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Global System Specification

PROGEF Standard

Piping systems in polypropylene



The piping system with the completely controlled process

PROGEF Standard – Global System Specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer) d16-d315mm PP-R (Random Copolymer) d355-d500mm
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	PP-H: 1300 N/mm² (ISO 527/ASTM D 790) PP-R: 900 N/mm² (ISO 527/ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	>10^{16} Ω (IEC 60093)
Dimension and pressure rating	d16-d500 in accordance to EN ISO 15494	
	Pipes/fittings/valves (excluding butterfly valves)	d16-d500 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d630, up to PN16
Temperature rating	From 0°C to 80°C (32°F – 176°F)	
Production	Fittings	Injection moulded or segment welded
	Pipes	Extruded
	Valves	Injection moulded
	Location	Fittings (made in Switzerland and China)
		Pipes (made in Germany, USA and China)
		Valves (made in Switzerland)
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance [1][2]	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
	DIBt (Z-40.23-264, Z-40.23-4, Z-40.23-265)	
	UL94HB (horizontal burning))	
Fusion technology	Socket fusion (DVS 2207-11)	d16-d110
	IR, infrared fusion (DVS 2207-6)	d20-d315
	Butt fusion (DVS 2207-11)	d20-d500
Documentation[3]	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves bulk bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
	Standards and approvals	
Main applications	PROGEF is renowned for its resistance to impact, abrasion, and a wide range of chemicals. This makes it an ideal piping solution for demanding industrial applications, including chemical production, chemical distribution, galvanizing facilities, and power generation plants.	

[1] These approvals only apply for products made in Switzerland and Germany
[2] Information on additional approval upon request
[3] On request

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