

Cleaned Products

We've got you covered

Oil-free and LABS-compliant solutions



**Certified LABS-compliance
with accredited in-house testing**



LABS-compliancy



The clean solution

Years of experience and concentrated knowledge of materials and lubricants made us a leader in cleaned products and cleaned systems. Valves, fittings, and pipes from GF Piping Systems are produced under the highest standards to deliver the best quality and customer satisfaction.

According to the latest guidelines, certifying LABS-compliance with accredited in-house testing ensures that the necessary requirements are fulfilled, and our products can be used safely in demanding environments.

We developed defined cleaning and lubrication processes with extensive testing and gathered knowledge to assure best-in-class quality. Our experts support every customer with specialized knowledge, so each individual application is perfectly equipped for the tasks ahead.



+ Over 30 years of experience

Concentrated knowledge of materials and lubricants to provide the right system for every application. With technical contact at eye level to guarantee safe and reliable operation of demanding applications.

+ Accredited in-house testing

Proven reliability and our in-house experts to assure best-in-class quality and performance thanks to in-house testing capacities.

+ Complete plastic system range

One-stop shopping for cleaned fittings and valves made from high-quality plastics ensures longevity and corrosion resistance.

+ Individual customization

Individual requests can be fulfilled, and products can be cleaned on demand to fit the customers' requirements. This fully customizable solution protects from over-specification, too.

VDMA 24364 B2:

The new guideline for testing of coating compatibility

The German professional association VDMA released standardized guidelines in 2018 describing different requirements and testing procedures to classify products used in lacquer applications.

Cleaned Products by GF Piping Systems fulfill all the standards of the test category B2, proving to be safe for usage in applications with indirect lacquer contact such as pre-treatment of surfaces.



Free of paint wetting impairment substances (PWIS / LABS)

- + Interdependence of coating the system and the surface
- + Free of oils, greases, silicone, graphite, metal soap, and much more
- + No disruption of the complete and uniform coating of a surface
- + LABS-compliant products to prevent lacquer errors



LABS-compliance vs. silicone-free

To achieve LABS-compliance, products need to be silicone-free, but there are many more requirements than this. Products used in lacquering applications also need to be oil- and grease-free as well as free of PTFE-abrasion. Equating "LABS-compliance" with "silicone-free" is a common misconception resulting from years of uncertainty and unclear definitions.

Oil-free products

For water application in the microelectronic industry, contamination through installed products must be avoided. Exceptional surface finish and excellent leach-out characteristics are as important as choosing the suitable lubricants for valves. For oil-free products, only lubricants that do not significantly influence the water quality are used.

Lubrication is key

Lubrication is an essential part of all moving parts and especially of sealings. Without lubrication, these parts will get worn out quickly, sealings will get porous and thus contaminate the fluid. Therefore, selecting the correct lubrication for each application is critical. Due to our many years of experience, we can offer each customer a tailor-made solution. No lubrication is no option.



Valve type	Silicone-free and cleaned	LABS-compliant B2
Ball Valve 546 Pro / 543 with PVDF ball seal	✓	✓
Ball Valve 546 Pro / 543 with PTFE ball seal	✓	✗
Butterfly Valve 567 / 578	✓	✓
Check Valve 561 / 562	✓	✓
Diaphragm Valve 514 / 515 / 517 / Diastar with PTFE diaphragm	✓	✗
Diaphragm Valve 514 / 515 / 517 / Diastar with EPDM / FKM diaphragm	✓	✓
Pressure Regulating Valve 582 / 586	✓	✗
Ventilating- and Bleed Valve 591 / 595	✓	✓

*Our standard valves are neither silicone-free nor LABS-compliant. These characteristics only apply for "silicone-free" and "LABS-compliant B2" valves.products.

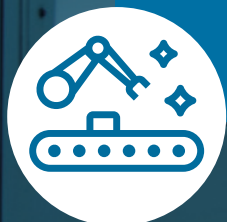
Five steps to guarantee clean products and safe operation

We at GF Piping Systems can guarantee application fit and customized clean solutions to every customer no matter the complexity of the project and the application's requirements. With the following five steps, we can ensure the clean and safe operation of sensitive fields of application. Piping components like fittings and valves parts can also be cleaned on request, enabling every customer to avoid over-specification and meet the operation requirements.

Production

Fittings and valve components from GF Piping Systems are produced under clean conditions, and there are only non-silicone-based release agents used during manufacturing.

1



Cleaning

To ensure the required cleanliness of the product, fitting and valve components are cleaned additionally in a unique cleaning process. This cleaning process takes place in a dedicated room where the parts are cleaned with deionized water.

2



Lubrication

For specific product parts, lubrication is necessary for the functionality of our products – for instance, for dynamically stressed sealing materials in valves. Choosing the correct lubrication for your applications is critical to ensure failsafe operation.

3



Packaging

The final, clean product gets packaged up to two times to protect it while being stored and shipped to the destination.

4



Testing

We can guarantee and prove LABS-compliance thanks to our in-house testing capability and our experts. The LABS-compliance statement can be presented on request.

5



Next steps

In this brochure, you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

Find your local contact on the back cover of this brochure or visit our GF Piping Systems website, where you will find specialized contact persons in your area. You will also find additional information on our products, including technical datasheets, operating instructions, and relevant certificates and approvals.

More information at

www.gfps.com/cleanedproducts

Worldwide at home

Our sales companies and representatives ensure local customer support in more than 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
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
1600 Sint-Pieters-Leeuw / Belgium
Phone +32 (0) 2 556 40 20
Fax +32 (0) 2 524 34 26
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

Denmark / Iceland

Georg Fischer A/S
2630 Taastrup / Denmark
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

Indonesia

PT Georg Fischer Indonesia
Karawang 41371, Jawa Barat
Phone +62 267 432 044
Fax +62 267 431 857
indonesia.ps@georgfischer.com
www.gfps.com/id

Italy

Georg Fischer S.p.A.
20864 Agrate Brianza (MB)
Phone +39 02 921 86 1
Fax +39 02 921 86 24 7
it.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 Heungdeok Jungang-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

George Fischer (M) Sdn. Bhd.
41200 Klang, Selangor Darul Ehsan
Phone +60 (0) 3 3122 5585
Fax +60 (0) 3 3122 5575
my.ps@georgfischer.com
www.gfps.com/my

Mexico / Northern Latin America

Georg Fischer S.A. de C.V.
CP 66603 Apodaca, Nuevo León / 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

New Zealand

Georg Fischer Ltd
5018 Upper Hutt
Phone +04 527 9813
Fax +04 527 9834
nz.ps@georgfischer.com
www.gfps.com/nz

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.
Philippines Representative Office
1500 San Juan City
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 125040
Phone +7 495 748 11 44
ru.ps@georgfischer.com
www.gfps.com/ru

Singapore

George Fischer Pte Ltd
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 / Spain
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

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

USA / Caribbean

Georg Fischer LLC
92618 Irvine, CA / USA
Phone +1 714 731 8800
Fax +1 714 731 6201
us.ps@georgfischer.com
www.gfps.com/us

Vietnam

George Fischer Pte Ltd
Representative Office
Ho Chi Minh City
Phone +84 28 3948 4000
Fax +84 28 3948 4010
sgp.ps@georgfischer.com
www.gfps.com/vn

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

The information and technical data (altogether "Data") herein are not binding, unless explicitly confirmed in writing.
The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems apply.

