



## Polypropylene Welded Systems

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



**PROGEF Standard**  
**PROGEF Plus**  
**PROGEF Natural**

# PROGEF - more than just 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. 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. A system of exceedingly compatible elements, being designed to be highly resistant to impact, abrasion, corrosion and many chemicals, which is thereby the ideal choice for any challenging application in chemical production or distribution processes or discerning applications in the field of water and wastewater treatment.



## **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, 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 e. g. 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.

## Main Benefits:

- Safety = Secure and fast delivery to the jobsite
- Simplicity = Packed in batch sizes
- Efficiency = Excellent cost-performance ratio on the highest quality level
- Environment = Less energy input in the manufacturing process

# Everything from one Source

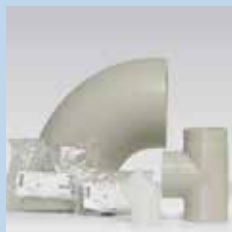
PROGEF Welded Systems are ideally adapted to customer needs

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. 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. 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.

## Individuality - from the planning stage to installation



Pipes



Fittings



Manual valves



Automation



Jointing technology



Customizing and training

### 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.

### 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.

### 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.

### PROGEF systems lifetime warranty\*

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

\* Detailed information online: [www.piping.georgfischer.com](http://www.piping.georgfischer.com)

# PROGEF Standard and PROGEF Plus

## System range

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.

Products	SDR PN	DN	d																									
			10	15	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	300	355	400	450	500	560	630
Pipes	7.4	16																										
	11	10																										
	17.6	6																										
Socket fusion fittings	11	10																										
Butt fusion fittings, Infrared (IR) compatible (up to d225 mm)	11	10																										
	17.6	6																										
Ball valves	11	10																										
	17.6	6																										
Diaphragm valves	11	10																										
	17.6	6																										
Butterfly valves		10																										
Control valves		10																										
Automation																												
Flanges PP-V/PP-steel																												
Flange seals EPDM/FPM																												

PROGEF Standard
  PROGEF Plus

Socket fusion machine																												
Butt fusion machine																												
IR-fusion machine																												

# PROGEF Standard and PROGEF Plus

## System specification

\* Standards:



	PROGEF Standard	PROGEF Plus
<b>Material</b>	- 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 <sup>3</sup> (ISO 1183/ASTM D 792)	~0.90 g/cm <sup>3</sup> (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)
<b>Dimensions</b>	d16–d500 in accordance to EN ISO 15494	d20–d315 in accordance to EN ISO 15494
<b>Surface condition</b>	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
<b>Material- and product-approvals</b>	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)
<b>Packaging</b>	pipes, fittings and valves bulk bagged	pipes, fittings and valves, each component double bagged
<b>Marking</b>	- brand name - product description - article number - material - dimensions - standards and approvals	- brand name - product description - article number - material - dimensions - standards and approvals

\* Approvals/  
Acceptance:



\* An overview of all standards and approvals  
is stated online: [www.piping.georgfischer.com](http://www.piping.georgfischer.com)

# PROGEF Natural

## System range and specification

\* Standards:



Products	DN		d									
	SDR	PN	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	11	10										
Diaphragm valves PP-R body	11	6										
Diaphragm valves PP-H body		6										
Butterfly valves PP-H		10										
Cone check valves PP-H body	11	10										
Automation												upon request
Flanges PP-V/PP-steel												
Flange seals EPDM/FPM												

Butt fusion machine												
IR-fusion machine												
BCF-fusion machine												

PROGEF Natural

	PROGEF Natural
<b>Material</b>	- d20-d110 PP-R (Polypropylene Random Copolymer)
Colour	pigment-free, transparent
Density	~ 0.90g/cm <sup>3</sup> (ISO 1183/ASTM D 792)
Thermal expansion coefficient	0.15mm/m°K (DIN 53752)
Thermal conductivity	0.23W/mK (EN 12664)
Surface resistivity	> 10 <sup>16</sup> Ω (IEC 60093)
<b>Dimensions</b>	d20-d110 according to EN ISO 15494
<b>Surface condition</b>	Inner surface: Ra ≤ 1.0 μm (39μin)
<b>Material- and product-approvals</b>	FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic) Food conformity (D)
<b>Packaging</b>	pipes, fittings and valves, each component single bagged
<b>Marking</b>	- brand name - product description - article number - material - dimensions - standards and approvals

