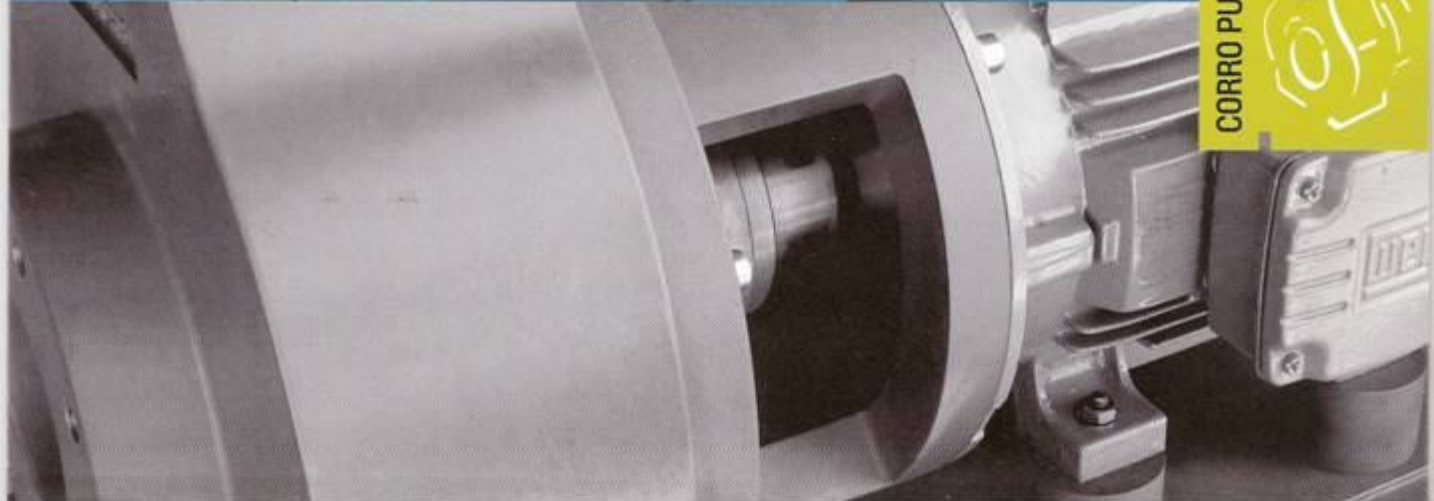


CORRO PUMP®

CORROSION RESISTANT PUMPING



/ THE CORRO PUMP® RANGE OF NON-METALLIC PUMPS

These pumps were developed to take maximum advantage from the key features emanating from two synthetic thermo resins systems. The two resin systems characterise features such as excellent resistance to chemical attack, strength and hardness comparable with many metals and good erosion properties against fluid borne abrasives. These two resin systems have thus been used with great advantage when pumping corrosive chemicals encountered in all types of industries.

The Corro Pump® product provides a cost-effective alternative for many harsh chemical processes which would normally require pumps constructed from exotic metal alloys or plastic lined pumps. Our Corro Pump® also handles innocuous but nonetheless troublesome fluids with ease such as chlorinated water and seawater. As a composite material the Corro Pump® has the same



external corrosion resistant capabilities as it has internally. This allows the pump to withstand acid spills or leakages from other sources. It also allows the pump to be immersed in chemicals when it is being used as a vertical spindle pump for sump and spillage applications.

