



CERT

# DVGW-Baumusterprüfzertifikat

## DVGW type examination certificate

DG-4394BU0121

Registriernummer  
registration number

<b>Anwendungsbereich</b> <i>field of application</i>	Produkte der Gasversorgung <i>products of gas supply</i>
<b>Vertreiber</b> <i>distributor</i>	Georg Fischer Piping Systems Ltd. Ebnatstrasse 111, CH-8201 Schaffhausen
<b>Produktart</b> <i>product category</i>	Gasarmaturen: Absperrarmatur aus PE-HD (4394)
<b>Produktbezeichnung</b> <i>product description</i>	Absperrarmatur in Durchgangsform aus Polyethylen (PE 100) mit kugelförmigem Abschlusskörper
<b>Modell</b> <i>model</i>	Polyvalve
<b>Prüfberichte</b> <i>test reports</i>	Kontrollprüfung Labor: 20/1146/4394/017 vom 21.12.2020 (EBI) Baumusterprüfung: 08/080/4394/994 vom 20.02.2009 (EBI)
<b>Prüfgrundlagen</b> <i>test basis</i>	DVGW VP 302 (01.06.2006)

**Ablaufdatum / AZ** 20.02.2024 / 21-0015-GNV  
*date of expiry / file no.*

70028-04-A-DE

12.02.2021 Rie B-1/2

Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle  
*date, issued by, sheet, head of certification body*

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.



Deutsche  
Akkreditierungsstelle  
D-ZE-16028-01-05

DVGW CERT GmbH  
Zertifizierungsstelle

Josef-Wirmer-Str. 1-3  
53123 Bonn

Tel. +49 228 91 88 - 888  
Fax +49 228 91 88 - 993

www.dvgw-cert.com  
info@dvgw-cert.com

<b>Gasart</b> <i>gas category</i>	<b>Bemerkungen</b> <i>remarks</i>
Brenngase nach G260	

<b>Typ</b> <i>type</i>	<b>Technische Daten</b> <i>technical data</i>	<b>Bemerkungen</b> <i>remarks</i>
Polyvalve	Nenndurchmesser: 50 mm	
Polyvalve	Nenndurchmesser: 63 mm	
Polyvalve	Nenndurchmesser: 90 mm	
Polyvalve	Nenndurchmesser: 110 mm	
Polyvalve	Nenndurchmesser: 125 mm	
Polyvalve	Nenndurchmesser: 160 mm	
Polyvalve	Nenndurchmesser: 180 mm	
Polyvalve	Nenndurchmesser: 200 mm	
Polyvalve	Nenndurchmesser: 225 mm	

**Verwendungshinweise / Bemerkungen*****hints of utilization / remarks***

Anschlussart: beiderseitig Rohrstützen aus PE 100 (SDR 11)  
Umgebungstemperaturbereich: -20...+60 °C  
Zul. Betriebsdruck: 10 bar