\* Approvals/ Acceptance:



\* Sanitary adaptor

Standards: ISO, DIN, ASME BPE, 3A, JIS

\* An overview of all standards and approvals is stated online: [www.piping.georgfischer.com](http://www.piping.georgfischer.com)

# Exceeding Welding Technologies for PROGEF Systems

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 jointing 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 jointing technologies. With a global jointing training program, international machine rental and a worldwide network of service centres, our customers benefit from expert know-how and practical experience.



## Welding technology

## Welding machine

## Joint cross-section

## Macro-image

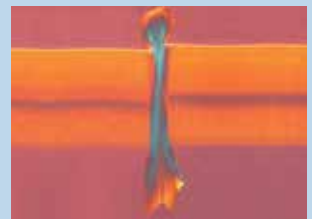
### Socket fusion – the strong connection

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



### Butt fusion – the economical connection

Economical and flexible fusion especially for bigger diameters. From manual machines to full CNC control with traceability.



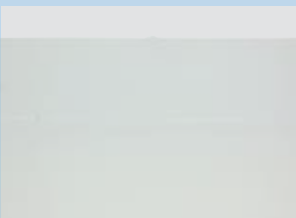
### IR-Plus (Infrared) fusion – the fast, clean connection

Fast, repeatable and clean welds via non-contact heating. Full traceability of the welding process, with user guidance.



### BCF-Plus fusion – the smooth connection

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.

# Exceeding Quality Standards

Technical specifications with focus on pressure-/temperature attributes



Raw material testing as an integral part in manufacturing to ensure system quality.



Highest test standards for inhouse product quality control in own laboratories.



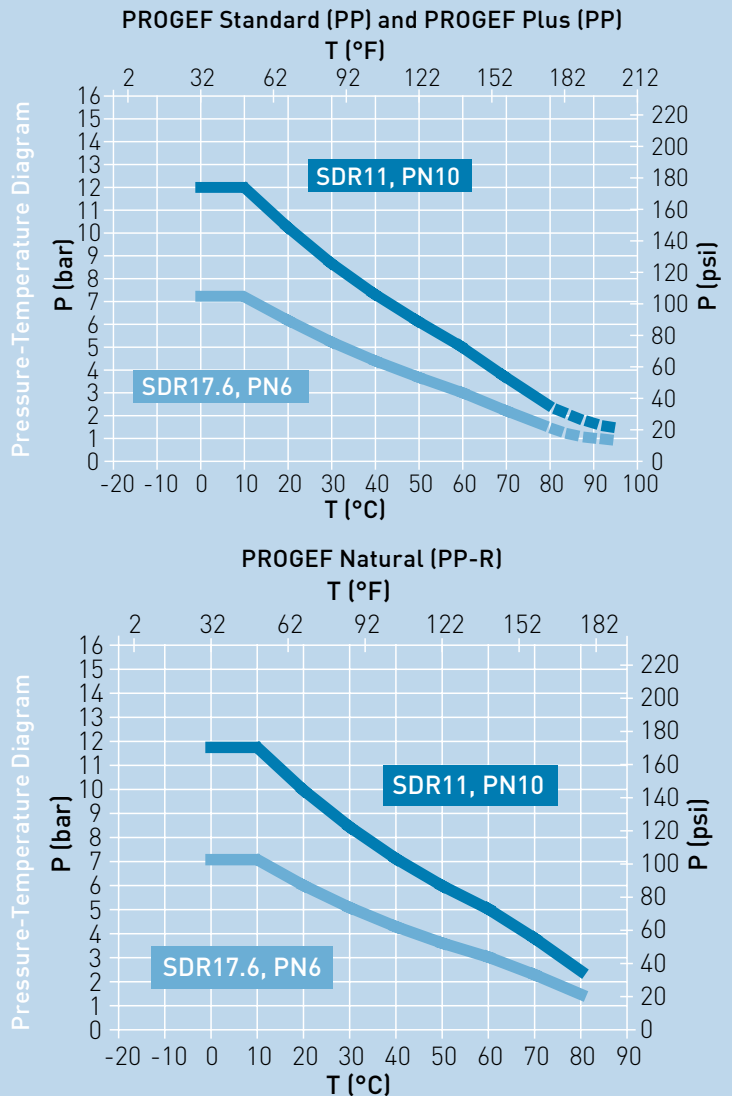
Welding quality tests on site close the extensive quality process.

