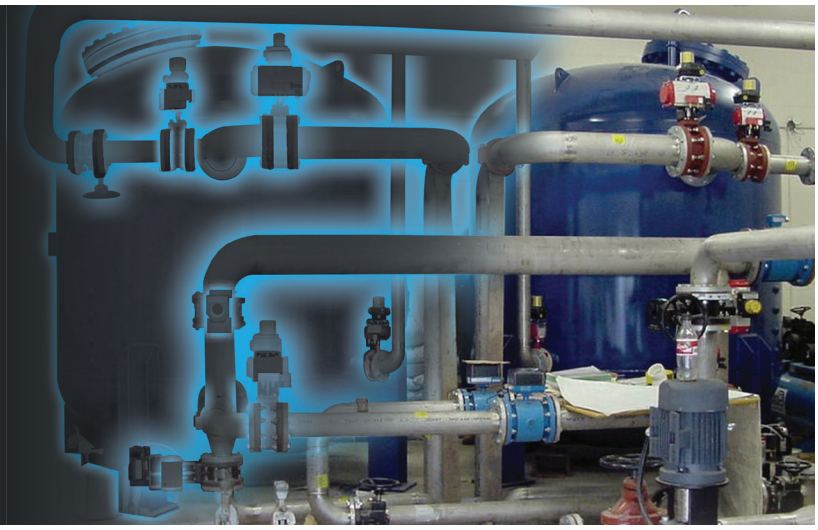
NAPIER-REID®

PRESSURE FILTERS



Treatment Quality*

Turbidity	<0.3 NTU
Impurities addressed	Iron, manganese, sulfides, arsenic, pesticides, taste/odor compounds, dissolved organic carbon (DOC)

* With media options tailored to needs.

Advantages

High filtration rate up to 10 gpm/ft² (24 m/hr)

Efficient with high solids-holding capacity, longer filter runs, minimal backwash water (as low as 2% of plant flow)

Vertical or horizontal configurations, skid-mounted packages or free-standing vessels

Fully automated with PLC/SCADA controls

Lower energy consumption than alternative methods

Applications

Municipal water systems, including remote communities

Industrial water, potable or process

Seawater filtration

Problem

Your facility needs to deliver high-quality water for municipal, industrial, or remote applications. You require a robust, cost-effective filtration system that removes impurities while minimizing footprint, installation time, and operating costs.

The Napier-Reid® Solution

Napier-Reid's pressure filters provide compact, high-performance water treatment. Designed for turbidity reduction, iron and manganese removal, arsenic treatment, pesticide removal, seawater filtration, and wastewater polishing, these systems ensure consistent water quality across diverse applications.

Our filters are ASME code-compliant and available in FRP, NSF61 epoxy coated carbon steel, or stainless steel. Flexible media options—such as sand, anthracite and catalytic media such as Greensand Plus** or MD-80®—address a wide range of treatment needs.

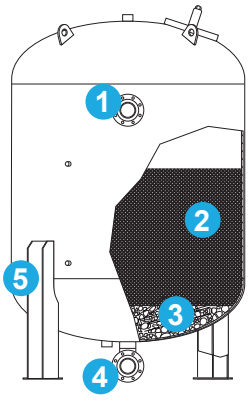
*** GreensandPlus is a registered trademark of Hungerford & Terry.*

How it works

Our flow distribution system 1 spreads the incoming raw water over the filtration area. Water filters down through the media 2 which strains out dirt and impurities. Water is collected using an underdrain system designed 3 to prevent channeling or short circuiting.

When the differential pressure increases beyond a preset, the filter bed is backwashed to return it to its original capacity.

Filters share backwash inlet/effluent header 4 depending on operating mode, and can be equipped with an optional air scouring system. 5



CERTIFIED ISO9001:2016

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AERO-MOD® atac® EDI® EOSi® MITAwt®
NAPIER-REID® Nexom® triplepoint®

Axius Water companies

Designed to be better

Napier-Reid has improved upon the well-understood pressure filter technology with:

- **Vessels built to ASME code** with NSF epoxy lining,
- **Custom media configurations** for targeted contaminant removal,
- **Compact, modular design** for easy transport and installation, and
- **Unique flow distribution and collection** maximizes filter media and prevents short-circuiting.

Proven track record

Napier-Reid has delivered dozens of pressure filtration systems around the globe. As an example, in 2017, Napier Reid supplied a water treatment system to Pictou, New Brunswick (*below*). The eight pressure filters that make up the system are split into four dual media filters and four oxidative filters, each with pressure filter vessels rated for a pressure of 100 PSIG and a flow rate of 816 m³/day.

Napier-Reid knows water treatment

Napier-Reid has been engineering water treatment excellence for over 75 years, covering thousands of projects around the world. With an established reputation for design innovation and manufacturing excellence, we deliver water treatment systems that meet or exceed the most challenging requirements of both industries and municipalities.





Working with Napier-Reid® is easy and effective

1. We walk you through the project details we need. Move your project forward at napier-reid.com/contact
2. We supply design-ready drawings, proprietary technologies, and responsive support.
3. You never worry about your turbidity, iron, manganese, sulfide, or arsenic again.

NAPIER-REID®