

Polypropylene Welded Systems

PROGEF Standard
PROGEF Plus
PROGEF Natural

Universal use, outstanding chemical
and temperature resistance,
easy to join by different welding
technologies



The system

PROGEF – more than a system

The outstanding material for any challenge in industrial applications

We are dedicated to designing, manufacturing and marketing piping systems for the safe and secure treatment or conveyance of water, liquids, chemicals and gases. As a leading piping systems provider with global presence, we offer our customers not only reliable and innovative products of highest quality, but we supply also tailor-made solutions from one source. In close coordination with end-customers and based on their needs, GF Piping Systems introduced the PROGEF family, a specified polypropylene system based on certified raw material, serving a wide variety of industrial applications. Thanks to its beneficial mechanical properties, chemical resistance, outstanding weldability and especially its high resistance to thermal distortion, the PROGEF systems guarantee a maximum of safety, reliability and performance.



+ Individuality – from the planning stage to installation

PROGEF Welded Systems are ideally adapted to customer needs

Whether installed above or below ground, our system meets any demanding requirement, in every phase of the project, worldwide. Therefore, the variety of our product portfolio is as diverse as our customers and their individual challenges. Together with high level services such as technical support, low- or single-item customizing production and training courses, our specific system range generates exceptional added value for our customers.

With a comprehensive piping system solution, comprised of pipes, fittings, valves, related jointing as well as automation technologies in high quality thermoplastics, GF Piping Systems provides the right fit and quality for many industrial media conveyance systems and for many industrial applications.

Customizing

The focus of our worldwide located customizing teams is manufacturing custom parts for special systems. Standardized processes guarantee the highest level of quality.

Technical support

Technical support such as material selection is a key factor for a successful installation. A team of experts is available for individual support all around the world.



Pipes



Fittings



Manual valves

PROGEF Standard – for a wide range of industrial applications

The highly resistant system offers numerous fields of application in industries. High stress fracture, pressure, abrasion, corrosion and temperature resistance are only some of the advantageous characteristic properties for the durable polypropylene system. Its fine, homogeneous material structure furthermore offers outstanding weldability and low heat distortion.



PROGEF Plus – for defined water qualities and clean applications

Cleaned and packed in specified processes, the silicone-free or oil-free PROGEF Plus system has a high pureness factor. The system is widely used in demanding applications in microelectronics or coating and surface treatment, where features such as an outstanding surface finish and excellent leach-out characteristics offer additional benefit. The components are double-bagged to ensure cleanliness and prevent contamination before installation.



PROGEF Natural – for laboratories and pharmaceutical applications

Wherever pure solutions are needed, especially for applications in chemical or life science industries, PROGEF Natural is predestined. Beneficial properties of the transparent, pigment-free polypropylene such as excellent clean, smooth surface, high chemical and temperature resistance, and additionally the bead and crevice free jointing technologies, ensure highest system quality.



Technical documentation

Our extensive know-how of more than 50 years is fully documented in detail in our technical manuals, planning fundamentals and application guides.

Chemical resistance

In the area of chemical resistance our specialist teams offer individual support and advice in selecting the right material for the corresponding requirements.

Online and mobile calculation tools

Our numerous online and mobile calculation tools, available in many different languages, support our customers in configuring and commissioning automation products.

CAD library

The extensive CAD library is the most frequently used planning tool. The freely available database comprises over 30 000 drawings as well as technical data for our customers. Many formats are available.

Training courses and on-site training

Offering a wide range of training courses we provide participants an excellent opportunity to gain confidence in working with our products and proven jointing technologies.

System lifetime warranty *

Confirming confidence in the premium quality of our Polypropylene product and system range, we grant a limited system lifetime warranty.



Automation



Jointing technology



Customizing and training

System range

Everything from one source

With a constant focus on maximum reliability and safety the PROGEF systems assure a sustained high level of product quality and outstanding performance standards in all applications. The clearly defined development and manufacturing processes of our worldwide specified systems are carried out on the basis of all relevant standards and specifications and are regularly audited and evaluated to achieve continuous improvement. Certified processes as well as product approvals are part of the active and sustainable quality management system of GF Piping Systems and makes us a reliable partner. Therefore, with our PROGEF welded system range, our customers can be assured that their needs are covered and comply with necessary standards.