/ DESCRIPTION

/ MATERIAL FEATURES

Broadest range of chemical resistance
for full operational coverage

Suitable for process temperatures
from -20°C to +140°C

Excellent strength and hardness
Resists erosion in chemical slurries

Non-Sparking and non-galling
Beneficial in solvent applications

Does not support bacterial growth
and can be steam sterilised

Relatively low mass reduces
component weight

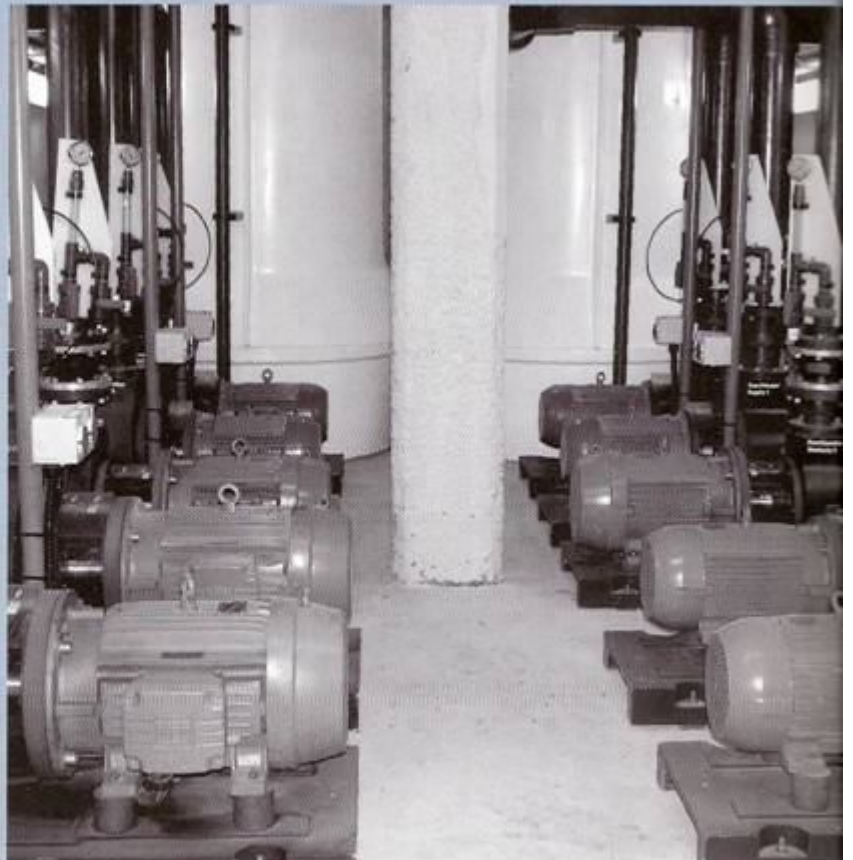
Low vibration and noise due to
inherent attenuating properties of
resin

Low cost when compared with exotic
metals and advanced thermoplastics

/ TYPICAL PROCESSES

- Fume scrubbing
- Chemical manufacturing and
processing
- Fertiliser manufacture
- Metal refining
- Metal finishing
- Municipal recreation pools
- Desalination plants
- Aquaculture and marine aquariums

02



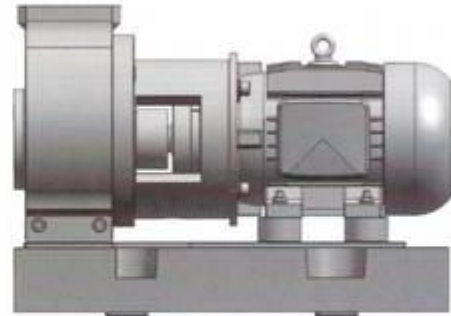
/ CONFIGURATIONS (1-2-3)



1 / CLOSE COUPLED

Reliability has long been accepted as being inversely proportional to the number of components in any system. Quality close coupled pumps have used this principle to improve reliability in many industries and over the last 20 years Corro Pump® have been successfully using this configuration in 90% of the toughest chemical duties. The Mk II close coupled Corro Pump® provides a cost effective, compact solution to most industrial chemical pumping applications.

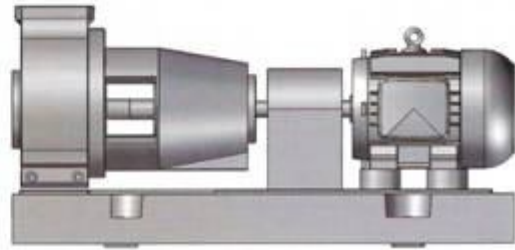
Fig. 1 / CLOSE COUPLED



2 / LONG COUPLED

For many operators the use of any but this traditional layout is not an option. The ability to separate the hydraulic and prime mover elements provides tempting convenience and economy for many large sites. Corro Pump® assist the cause of those choosing to hold with tradition by providing bearing housing and base plate in the same corrosion resistant resins as the wet-end.

