

















## WATER, WASTE WATER & RECYCLING

### PLASTIC AND RUBBER APPLICATIONS

Redco™ Plastics and Rubber materials and products can be put to work anywhere there's a need for durable, long-lasting, maintenance-free systems. Redco™ Plastic and Rubber products are rust resistant, non-corrosive, and wear resistant; designed to protect and prolong equipment life. Keep life-cycle costs and environmental impacts down by replacing metal pipes, concrete containers, scraper blades and sprockets with Redco™ Plastic products.

## ADVANTAGES

-  Impact resistant
-  Weather resistant
-  Chemical and corrosion resistant
-  Easy to fabricate
-  Excellent weatherability
-  Quieter than metal pipes (no "water hammer")
-  Easy and safer to install
-  Low maintenance
-  Easy to weld, install and operate
-  Excellent flexibility and bending radius (which eliminates the need for custom fittings)
-  Surge-resistant
-  Provides superior protection for public health when used in water treatment applications
-  Fabrication can be done on-site with simple hand tools; no torches or heavy equipment needed
-  Energy savings with dynamic systems (a result of plastics lighter weight and lower specific gravity)

### DID YOU KNOW?

On average, the water footprint of an American is 32,911 glasses a day, or 751,777 gallons per year. Of that amount, 96 percent is used to grow food, make clothing and generate energy.





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### PLASTIC AND RUBBER APPLICATIONS

## TYPICAL APPLICATIONS

- ▶ Potable water systems (valve and pump components)
- ▶ Irrigation systems (bearings, nozzles, pivot bushings)
- ▶ Aquaculture
- ▶ Specialized chemical delivery systems
- ▶ Reclamation process piping
- ▶ Sprinkler/water aeration systems
- ▶ Hot and cold water distribution systems
- ▶ Coatings
- ▶ Double contained piping systems
- ▶ Water and sewage treatment — paddles, weirs, wear shoes, sprockets, chain guides
- ▶ Gravity and force main industrial and municipal sewer systems
- ▶ Ultra pure water systems
- ▶ Submerged marine installations
- ▶ Ocean thermal energy conversion projects, designed to produce energy and air condition buildings
- ▶ Desalinization
- ▶ Grating and stair systems

### MATERIALS:

- ▶ Acetal (POM)
- ▶ Acrylonitrile-Butadiene-Styrene (ABS)
- ▶ Cast Nylon (PA)
- ▶ Chlorinated Polyvinyl Chloride (CPVC)
- ▶ Ethylene-Chlorotrifluoroethylene (ECTFE)
- ▶ Ethylene-Vinyl Acetate (EVA)
- ▶ FRP Grating
- ▶ High-Density Polyethylene (HDPE)
- ▶ Low-Density Polyethylene (LDPE)
- ▶ Polymethyl Pentene (PMP)
- ▶ Polyurethane
- ▶ Polypropylene (PP)
- ▶ Polyvinyl Chloride (PVC)
- ▶ PVC/Acrylic Alloy
- ▶ Polyvinylidene Fluoride (PVDF)
- ▶ Thermoplastic Elastomer (TPE)
- ▶ Ultra-High Molecular Weight Polyethylene (UHMW-PE)

### Manufacturing & Fabrication Services

Redwood Plastics and Rubber is dedicated to the specialized requirements necessary to turn stock plastics, rubber and composites into precision mechanical components of the utmost quality.

We can design, machine, mill, weld, route, and drill to produce prototypes, short runs, production runs or maintenance parts.

Save time and money by utilizing our experienced fabricators and plastic and rubber specialists.

