

# ENFIELD ELECTROFUSION ACID WASTE SYSTEMS

1-1/2" - 12"

## ENFIELD™

Enfield electrofusion fittings are molded with an integral resistance wire in the socket, with jointing completed by energizing the resistance wire via a microprocessor controlled Enfusion Control Unit. The result of these innovations is an unparalleled level of joint reliability and repeatability. Enfield has proven over time that it produces the optimum level of performance where it matters most - at the joint interface. It offers unprecedented control of jointing - controlled fit, controlled temperature and controlled time.

### ADVANTAGES

- 1 **Positive reliable joints** made in 2 minutes - installation time is reduced
- 2 **Several joints can be made at one time**
- 3 **Proven reliability** for over a decade
- 4 **Enfield is manufactured from polypropylene** which has an operating temperature range from -10°F to 180°F. With occasional exposure to 212°F; this allows systems to be flushed with boiling water
- 5 **Heavy gauge resistance wire** molded into sockets - no loose components, controlled fusion of joints
- 6 **Easy connecting** heavy duty socket terminal posts complete with protection ears
- 7 **Microprocessor controlled Enfusion unit** ensures secure joints and joint repeatability
- 8 **Matched system** - high quality pipe and fittings are matched to give ease of installation and long term reliability
- 9 **Easy to install** - even in difficult areas
- 10 **Installed cost 50% less than glass**
- 11 **Breakage factor eliminated**
- 12 **Maintenance free**

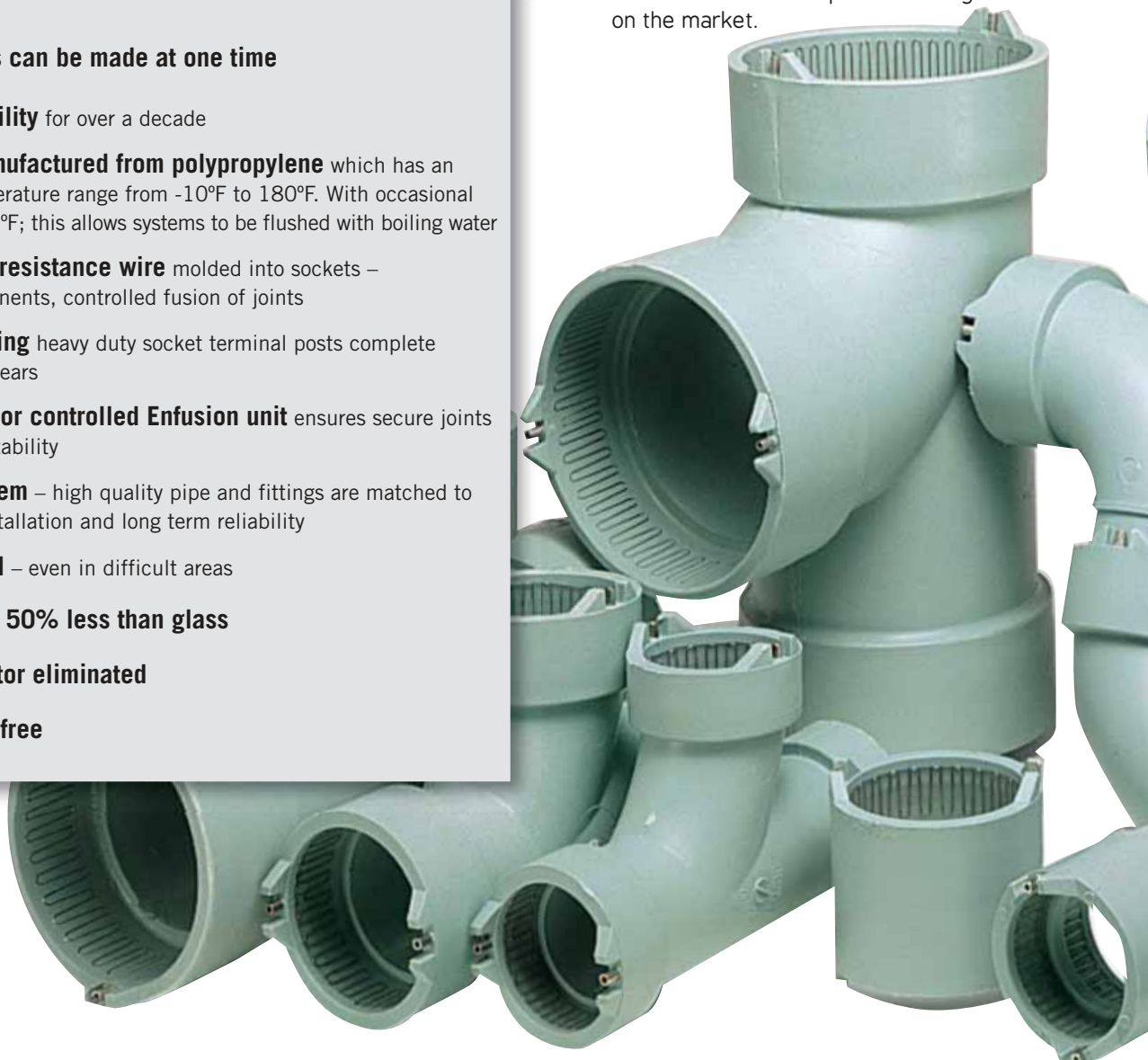
### STANDARDS



NSF-approved  
IAPMO-listed & CSA-certified  
Meets ASTM F1412, D4101 and CSA B181.3

### **i** DID YOU KNOW?

Enfield® offers polypro fittings, constructed with a heavy gauge resistance wire that is integrally molded into the socket. These are considered to be the premier fittings on the market.