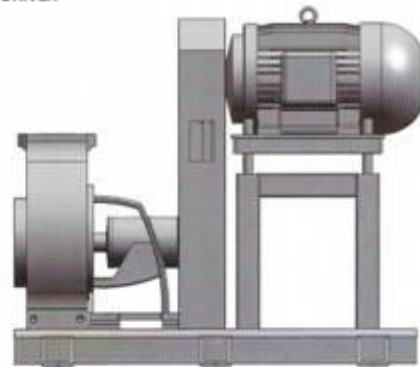
Fig. 2 / LONG COUPLED



3 / BELT DRIVEN

Even in the 21st century belt driven pumps provide advantages for some, with more accurate tailoring of curves to duties and the option of readily revising curves for those changing or indeterminate duties that make final decisions so difficult. Advantage is also to be derived from the motor being mounted higher than a conventionally direct coupled pump where such installation is in a bunded area and where flooding of the pump may occur.

Fig. 3 / BELT DRIVEN

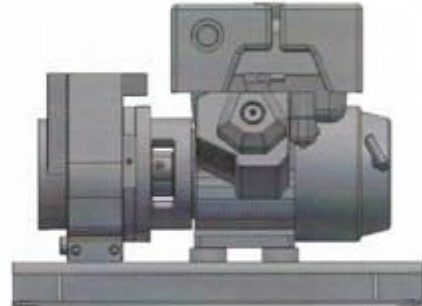


/ CONFIGURATIONS (4-5)

4 / CHEMICAL ROAD TANKER

The Corro Pump® road tanker pump provides the chemical transport industry with a pump package that will handle almost any chemical they need to move. Driven by either a premium brand petrol/diesel engine or a hydraulic PTO package, this pump represents the most cost effective and reliable solution to an extremely difficult pumping application.

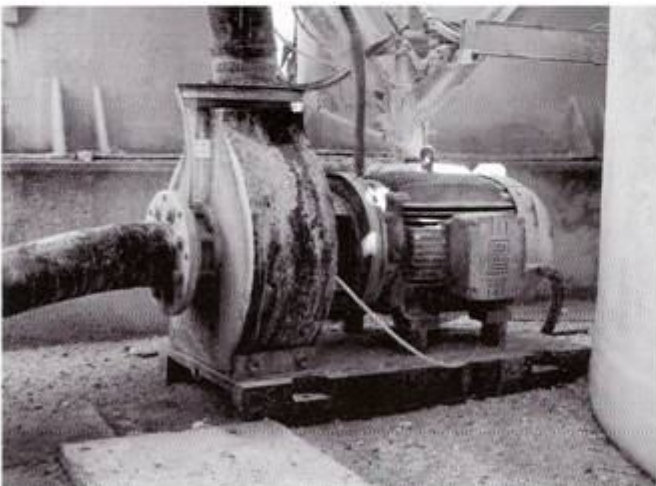
Fig. 4 / CHEMICAL ROAD TANKER



5 / VERTICAL SPINDLE

The VS series vertical spindle pump has a specialised role in chemical pumping, due to the fact that this pump operates with its volute and impeller immersed directly in the supply or process tank. It is often the most convenient method of achieving NPSH in challenging applications. The absence of a mechanical seal also means that the VS will happily run without product, making it particularly convenient for those processes in which it is difficult to guarantee reliable process fluid supply. This feature can even be utilised to advantage in those circumstances where top access to a tank is not available, by side mounting and hard-piping the pump to the tank at an appropriate level. This unit is, of course, produced with all wetted components in our thermoset synthetic resin materials and is available in a useful range of spindle lengths.

