

ENFIELD ELECTROFUSION ACID WASTE SYSTEMS

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 (-23°C) to 212°F (100°C).* 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



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 1, 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

Dimension inches	Product Code
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AW Polypropylene Pipe Flame Retardant Sch 40



1-1/2	146001
2	146002
3	146003
4	146004
6	146006
8	146008
10	146010
12	146012

10' Lengths

Dimension inches	Product Code
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AW Polypropylene Pipe Flame Retardant Sch 40



1-1/2	146031
2	146032
3	146033
4	146034
6	146036
8	146038
10	146040
12	146042

20' Lengths

Note: 20' Schedule 40 FR pipe is a non-stock item available upon special order.

AW Polypropylene Pipe Flame Retardant Sch 80



1-1/2	146013
2	146014
3	146015
4	146016

10' Lengths

Note: 20' Schedule 80 FR pipe is a non-stock item available upon special order.

AW Polypropylene Pipe Flame Retardant Sch 80



1-1/2	146022
2	146023
3	146024
4	146025

20' Lengths

Note: 20' Schedule 80 FR pipe is a non-stock item available upon special order.

AW Polypropylene Pipe Black Non-Flame Retardant Sch 40



1-1/2	146101
2	146102
3	146103
4	146104
6	146106
8	146108
10	146110
12	146212

20' