



Plastic Piping Systems

→ Solutions for Water Treatment

Water Treatment

Visible benefits

Improving the quality of water in order to reduce its impact on processes and the environment is always a challenge.

In a wide competitive area of chemical and physical processes you need the right partner who will be able to bring you the solution and expertise for your complete piping system.

With our systems of fittings, pipes, valves automation and instrumentation with a high level of service quality we offer you know how, which will serve you to be more competitive in your market place.



Membrane System
Microfiltration



Chemical Injection System



Chemical Disinfection
System

Use

- Chemical Process Industry
- Food and Beverage
- Life Science
- Microelectronics
- Ship Building
- Water Utilities

Make Up Water Drinking Water

Industry

Municipal

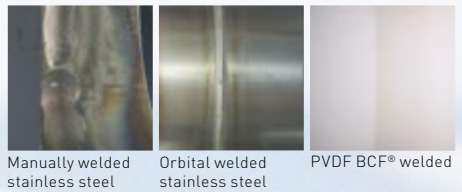
- Filtration Systems
- Membrane Systems
- Ion Exchanger Systems
- Reverse Osmosis Applications
- Water Injection Systems

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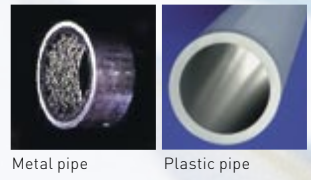
Use

Your benefits at a glance

- System solution and technological expertise
- Added value welding technologies



- No corrosion or scale build up

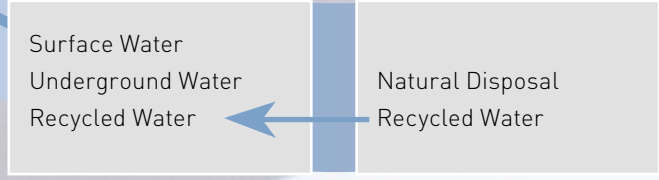


- Easy to install and to modify
- Approvals from major classification societies
- Reliable and long-lasting systems
- Highly skilled technical support

Waste Water

Industry Municipal

- Chemical Injection Systems
- Filtration Systems
- Water Disinfection Systems
- Water Injection Systems



Industrial

→ Make Up Water & Industrial Water

Chemical Process Industry

The production of chemicals and basic industrial products require treated water as part of the product, the rinse of the product or heat exchange of the product or facility. In each case, the GF Piping Systems solutions from SYGEF® (PVDF) to PVC-U offer economical corrosion-free piping to process the water. GF Piping Systems products offer clean, inert materials that ensure the highest grade of water for all phases of water treatment and water distribution.

The water treatment systems (e.g. reverse osmosis, water softening, filtration, etc.) feeding boilers, cooling systems and pre-treatment to the water systems that produce high-purity water can select GF Piping Systems PVC-U and PVC-C for corrosion-free, price competitive alternatives to metallic piping systems.

GF Piping Systems and instruments play a major role in transporting water and measuring flow, pH, conductivity and ORP throughout chemical, paper, automotive and power generating plants.



PVC-C in Chemical Industry.

Food and Beverage

Whether in water treatment systems, feeding boilers, cooling systems or the simple piping to the filler, GF Piping Systems fittings, valves and instrumentation offer an advanced and competitive solution.

For the state of the art manufacturing of "new age" drinks as well as traditional carbonated drinks GF Piping Systems high purity piping products (SYGEF® (PVDF), PROGEF® (PP-n) and PP-H) offer easy cleanable solutions.

Either with a traditional lime-treated, ferric flocculation water treatment process that results in elevated pH product water or with membrane systems that often produce a more acidic, poorly buffered product water, the use of GF Piping Systems plastic piping plays a critical role in preventing piping corrosion for handling these aggressive ingredient waters.



Demineralisation System in Food and Beverage with PVC and ABS.

