

# Choose Comfort with INSTAFLEX

Your State-of-the-Art Drinking  
Water Installation



# Rediscover a Good Feeling and Security

With the INSTAFLEX system, GF Piping Systems offers a complete solution package for buildings ranging in size from single-family detached houses through apartment blocks right up to public or commercial buildings.

## What is INSTAFLEX?

INSTAFLEX is a state-of-the-art plastic piping system for applications in the building technology. The main areas of application are hot and cold water, cooling systems and compressed air.

The INSTAFLEX system has been designed to meet the highest demands in a variety of applications - from distribution lines to individual extraction points.

Whether building a new house or remodeling an old one, this full plastic system offers a range of key advantages:

- Cost-efficient prefabrication
- Quick and safe handling and installation
- Wide product range
- Corrosion-free
- Incrustation-free
- Noise-insulating
- Flexible

# INSTAFLEX: The Material

The INSTAFLEX system is made from polybutene - the ideal material for drinking water installations. It has been specially developed for applications in the building technology.

Of all the available full plastic systems, polybutene is subject to the lowest rate of thermal expansion. As the expansion forces are much lower - 30 times lower than steel and 10 times lower than composite pipes. The material can absorb any expansion in itself. There is no need for expansion pieces or expansion joints. It also allows the use of commercially available fastenings and fixtures. The result: clean installations which are pleasing to the eye - even if space is tight.

## This means:

- Space-saving installation
- No maintenance
- Easy installation

The high chemical resistance of the polybutene material ensures the longest possible service life of components.

## One manufacturer - one partner: GF Piping Systems

### Your one-stop system solution

Pipes, fittings, connection technology or measuring and control technology - GF Piping Systems offers one-stop shopping worldwide.

### Top quality

Why not profit from the quality of our products? With more than 40 years experience of production and development, stringent quality checks, highly qualified employees and a continuous improvement process, our company offers the ideal basis for superb quality standards.

### Local procurement

A worldwide network of our own sales organizations and trading partners offers our customers direct access to our high-quality products and a competent and obliging service at local level.





# Feel the Difference in Comfort

## INSTAFLEX: the piping system

The INSTAFLEX system stands out with a wide range of available sizes (d16 mm to d225 mm). The same system can be used equally in a single-family detached house, in a hospital or even on board of a luxury ocean liner.

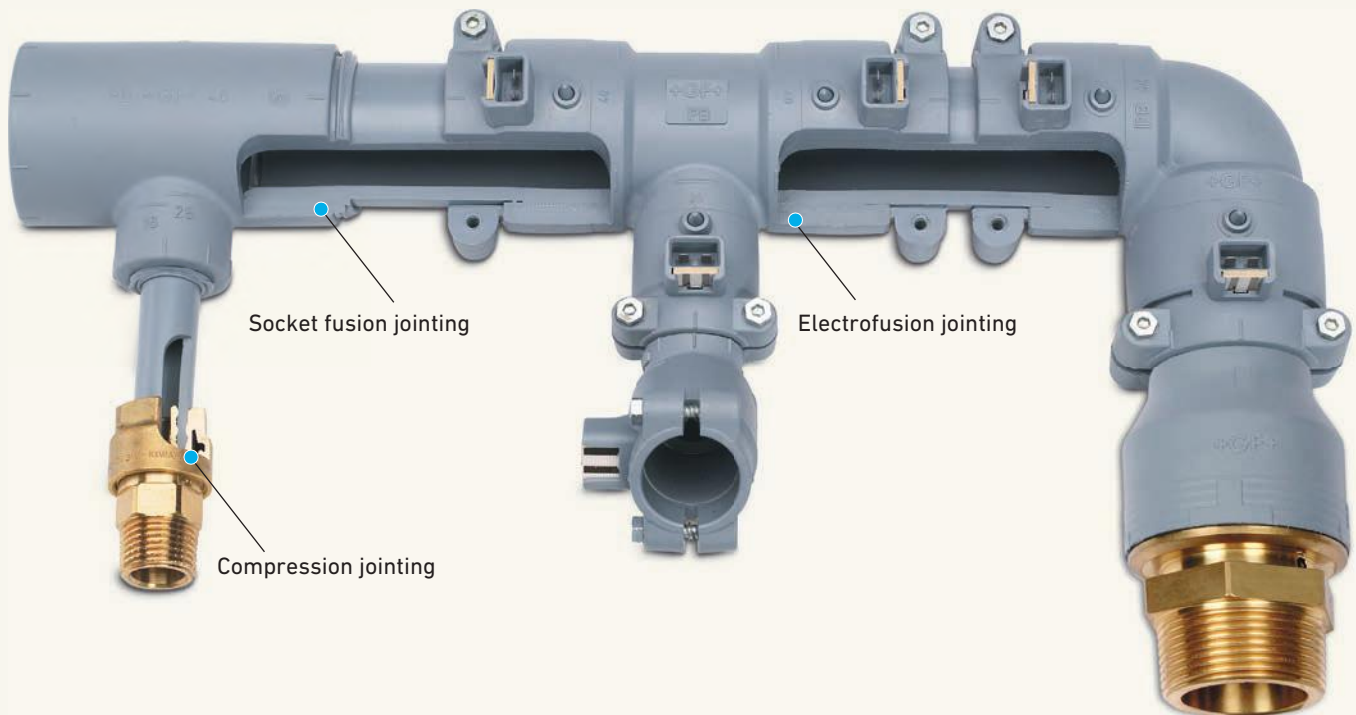
The pipes with diameters ranging from d16 - d25 mm are protected with an outer protection pipe. If damaged (e.g. drilling damage), individual pipes can be easily replaced without opening up the wall.

