

# PROGEF Standard → packed to preserve value



The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

[www.piping.georgfischer.com](http://www.piping.georgfischer.com)  
[progefstandard@georgfischer.com](mailto:progefstandard@georgfischer.com)



→ Completely  
Controlled Process

System Specification  
**PROGEF Standard**  
 Piping Systems in Polypropylene

#### Australia

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

#### Austria

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

#### Belgium/Luxembourg

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

#### Brazil

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

#### China

Georg Fischer  
 Piping Systems Ltd Shanghai  
 Pudong, Shanghai 201319  
 Phone +86(0)21 58 13 33 33  
[china.ps@georgfischer.com](mailto:china.ps@georgfischer.com)  
[www.cn.piping.georgfischer.com](http://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](mailto:info.dk.ps@georgfischer.com)  
[www.georgfischer.dk](http://www.georgfischer.dk)

#### France

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

#### Germany

Georg Fischer GmbH  
 73095 Albershausen  
 Phone +49(0)7161 302-0  
[info.de.ps@georgfischer.com](mailto:info.de.ps@georgfischer.com)  
[www.georgfischer.de](http://www.georgfischer.de)

#### India

Georg Fischer Piping Systems Ltd  
 400 076 Mumbai  
 Phone +91 224007 2001  
[in.ps@georgfischer.com](mailto:in.ps@georgfischer.com)  
[www.georgfischer.in](http://www.georgfischer.in)

#### Italy

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

#### Japan

Georg Fischer Ltd  
 556-0011 Osaka  
 Phone +81(0)6 6635 2691  
[jp.ps@georgfischer.com](mailto:jp.ps@georgfischer.com)  
[www.georgfischer.jp](http://www.georgfischer.jp)

#### Korea

Georg Fischer Piping Systems  
 Guro-3 dong, Guro-gu, Seoul, Korea  
 Phone +82(0)2 2081 1450  
 Fax +82(0)2 2081 1453  
[korp.ps@georgfischer.com](mailto:korp.ps@georgfischer.com)

#### Malaysia

Georg Fischer (M) Sdn. Bhd.  
 40460 Shah Alam, Selangor  
 Phone +60 (0)3 5122 5585  
[connie.kong@georgfischer.com](mailto:connie.kong@georgfischer.com)

#### Mexico

Georg Fischer S.A. de C.V.  
 Apodaca, Nuevo Leon  
 CP66636 Mexico  
 Phone +52 (81)1340 8586  
 Fax +52 (81)1522 8906

#### Middle East

Georg Fischer Piping Systems  
 Dubai, United Arab Emirates  
 Phone +971 4 289 49 60  
[info.export@georgfischer.com](mailto:info.export@georgfischer.com)  
[www.export.georgfischer.com](http://www.export.georgfischer.com)

#### Netherlands

Georg Fischer N.V.  
 8161 PA Epe  
 Phone +31(0)578 678 222  
[nLps@georgfischer.com](mailto:nLps@georgfischer.com)  
[www.georgfischer.nl](http://www.georgfischer.nl)

#### Norway

Georg Fischer AS  
 1351 Rud  
 Phone +47(0)67 18 29 00  
[no.ps@georgfischer.com](mailto:no.ps@georgfischer.com)  
[www.georgfischer.no](http://www.georgfischer.no)

#### Poland

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

#### Romania

Georg Fischer  
 Piping Systems Ltd  
 020257 Bucharest - Sector 2  
 Phone +40(0)21 230 53 80  
[ro.ps@georgfischer.com](mailto:ro.ps@georgfischer.com)  
[www.export.georgfischer.com](http://www.export.georgfischer.com)

#### Russia

Georg Fischer Piping Systems  
 Moscow 125047  
 Tel. +7 495 258 60 80  
[ru.ps@georgfischer.com](mailto:ru.ps@georgfischer.com)  
[www.georgfischer.ru](http://www.georgfischer.ru)

#### Singapore

Georg Fischer Pte Ltd  
 528 872 Singapore  
 Phone +65(0)67 47 06 11  
[sgp.ps@georgfischer.com](mailto:sgp.ps@georgfischer.com)  
[www.georgfischer.com.sg](http://www.georgfischer.com.sg)