ELGEF Plus ball valve

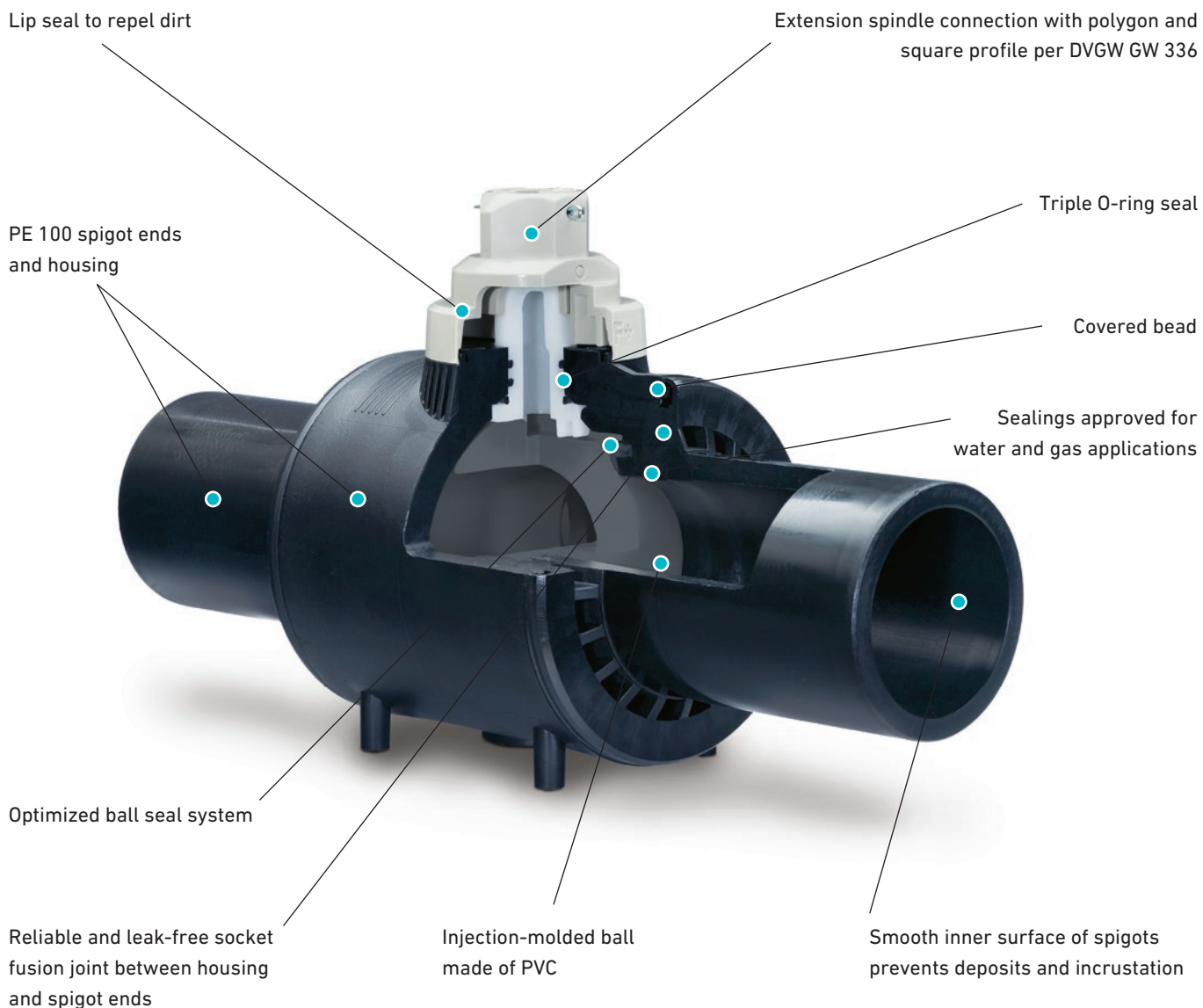
# Reliable and efficient



## Features

# Maintenance-free, flexible and corrosion-resistant

The ELGEF Plus ball valves from GF Piping Systems have been specially designed for underground gas and water distribution piping systems. Made entirely of plastic, they are corrosion resistant and maintenance-free. This ensures a service life of well over 50 years. The ball valves can be flexible and easy connected to other components of the modular ELGEF Plus system.



## Benefits

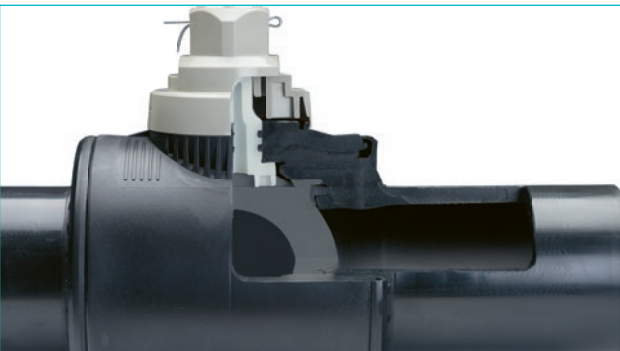
# Highest level of quality and reliability

GF Piping Systems focused on two main aspects during the product development: safety and system compatibility. The result is a comprehensive range of products with numerous connection options and diverse accessories. The ELGEF Plus ball valve (d20–d110 mm) is an absolute lightweight and its handling is not at all complicated. Thanks to the homogenous, reliable and leak-free jointing method of electrofusion, the complete piping network can be constructed in PE materials.



