Malleable cast iron fittings:

Sustainability that generates added value
We are united by... 

... with sustainable future solutions

The future is full of challenges. Some of which are abundantly clear. While others are vaguely defined by trends and optional developments. The topic of sustainability affects all of us and is of particular importance to us as GF. When it comes to sustainability we will be the strong partner at your side.

When safety determines the application

Universal GF solutions// You know Georg Fischer Fittings GmbH to be a reliable supplier of products of the highest quality. In many piping technology sectors our malleable cast iron fittings are known to offer the best performance available on the market. These are supplied by our company that offers focussed expertise, the highest product quality and reliable logistic services, providing the best level of service to guarantee a secure future. We are working to ensure we have a desirable and good future: 70% of products that we release on the market help achieve social or environmental benefits.

This has helped GF to become one of the top 100 companies in the world when it comes to sustainability.
Setting and achieving targets

Initiating the potential for sustainability
Making future-proof decisions // Sensible, long-term considerations provide new differentiation and positioning opportunities for sales in the product business. By ensuring that product management and purchasing decisions take a forward thinking approach, GF partners and customers are already taking decisive steps towards a sustainable future.

Sustainability in a nutshell

At GF we implement a comprehensive and broad definition of our sustainability that far exceeds environmental indicators. This is based on our skills to implement quality and service. Everything that applies to the entire product life cycle of our malleable cast iron fittings is also implemented in all of our logistic processes applied in the procurement, materials logistics and supply chain processes right through to the application and use of our products.

Product and process safety ensure application safety

- Single sourcing of malleable cast iron fittings reduces procurement costs and simplifies the maintenance of product data for our customers.
- Production and storage at the GF site in Traisen, Austria and a reliable supply chain reduces transaction and handling costs.
- Personalised delivery logistics and the option to access medium and smaller batch sizes guarantee a flexible approach.
- Continuous documentation reduces the amount of work required for proof of compliance, including in relation to supply chain legislation.
Benefit from the potential for sustainability with malleable cast iron fittings from GF

- Properties similar to that of steel offer a high level of flexibility and durability guaranteeing reliable use and a long service life
- High levels of temperature and pressure resistance
- Highest standards of hygiene: No microplastics, no heavy metal, no biologic/chemical conversion processes
- Base material can be recycled offering a closed material cycle
- Optimised international transport logistics, process-integrated quality assurance and storage at the site in Traisen, Austria make GF stand out as a partner offering long-term successful business relationships

+17% sustainability:

| Quality brand purchasers/European suppliers | 2% |
| Technical support | |
| High-quality applications | |
| Broad range | 2-5% |
| Certified products | 2% |
| Planning with a CAD programme | |
| Prefabrication (Z dimension) | 5% |
| Warranty | 1% |
| High-quality primary material (up to 80% recycled steel) | 2% |

**Market potential/increase in customers** up to 17%

-12.0% potential savings thanks to sustainability:

| +GF+ brand | 2% |
| Logistic synergy: | |
| Proximity to the market, use of low-emission trucks, no unladen journeys | 2-4% |
| Product data: Simplified, support, etc. | 1-2% |
| Procurement administration | 0.5-1% |
| Working capital (optimised storage) | 1% |
| Lower advertising costs | 1-2% |

**Cost savings/improved margins** up to 12.0%
A future-orientated framework for sustainability

At our GF site in Traisen we are working to achieve Scope 3 emissions. This is significant because the tempering technology that has been implemented for decades to optimise material properties, at first glance appears to have a negative CO₂ footprint. However, even when it comes to sustainability we think and act beyond the standards, ensuring our sustainability performance in conjunction with the company-wide framework conditions are a success.

The malleable cast iron fittings, that are made of a primary material that consist of up to 80% recycled steel and which can be reused at least three times, are the best example for this. This drastically reduces the negative values during the manufacturing process and has an equally positive impact on the entire life cycle of the fitting and raw material. Combined with the reduced storage and logistic requirements, the GF malleable cast iron fitting is one of the most emission-friendly products ever. Excellent figures are achieved when working with the GF malleable iron fitting, especially in view of the customer’s sustainability performance or EMAS 14000 certificates.

