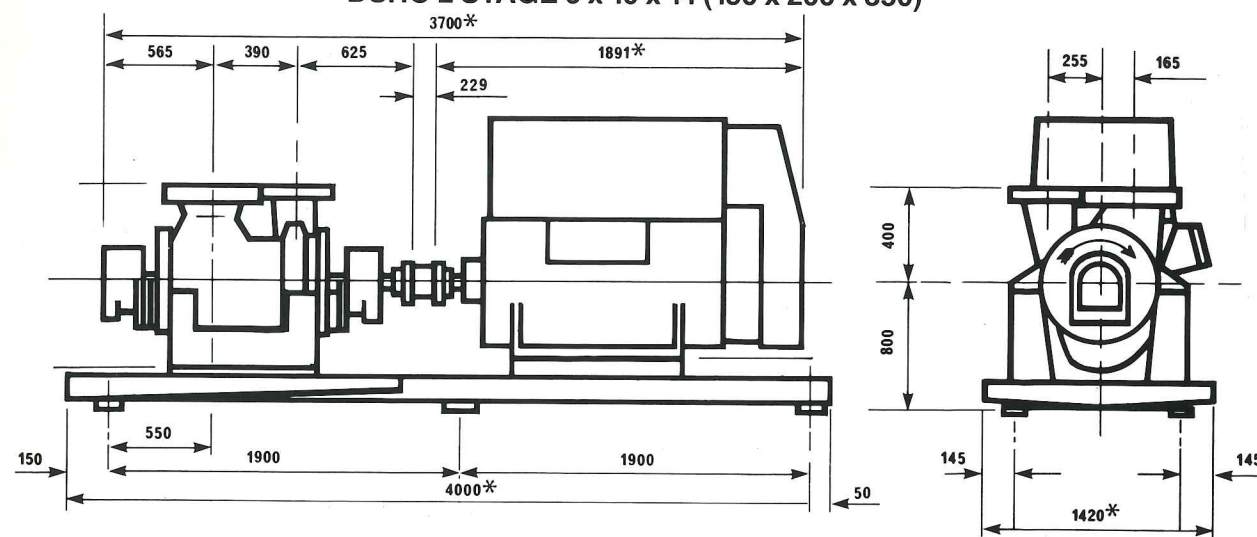


DIFFERENTIAL HEAD IN FEET

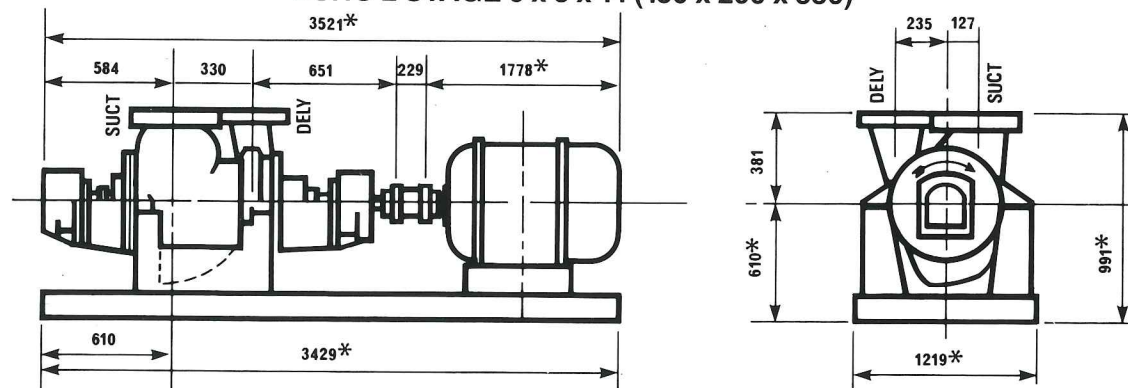
DSHO SINGLE STAGE 6 x 10 x 14 (150 x 200 x 350)



DSHO 2 STAGE 6 x 10 x 14 (150 x 200 x 350)



DSHO 2 STAGE 6 x 8 x 14 (150 x 200 x 350)



ALL DIMENSIONS GIVEN IN MILLIMETRES

* DEPENDENT ON MOTOR SIZE

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 anything 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.