Life Science

New biotech products, cosmetics and pharmaceuticals are requiring higher quality water for the manufacture of a wide range of products from sun tan lotion to parenteral (WFI). GF SYGEF® (PVDF) and GF® PROGEF® (PP-N) piping with GF Piping Systems fusion technologies are creating the ability to produce pharmaceutical grade water without stainless steel roughing. The GF Piping Systems state-of-the-art welding technology (BCF) provides a smoother surface than an orbital weld.

GF Piping Systems eliminates the need for passivation and as these aggressive techniques become more difficult to conduct from both an environmental and health point-of-view, the GF Piping Systems plastic alternative to sanitary and industrial stainless piping is the system of the future for the life sciences industry.



SYGEF® PVDF with BCF® fusion in Pharmaceutical Chemical dosing application.

Water Treat

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Microelectronics

With today's advanced semiconductor manufacturing technologies, the water used for product rinsing and other critical manufacturing processes is more important than ever. GF Piping Systems SYGEF® (PVDF), GF Piping Systems PROGEF® (PP-n) and GF Piping Systems PP-H piping using GF Piping Systems fusion technologies make it possible to produce and maintain the highest purity water from a chemical (both organic and inorganic) and a biological standpoint. These inert piping materials allow the water distribution system to maintain its purity throughout the manufacturing facility.

For electronic circuits, GF Piping Systems PVC-U and PVC-C offer economical solutions to treat and distribute water for rinsing purposes where eliminating piping corrosion is the greatest concern. GF Piping Systems flow and analytical instruments and valving control offer complete systems for process water treatment distribution and neutralization of wastewater.



SYGEF® PVDF with IR® welding in the Semiconductor Industry.

Ship Building

The key in ship building is to use the materials of the lightest weight, with extensive piping systems found on all vessels, especially cruise ships, piping materials from GF Piping Systems are meeting the low weight demands, while eliminating the corrosion that is an inherent handicap to all metallic products used to build sea-going vessels.

The process of desalination, softening, Reverse Osmosis and chemical dosing will be beneficially accomplished with our combination of plastic valves, fittings, pipes, measurement and control systems.



Water Treatment system for Ship Building with PVC-C and PE 100 piping and actuated valves for process control.

Municipal

→ Drinking Water & Waste Water

Aquaparks

Swimming pools, aquatic parks and aquariums need accurate, reliable and price advanced water treatment facilities. Adapted to the requirements we offer solutions securing fast installation and long-lasting performance.

Drinking Water Plants

For public utilities such as drinking water or municipal desalination plants, the challenge of corrosion is driven by high levels of chlorine, chlorine dioxide, salts or general exposure to the weather or ground water.

GF Piping Systems piping and instruments play a major role in transporting water, controlling and measuring flow, pH, conductivity and ORP throughout public water utilities without the risk of corrosion. GF Piping Systems has the package for the water works.

Waste Water Plants

Waste Water Plants must be built to last. Our total solutions, from valves to instrumentation are specially made for you. As a total package they offer added value solutions for all your needs.



Reverse Osmosis in PVC-U for Municipal membrane systems.



Systems for the chemical stage of a major sewage treatment plant.

Water Treatment

GF Piping Systems → worldwide at home



Our sales companies and representatives ensure local customer support in over 100 countries.

Please find more information concerning Water Treatment:
www.piping.georgfischer.com → Solutions → Water Treatment

The technical data is not binding and not an expressly warranted characteristic of the goods.
 It is subject to change. Please consult our General Conditions of Supply.