PROGEF Standard & PROGEF Plus

| Products | d | | DN | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|----|-----------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | SDR | PN | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 |
| Pipes | 7.4 | 16 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Socket fusion fittings | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Butt fusion fittings, Infrared (IR) compatible | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Ball valves | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Diaphragm valves | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Butterfly valves | | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11/17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Check vales | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure regulating valves | 11 | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17.6 | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventilating and bleed valve | | 10 | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | PROGEF Standard | | | | | | | | | | | | | | | | | | | | | | | | |
| Automation | | | upon request | | | | | | | | | | | | | | | | | | | | | | | | |
| Flanges PP-V / PP-steel | | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| Flange seals EPDM / FPM | | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| Pipe clips PP / PE | | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |

| Welding machines | d | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 |
|-------------------------------|---|-------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Socket fusion machines | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| Butt fusion machines | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |
| Infrared (IR) fusion machines | | PROGEF Plus | | | | | | | | | | | | | | | | | | | | | | | | |

System specification



* Standards:



PROGEF Standard & PROGEF Plus

| | PROGEF Standard | PROGEF Plus |
|--|---|---|
| Systems | | |
| Material | - d16–d225 β PP-H 100 (β Polypropylene Homopolymer) - d250–d500 state-of-the-art PP | - d20–d225 β PP-H 100 (β Polypropylene Homopolymer) - d250–d315 state-of-the-art PP |
| Colour | RAL 7032 | RAL 7032 |
| Density | ~ 0.90 g / cm ³ (ISO 1183 / ASTM D 792) | ~0.90 g / cm ³ (ISO 1183/ASTM D 792) |
| Thermal expansion coefficient | 0.16mm / mK (DIN 53753) | 0.16mm / mK (DIN 53753) |
| Thermal conductivity | 0.23W / mK (EN 12664) | 0.23W / mK (EN 12664) |
| Surface resistivity | > 1016 Ω (IEC 60093) | > 1016 Ω (IEC 60093) |
| Dimensions | d16–d500 in accordance to EN ISO 15494 | d20–d315 in accordance to EN ISO 15494 |
| Surface condition | accordance to EN ISO 15494 | - Inner surface Ra < 1.0 μm (39μin) for components d20–d110 - Inner surface Ra < 1.5 μm (59μin) for components d125–d315 |
| Material- and product-approvals | FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic) DIBt (Z-40.23-4, Z-40.34-264, Z - 40.23-265) DNV (K-2630, K - 2636) Lloyd's Register (01/20030(E1)) | FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic) |
| Packaging | pipes, fittings and valves bulk bagged | pipes, fittings and valves, each component double bagged |
| Marking | - brand name - product description - article number - material - dimensions - standards and approvals | - brand name - product description - article number - material - dimensions - standards and approvals |

* Approvals / Acceptance:



* The most significant standards and approvals are shown above. An overview of all approvals online: www.gfps.com

System range & system specification



*** Standards:**



PROGEF Natural

| Products | SDR PN | | d | | | | | | | | | |
|--|--------|----|----|----|----|----|----|----|----|--------------|-----|--|
| | DN | 15 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | |
| Pipes | 11 10 | | | | | | | | | | | |
| | 17.6 6 | | | | | | | | | | | |
| Butt fusion fittings, Infrared (IR) compatible | 11 10 | | | | | | | | | | | |
| | 17.6 6 | | | | | | | | | | | |
| Sanitary adapter | 11 10 | | | | | | | | | | | |
| Ball valves PP-H body/PP-R | 11 10 | | | | | | | | | | | |
| Ball valves PP-H Flange connections | 10 | | | | | | | | | | | |
| Diaphragm valves PP-R | 11 10 | | | | | | | | | | | |
| Diaphragm valves PP-H Flange connections | 10 | | | | | | | | | | | |
| Butterfly valves PP-H | 10 | | | | | | | | | | | |
| Cone check vales PP-H body/PP-R | 11 10 | | | | | | | | | | | |
| Cone check vales PP-H Flange connections | 10 | | | | | | | | | | | |
| Automation | | | | | | | | | | upon request | | |
| Flanges PP-V / PP-steel | | | | | | | | | | | | |
| Flange seals EPDM / FPM | | | | | | | | | | | | |
| Pipe clips PP / PE | | | | | | | | | | | | |