Fig. 5 / VERTICAL SPINDLE



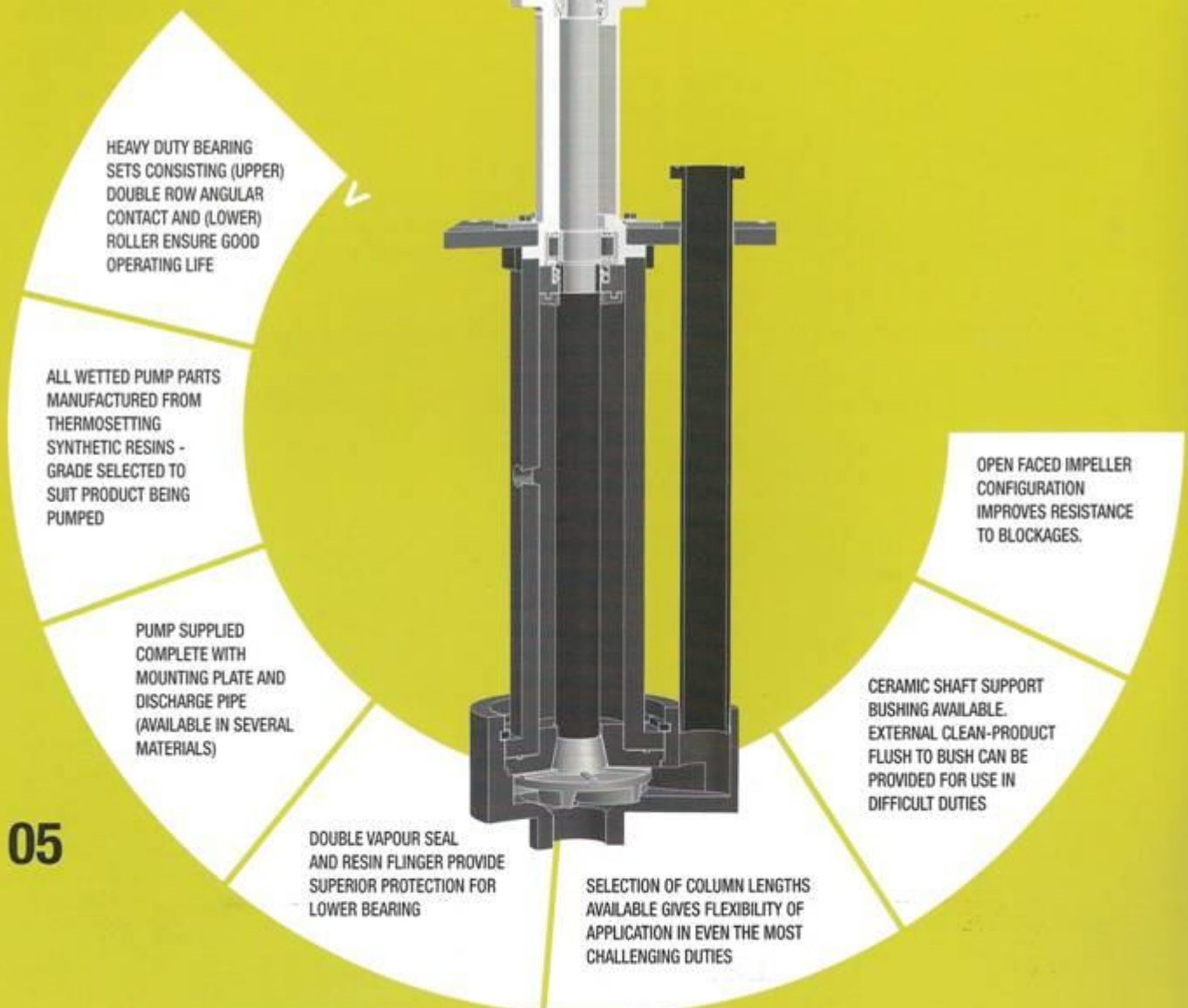
/ CRP VS VERTICAL

The VS series vertical spindle pump has a specialised role to fill in chemical pumping. This pump operates with its volute and impeller immersed directly in the supply or process tank and is often the most convenient method of achieving NPSH in challenging applications. The absence of a mechanical seal means that the VS will happily run without product, making it particularly convenient for those processes in which it is difficult to guarantee

reliable process fluid supply. This feature can even be utilised in those circumstances where top access to a tank is not available, by side mounting and hard piping the pump to the tank at an appropriate level.

This unit is produced with all wetted components in our thermosetting synthetic resin materials and is available in a practical range of sizes.

/ FEATURES



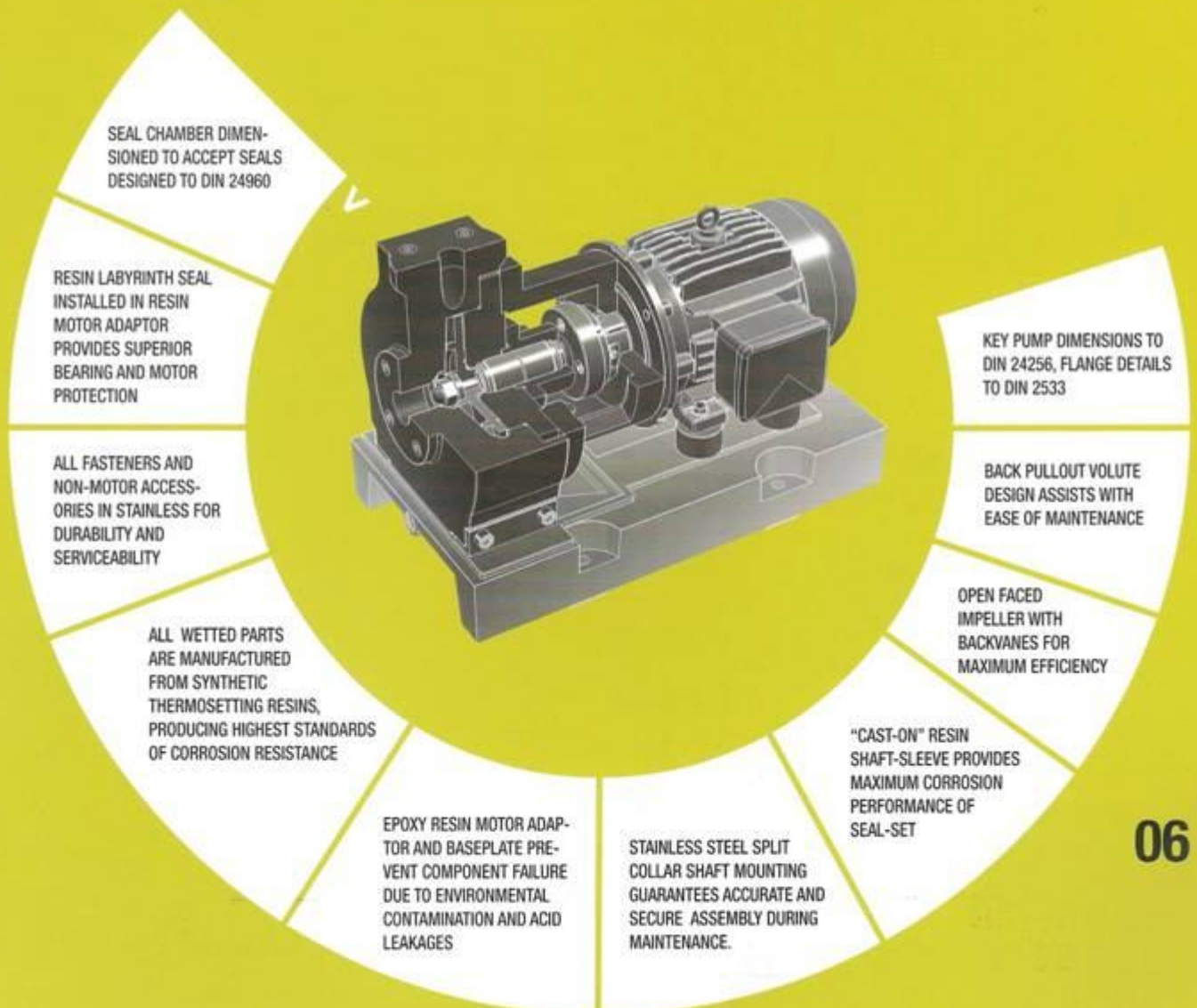
/ CRP SERIES CCH MKII

Our close coupled MkII pump is in high demand. This robust pump is of end suction back pull-out design and provides the compact simplicity of a close coupled pump without compromising reliability. Great care has been taken to ensure that the impeller to bearing-set relationship provides excellent rotating assembly, while the standard use of a premium quality electric motor ensures optimal thrust control and good bearing life thereby maximising

mechanical seal performance. All wetted parts are supplied in our corrosion resistant thermoset resins and all fasteners are 316 stainless steel. An added optional feature which improves reliability and longevity in harsh environments is the use of epoxy resin motor adaptors and pump bases. Epoxy resin labyrinth seals are also available for additional protection of the electric motor in close coupled pump configurations.

/ FEATURES

This pump is available in more than 30 model sizes and up to 250 S/M motor frame size.



/ MECHANICAL SEALS

The shaft seal of a chemical pump is more often than not, found to be the weak link that limits pump service life. In recognition of this Corro Pump® have provided a seal chamber design that is both functional and versatile. The seal chamber is dimensioned to suit mechanical seals with installation dimensions to DIN 24960 and the

intelligent construction of the resin materials allows for full advantage to be gained from a variety of common seal configurations.

The mechanical seals fitted as standard to Corro Pump® are supplied by an internationally respected sealing system Manufacturer.