## SHORT FORM SPECIFICATIONS

### GENERAL

Acid waste drain and vent system, as shown on drawings, shall be NSF listed and CSA certified Schedule 40, polypropylene as manufactured by IPEX. System to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NFRPP is specified), fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

### MATERIAL

Pipe shall be made from NSF listed Type 110 or 210, flame retardant polypropylene conforming to ASTM D4101, with a maximum average flame spread of zero seconds and a maximum extent of burning of 13 mm, in accordance with ASTM D635. Matched fittings shall be made from NSF listed flame retardant polypropylene with average maximum burn time of 80 seconds and maximum extent of burning of 20 mm in accordance with ASTM D635.

If NFRPP pipe is specified, it shall be made from NSF 14 listed and CSA certified Schedule 40 PP as manufactured by IPEX. Pipe shall comply with ASTM F1412 and material used shall comply with the material requirements of ASTM D4101.

### FITTINGS

Fittings shall be NSF listed and have an integral heavy gauge, nickel/chrome electrical resistance wire molded in place in the fitting body. Copper wire elements, loose wire or other loose joint components, are prohibited. Fittings shall be Enfield or approved equal.

### JOINTS

Connections between polypropylene pipe and fittings shall be made using the Enfield joint. All joints shall have a fusion cycle controlled by a microprocessor operated, waterproof, Enfusion control unit equipped with input and output voltage sensors, ambient temperature sensors to automatically adjust fusion time and audible alarms to indicate cycle interruptions and completion of the joining process. The unit shall be capable of fusing multiple joints and with a minimum capability of eight 2" joints with the same fusion time as a single joint.

Connections between polypropylene and other piping materials shall be made using Enfield adapters according to manufacturer's (IPEX) recommendations. All electrofusion machines shall be third party certified by UL and CSA.

### INSTALLATION AND TESTING

Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports should be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8".

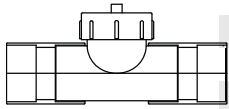


## PRODUCT SELECTION CHART – ENFIELD

Dimension inches	Significant Number	Product Code
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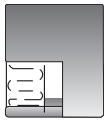
### Fabricated Cleanout Tee EJ

Dimension inches	Significant Number	Product Code
1-1/2	L901	257551
2	L902	257552
3	L903	257553
4	L904	257554
6	L906	257555



### Fabricated Cap EJ

Dimension inches	Significant Number	Product Code
1-1/2	L641	257541
2	L642	257543
3	L643	257544
4	L644	257545
6	L646	257546
8	L648	257547
10	L6410	257542
12	L6412	257548



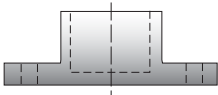
### Flange - ASA 150 EJ

Dimension inches	Significant Number	Product Code
1-1/2	L361	257361
2	L362	257365
3	L363	257366
4	L364	257367
6	L366	257368



### Fabricated Flange - ASA 150 EJ

Dimension inches	Significant Number	Product Code
8	L368	257369
10	L3610	257362
12	L3612	257363



### Fabricated Blind Flange - ASA 150

Dimension inches	Significant Number	Product Code
8	L3688	257370
10	L361010	257360
12	L361212	257364



Dimension inches	Significant Number	Product Code
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### Reducing Bushing Sp x EJ

Dimension inches	Significant Number	Product Code
2 x 1-1/2	L3912	257472
3 x 1-1/2	L3913	257473
3 x 2	L3923	257476
* 4 x 1-1/2	L3914	257474
4 x 2	L3924	257477
4 x 3	L3934	257479
6 x 1-1/2	L3916	257475
* 6 x 3	L3936	257480
6 x 4	L3946	257483
* 8 x 3 **	L3938	257481
* 8 x 4	L3948	257484
8 x 6	L3968	257486
* 10 x 4	L39410	257482
* 10 x 6	L39610	257485
10 x 8	L39810	257487
† 12 x 4	L39412	257489
† 12 x 6	L39612	257490
† 12 x 8	L39812	257488
† 12 x 10	L391012	257471



\* Assembled

† Fabricated

\*\* Discontinued when stock is depleted

### Adapter Female Thread x LN

Dimension inches	Significant Number	Product Code
1-1/2	L101	257101



### Adapter EJ x LN

Dimension inches	Significant Number	Product Code
1-1/2	L111	257111



### Male Adapter EJ x Male Thread

Dimension inches	Significant Number	Product Code
1-1/2	L141	257121
2	L142	257122



### Female Adapter EJ x Female Thread

Dimension inches	Significant Number	Product Code
1-1/2	L151	257131
2	L152	257132



IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.