| Welding machines | d | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 |
|-------------------------------|---|----|----|----|----|----|----|----|----|-----|
| Butt fusion machines | | | | | | | | | | |
| Infrared (IR) fusion machines | | | | | | | | | | |
| BCF fusion machine | | | | | | | | | | |

| | |
|--|--|
| System | PROGEF Natural |
| Material | d20-d110 PP-R (Polypropylene Random Copolymer) |
| Colour | pigment-free, transparent |
| Density | ~ 0.90g / cm ³ (ISO 1183/ ASTM D 792) |
| Thermal expansion coefficient | 0.15mm / m°K (DIN 53752) |
| Thermal conductivity | 0.23W / mK (EN 12664) |
| Surface resistivity | > 1016 Ω (IEC 60093) |
| Dimensions | d20–d110 according to EN ISO 15494 |
| Surface condition | Inner surface: Ra < 1.0 μm (39μin) |
| Material- and product approvals | FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic) Food conformity (D) |
| Packaging | pipes, fittings and valves, each component single bagged |
| Marking | - brand name - product description - article number - material - dimensions - standards and approvals |

*** Approvals / Acceptance:**



*** Sanitary adaptor Standards:**

ISO, DIN, ASME BPE, 3A, JIS

* The most significant standards and approvals are shown.

An overview of all approvals online: www.gfps.com

Joining methods

Proven technologies for your installation

A large diversity of innovative and intelligent welding solutions enriched with global training and service offerings

As a pioneer in the field, GF Piping Systems has always been placing a high priority on developing innovative joining techniques to fulfill specific requirements and materials in use. Simplicity in application, chemical resistance, thermal stability and long-term weld strength are the key drivers in our joining technologies. With a global joining training program, international machine rental and a world-wide network of service centres, our customers benefit from expert know-how and practical experience.

Welding technology

Socket fusion

The strong, fast and easy solution to produce heavy-duty connections in the workshop or on field.

Welding machine



Joint cross-section

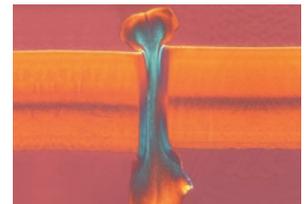


Macro-image



Butt fusion

The economical connection, especially for bigger diameters. From manual machines to full CNC control versions including traceability function.



IR-Plus (Infrared) fusion

The fast, repeatable and clean welding via non-contact heating. Full traceability of the welding process with user guideline.



BCF-Plus fusion

Smooth bead and Crevice Free jointing with high welding factor, low stress, completely smooth with no intrusions in the fusion zone.



For more information about training courses from GF Piping Systems please contact our local sales companies.

Specifications

Exceeding quality standards

Technical specifications with focus on pressure-/temperature attributes

PROGEF Systems*

Standard - Plus - Natural

PROGEF Systems out of polypropylene show excellent physical properties and mechanical characteristics, indicating its status as a highly versatile and universal solution. Having a high operational temperature range and ensuring outstanding chemical resistance, high abrasion resistance and high impact strength values, the material meets all requirements of demanding industrial conditions or environments.

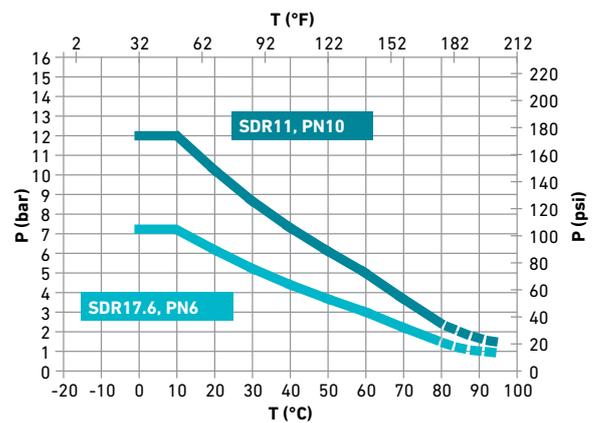
Furthermore, properties such as low weight, low density, minimum internal stresses and an excellent smooth internal surface with high finish quality, make PROGEF systems a high-grade piping material.