/ STANDARD SEALING CONFIGURATIONS

1 / Single Outside Seal



2 / Single Inside Seal



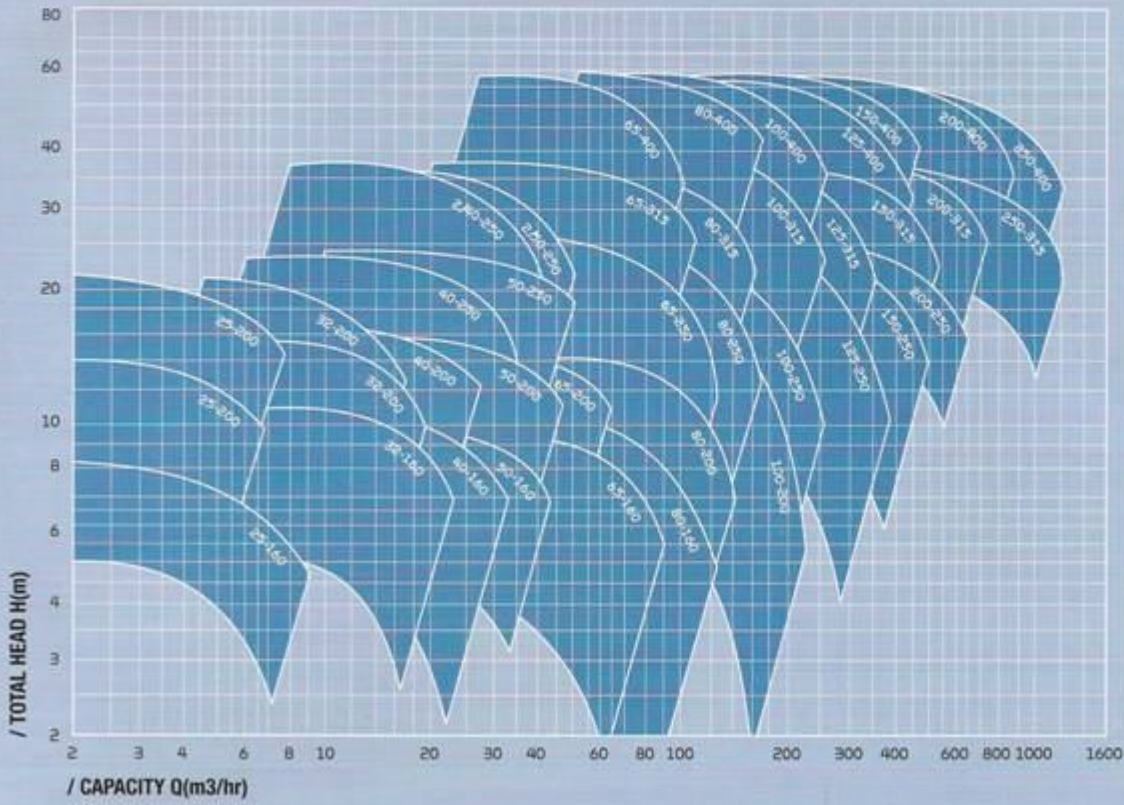
3 / Back-to-back Double Seal