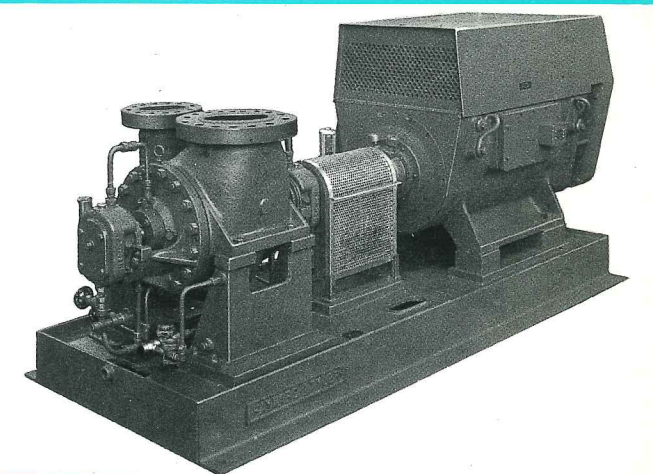
Every Hayward Tyler pump is designed to work with the minimum of maintenance. Occasionally however things do go wrong, but no matter how remote the locality, modern communications will bring a field service engineer within hours.

 **Hayward Tyler**

A Sterling Company

Hayward Tyler

DSHO RANGE of process pumps



DSHO RANGE of process pumps

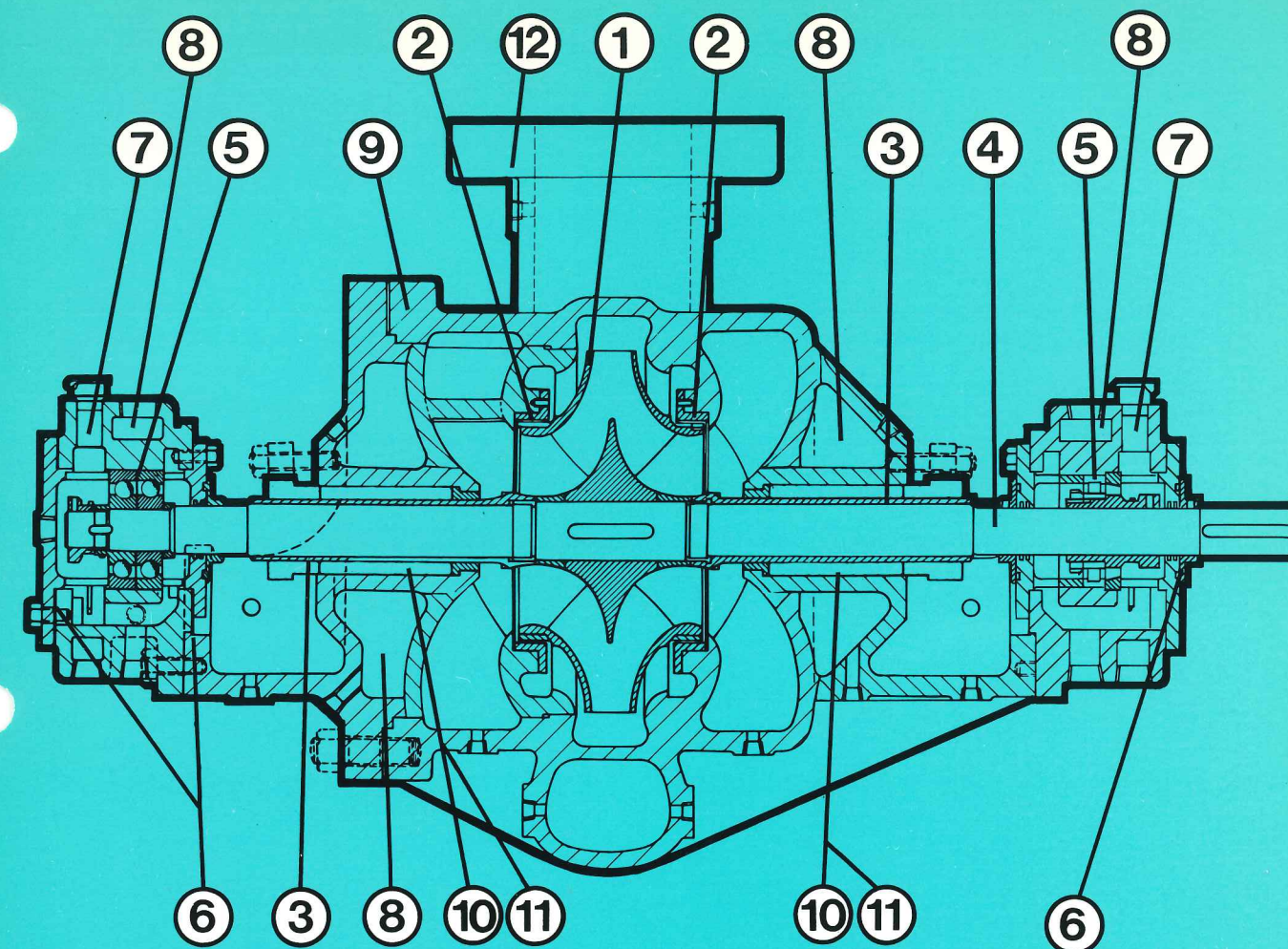
The Hayward Tyler range of single and two stage Double Suction Hot Oil pumps (DSHO) complies with the API 610 specification, and is designed for capacities beyond the limit of single suction process pumps. All units are of robust design and capable of trouble-free operation under the most arduous conditions. These pumps have been in operation for many years, and have been equal to the strenuous production demands of the Process Industry.