According to the 10°C line in the hydrostatic strength curve for PP, a permissible pressure of 12.0 bar / 7.4 bar in the temperature range of 0°C to +10°C for the SDR11 / PN10 and SDR17.6 / PN6 system can be applied.

- P** Permissible pressure in bar, psi
T Temperature in °C (Celsius), °F (Fahrenheit)

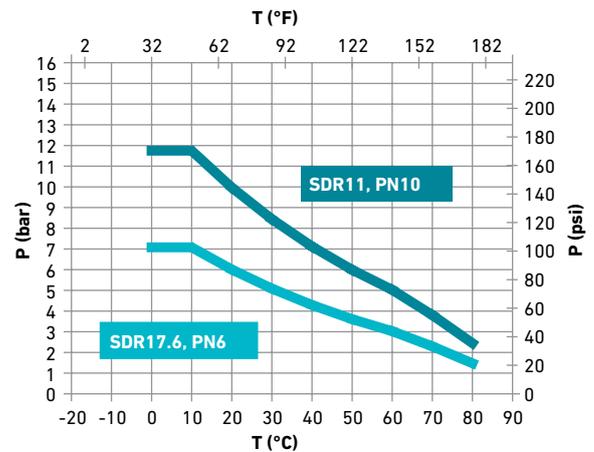
PROGEF Standard (PP) and PROGEF Plus (PP)

Pressure-Temperature Diagram



PROGEF Natural (PP-R)

Pressure-Temperature Diagram



The pressure-/temperature curve based on medium water, operating temperature of 20 °C, valid life time of 25 years and the design factor C = 2.

*More information regarding technical specifications can be found online in our planning fundamentals: www.gfps.com

Chemical resistance

For your operational safety



Professional material technology

Polypropylene (PP) - a high quality material with outstanding characteristics for a safe and efficient operation

Chemical resistance at 20 °C

(Applications can be very dependent on the concentration)

| Media | Chemicals | Partially crystalline thermoplastics | | | Amorphous thermoplastics | | Stainless Steel | |
|--|--|--------------------------------------|----|------|--------------------------|-------|-----------------|------------|
| | | PP | PE | PVDF | PVC-U | PVC-C | 1.4401 316 | 1.4301 304 |
| Oxidizing Acids (HNO ₃ , H ₂ CrO ₄ , H ₂ SO ₄ , etc.) | HNO ₃ ≤ 25 % | o | o | + | + | + | o | o |
| | 25 % ≤ HNO ₃ ≤ 65 % | - | o | + | o | + | o | o |
| | H ₂ CrO ₄ aqueous solution | o | o | + | o | o | o | o |
| | H ₂ SO ₄ ≤ 70% | + | + | + | + | + | - | - |
| | 70 % ≤ H ₂ SO ₄ ≤ 96 % | - | - | + | + | + | - | - |
| Non Oxidizing Acids (HCl, HF, etc.) | HCl ≤ 30 % | + | + | + | + | + | o | - |
| | HF ≤ 40 % | + | + | + | + | - | o | - |
| | 40 % ≤ HF ≤ 75 % | + | + | + | - | - | - | - |
| Organic (formic acid, acetic acid, citric acid, etc.) | HCOOH ≤ 25 % | + | + | + | + | + | o | - |
| | 25 % ≤ HCOOH ≤ tech. pure | + | + | + | + | - | o | - |
| | CH ₃ COOH ≤ 50 % | + | + | + | + | + | o | - |
| | 50 % ≤ CH ₃ COOH ≤ tech. pure | + | + | + | o | - | o | - |
| Bases | C ₃ H ₄ OH (COOH) ₃ | + | + | + | + | + | o | - |
| | Inorganic (NaOH, KOH, etc.) | + | + | - | + | o | + | + |
| | Organic (amine, imidazole, etc.) | + | + | - | o | - | o | o |
| Salts | NaCl, FeCl ₂ , FeCl ₃ , CaCl ₂ , etc. | + | + | + | + | + | o | o |
| Halogens | Chlorine, bromine, iodine, (no fluorine) | - | - | o | o | o | o | - |
| Fuels / Oils | Aliphatic hydrocarbons | o | o | + | + | o | + | + |
| | Aromatic hydrocarbons | - | - | + | - | - | + | + |
| | Chlorinated hydrocarbons | - | - | o | - | - | o | o |
| Solvents | Ketones | + | + | o | - | - | + | + |
| | Alcohols | + | + | + | o | - | + | + |
| | Esters | o | o | o | - | - | + | + |
| | Aldehydes | + | + | - | - | - | + | + |
| | Phenols | Phenol, Cresol, etc. | + | + | + | - | - | + |