Strategic objectives of GF by 2025

- Reduction of the absolute CO₂ footprint by 21%
- Reduction of water consumption by 20%
- Reduction of generated waste by 20%
- Improvement of the sustainability performance in 80% of the procurement processes
- Use 33% of renewable energy for the entire production process

GF applies an integral approach to sustainability

- 70% of the turnover from the whole company provides social or environmental benefits
- We promote gender equality and provide a safe working environment
- Around 80% of employees recommend GF as an employer

5 We are united by... a large market potential.
GF malleable cast iron fittings – There is no alternative to premium quality

From versatility through to a reliable problem solver

White malleable iron proves its strength // With properties similar to those of steel our cast material is durable and flexible in every respect. In addition, the material impresses with its broad range of applications and versatility just as much as its potential to be implemented in special solutions.

For decades, malleable cast iron has not just been the technically superior material, it is also more cost-effective than alternatives.

• Lower price level than gun metal, for example
• Reduced cost fluctuations

GF malleable iron fittings not only offer a high level of pressure resistance but are also environmentally-friendly – from the raw material through to the integration of dismantled materials in existing recycling cycles.

A malleable cast iron fitting thus improves the sustainability performance across the entire product life cycle

In contrast to other piping components, our products stand out for the exceptionally high quality of the material and production. This is why GF malleable cast iron fittings can be reused up to three times. This is an enormous factor which not only has an impact on the costs and emissions in key figures.
If the sustainability of components, reliable materials and reproducible processes are important to you, there is no alternative but to opt for GF. By selecting malleable cast iron fittings from GF, you are also opting to rely on the knowledge of the leading manufacturer and will benefit from all of the advantages a technically perfect and simultaneously sustainable solution has to offer.

Holistic approach and implementation

Every project is sustainable // During the continuous development of our GF malleable cast iron fittings, first class product maintenance and the importance of sustainability are equally as important: The highest material quality and best processing in every detail are the best prerequisites for fault-free and fast processing at the installation site, as well as offering the lowest costs for the life cycle of the product.

Accurate fit of every design // Maximum service even during the planning process, as well a comprehensive CAD-Library will ensure with certainty that the planned design can be implemented accurately at site. There is a simple reason for this – when it comes to developing products we do this with the application technology in mind. Efficient planning and effective assembly ensure that prefabricated assemblies and streamline processes are possible. The reduced amount of work spent on the preparation and subsequent steps ensures a high-quality result that you can count on.
Z equals Z equals Z equals ... the ultimate benchmark

GF offers sustainable safety with a precise approach.

The Z-dimension system at GF

Precision on principle // We believe that ‘Z’ is not just a letter of the alphabet but stands for the A-Z of our product philosophy. GF malleable cast iron fittings are manufactured based on the highest standardisation principles. Standardised dimensions and the uniform Z-dimension of the fittings ensure that our different fittings, including the tee, elbow and cross fittings, are dimensionally compatible with one another.

By selecting the GF malleable cast iron fitting as the best possible product, our customers guarantee themselves an optimum workflow during any planned modification or extensions to existing installations.

Angular accuracy: That exceeds the standard

Convincing precision // Adherence to equal angles on our malleable cast iron fittings not only guarantees extensive industrial prefabrication and fast progress during project assembly, it also ensures we work within the tightest tolerances and values are below current valid standards. You will thus end up with an installation result that convinces completely – even visually – and which reduces processing costs during the cost-effective production of systems.
We are united by a common goal:

Whatever you connect with GF will persist

Efficient processing during prefabrication or at the installation site is an important part of the success. At the same time, the high market requirements regarding durability and sustainability must also be met, thus ensuring that installation, machinery or plant engineering companies are successful in the long term. When it comes to selecting a product, our customers prefer quality and reliability and therefore specifically try to minimise the risk of a system failure by opting for GF malleable cast iron fittings.