Each pump is centre-line mounted and capable of high temperature operation, and all units have provision for water cooling of bearings, stuffing boxes and pedestals.

All pumps are radially split and branch configuration can be either top/top or side/side.

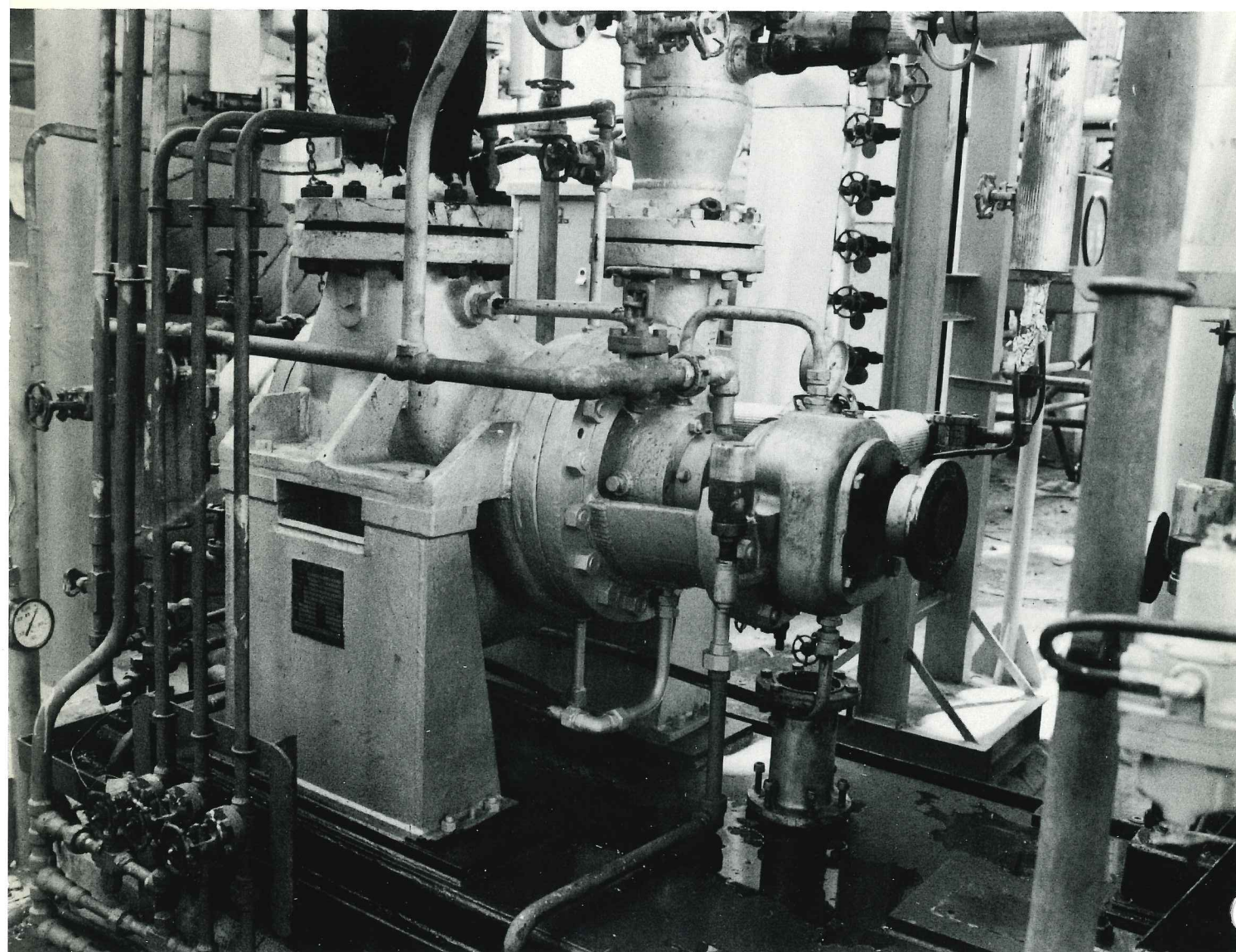
The rotating assemblies can be removed without disturbance of the suction or discharge pipework. Critical speeds are well above maximum operating speeds, so reducing vibration to a minimum.

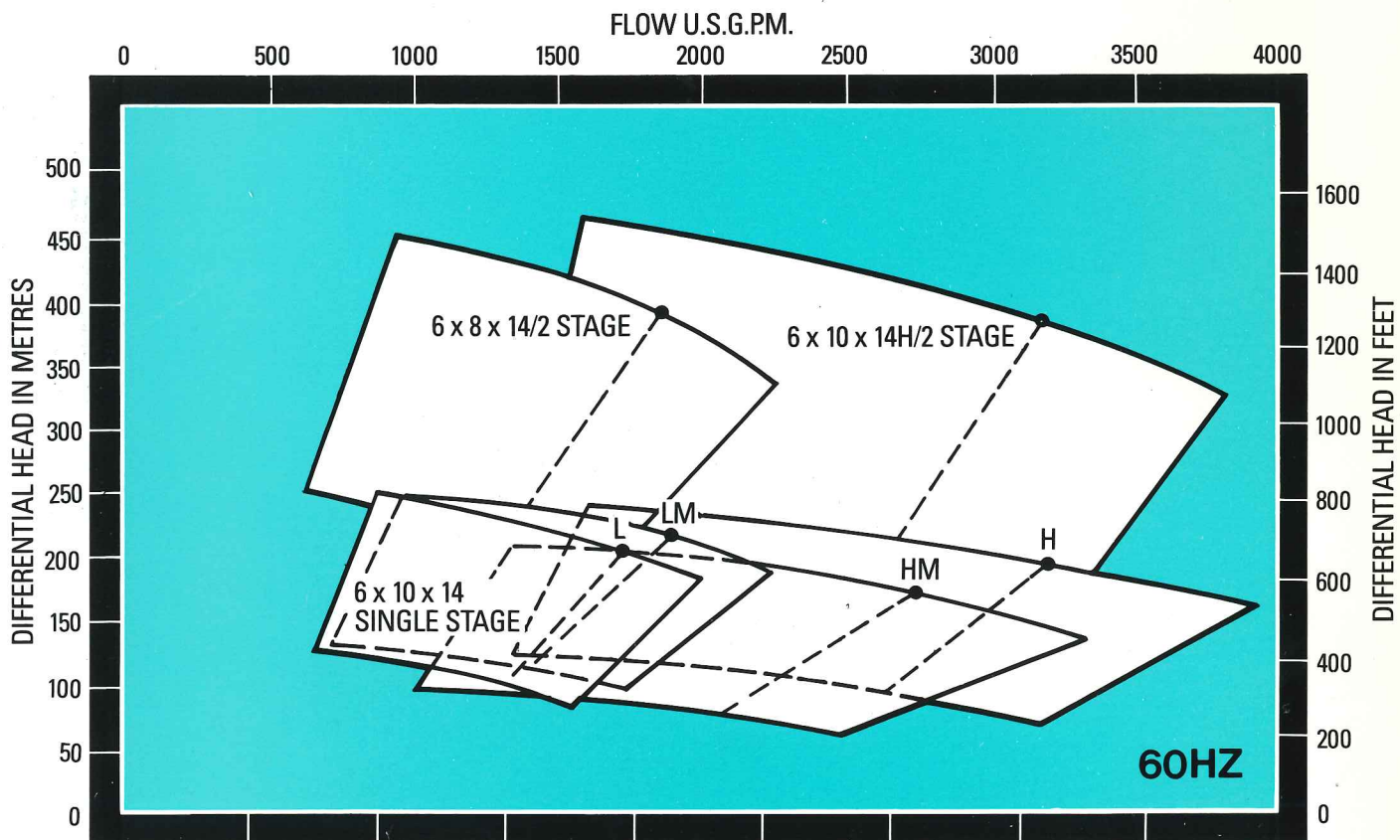
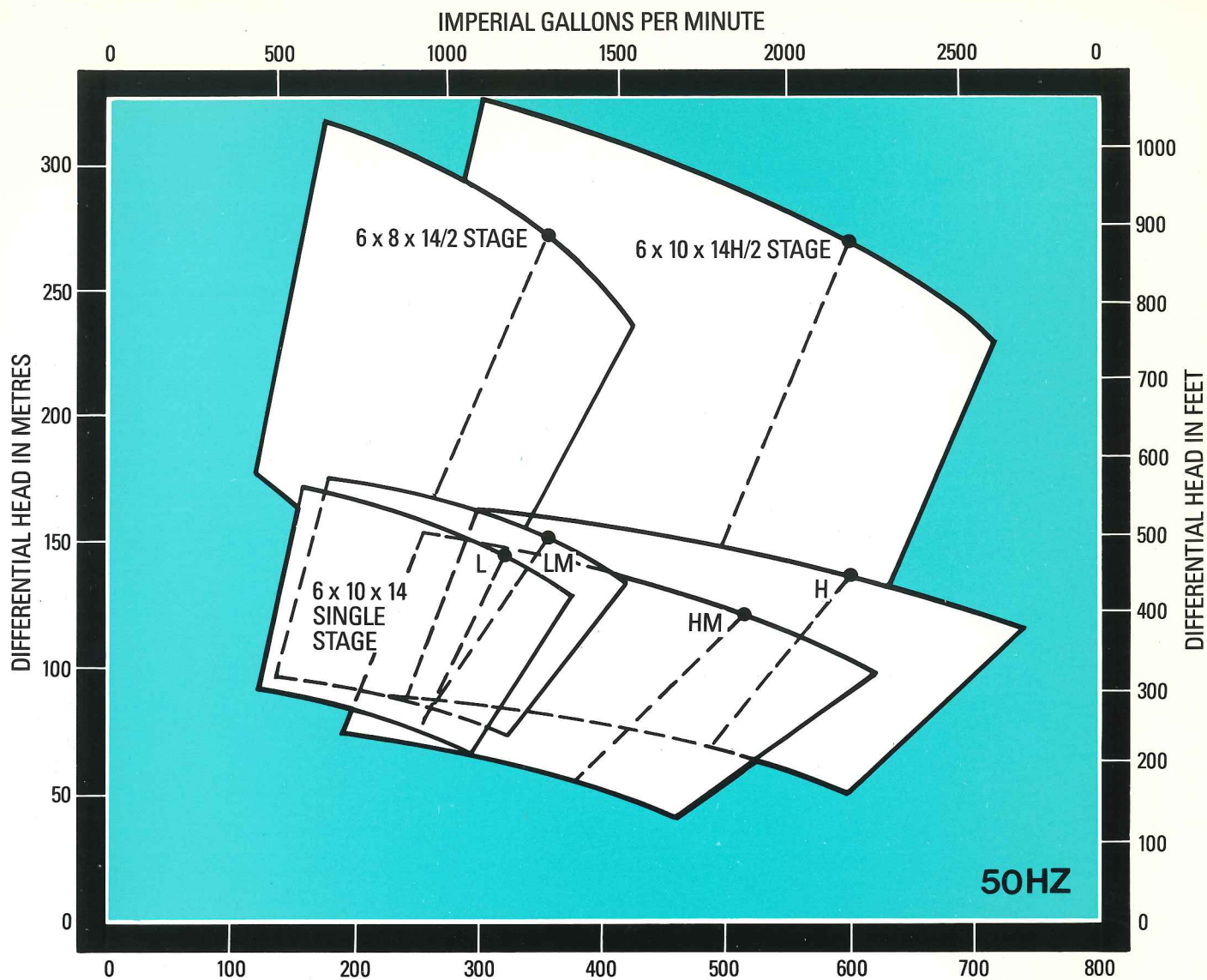
A wide selection of mechanical seals or soft packing can be fitted dependent on application. The mechanical seals used can be single, double or tandem, balanced or unbalanced, all installations conforming to the latest edition of API 610.