+ resistant o conditionally resistant, please consult us - not resistant

Please note: The above list is only intended as a guideline and does not replace an indepth review of material suitability for the particular application. The information is based on our experience and is state of the art. These data are general indicators only. In practice, however, other factors such as concentration, pressure and jointing technology must also be taken into consideration. The technical data are not binding and are not expressly warranted characteristics of the goods.

Please contact us for help in selecting the right materials.

The smarter way of automation

Automation made easy

A unique system-based approach that bundles and integrates competencies, knowledge, best-in-class resources and technologies.

With an innovative product portfolio in the field of measurement, control and actuation devices, GF Piping Systems follows its system approach consistently. The complete solution combines measurement, control and actuation technology together with high quality piping systems and therefore represents a unique form of product and competence bundling. The system-integrated devices that measure values such as temperature, pressure and flow deliver accuracy, productivity, reliability and safety to customers in a wide range of industries. Providing the entire range of automation technology from simple instrument panels to complex measurement installations, GF Piping Systems has not only the product resources and the technical know how, but also the global service and support infrastructure needed to meet the high customer requirements.



Applications

As versatile as your applications

Leading applications enabled by safe and reliable systems adapted to fit the needs of demanding industries

GF Piping Systems develops customized best-in-class solutions, aligned to the specific requirements of our customers in various sectors of industry, enabling profitable operation. Most notably our systems are ideally suited for the water treatment, pharmaceutical and chemical process industry, in fields of microelectronics and energy as well as in food & beverage production. With our system knowledge and product expertise, we support our customers during the planning process, the sustainable realization of the projects and provide valuable added services. Expertise in developing and producing piping systems, combined with profound industry and market knowledge, based on long-standing experience, makes GF Piping Systems a qualified and professional partner for our customers.

Applications of Highest Security in Chemical Industry

The usage of PROGEF Standard systems in chemical processes strengthens the industries approach of manufacturing and conveying chemical media in the safest and at the same time most economical way.



Clean Water Applications in Microelectronics

Wherever defined water qualities and controlled processes are required PROGEF Plus offers reliable and economical system solutions. With PROGEF Plus high purity water specifications and quality standards are dependably met.



Demanding Applications in Water Treatment

With PROGEF system, application processes in water treatment can be designed reliable and of highest efficiency. Thereby, challenges such as guaranteeing high water quality and assuring stringent regulations can be faced.



Highly Specialised Applications in Energy Production

For secure processing in water and chemical applications PROGEF Standard system combines high performance utilization with outstanding material properties. This leads to a beneficial gain in conditions of safety and health.



Worldwide at home

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

www.gfps.com

Argentina / Southern South America

Georg Fischer Central Plastics
Sudamérica S.R.L.
Buenos Aires, Argentina
Phone +54 11 4512 02 90
gfcentral.ps.ar@georgfischer.com
www.gfps.com/ar

Australia

George Fischer Pty Ltd
Riverwood NSW 2210 Australia
Phone +61 (0) 2 9502 8000
australia.ps@georgfischer.com
www.gfps.com/au

Austria

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

Belgium / Luxembourg

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

Brazil

Georg Fischer Sist. de Tub. Ltda.
04795-100 São Paulo
Phone +55 (0) 11 5525 1311
br.ps@georgfischer.com
www.gfps.com/br

Canada

Georg Fischer Piping Systems Ltd
Mississauga, ON L5T 2B2
Phone +1 (905) 670 8005
Fax +1 (905) 670 8513
ca.ps@georgfischer.com
www.gfps.com/ca

China

Georg Fischer Piping Systems Ltd
Shanghai 201319
Phone +86 21 3899 3899
china.ps@georgfischer.com
www.gfps.com/cn