If acting sustainably opt for GF

High-quality processing // Pipelines for liquid media are the "nerves" of an object, system or machine. Nothing has more consequences than unforeseen breakdowns or even a complete failure. In these areas of application it is thus particularly important not to select the first option but to choose a really convincing malleable cast iron fitting.

Once installed correctly, GF products guarantee the future-proof function of the system.

At GF, we have stood for this for more than 150 years.
Sustainability with a competitive advantage

Transparency of Scope 3 emissions // When it comes to sustainability, we at GF in Traisen have made our contribution to the group of companies ensuring that the GF group is one of the top five companies in the world. This is why, when it comes to our malleable iron fittings and all of our other products, we take it very seriously when optimising the procurement processes and production procedures or continuing to support our customers. Our objective is clear – limiting the negative impact of climate change is the main focus of the sustainability framework at GF.

Reliability at the first glance

The whole is always more than the sum of its parts. This is why the quality of a machine, system or installation solution is really only revealed when you open the maintenance flaps or look in the documentation. This will show you which components are being used. The use of GF malleable cast iron fittings certainly guarantees that the quality is right.
This also applies to the service provided by GF employees who help our customers to achieve sustainable success. They are experts in communication and take a customer-focused approach to all processes, including the documentation.
This is real, sustainable GF Supply Management.
The clever decision that benefits the future

At GF we increase the sustainability of our customers

Highest requirements // Anyone who is committed to quality is thus laying the foundations for sustainable, technical solutions.

Example 1:
By opting for the logistics service from GF, customers reduce the CO₂ emissions for their own transport to Scope 2.

Example 2:
GF malleable cast iron fittings are already H₂-ready and are thus not restricted for future gaseous media and suitable for use without any system-specific adaptations.

Branded products from GF stand for the highest quality. By opting for our malleable cast iron fittings, our customers can be confident that they can fully rely on the guaranteed product properties and our service.

When we make decisions without hesitation relating to the metallurgy, fitting accuracy and precision on behalf of our customers, we do so to strive towards offering sustainable competitive advantages which our customers can realise with our precision fittings.
The advantages at a glance

When they first see our malleable cast iron fittings, many of our customers are convinced they have found the best product available on the market. Others recognise the high standards of our quality policy when they hold one of our fittings. While many customers are convinced by the quality of our products when they manually screw two of our fittings together. Other advantages only come to light once you collaborate with us.

Our product. Our services.
• Drinking water compliant zinc surface that meets all of the hygiene regulations
• Meets national and international standards
• Corrosion-resistant thread design with highest fitting accuracy
• Uniform installation dimensions as per EN 10242
• Wide-ranging product portfolio
• Manufactured in Traisen, Austria
• Excellent availability from central warehouse in Traisen, Austria
• Efficient logistics
• CAD-Library for rational planning
• Technical support and professional service provided by GF
We combine sustainability with future-orientated competitive advantages

Anyone who knows GF, knows what our company stands for:
The benefit of a tested solution

The success of our company can only be ensured if our customers implement our products successfully. We thus take everything, that is required to ensure this success, into consideration: Product performance and availability of the required quantities at the agreed deadline, price and service level.

Comprehensive thought processes and actions are fundamental characteristics of our work. Our customers experience this with every project. And have done so for more than 150 years.

With our malleable cast iron fittings, we are offering products to the market that have been developed on a continuous basis, while consistently focusing on the requirements of our customers and challenging future applications.
We provide our partners and customers with comprehensive information and documents about malleable cast iron fittings. However, these do not replace the benefits a personal conversation can offer. Please contact us with any questions, requirements or proposals.
Bound by quality

The GF brands stands for quality and reliability. These are the sources of our innovative capacity and the new opportunities that we take on with our partners.

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