## 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.



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.

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

\* More information regarding technical specifications can be found online in our planning fundamentals: [www.piping.georgfischer.com](http://www.piping.georgfischer.com)



# Chemical Resistance

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)		Partially crystalline thermoplastics			Amorphous thermoplastics		Stainless Steel	
Media	Chemical Examples	PP	PE100	PVDF	PVC-U	PVC-C	1.4401 316	1.4301 304
<b>Oxidizing Acids</b> (HNO <sub>3</sub> , H <sub>2</sub> CrO <sub>4</sub> , H <sub>2</sub> SO <sub>4</sub> etc.)	HNO <sub>3</sub> ≤ 25%	+	+	+	+	+	0	0
	25% ≤ HNO <sub>3</sub> ≤ 65%	-	0	+	0	+	0	0
	H <sub>2</sub> CrO <sub>4</sub> aqueous solution	0	0	+	0	0	0	0
	H <sub>2</sub> SO <sub>4</sub> ≤ 70%	+	+	+	+	+	-	-
	70% ≤ H <sub>2</sub> SO <sub>4</sub> ≤ 96%	-	-	+	+	+	-	-
<b>Non Oxidizing Acids</b> (HCl, HF etc.)	HCl ≤ 30%	+	+	+	+	+	0	-
	HF ≤ 40%	+	+	+	+	-	0	-
	40% ≤ HF ≤ 75%	+	+	+	-	-	-	-
<b>Organic</b> (formic acid, acetic acid, citric acid etc.)	HCOOH ≤ 25%	+	+	+	+	+	0	-
	25% ≤ HCOOH ≤ tech. pure	+	+	+	+	-	0	-
	CH <sub>3</sub> COOH ≤ 50%	+	+	+	+	+	0	-
	50% ≤ CH <sub>3</sub> COOH ≤ tech. pure	+	+	+	0	-	0	-
	C <sub>3</sub> H <sub>4</sub> OH(COOH) <sub>3</sub>	+	+	+	+	+	0	-
<b>Bases</b>	Inorganic (NaOH, KOH, etc.)	+	+	-	+	0	+	+
	Organic (amine, imidazole etc.)	+	+	-	0	-	0	0
<b>Salts</b>	NaCl, FeCl <sub>2</sub> , FeCl <sub>3</sub> , CaCl <sub>2</sub> , etc.	+	+	+	+	+	0	0
<b>Halogens</b>	Chlorine, bromine, iodine, (no fluorine)	-	-	0	0	0	0	-
<b>Fuels/Oils</b>	Aliphatic hydrocarbons	0	0	+	+	0	+	+
	Aromatic hydrocarbons	-	-	+	-	-	+	+
<b>Solvents</b>	Chlorinated hydrocarbons	-	-	0	-	-	0	0
	Ketones	+	+	0	-	-	+	+
	Alcohols	+	+	+	0	-	+	+
	Esters	0	0	0	-	-	+	+
	Aldehydes	+	+	-	-	-	+	+
<b>Phenols</b>	Phenol, Cresol etc.	+	+	+	-	-	+	-