Denmark / Iceland

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

Finland

Georg Fischer AB
01510 VANTAA
Phone +358 (0) 9 586 58 25
Fax +358 (0) 9 586 58 29
info.fi.ps@georgfischer.com
www.gfps.com/fi

France

Georg Fischer SAS
95932 Roissy Charles de Gaulle Cedex
Phone +33 (0) 1 41 84 68 84
fr.ps@georgfischer.com
www.gfps.com/fr

Germany

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

India

Georg Fischer Piping Systems Ltd
400 076 Mumbai
Phone +91 224007 2001
branchoffice@georgfischer.com
www.gfps.com/in

Indonesia

George Fischer Pte Ltd –
Representative Office
Phone +62 21 2900 8564
Fax +62 21 2900 8566
sgp.ps@georgfischer.com
www.gfps.com/sg

Italy

Georg Fischer S.p.A.
20063 Cernusco S/N (MI)
Phone +39 02 921 861
it.ps@georgfischer.com
www.gfps.com/it

Japan

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

Korea

GF Piping Systems
Georg Fischer Korea Co., Ltd.
Unit 2501, U-Tower
120 HeungdeokJungang-ro (Yeongdeok-dong)
Giheung-gu, Yongin-si, Gyeonggi-do, Korea
Phone: +82 31 8017 1450
Fax: +82 31 217 1454
kor.ps@georgfischer.com
www.gfps.com/kr

Malaysia

George Fischer (M) Sdn. Bhd.
40460 Shah Alam, Selangor Darul Ehsan
Phone +60 (0) 3 5122 5585
Fax +603 5122 5575
my.ps@georgfischer.com
www.gfps.com/my

Mexico / Northern Latin America

Georg Fischer S.A. de C.V.
Apodaca, Nuevo Leon
CP66636 Mexico
Phone +52 (81) 1340 8586
Fax +52 (81) 1522 8906
mx.ps@georgfischer.com
www.gfps.com/mx

Middle East

Georg Fischer
Piping Systems (Switzerland) Ltd
Dubai, United Arab Emirates
Phone +971 4 289 49 60
gcc.ps@georgfischer.com
www.gfps.com/int

Netherlands

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

Norway

Georg Fischer AS
1351 Rud
Phone +47 67 18 29 00
no.ps@georgfischer.com
www.gfps.com/no

Philippines

George Fischer Pte Ltd
Representative Office
Phone +632 571 2365
Fax +632 571 2368
sgp.ps@georgfischer.com
www.gfps.com/sg

Poland

Georg Fischer Sp. z o.o.
05-090 Sekocin Nowy
Phone +48 (0) 22 31 31 0 50
poland.ps@georgfischer.com
www.gfps.com/pl

Romania

Georg Fischer
Piping Systems (Switzerland) Ltd
020257 Bucharest - Sector 2
Phone +40 (0) 21 230 53 80
ro.ps@georgfischer.com
www.gfps.com/int

Russia

Georg Fischer
Piping Systems (Switzerland) Ltd
Moscow 125047
Phone +7 495 258 60 80
ru.ps@georgfischer.com
www.gfps.com/ru

Singapore

George Fischer Pte Ltd
11 Tampines Street 92, #04-01/07
528 872 Singapore
Phone +65 6747 0611
Fax +65 6747 0577
sgp.ps@georgfischer.com
www.gfps.com/sg

Spain / Portugal

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

Sweden

Georg Fischer AB
117 43 Stockholm
Phone +46 (0) 8 506 775 00
info.se.ps@georgfischer.com
www.gfps.com/se

Switzerland

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

Taiwan

Georg Fischer Co., Ltd
San Chung Dist., New Taipei City
Phone +886 2 8512 2822
Fax +886 2 8512 2823
www.gfps.com/tw

United Kingdom / Ireland

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

USA / Caribbean

Georg Fischer LLC
9271 Jeronimo Road
92618 Irvine, CA
Phone +1 714 731 88 00
Fax +1 714 731 62 01
us.ps@georgfischer.com
www.gfps.com/us

International

Georg Fischer
Piping Systems (Switzerland) Ltd
8201 Schaffhausen/Switzerland
Phone +41 (0) 52 631 30 03
Fax +41 (0) 52 631 28 93
info.export@georgfischer.com
www.gfps.com/int

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