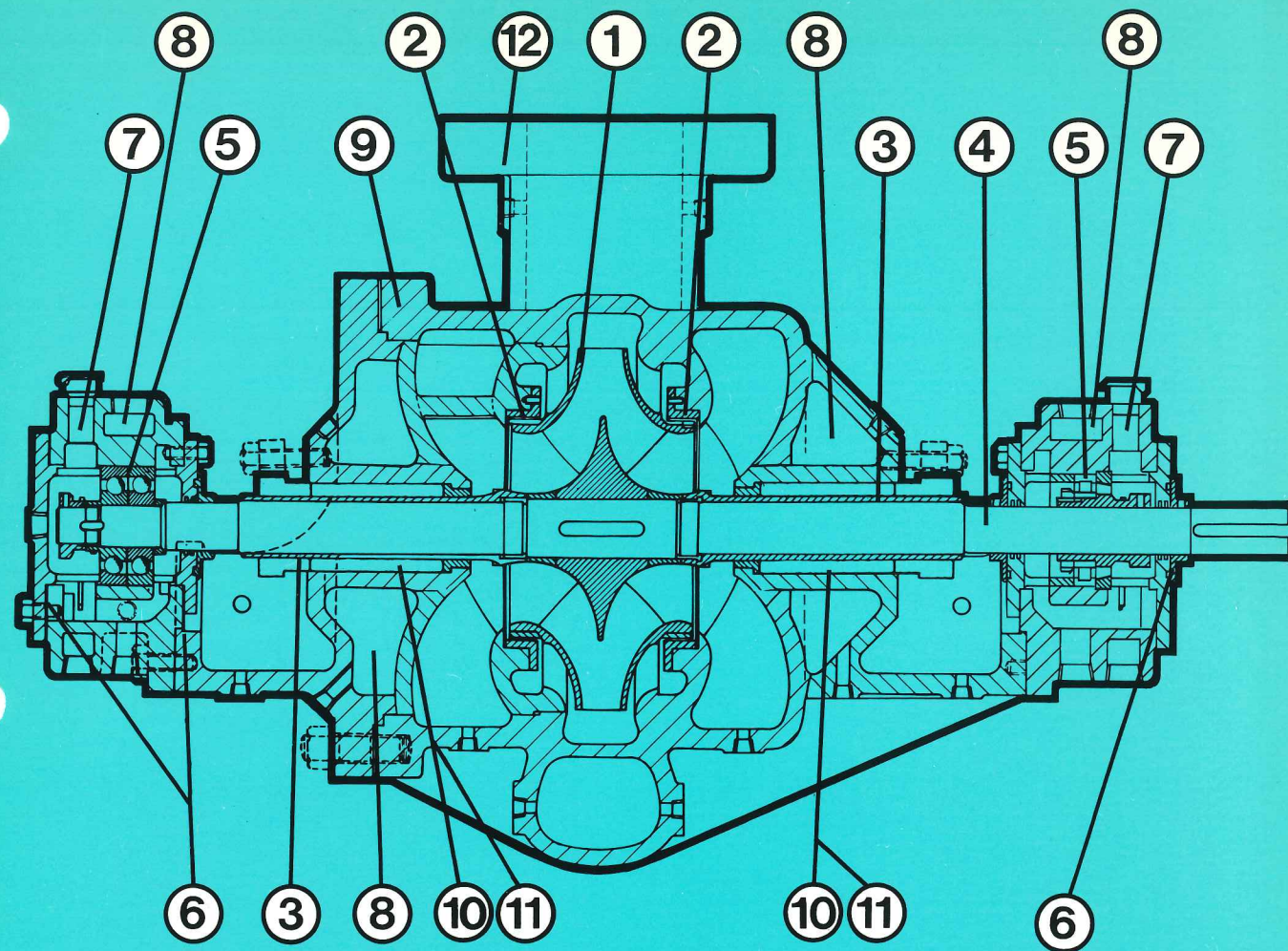


Single Stage Pumps

- 1 **Impellers** Double entry for low NPSH requirement. Shrouded for high efficiency and designed to give the best hydraulic performance. Balanced as required by API 610.
- 2 **Wear Rings** Secured by screws, and faces are 'stellited' when necessary. Easily renewable.
- 3 **Shaft Sleeves** Sealed against leakage. Screwed at impeller ends and hard surfaced or 'stellited' when necessary for packed glands. Separate sleeves for cartridge type mechanical seals.
- 4 **Shafts** Alloy or stainless steel, whichever is required for the application.
- 5 **Bearings** Angular contact thrust bearings are selected to give bearing lives above API 610 requirements. Back to back fitted, these bearings do not require to be paired. Any two can be used together. A roller radial bearing is fitted as standard but a journal white metal lined sleeve bearing can be supplied if required.
- 6 **Bearing Seals** These prevent bearing contamination by liquid or solid matter and leakage of oil from the bearing housings.
- 7 **Lubrication** Oil ring method as standard. The correct level is maintained by constant level oilers. Connections for mist lubrication can be provided for both wet or dry sump application.
- 8 **Cooling** Can be provided to bearing housings, stuffing boxes and pedestals, when pumping temperature demands.
- 9 **Casing Design** Allows complete rotating unit to be removed, without disturbance of pipework or pump and driver alignment.
- 10 **Seals** Mechanical seals of various types can be fitted to suit the pumping application.
- 11 **Seals** Soft packing with lantern rings can be fitted.
- 12 **Flanges** ASA flanges are standard but others can be supplied to suit customer requirements.

