

## 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.

### Polyethylene Pipe and Fittings

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

Nominal pipe size is the approximate outside diameter of the pipe. Refer to manufacturer's catalog for pipe inside diameter.

### Polyethylene Pipe and Fittings

Product Designation	O.D., Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
<b>Electrofusion fittings PE100, SDR 11</b>			
EF Coupler	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16 (232)	b, c
EF Tee 90°	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	10.5 (150)	a, b, c
EF Elbow 90°	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	10.5 (150)	a, b, c
EF Elbow 45°	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	10.5 (150)	a, b, c
Branch Saddle 1	40x20, 40x25, 40x32, 63x20, 63x32, 63x40, 63x50, 63x63, 75x40, 75x50, 75x63, 90x20, 90x25, 90x32, 90x40, 90x50, 90x63, 110x20, 110x25, 110x40, 110x50, 110x63, 125x20, 125x25, 125x32, 125x40, 125x50, 125x63, 140x20, 140x25, 140x32, 140x40, 140x50, 140x63, 160x20, 160x25, 160x32, 160x40, 160x50, 160x63, 180x20, 180x25, 180x32, 180x40, 180x50, 180x63, 200x20, 200x25, 200x32, 200x40, 200x50, 200x63, 225x20, 225x25, 225x32, 225x40, 225x50, 225x63, 250x20, 250x25, 250x32, 250x40, 250x50, 250x63, 280x20, 280x25, 280x32, 280x40, 280x50, 280x63, 315x20, 315x25, 315x32, 315x40, 315x50, 315x63	10.5 (150)	b, c
Branch Saddle SDR11 PN16	180x63, 180x75, 180x90, 180x110, 180x125, 200x63, 200x75, 200x90, 200/225x110, 200/225x125, 225/280x63, 225/280x75, 225/280x90, 250/280x110, 250/280x125, 315/450x63, 315/450x75, 315/450x90, 315/400x110, 315/400x125, 315/400x160, 450/500x110, 450/500x125, 450/500x160, 500/560x63, 500/560x75, 500/560x90, 560/630x110, 560/630x125, 560/630x160, 710/800x110, 710x800x125, 710/800x160, 900/1000x110, 900/1000x125, 900/1000x160	14 (200)	b, c
EF Reducer	40x25, 40x32, 50x25, 50x32, 50x40, 63x25, 63x32, 63x40, 63x50, 75x50, 75x63, 90x50, 90x63, 90x75, 110x63, 110x75, 110x90, 125x63, 125x90, 125x110, 160x90, 160x110, 160x125, 180x125, 200x160, 200x180	10.5 (150)	a, b, c
<b>Electrofusion fittings PE100, SDR 9</b>			
EF Coupler	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20 (290)	b, c
<b>Electrofusion fittings PE100, SDR 7.4</b>			
EF Coupler	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	25 (362)	b, c
<b>Electrofusion fittings PE100, DIPS Sizes</b>			
EF Coupler, SDR11	3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24	16 (232)	b, c

EF Coupler, SDR7.0	2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24	27.5 (400)	b, c
<b>Electrofusion fittings PE100, IPS Sizes</b>			
EF Coupler, SDR17	22, 26, 28, 30, 32, 36, 42, 48	10.5 (150)	b, c
EF Coupler, SDR11	3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	16 (232)	b, c
EF Coupler, SDR11	26, 28	14 (200)	b, c
EF Coupler, SDR7.0	2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24	27.5 (400)	b, c
Branch Saddle	8/10x2, 8/10x3, 8x4, 10x4, 12/18x2, 12/18x3, 12/16x4, 12x6, 14x6, 16x6, 18/20x4, 18/20x6, 20/22x2, 20/22x4, 22/26x4, 22/26x6, 24/42x2, 24/42x3, 28/32x4, 28/32x6, 34/42x4	12 (175)	b, c

**Remarks:**

- a. Spigot fittings only to be used with electrofusion couplers.  
b. The manufacturer's electro-fusion welding instructions must be strictly adhered to for a proper joint.  
c. The fittings are manufactured of injection molded PE100.

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<b>New/Updated Product Listing:</b>	Yes
<b>Listing Country:</b>	United States of America
<b>Certification Type:</b>	FM Approved