### Safety

- Effective ball seal for a safety reserve
- Robust stops in open and closed positions
- Valve position (open/closed) is indicated
- Low actuating torque for easy operation
- Triple O-ring seal to cover extreme operating conditions
- Traceability barcode (d20–d110 mm) for complete traceability of all valve components and materials
- DVGW approval for gas- (d20–d225 mm) and water applications (d20–d110 mm)



### Simplicity

- Maintenance-free
- Easy connection of extension spindle according to the uniform standard DVGW GW336
- Easy installation with electrofusion or butt fusion technology
- One product for gas- and water applications



### Efficiency

- Full compatible with components from the ELGEF Plus modular system
- Higher cost efficiency due to corrosion-free operation
- Minimal flow losses due to smooth ball surface
- Same physical and chemical characteristics of all piping components in the network (homogenous PE materials in pipe network)

Detail

# Withstands even extreme temperatures and difficult installation situations

Safety is always the highest priority in gas and water installations, which is why we have developed the ELGEF Plus ball valve further to ensure 100% tightness to the outside, even under extreme conditions. With our easy-to-use traceability label, you can check your system.



## Optimized ball seal system

The innovative sealing system for d90 and d110 mm offers you extra safety, even under the extreme installation conditions often found on building sites. With the new sealing geometry and static and dynamic sealing components, the ball is safe float and encapsulated, optimal for all situations.



## Injection-molded ball

The ball is manufactured in one piece in a modern injection moulding process, giving the ball a smooth surface, which could never be achieved with machining. This leads to optimal flow conditions in the opened position, minimizing disruptive flow turbulences and pressure losses.



## Triple O-ring seal

The triple O-ring seal of the torque transmission head ensures 100% tightness to the outside, even under extreme temperatures. This is a definite plus in terms of your safety.



## Traceability barcode

Each ball valve is equipped with a traceability barcode to ensure complete valve traceability – from the raw material batch to the fusion parameters during installation.

## System

# Solutions for all application areas

The wide dimension range of GF Piping Systems ELGEF Plus ball valves provides you with more flexibility and greater freedom in designing your systems. All components are ideally coordinated and available from one source. The training and support offered by the local GF Piping Systems team of specialists is an added value.

### Small dimensions

For the dimension range d20-d110 mm we offer the ELGEF Plus ball valve in gas and water applications.

### Supplemented by large dimensions

In the dimension range d125-d225 mm we offer our time-tested range of ball valves.

### Extension spindles

Extension spindles are available for the dimensions d20-d110 mm in the new standardized version according to DVGW GW 336 with a square profile of 20 or 25 mm. This standardization allows you to significantly reduce your inventory and cut down on storage costs. As an alternative, the conventional polygon connection can also be used.

### Drilling device W410

The W410 tapping tool from GF can be used to mount ELGEF Plus ball valves into an existing distribution network under pressure. With this installation technology, you do not have to interrupt the supply to integrate an additional outlet or extension in an existing piping system. This means considerable savings on installation costs.

### Accessories

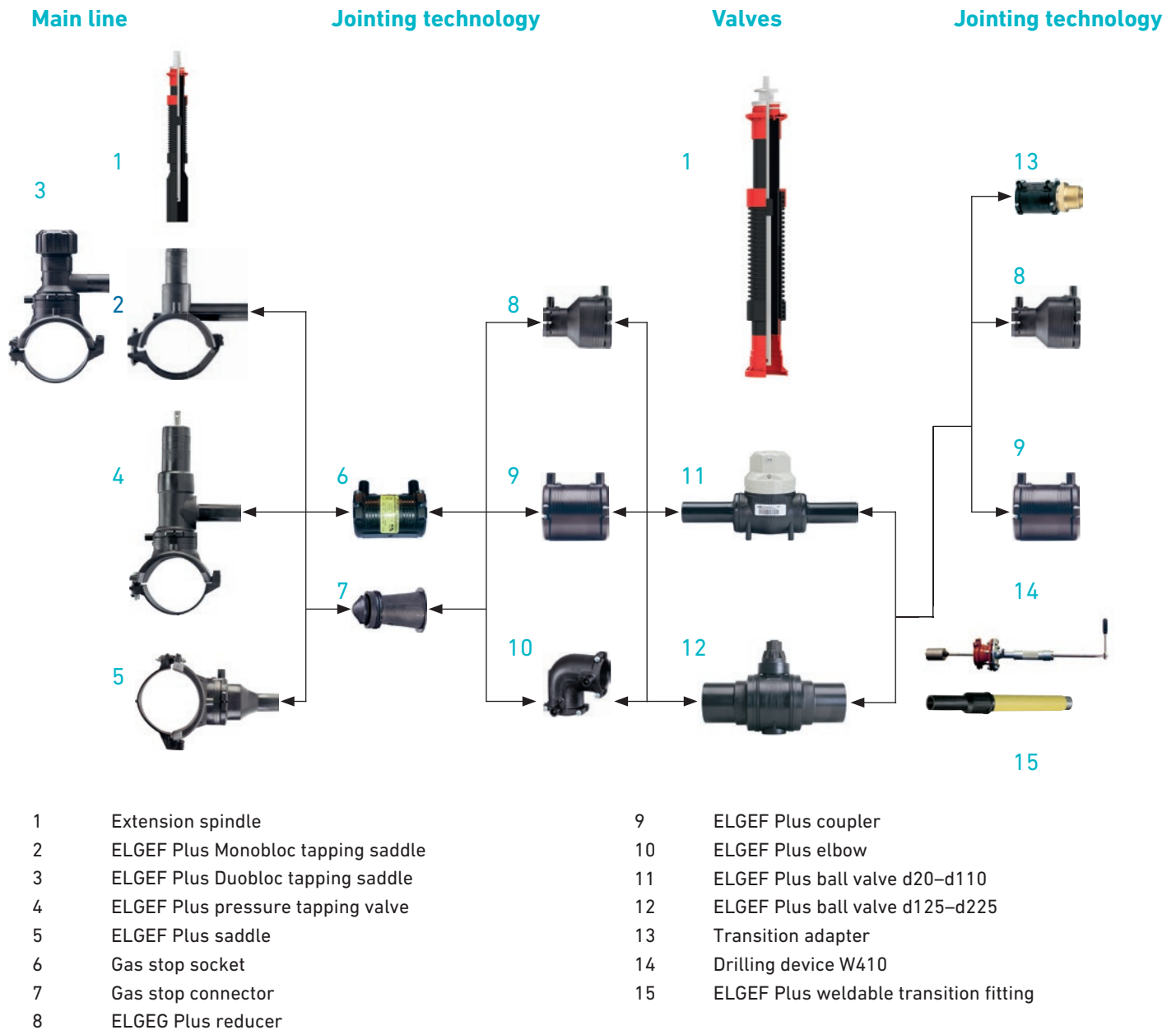
A full line of accessories is available for the ELGEF Plus ball valve, so you have a complete system for the entire piping installation.



ELGEF Plus ball valve d20-d110 mm.



# Everything fits together





## Technical data

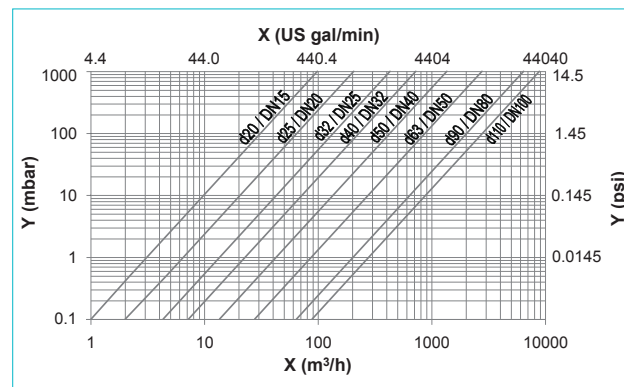
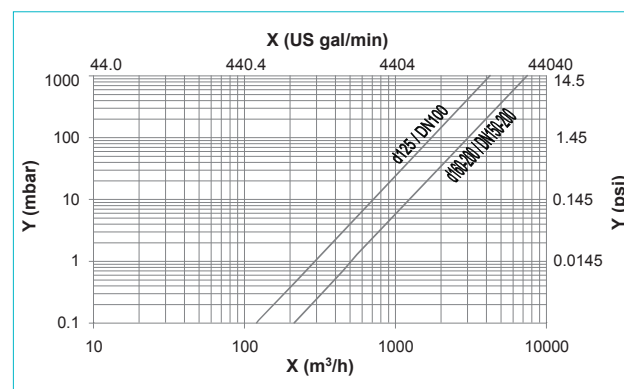
# One material for your piping system

The range of ball valves complete the ELGEF Plus electrofusion system. Its diversity of components and leaves nothing to be desired and satisfies all your requirements. Manufacture your system completely in PE 100. The benefits are obvious: corrosion resistance, cost efficiency, flexibility as well as fast and easy installation.

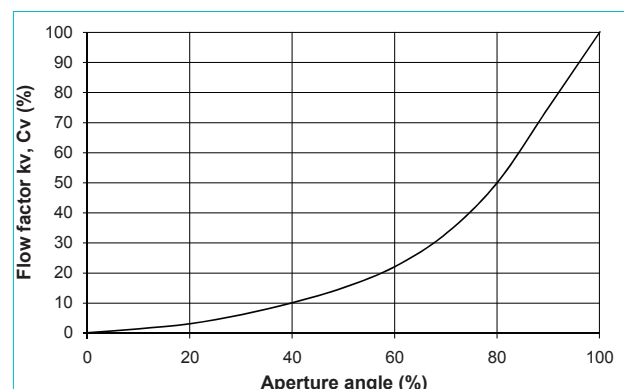
	d20–d110	d125–d225
SDR 11	✓	✓
PN 10 bar (gas)	✓	✓
PN 16 bar (water)	✓	✓
<b>Design features</b>		
Full-plastic ball valve	✓	✓
Triple O-ring seal	✓	double
Smooth inner surface prevents deposits and incrustation	✓	✓
With PE spigots acc. to EN 1555	✓	✓
Long spigot ends enable a second fusion	✓	for d225 mm
<b>Material</b>		
PE 100 housing	✓	✓
PE spigot ends of PE 100 SDR11 (ISO S5)	✓	✓
Ball	Injectionmoulded	ball machined
Torque transmission head	POM*	PP**
Gas-tight control pins of POM	✓	✓
Elastomer seals for gas and water	✓	✓
<b>Connecting elements</b>		
ELGEF Plus fittings	✓	✓
ELGEF Plus transition adaptor	✓	✓
ELGEF Plus electrofusion saddle and branch fittings	✓	✓
<b>Accessories</b>		
Extension spindle	✓	✓
Drilling device	✓	✓
Street covers	✓	✓
Base plate	on request	160–225***

\* Polyoxymethylene, \*\* Polypropylene, \*\*\* Fastening belt included.  
Bigger dimensions – up to d500 mm – are available on request.

## Pressure loss (reference value for air, 23°C) per EN 12117



Please see the assembly instructions and the "Technical Manual for Utilities" for installation and operation. Subject to technical modifications and the use of equivalent or better materials. Illustrations are not binding. More technical information available online at [www.gfps.com](http://www.gfps.com)



Flow characteristics of ELGEF Plus ball valve

# Worldwide at Home

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

[www.gfps.com](http://www.gfps.com)

## Argentina / Southern South America

Georg Fischer Central Plastics Sudamérica S.R.L.  
Buenos Aires, Argentina  
Phone +54 11 4512 02 90  
gfccentral.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

Georg Fischer Fittings GmbH  
3160 Traisen  
Phone +43 (0) 2762 90300  
fittings.ps@georgfischer.com  
www.fittings.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.  
04571-020 São Paulo/SP  
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

Chinaust Plastics Corp. Ltd.  
Songlindian, Zhuozhou city,  
Hebei province, China, 072761  
Phone +86 312 395 2000  
Fax +86 312 365 2222  
chinaust@chinaust.com  
www.chinaust.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 Pvt. Ltd  
400 083 Mumbai  
Phone +91 22 4007 2000  
Fax +91 22 4007 2020  
branchoffice@georgfischer.com  
www.gfps.com/in

## Italy

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

Georg Fischer TPA S.r.l.  
IT-16012 Busalla (GE)  
Phone +39 010 962 47 11  
tpa.ps@georgfischer.com  
www.gfps.com/it

## Japan

Georg Fischer Ltd  
530-0003 Osaka  
Phone +81 (0) 6 6341 2451  
jp.ps@georgfischer.com  
www.gfps.com/jp

## Korea

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

## Malaysia

Georg Fischer (M) Sdn. Bhd.  
40460 Shah Alam, Selangor Darul Ehsan  
Phone +60 (0) 3 5122 5585  
Fax +60 (0) 3 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

Georg Fischer Waga N.V.  
NL-8160 AG Epe  
Phone +31 (0) 578 678 378  
waga.ps@georgfischer.com  
www.waga.nl

## Norway

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

## 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 125040  
Phone +7 495 748 11 44  
ru.ps@georgfischer.com  
www.gfps.com/ru

## Singapore

Georg 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 3026  
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

Georg Fischer Central Plastics LLC  
Shawnee, OK 74801  
Phone +1 (405) 273 63 02  
gfccentral.ps@georgfischer.com  
www.centralplastics.com

## International

Georg Fischer Piping Systems (Switzerland) Ltd  
8201 Schaffhausen/Switzerland  
Phone +41 (0) 52 631 3003  
Fax +41 (0) 52 631 2893  
info.export@georgfischer.com  
www.gfps.com/int

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