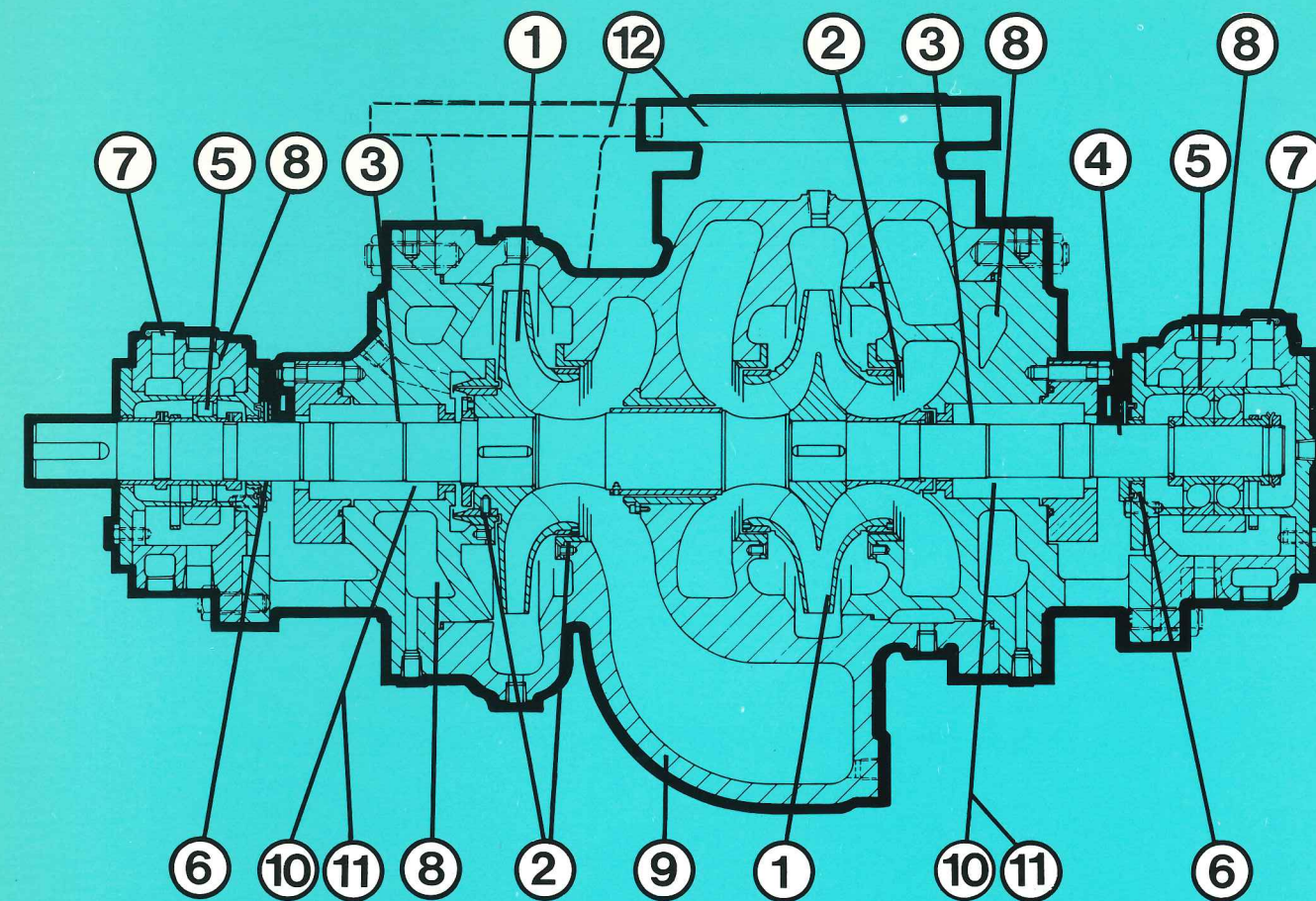






Single Stage Pumps

- 1 **Impellers** Double entry for low NPSH requirement. Shrouded for high efficiency and designed to give the best hydraulic performance. Balanced as required by API 610.
- 2 **Wear Rings** Secured by screws, and faces are 'stellited' when necessary. Easily renewable.
- 3 **Shaft Sleeves** Sealed against leakage. Screwed at impeller ends and hard surfaced or 'stellited' when necessary for packed glands. Separate sleeves for cartridge type mechanical seals.
- 4 **Shafts** Alloy or stainless steel, whichever is required for the application.
- 5 **Bearings** Angular contact thrust bearings are selected to give bearing lives above API 610 requirements. Back to back fitted, these bearings do not require to be paired. Any two can be used together. A roller radial bearing is fitted as standard but a journal white metal lined sleeve bearing can be supplied if required.
- 6 **Bearing Seals** These prevent bearing contamination by liquid or solid matter and leakage of oil from the bearing housings.
- 7 **Lubrication** Oil ring method as standard. The correct level is maintained by constant level oilers. Connections for mist lubrication can be provided for both wet or dry sump application.
- 8 **Cooling** Can be provided to bearing housings, stuffing boxes and pedestals, when pumping temperature demands.
- 9 **Casing Design** Allows complete rotating unit to be removed, without disturbance of pipework or pump and driver alignment.
- 10 **Seals** Mechanical seals of various types can be fitted to suit the pumping application.
- 11 **Seals** Soft packing with lantern rings can be fitted.
- 12 **Flanges** ASA flanges are standard but others can be supplied to suit customer requirements.



Two Stage Pumps