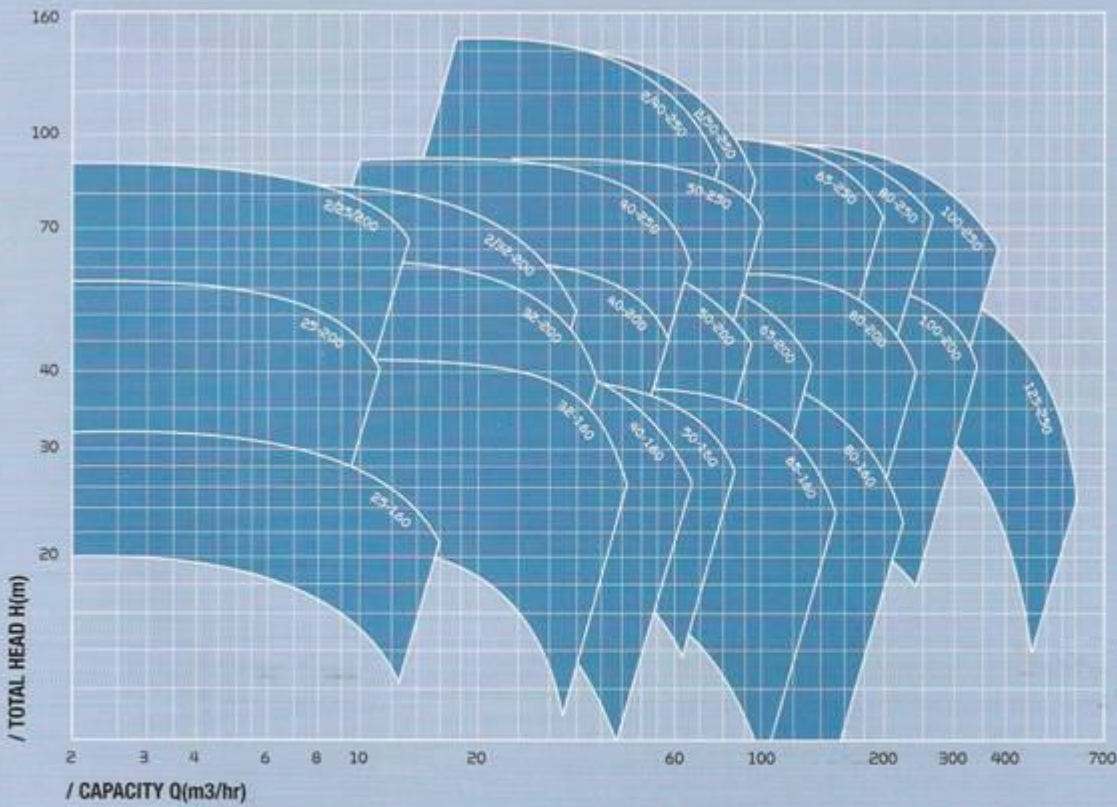
4 / Cartridge Seal



/ PERFORMANCE



HYDRAULIC PERFORMANCE 1450RPM



HYDRAULIC PERFORMANCE 2900RPM