

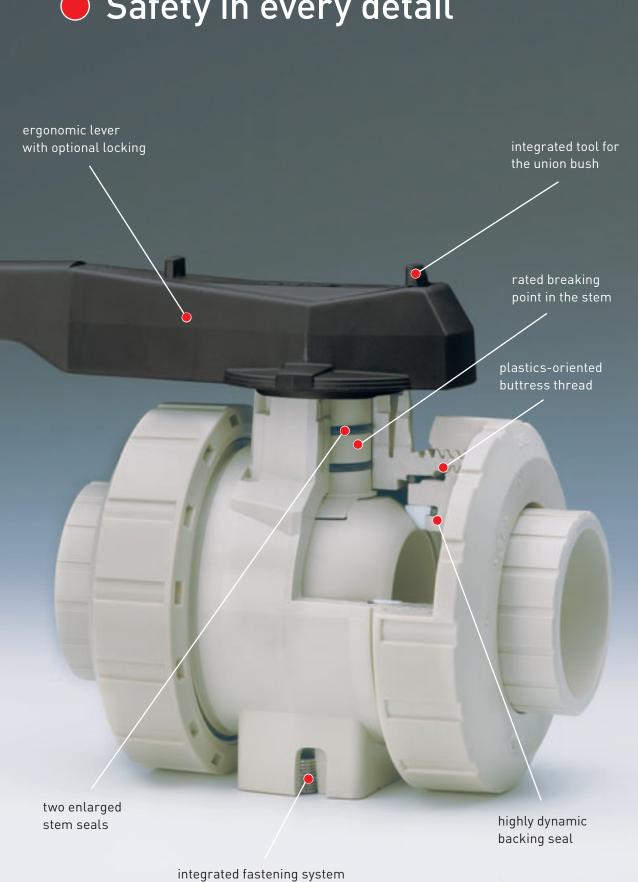


Focus on the big ones

Ball valve type 546 in the dimensions DN65 to DN100



Safety in every detail



with threaded inserts

Designed for ISO, ANSI, BS, JIS

The system overview

A complete program

for a technically refined system:

The 546 Ball Valve is another innovayou with quality, flexibility, reliability

We have the right ball valve for all your compatibility is also given with all the industrial applications. International

From manual valve

to control valve:

to interest you, such as an integrated your needs exactly. Even the manual

signals. It also serves as an interface for electric or pneumatic actuators.









Ball Valve with pneumatic actuator

fine adjustment Ball Valve with

optional electric feedback

lockable index lever; Ball Valve with

Standard Ball Valve



optional manual override - double acting,





The Ball Valve 546 in the dimensions DN

Georg Fischer has a 200-year tradition of durability and reliability. Our products are a guarantee of quality, functionality and innovation.

The ball valve type 546 is a perfected product, embodying GF Piping Systems' extensive experience in the field of plastic valves. The new dimensions DN65 to DN100 complement the existing DN10 to DN50 series. The design, which expresses form and function ideally, is consistent for the whole type series.

All-around perfection

The ball of the type 546 has a smooth, glassy surface, guaranteeing excellent leak tightness in the passage and preventing the formation of deposits, while also maintaining a low actuation torque. The ball seal features a positive fit. The special backing seal makes sure the passage is sealed tight – even if there is pulsation or water hammer. The backing O-ring, which being a dynamic seal presses the ball seal on the ball, always remains in position. The union bush with left-hand thread, which causes the floating ball to remain tight, is another sophisticated feature.

Made for plastics – the buttress thread

A plastics-oriented jointing technology has been realized for the ball valve type 546 in the buttress thread.

Compared to the trapezoidal thread, the buttress thread delivers:

- approx. 50% higher overlapping on the thread flanks
- no radial-force components due to contact of vertical flanks in the utilized direction
- max. protection against displacement of coupling nut in case of water hammer.

Ingenious solutions

Integrated feedback

The electric feedback provides information on the actual status of the system. It is integrated in the optional multifunctional module, which offers even more extras:

- splash-proof thanks to covering of the enclosed switches
- safe torque transmission with stainless steel coupling

Integrated fastening

The ball valve type 546 is easy to mount with the built-in stainless steel threaded inserts. No need to fasten a holding fixture to the valve. Mounting is fast and easy.

Integrated tool

The fiberglass-reinforced polypropylene (PPGF) lever is more than just a handle – it contains the tool for adjusting the union bush. So you always have the right tool for adjustments at hand.

Multitalented: Lever and module

The ball valve type 546 has been conceived with a great deal of thought given to function and









65 to DN100



Type 546 in DN65 to DN100 e.g. in PVC-U with solvent cement socket



Safe connection:

Plastics-oriented buttress thread on coupling nut and union bush



Integrated fastening system:

Comes with optional threaded inserts for direct mounting

Lockable lever with 5° increments:

Protects against unauthorized use and indicates the aperture angle of the ball



Complete process monitoring and process documentation, also for manual valves

Three lever versions:

Standard, lockable with 5° increments, or clampable in any desired position

design. These consistent details guarantee comfort and safety:

- ratchet setting in increments of 5°
- exact, safe positioning
- lockable and protected against unauthorized use
- made of rugged PPGF

The GF Piping Systems multifunctional module is a real pro.