#### Spain/Portugal

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

#### Sweden/Finland

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

#### Switzerland

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

#### Taiwan

Georg Fischer Piping Systems  
 San Chung City, Taipei Hsien  
 Phone +886 2 8512 2822  
 Fax +886 2 8512 2823

#### United Kingdom/Ireland

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

#### USA/Canada/Latin America/Caribbean

Georg Fischer LLC  
 Tustin, CA 92780-7258  
 Phone +1(714) 731 88 00  
 Toll Free 800 854 40 90  
[us.ps@georgfischer.com](mailto:us.ps@georgfischer.com)  
[www.us.piping.georgfischer.com](http://www.us.piping.georgfischer.com)

#### International

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



An optimal system solution tailored for industrial applications, where a high resistance to impacts, abrasion and many chemicals is needed.



## PROGEF Standard – System Specification

<b>Material</b>	Beta PP-H 100 (Beta Polypropylene Homopolymer) d 16 - d 225	State-of-the-art PP (Polypropylene) d 250 - d 500
Colour	RAL 7032 pebble grey	RAL 7032 pebble grey
Density	~0.90g/cm <sup>3</sup> [ISO 1183/ASTM D 792]	~0.90g/cm <sup>3</sup> [ISO 1183 / ASTM D 792]
Linear expansion coefficient	0.16 mm/mK [DIN 53752]	0.16-0.18 mm/mK [DIN 53752]
E-modulus	1300 N/mm <sup>2</sup> [ISO 527/ASTM D 790]	900 N/mm <sup>2</sup> [ISO 527/ASTM D 790]
Thermal conductivity	0.23 W/mK [EN 12664]	0.23 W/mK [EN 12664]
Surface resistivity	> 10 <sup>16</sup> Ω [IEC 60093]	> 10 <sup>16</sup> Ω [IEC 60093]
<b>Dimension</b>	d 16 - d 500 in accordance to EN ISO 15494	
<b>Pressure Rating</b>	Pipes/Fittings/Diaphragm and ball valves: d 16 - d 225 SDR11, PN10, c=2.0 d 50 - d 225 SDR17.6, PN6, c=2.0 Butterfly valves: d63-d225, PN10 / d280, PN8 / d315, PN8	Pipes/Fittings: d 250 - d 500 SDR11, PN10, c=2.0 d 250 - d 500 SDR17.6, PN6, c=2.0
<b>Temperature Rating</b>	From 0°C to 80°C (32°F - 176°F)	
<b>Production</b>	Fittings: injection moulded or segment welded Pipes: extruded Valves: injection moulded	
<b>Marking</b>	All components are embossed with a permanent identification during the production process to ensure full traceability: Lot No Material Dimension Pressure Rating	
<b>Testing and Inspection</b> (EN ISO 15494)	Visual inspection Surface finish Dimension tolerance Pressure testing Full product range passed the Initial Type Test (ITT)	
<b>Material- and Product Approvals/Conformance<sup>(1)</sup></b>	FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic) DIBt [Z-40.23-4, Z-40.23-264, Z - 40.23-265] DNV [K-2630, K - 2636] Lloyd's Register [01/ 20030(E1)]	
<b>Welding Technology</b>	Socket fusion [DVS 2207 - 11]: d 16 - d 110 IR Plus, infrared fusion [DVS 2207 - 6]: d 20 - d 225 Butt fusion [DVS 2207-11]: d 20 - d 500	
<b>Documentation<sup>(2)</sup></b>	EN 10204 2.2 / EN 10204 3.1	
<b>Packing</b>	Pipes and fittings bulk bagged	
<b>Labeling</b>	Brand Name Product Description Code Number Material Dimension Approvals	
<b>Main Applications</b>	PROGEF has been relied to be highly resistant to impact, abrasion and many chemicals. Suitable for industrial applications in chemical production, chemical distribution, galvanisation and power stations.	

<sup>(1)</sup> For thermoplastic material only

<sup>(2)</sup> On request