+ resistant    0 conditionally resistant, please consult us    - not resistant

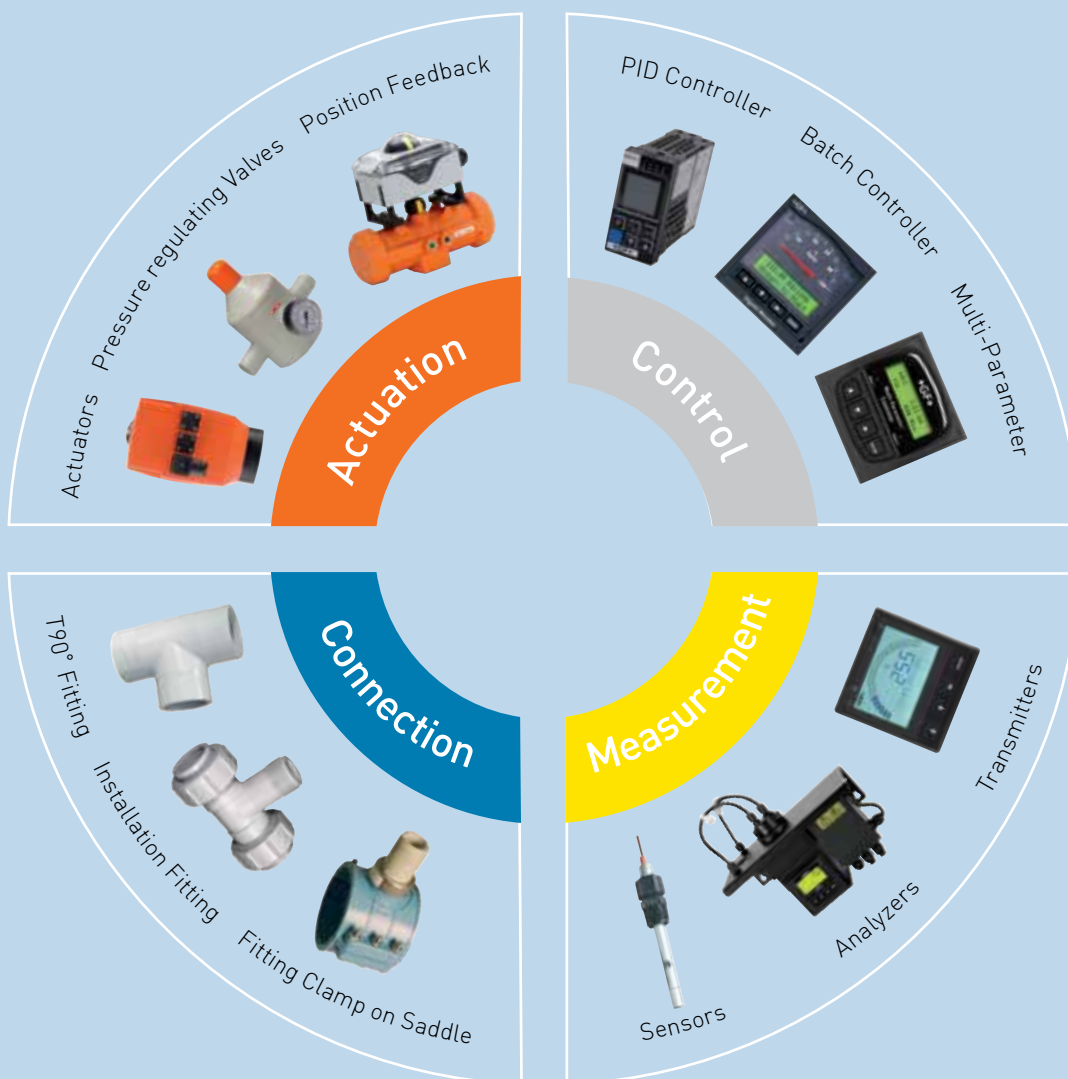
Please note: The above list is only intended as a guideline and does not replace an indepth review of material suitability for the particular application. The information is based on our experience and is state of the art. These data are general indicators only. In practice, however, other factors such 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

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.



# PROGEF Systems 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 longstanding 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.

# GF Piping Systems – worldwide at home

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

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



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.

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GFDO\_6218\_4b [01.14]

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CH-8201 Schaffhausen/Switzerland, 2014  
Printed in Switzerland



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