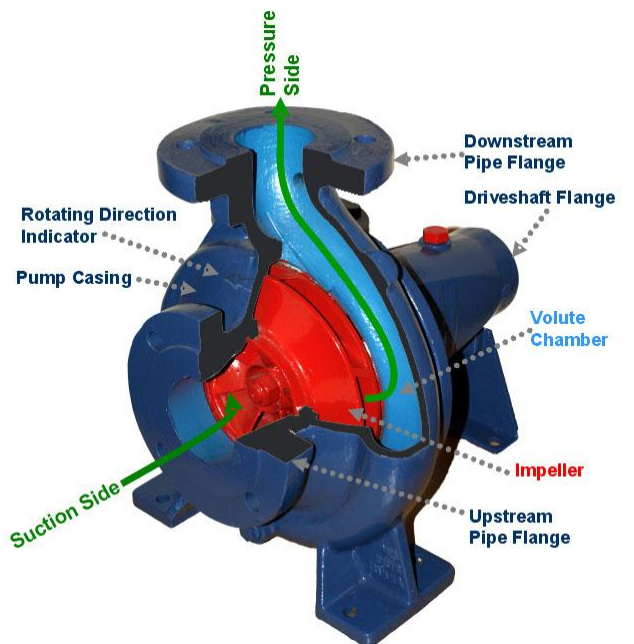
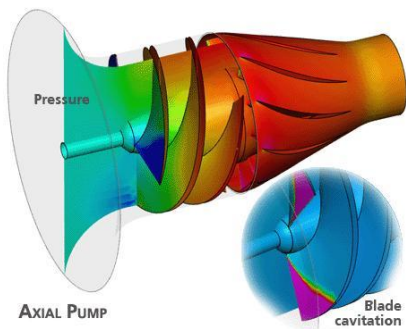
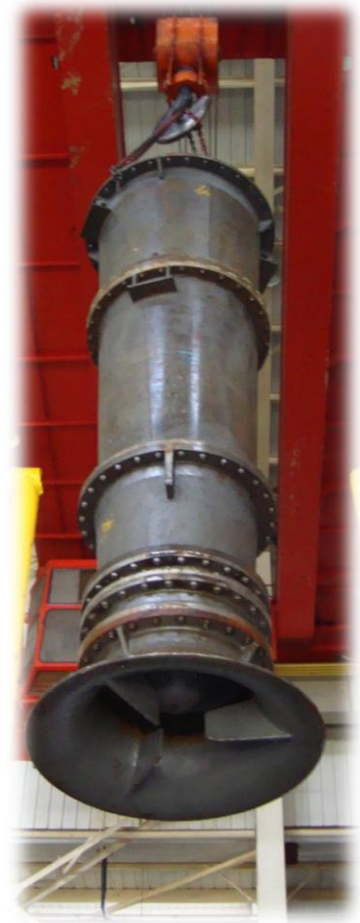


# Napier - Reid

## Custom Made Pumps



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## Custom Made Pumps

**Napier-Reid** developed a great reputation in different industries and municipalities from the many years of experience supplying, manufacturing and providing different types of water pump solutions.

N-R's pumps are custom designed, engineered and manufactured to the exact specifications and needs of each order. Everything from the size and dimensions of each part of the pump to the type of material to be used are chosen based on the nature of fluid, site ambient condition and any other conditions the client specifies.

This flexibility and ability to supply the perfect custom solution for your needs is what differentiates NR from other competitors. This versatility insures we deliver the best solution for your specific need and ultimately translate to higher efficiency and many years of trouble free operation.

## Examples of Custom Solutions

### Axial and Mixed Flow Pumps

- |                                     |                           |
|-------------------------------------|---------------------------|
| • <b>Flow Rate:</b> up to 4,000 L/s | • <b>Head:</b> up to 20 m |
|-------------------------------------|---------------------------|

**Application:**

Waterworks, water supply, irrigation and many more.

**Construction:**

Vane Axial Flow propeller is hydraulically balanced via pressure equalizing balance holes. Outer Flanged Columns are bolted together with through bolts for ease in assembly. Alignment is maintained via centering fits on all parts. Flared Suction Bell provides a smooth waterway entrance to the impeller and has integral splitters to reduce inlet swirl and entrance losses. Seal Chamber accepts packing or mechanical seal to suit service requirements.



### Multistage Centrifugal Pumps

- |  |                            |
|--|----------------------------|
| • <b>Flow Rate:</b> up to 1000 m <sup>3</sup> /h | • <b>Head:</b> up to 300 m |
|--|----------------------------|

Horizontally multistage centrifugal pumps, packed and sealed types

**Application:**

Waterworks, water supply, boiler feed, pressure boosting, irrigation high pressure cleaning, heating, condensate systems, reverse osmosis, chemical process, and many more.

**Construction:**

We incorporate different diffuser sizes and hydraulic impeller into our pumps to match the job required. The axial thrust is hydraulically balanced. There are two options for supporting the pump rotor:

Option 1: Rotor is supported on the suction side by a self-adjusting sleeve bearing lubricated by the pumped liquid and on the drive side by a grease lubricated antifriction bearing.

Option 2: Rotor is supported on both sides by grease lubricated antifriction bearing. It is driven from the suction end and has two shaft seals. The casting components are sealed by O-rings.



## About Napier - Reid

*Over 50 years of excellence in water & wastewater treatment*

**Napier-Reid** is located in the greater Toronto area in the Province of Ontario, Canada. We supply engineering services and process equipment for water and wastewater treatment.

We have the technology, resources and experience to design, manufacture and implement innovative water and wastewater treatment solutions worldwide. We have completed over 3000 projects since our inception in 1950. This stands as a testament of our ongoing commitment of providing the highest quality service, products and after sales support in the industry. Our capabilities include engineering, manufacturing, installation and field support. We have in-house personnel for complete mechanical, electrical and instrumentation process and control system design. As a manufacturer, our designs focus on cost-effective solutions, simplicity of installation and ease of maintenance.



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