It allows you to expand the ball valve's range of possibilities with a variety of important functions. The benefits of this module are:

- standardized, mechanical interface according to EN ISO 5211
- all-plastic housing and robust construction ensure secure fastening of the type 546
- optional microswitches in Ag-Ni, Au as well as inductive switches with NPN, PNP and Namur (as electric feedback and position indicator for manual and actuated valves)

Standards and approvals

- EN ISO 16135: Industrial valves – Thermoplastic ball valves (ISO 16135:2006)
- ISO 9393: Thermoplastic ball valves for industrial applications
- EN 558 (in preparation):
 Face-to-face length of valves with flanges
- DIBt (Deutsches Institut für Bautechnik- German center of competence for civil engineering), pending
- NSF 61: System components for drinking water, pending



GF Piping Systems know-how



Precision and reliability is exercised for every process step up to final assembly. Our qualified and experienced staff makes sure that the necessary quality is realized at all times.

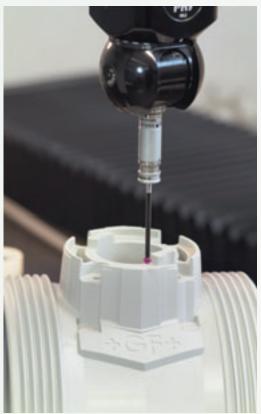
To determine their service life, our ball valves are tested at full medium pressure for over 50,000 cycles.



GF Piping Systems has approx. 500 approvals worldwide for its products. These are obtained and monitored in our test laboratory, accredited to EN ISO IEC 17025.

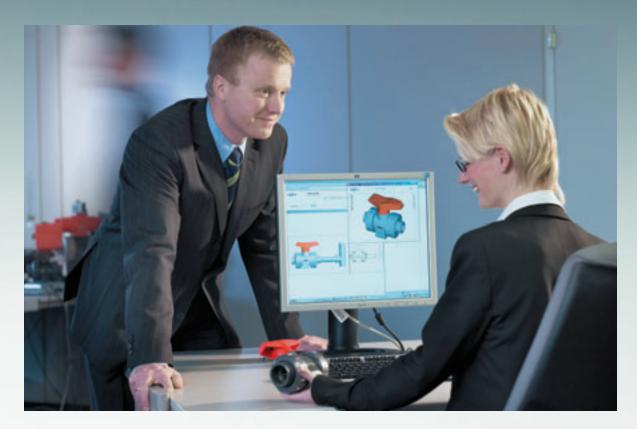
Tests performed at GF Piping Systems have an identical rating as testing by approval authorities.

Tests are conducted in the development stage and later in running production. The standards for production quality are an integral part of the stringent guidelines of GF Piping Systems. For example, central components are subjected continuously to leak testing during production.



All the individual ball valve components are precision tested in the factory with state-of-the-art measurement technology.

Support and service included



Innovative products and first-class service – inseparable for GF Piping Systems. For us, it goes without saying that we support you in every stage of your project. Our competent employees discuss the technical details with you on location and put together a package for your specific application. This means you always have a system solution which is exactly right for you.

Planning made easy: CAD product library

GF Piping Systems supplies a CAD product library free of charge – an excellent tool for planning and visualization.

You will find our product ranges in many 2D/3D data formats.

Data formats

e.g.: IGES, STEP, DXF, DWG, JPG

Systems

AutoCAD®, Inventor®, CATIA, Pro/ENGINEER

Order our CD-ROM under Planning Fundamentals at: www.piping.georgfischer.com



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Adding Quality to People's Lives

Australia

George Fischer Pty Ltd Unit 1, 100 Belmore Road Riverwood NSW 2210 Australia Phone +61(0)2/9502 8000 australia.ps@georgfischer.com www.georgefischer.com.au

Austria

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

Belgium/Luxembourg

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

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

Georg 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

Georg Fischer SAS Bâtiment Le Rabelais Paris Nord 2 22 Avenue des Nations BP 88026 Villepinte 95932 Roissy Charles de Gaulle Cedex Phone +33(0)1 41 84 68 84 fr.ps@aeorafischer.com www.georgefischer.fr

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

India

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

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. Phone +81(0)6/6635 2691 jp.ps@georgfischer.com www.georgfischer.jp

Georg Fischer Piping Systems #902 Ace Techno-Tower ||| 197-48, Guro-dong, Guro-gu Seoul 152-050 Korea Phone +82 2 851 3861/3862 Fax +82 2 851 3844 kor.ps@georgfischer.com

Malaysia

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

Middle East

George Fischer Piping Systems Dubai, United Arab Emirates Phone +971 4 289 41 20 qfdubai@emirates.net.ae www.piping.georgfischer.com

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@aeorafischer.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

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

Russia

Georg Fischer Piping Systems Office 14a, 3 Entrance, 9 Floor Business Center Parus 1st Tverskaya-Yamskaya Street, 23 Moscow 125047 Tel. +7 495 258 60 80 ru.ps@georgfischer.com

George Fischer Pte Ltd 528 872 Singapore Phone +65(0)67 47 06 11 sgp.ps@georgfischer.com www.georgefischer.com.sg

Spain/Portugal

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

Sweden/Finland

Georg Fischer AB 12523 Älvsjö-Stockholm Phone +46(0)8/506 775 00 info.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

Taiwan

Georg Fischer Piping Systems 2F, No. 88, Hsing Te Road San Chung City Taipei Hsien, Taiwan (R.O.C.) Phone +886 2 8512 2822 +886 2 8512 2823

United Kingdom/Ireland

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

Georg Fischer Piping Systems (Switzerland) Ltd. 8201 Schaffhausen Phone +41 (0)52-631 30 26 +41 (0)52-631 28 93 export.ps@georgfischer.com www.piping.georgfischer.ch



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