

Malleable cast iron fittings

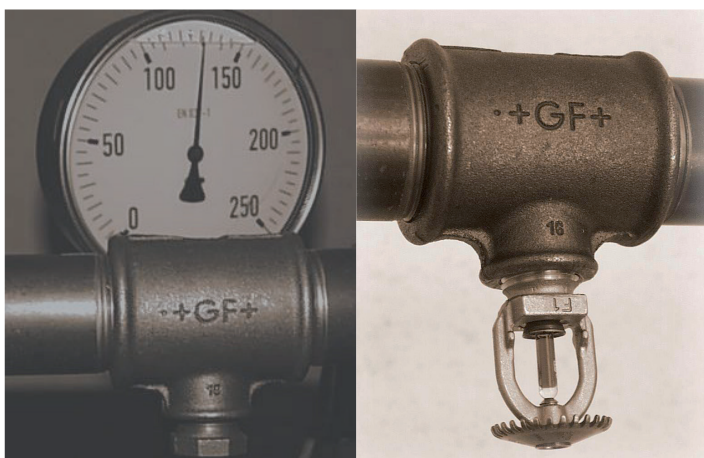
FM approved



The concept of Highly Protected Risk (HPR) was developed in the USA more than 100 years ago. It concentrates on avoiding weak points within the company which may potentially lead to a company standstill. Besides other principals, the specific use of sprinkler systems, the safety relevance of which has increased in recent years, is particularly important.

In order to fulfil HPR standards, "FM certified products" should preferably be used in fire protection equipment.

In order to fulfil this requirement and also to gain additional proof for the quality of Georg Fischer Malleable Iron Fittings, Georg Fischer Fittings GmbH has certified an assortment of fittings relevant for sprinkler systems in accordance with FM requirements.



Your Gain = Increased Value

Certified reliable components for high quality sprinkler systems. The pressure inspection performed on a random sample verifies a robust fittings construction which holds up to stress beyond normal working conditions, and includes the thread joint as well.

Factory Mutual Research monitors alterations of construction on a regular basis, production processes are inspected during an annual audit.

Through Factory Mutual Research certification, sprinkler builders are assured of a reliable production process within Georg Fischer Fittings GmbH. Please refer overleaf for the assortment of malleable iron fittings approved by Factory Mutual Research for a working pressure of up to 450 psi (31 bar), which will also be listed in the actual issue of the Factory Mutual Research Approval Guide – available under www.fmglobal.com.

About FM Global

FM Global is the largest international insurance service provider in commercial and industrial risk management.

As a part of the FM group of companies, Factory Mutual Research offers the certification of products for fire protection equipment and approval of finished fire protection equipment.

Certification Content

In order to gain FM approval, Georg Fischer Fittings GmbH was able to produce proof as listed opposite during an audit and sample inspection.

- Certified QM-System according to ISO 9001
- Production Audit with emphasis on Product Inspection and Measuring Equipment Inspection
- Full Product Documentation
- Pressure test on assembled malleable iron fittings at 130 bar.

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FM certified assortment

Equal fittings, sizes 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

1	Long sweep bend	90	Elbow	280	Hexagon nipple
2		92		290	Plug, beaded
3		94		291	Plug, plain, hollow
40	Long sweep bend 45°	120	Elbow 45°	291a	(a ... solid)
41		121		300	Cap
1a	Short bend	130	Tee	340	Union taper seat
2a		134		341	
50	Bend 30°	*133	Tee (* ½ - ¾ - 1)		
51		*135			
53	Bend 15°	180	Cross		
54		270	Socket		

Reduced fittings

90 reducing



$\frac{1}{2} - \frac{1}{4}$
$\frac{1}{2} - \frac{3}{8}$
$\frac{3}{4} - \frac{3}{8}$
$\frac{3}{4} - \frac{1}{2}$
$1 - \frac{1}{2}$
$1 - \frac{3}{4}$
$1\frac{1}{4} - \frac{1}{2}$
$1\frac{1}{4} - \frac{3}{4}$
$1\frac{1}{4} - 1$
$1\frac{1}{2} - \frac{3}{4}$
$1\frac{1}{2} - 1$
$1\frac{1}{2} - 1\frac{1}{4}$
$2 - 1$
$2 - 1\frac{1}{4}$
$2 - 1\frac{1}{2}$

92 reducing



$\frac{1}{2} - \frac{3}{4}$
$\frac{3}{4} - \frac{1}{2}$
$1 - \frac{3}{4}$
$1 - \frac{3}{4}$
$1 - 1\frac{1}{4}$
$1\frac{1}{4} - \frac{3}{4}$
$1\frac{1}{4} - 1$
$1\frac{1}{2} - 1$
$1\frac{1}{2} - 1\frac{1}{4}$

