

## Pipe, Fittings and Pipe Joints for Underground Fire Service Mains

Underground fire service mains are made from many different materials. Cast iron, ductile iron, stainless steel pipe, Polyvinyl Chloride (PVC), Polyethylene (PE), and Fiber Reinforced Composite (FRP of Fiberglass) pipe and fittings are acceptable when they are FM Approved.

Installation of these products should conform to FM Global Property Loss Prevention Data Sheets.

### Ductile Iron Pipe and Fittings

Ductile iron pipe and fittings should be installed and anchored according to the manufacturer's instructions and FM Global Property Loss Prevention Data Sheets. For underground use only.

### Ductile Iron Pipe and Fittings

#### Product Specification

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
BLS	BLS Pipe, normal locks or restraining ring	80, 100, 125, 150	25	(360)
BLS	BLS Pipe, normal locks or restraining ring	200, 250 300, 400	16	(230)
GL	Pipe section with two welded beads with BLS Locks and Clamping Rings	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
EU	Flanged Sockets	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
FFG	Double Flanged Pipes	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
F	Flanged Spigots	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMQ	90° Double-Socket Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMK	45° Double-Socket Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMK	30° Double-Socket Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMK	22.5° Double-Socket Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMK	11.25° Double-Socket Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
MMA	Double-Socket Tee with Flanged Branch	400x400x400, 400x400x300, 400x400x200, 400x400x150,300x300x80,300x300x100, 300x300x150, 300x300x200, 300x300x300, 200x200x200,200x200x150, 200x200x100, 200x200x80, 150x150x150, 150x150x100, 150x150x80,125x125x125, 125x125x100 125x125x80, 100x100x100, 100x100x80, 80x80x80	16	(230)
MMB	All Socket Tee	400x400x400, 300x300x300, 300x300x250,300x300x200, 300x300x150, 300x300x100, 300x300x80, 250x250x250,250x250x200, 250x250x150, 250x250x125, 250x250x100, 250x250x80, 200x200x200,200x200x150, 200x200x125, 200x200x100, 200x200x80, 150x150x150, 150x150x125,150x150x100, 150x150x80, 125x125x125, 125x125x100, 125x125x80, 100x100x100,100x100x80, 80x80x80	16	(230)

MMR	Double-Socket Taper	400x300, 300x250, 300x200, 300x150, 250x200, 250x150, 250x125, 200x150, 200x125, 200x100, 150x125, 150x100, 125x100, 100x80, 125x80, 150x80	16	(230)
Q	90° Flanged Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
FFK	45° Flanged Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
FFK	30° Flanged Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
FFK	22.5° Flanged Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
FFK	11.25° Flanged Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
N	90° Double-Flanged Duck Foot Bend	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
EN	90° Flange and Socket Duck Foot Bend	80, 100	16	(230)
T	All Flanged Tee	400x400x400, 400x400x300, 400x400x200, 400x400x150, 400x400x100, 400x400x80, 300x300x300, 300x300x200, 300x300x100, 250x250x250, 250x250x200, 250x250x100, 200x200x200, 200x200x150, 200x200x100, 200x200x80, 150x150x150, 150x150x125, 150x150x100, 150x150x80, 125x125x125, 125x125x100, 125x125x80, 100x100x100, 100x100x80, 80x80x80	16	(230)
FFR	Double-Flanged Taper	400x300, 400x250, 300x250, 300x200, 250x200, 200x150, 200x125, 200x100, 200x80, 150x125, 150x100, 150x80, 125x100, 125x80, 100x80	16	(230)
MK	45° Single Socket Bend	80, 100, 125, 150, 200, 250, 300	16	(230)
MK	30° Single Socket Bend	80, 100, 125, 150, 200, 250, 300	16	(230)
MK	22.5° Single Socket Bend	80, 100, 125, 150, 200, 250, 300	16	(230)
MK	11.25° Single Socket Bend	80, 100, 125, 150, 200, 250, 300	16	(230)
U	Collar	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
X	Blind Flange	80, 100, 125, 150, 200, 250, 300, 400	16	(230)
P	Plug	80, 100, 125, 150, 200, 250, 300	16	(230)

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<b>New/Updated Product Listing:</b>	No
<b>Listing Country:</b>	Germany
<b>Certification Type:</b>	FM Approved
<b>Class of Work:</b>	1610-Pipe, Ftngs&Coupl, Undg, DI