→ Completely Controlled Process

System Specification

SYGEF Standard

piping systems in PVDF

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GEORG FISCHER
PIPING SYSTEMS

Excellent system solution for demanding chemical applications

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SYGEF Standard – System Specification

Material Colour Density Surface tension Linear expansion coefficient E-modulus Thermal conductivity Surface resistivity	Polyvinylidene fluoride (PVDF) translucent ~1.78 g/cm^3 (ISO 1183 / ASTM D 792) 30–35 mJ/m^2 0.12–0.18 mm/mK (DIN 53752) 2100 N/mm^2 (ISO 527/ASTM D 790) 0.19 W/mK (EN12664) 5 x 10^{14} Ωcm (IEC 60093)
Dimension	d 20 (½")–d 225 (8") in accordance to ISO 10931
Pressure rating	Pipes/fittings: PN 16 (d 20–d 225), PN 10 (d 90–d 225) Valves: separate specification
Temperature rating	from –20 °C to 140 °C (-4 °F–284 °F)
Production	Fittings/valves: injection moulded Pipes: extruded Valves: injection moulded (additional available oil free treated and paint compatible / silicon free)
Surface finish	Inner surface Ra ≤ 0.5 µm (20 µin) for injection moulded and extruded components
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 (ISO 10931)	Inclusions Visual inspection Surface finish Dimension tolerance Pressure testing
Approvals/conformance[1]	DIBt ASME BPE FDA CFR 21 177.2510 USP 25 class VI (physiological non-toxic) FM-4910 listing
Welding technology	BCF® Plus, bead and crevice free fusion, size d 20 (½")–d 110 (4") IR® Plus, infrared fusion (DVS 2207-6), size d 20 (½")–d 225 (8") BF, butt fusion (DVS 2207-15)
Documentation[2]	Certificate of Conformance with FDA, USP EN 10204 2.2 EN 10204 3.1
Packing[3]	Multiple components single bagged in specified bag
Labeling	Brand Name Product Description Code Number Material Dimension
Main applications	Uses include delivery of pharmaceutical grade purified water (PW) and DI water, using hot water, steam chemical or ozone sanitisation. Due to its excellent chemical resistance it is widely used in chemical distribution systems.

[1] For thermoplastic material only
[2] on request
[3] not for socket fusion products

SYGEF Standard → packed to preserve value

Any questions? Would you like for us to contact you?

www.piping.georgfischer.com

The technical data is not binding and not an expressly warranted characteristic of the goods. It is subject to change. Please consult our General Conditions of Supply.

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