130 reducing



$\frac{1}{2} - \frac{1}{4}$	$1\frac{1}{4} - 1\frac{1}{4} - \frac{1}{2}$
$\frac{1}{2} - \frac{3}{8}$	$1\frac{1}{4} - 1\frac{1}{4} - \frac{3}{4}$
$\frac{1}{2} - \frac{3}{4}$	$1\frac{1}{4} - 1\frac{1}{4} - 1$
$\frac{1}{2} - 1$	$1\frac{1}{4} - 1\frac{1}{2}$
$\frac{3}{4} - \frac{1}{4}$	$1\frac{1}{4} - 1\frac{1}{2} - 1$
$\frac{3}{4} - \frac{3}{8}$	$1\frac{1}{4} - 2$
$\frac{3}{4} - \frac{1}{2}$	$1\frac{1}{2} - \frac{1}{2}$
$\frac{3}{4} - \frac{1}{2} - \frac{1}{2}$	$1\frac{1}{2} - \frac{1}{2} - 1\frac{1}{4}$
$\frac{3}{4} - \frac{3}{4} - \frac{3}{8}$	$1\frac{1}{2} - \frac{3}{4}$
$\frac{3}{4} - \frac{3}{4} - \frac{1}{2}$	$1\frac{1}{2} - \frac{3}{4} - 1\frac{1}{4}$
$\frac{3}{4} - 1$	$1\frac{1}{2} - 1$
$\frac{3}{4} - 1 - \frac{1}{2}$	$1\frac{1}{2} - 1 - 1$
$1 - \frac{1}{4}$	$1\frac{1}{2} - 1\frac{1}{4}$
$1 - \frac{3}{8}$	$1\frac{1}{2} - 1\frac{1}{4} - 1\frac{1}{4}$
$1 - \frac{1}{2}$	$1\frac{1}{2} - 1\frac{1}{2} - \frac{1}{2}$
$1 - \frac{1}{2} - \frac{1}{2}$	$1\frac{1}{2} - 1\frac{1}{2} - \frac{3}{4}$
$1 - \frac{1}{2} - \frac{3}{4}$	$1\frac{1}{2} - 1\frac{1}{2} - 1$
$1 - \frac{3}{4}$	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{4}$
$1 - \frac{3}{4} - \frac{1}{2}$	$1\frac{1}{2} - 2$
$1 - \frac{3}{4} - \frac{3}{4}$	$1\frac{1}{2} - 2 - 1\frac{1}{4}$
$1 - 1 - \frac{3}{8}$	$2 - \frac{1}{2}$
$1 - 1 - \frac{1}{2}$	$2 - \frac{1}{2} - 1\frac{1}{2}$
$1 - 1 - \frac{3}{4}$	$2 - \frac{3}{4}$
$1 - 1\frac{1}{4}$	$2 - \frac{3}{4} - 1\frac{1}{2}$
$1 - 1\frac{1}{4} - \frac{3}{4}$	$2 - 1$
$1 - 1\frac{1}{2}$	$2 - 1 - 1\frac{1}{2}$
$1\frac{1}{4} - \frac{3}{8}$	$2 - 1\frac{1}{4}$
$1\frac{1}{4} - \frac{1}{2}$	$2 - 1\frac{1}{4} - 1\frac{1}{2}$
$1\frac{1}{4} - \frac{1}{2} - 1$	$2 - 1\frac{1}{2}$
$1\frac{1}{4} - \frac{3}{4}$	$2 - 1\frac{1}{2} - 1\frac{1}{2}$
$1\frac{1}{4} - \frac{3}{4} - \frac{3}{4}$	$2 - 2 - \frac{1}{2}$
$1\frac{1}{4} - \frac{3}{4} - 1$	$2 - 2 - \frac{3}{4}$
$1\frac{1}{4} - 1$	$2 - 2 - 1$
$1\frac{1}{4} - 1 - \frac{3}{4}$	$2 - 2 - 1\frac{1}{4}$
$1\frac{1}{4} - 1 - 1$	$2 - 2 - 1\frac{1}{2}$

180 reducing



$\frac{3}{4} - \frac{1}{2}$
$1 - \frac{1}{2}$
$1 - \frac{3}{4}$
$1\frac{1}{4} - 1$
$1\frac{1}{2} - 1$
$2 - 1$

240, 241



$\frac{1}{2} - \frac{3}{8}$
$\frac{3}{4} - \frac{3}{8}$
$\frac{3}{4} - \frac{1}{2}$
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$1\frac{1}{4} - \frac{1}{2}$
$1\frac{1}{4} - \frac{3}{4}$
$1\frac{1}{4} - 1$
$1\frac{1}{2} - \frac{1}{2}$
$1\frac{1}{2} - \frac{3}{4}$
$1\frac{1}{2} - 1$
$1\frac{1}{2} - 1\frac{1}{4}$
$2 - \frac{1}{2}$
$2 - \frac{3}{4}$
$2 - 1$
$2 - 1\frac{1}{4}$
$2 - 1\frac{1}{2}$

246



$\frac{1}{2} - \frac{3}{8}$
$\frac{3}{4} - \frac{3}{8}$
$\frac{3}{4} - \frac{1}{2}$
$1 - \frac{1}{2}$
$1 - \frac{3}{4}$
$1 \frac{1}{4} - \frac{1}{2}$
$1 \frac{1}{4} - \frac{3}{4}$
$1 \frac{1}{4} - 1$
$1 \frac{1}{2} - \frac{3}{4}$
$1 \frac{1}{2} - 1$
$1 \frac{1}{2} - 1 \frac{1}{4}$
$2 - 1$
$2 - 1 \frac{1}{4}$
$2 - 1 \frac{1}{2}$

Available in black and galvanised finish,
code-numbers (as standard article) see catalogue.

