

Is Corrosion Your Problem?



**George Fischer Plastic Piping Systems
Offers the Solution.**

GEORGE FISCHER +GF+

George Fischer quality is no coincidence!

Over 40 years of experience, research and development have contributed to our high standard of quality. You will find the solution to your corrosion problems in our extensive product range.

Solvent Cemented Systems

PVC-U

Unplasticised
Polyvinyl Chloride

Range of sizes:

6 – 400 mm
BS 3/8" – 8"

Resistant to:

Acids and alkalis

Recommended applications:

Drinking water, distilled water, general purpose water, waste water, sea water, construction of plant and apparatus, foodstuffs and beverages. Universally applicable plastic with a wide product range.

Not recommended for:

Aromatic solvents, esters, ketones, chlorinated hydro carbons
low temperature uses ($< 0^{\circ}\text{C}$),
high temperature uses ($> 60^{\circ}\text{C}$)

PVC-C

Post chlorinated
PVC-U

Range of sizes:

16 – 225 mm

Resistant to:

Acids and alkalis at high temperatures and concentrations

Recommended applications:

Hot and aggressive mediums, high temperature, high corrosive environments, chemical industry generally (eg mixed acid waste) and hot water industrial applications

Not recommended for:

Aromatic solvents, esters, ketones, chlorinated hydro carbons and alcohols
low temperature uses ($< 0^{\circ}\text{C}$)

ABS

Acrylonitrile Butadene
Styrene

Range of sizes:

16 – 225 mm
BS 3/8" – 8"

Resistant to:

Weak acids and alkalis

Recommended applications:

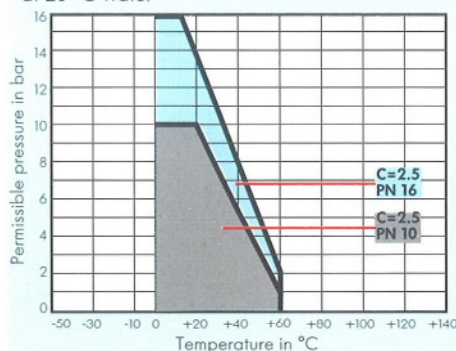
Chilled water, low temperature brine, sole pipelines, mining (slurries), drinking water, water treatment and process water.

Not recommended for:

High temperature uses ($> 60^{\circ}\text{C}$)
bleaches, aromatic solvents, esters, ketones and alcohols

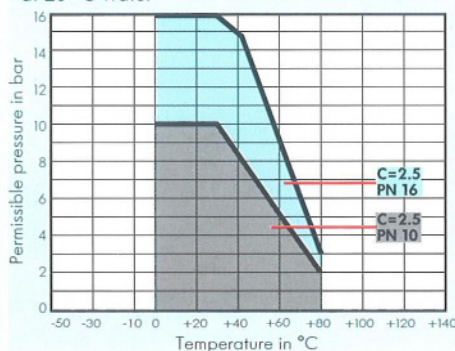
Application Limits for Pipes and Fittings in PVC-U

25-year values with Design Factor C included
at 20°C water



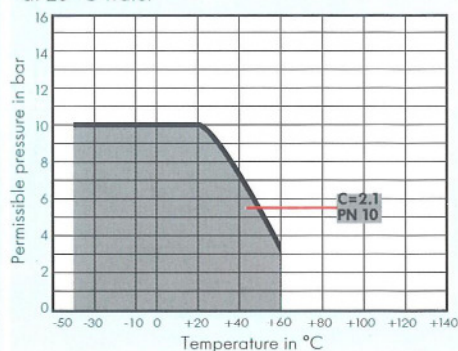
Application Limits for Pipes and Fittings in PVC-C

25-year values with Design Factor C included
at 20°C water



Application Limits for Pipes and Fittings in ABS

25-year values with Design Factor C included
at 20°C water



These diagrams are subject to adaptations to new European standards about to be issued, ask your +GF+ dealer for more information.

Sales Programme Plastic Piping Systems for Industry

	PVC-U	PVC-C	ABS	PE	PP-H	PVDF
Pipes	●	●	●	●	●	●
Fittings	●	●	●	●	●	●
Ball valves	●	●	●	△	●	●
Diaphragm valves	●	●	●	△	●	●
Angle seat valves	●					
Solenoid valves	●	●	●	△	●	●
Process control valves	●	●	●	△	●	●
Filters	●					
Butterfly valves	●			△	●	●

△ Please contact George Fischer

Fusion Jointed Systems

PE 100

Polyethylene

Range of sizes:
20 – 315 mm

Resistant to:

Acids, alkalis and weak solvents

Recommended applications:

Under-floor heating, compressed air, secondary containment, low temperature brine pipe-lines, milk, foodstuffs, construction of plant apparatus, gas and water distribution systems.

Not recommended for:

Oxidising acids, halogens and high temperature uses ($> 60^{\circ}\text{C}$)

PP-H

Polypropylene

Range of sizes:
16 – 315 mm

Resistant to:

Acids, alkalis and weak solvents

Recommended applications:

Pipelines for hot media in the construction of plant apparatus and industrial installations.

Not recommended for:

Oxidising acids, halogens and high temperature uses ($> 95^{\circ}\text{C}$)

PVDF

Polyvinylidene Fluoride

Range of sizes:
6 – 250 mm

Resistant to:

Acids, mixtures of acids, bromine and pure media

Recommended applications:

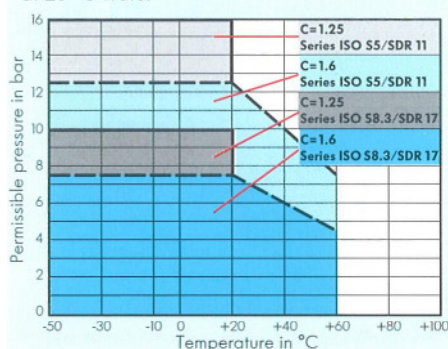
Pipelines for extremely hot and aggressive media in the construction of plant apparatus, industrial installations, and for distribution and storage of ultrapure liquids and gases (pressureless).

Not recommended for:

Alkaline solutions pH > 12

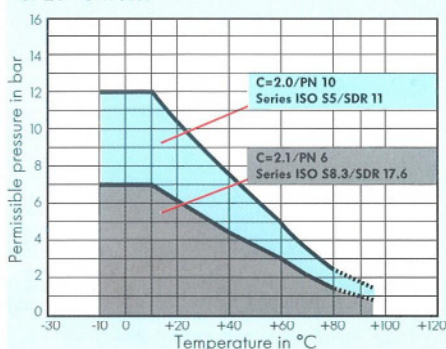
Application Limits for Pipes and Fittings in PE 100

25-year values with Design Factor C included at 20°C water



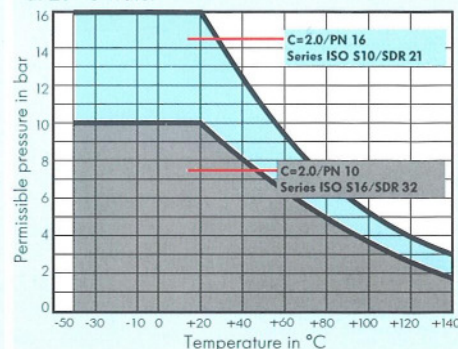
Application Limits for Pipes and Fittings in (β)-PP-H

25-year values with Design Factor C included at 20°C water



Application Limits for Pipes and Fittings in PVDF

25-year values with Design Factor C included at 20°C water



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Sales Programme Plastic Piping Systems

- Fittings and Hand Operated Valves in PVC-U
- Fittings, Pipes and Hand Operated Valves in PVC-C
- Fittings, Pipes and Hand Operated Valves in ABS
- Fittings and Hand Operated Valves in PP-H
- Fittings, Pipes and Hand Operated Valves in PVDF, SYGEF® System Standard, SYGEF® System HP (High Purity), SYGEF® System GIELLE, SYGEF® HP BCF
- Actuated Valves Programme in PVC-U, PVC-C, ABS, PP and PVDF
- Fittings and Saddles in PE
- Compressed Air Piping Systems in PE HD
- Secondary Containment Piping System
- Tapping saddles in PVC-U
- Compression Joint Fittings PVP System
- STEMU® Fittings and Gate Valves in PVC-U
- POLYRAC® Compression Fittings for PE Pipes
- INSTAFLEX® in PB
- Fusion Jointing Apparatus and Machines
- SIGNET – Instrumentation for Flow Monitoring
- Instrumentation for Controlling
- Pumps

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our General Conditions of Supply.

Is corrosion your problem? George Fischer Plastic Piping Systems offers the solution.

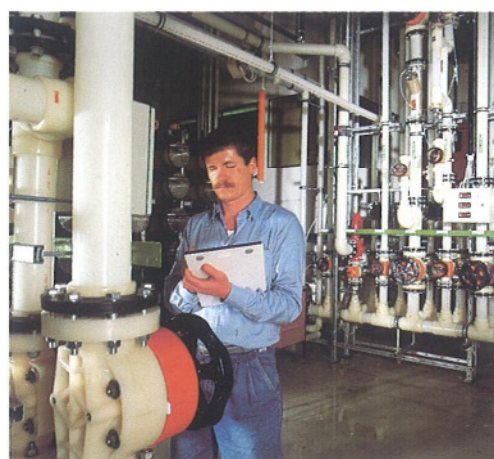
Leisure Pools

Water treatment and distribution system with pneumatically and manually operated butterfly valves, ball valves and fittings in PVC-U.



Textile Industry

Chemicals conveyance in industry with George Fischer's (β)-PP-fittings, hand operated- and pneumatically actuated valves.



Semiconductor Industry

Purified water distribution for a manufacture of highly integrated semiconductor components with SYGEF® HP (high purity) piping system.

GEORGE FISCHER +GF+

- | | |
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