Australia

George Fischer Pty Ltd
 Kingsgrove NSW 2008
 Phone +61(0)2/95 54 39 77
australia.ps@georgfischer.com
www.georgfischer.com.au

Austria

George Fischer
 Rohrleitungssysteme GmbH
 3130 Herzogenburg
 Phone +43(0)2782/856 43-0
austria.ps@georgfischer.com
www.georgfischer.at

Belgium/Luxembourg

George Fischer NV/SA
 1070 Bruxelles/Brüssel
 Phone +32(0)2/556 40 20
be.ps@georgfischer.com
www.georgfischer.be

Brazil

George Fischer Ltda
 04795-100 São Paulo
 Phone +55(0)11/5687 1311
br.ps@georgfischer.com

China

George Fischer Piping Systems Ltd Shanghai
 Pudong, Shanghai 201319
 Phone +86(0)21/58 13 33 33
china.ps@georgfischer.com
www.cn.piping.georgfischer.com

Denmark/Iceland

Georg Fischer A/S
 2630 Taastrup
 Phone +45 (0)70 22 19 75
info.dk.ps@georgfischer.com
www.georgfischer.dk

France

George Fischer S.A.S.
 93208 Saint-Denis Cedex 1
 Phone +33(0)1/492 21 34 1
fr.ps@georgfischer.com
www.georgfischer.fr

Germany

George Fischer GmbH
 73095 Albershausen
 Phone +49(0)7161/302-0
info.de.ps@georgfischer.com
www.vgd.georgfischer.de

George Fischer DEKA GmbH
 35232 Dautphetal-Mornshausen
 Phone +49(0)6468/915-0
deka.ps@georgfischer.com
www.dekapipe.de

India

George Fischer Piping Systems Ltd
 400 093 Mumbai
 Phone +91(0)22/2820 2362
in.ps@georgfischer.com

Italy

Georg Fischer S.p.A.
 20063 Cernusco S/N (MI)
 Phone +3902/921 861
it.ps@georgfischer.com
www.georgfischer.it

Japan

Georg Fischer Ltd
 556-0011 Osaka,
 47500 Subang Jaya
 Phone +81(0)6/6635 2691
jp.ps@georgfischer.com
www.georgfischer.jp

Malaysia

Georg Fischer (M) Sdn. Bhd.
 47500 Subang Jaya
 Phone +60 (0)3-8024 7879
conne.kong@georgfischer.com.my

Netherlands

Georg Fischer N.V.
 8161 PA Epe
 Phone +31(0)578/678 222
nl.ps@georgfischer.com
www.georgfischer.nl

Norway

Georg Fischer AS
 1351 Rud
 Phone +47(0)67 18 29 00
no.ps@georgfischer.com
www.georgfischer.no

Poland

Georg Fischer Sp. z o.o.
 02-226 Warszawa
 Phone +48(0)22/313 10 50
poland.ps@georgfischer.com
www.georgfischer.pl

Romania

Georg Fischer
 Rohrleitungssysteme AG
 70000 Bucharest - Sector 1
 Phone +40(0)1/222 91 36
ro.ps@georgfischer.com

Singapore

George Fischer Pte Ltd
 417 845 Singapore
 Phone +65(0)67 47 06 11
sgp.ps@georgfischer.com
www.georgfischer.com.sg

Spain/Portugal

Georg Fischer S.A.
 28046 Madrid
 Phone +34(0)91/781 98 90
es.ps@georgfischer.com
www.georgfischer.es

Sweden/Finland

Georg Fischer AB
 12523 Älvsjö-Stockholm
 Phone +46(0)8/506 775 00
se.ps@georgfischer.com
www.georgfischer.se

Switzerland

Georg Fischer Rohrleitungssysteme (Schweiz) AG
 8201 Schaffhausen
 Phone +41(0)52 631 30 26
ch.ps@georgfischer.com
www.piping.georgfischer.ch

United Kingdom/Ireland

George Fischer Sales Limited
 Coventry, CV2 2ST
 Phone +44(0)2476 535 535
uk.ps@georgfischer.com
www.georgfischer.co.uk

USA/Canada/Latin America/Caribbean

George Fischer Inc.
 Tustin, CA 92780-7258
 Phone +1(714) 731 88 00, Toll Free 800/854 40 90
us.ps@georgfischer.com
www.us.piping.georgfischer.com

Export

Georg Fischer Rohrleitungssysteme (Schweiz) AG
 8201 Schaffhausen
 Phone +41(0)52 631 11 11
export.ps@georgfischer.com
www.piping.georgfischer.com