- 1 **Impellers** Double entry first stage for low NPSH requirement. Shrouded for high efficiency and designed to give the best hydraulic performance. Separated by a centre sleeve which can be 'stellited' when necessary. Balanced as required by API 610.
- 2 **Wear Rings** Secured by screws, and faces are 'stellited' when necessary. Easily renewable.
- 3 **Shaft Sleeves** Sealed against leakage. Screwed at impeller ends and hard surfaced or 'stellited' when necessary for packed glands. Separate sleeves for cartridge type mechanical seals.
- 4 **Shafts** Alloy or stainless steel, whichever is required for the application.
- 5 **Bearings** Angular contact thrust bearings are selected to give bearing lives above API 610 requirements. Back to back fitted, these bearings do not require to be paired. Any two can be used together. A roller radial bearing is fitted as standard but a journal white metal lined sleeve bearing can be supplied if required.
- 6 **Bearing Seals** These prevent bearing contamination by liquid or solid matter and leakage of oil from the bearing housings.
- 7 **Lubrication** Oil ring method as standard. The correct level is maintained by constant level oilers. Connections for mist lubrication can be provided for both wet or dry sump application.
- 8 **Cooling** Can be provided to bearing housings, stuffing boxes and pedestals, when pumping temperature demands.
- 9 **Casing Design** Allows complete rotating unit to be removed, without disturbance of pipework or pump and driver alignment.
- 10 **Seals** Mechanical seals of various types can be fitted to suit the pumping application.
- 11 **Seals** Soft packing with lantern rings can be fitted.
- 12 **Flanges** ASA flanges are standard but others can be supplied to suit customer requirements.