## Connection technologies for a minimum of fuss

GF Piping Systems offers the perfect connection technology for every application:

- Electrofusion fittings for fast and safe connection on-site
- Socket fusion as a cost-effective prefabricated alternative
- Compression joints for connections and transitions to other materials

## + Characteristics



# Advantages

## + Safe

With GF Piping Systems' electrofusion devices jointings can be done fast, efficient and safe. The welding process is carefully controlled throughout the entire welding time. The joint indicators clearly show when the welding of a fitting is complete.



## + Fast

The tried and tested Z-dimension method by GF Piping Systems can be prefabricated cost-effectively in the workshop. This means that entire components (e.g. cellar distribution bars) can be installed on-site in very short time - allowing you to meet your deadlines.



## + Advantages of the INSTAFLEX system for your application

- The flexibility of polybutene allows small changes in direction without adapters. This saves additional parts and valuable time during installation on-site
- Polybutene remains flexible and easy to handle even at low temperatures
- Prefabricated ascending pipes can be rolled up and installed quickly and easily in the duct at the construction site

### This means:

- You spend less time on the construction site
- Faster installation
- Greater safety



# Plastic Pipes – the Modern Alternative to Steel and Copper

Plastic pipes offer many advantages over steel and copper. Polybutene has an outstanding ecobalance. It can be reused. The recycled plastic can be used for example in noise insulation walls. This saves valuable resources. In comparison to steel and copper, manufacturing plastics requires four times less energy. This helps to protect the environment.

## Corrosion-free

INSTAFLEX is an absolutely corrosion-free drinking water installation. This means that even if the system is not used for an extended period of time, you do not need to worry about water quality - and there is certainly no risk of rust deposits or corrosion.

## Noise-insulating

Of all available piping systems, polybutene offers the lowest sound velocity index. It is ten times lower than the value for steel. This means you can always get a good night sleep, even if your bedroom is right next to the bathroom.

## Incrustation-free

With the INSTAFLEX system, GF Piping Systems can ensure that the pipes in your drinking water installation will be free of limescale. The smooth surface of polybutene prevents deposits from forming in the system. As a result, the pipes retain their full internal diameter. Flow and comfort remain constant at the same high level.

## Hygiene

Water is the most valuable and the most strictly regulated of all of our foodstuffs. In contrast to metals, which can release copper ions, nickel or corrosion deposits into the water, polybutene releases no substances at all that could affect the taste of the water or be harmful in any way. In terms of hygiene and health aspects, INSTAFLEX is totally safe for use in drinking water supply systems.

## Conclusion

The full plastic INSTAFLEX piping system offers significant advantages:

- Cost-effective prefabricated solution
- Quick and safe handling and installation
- Long service life
- Broad product range
- Corrosion-free
- Incrustation-free
- Noise-insulating
- Hygienically safe
- Outstanding ecobalance





## Simple, hassle-free, INSTAFLEX

Another advantage of plastic is its low weight which makes processing and transport a lot easier. In contrast to metal systems, the use of a crane is not necessary.

### Less is more

The energy equivalent value comprises all process energies required for the production of the pipes and fittings from raw material to final product as well as their thermal insulation. Furthermore, it covers the amounts of energy needed for the provision of auxiliary materials and the joining technology.

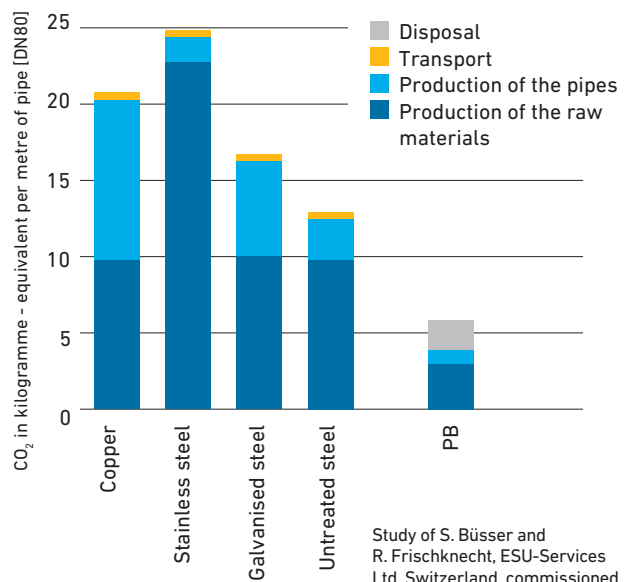
### Life Cycle Assessment (LCA)

A Life Cycle Assessment is a technique to assess the environmental impact associated with a product, a material, a process, or even a system over its entire life cycle. It is the most widespread method to assess the environmental impact. GF Piping Systems proactively conduct life-cycle assessments for selected products to determine their environmental impact by analysing raw materials, suppliers, production, application by user and disposal.

### Environmental Product Declaration (EPD)

An Environmental Product Declaration is a standardized tool to communicate the ecobalance of a product. It comprises quantified data on products or systems which are based on independent findings from Life Cycle Assessments (LCA). For the entire INSTAFLEX system, an EPD according to EN 15804 is available at [www.gfps.com](http://www.gfps.com).

### Positive Life Cycle Assessment of plastic pipes



Study of S. Büsser and R. Frischknecht, ESU-Services Ltd. Switzerland, commissioned by GF Piping Systems, 2008

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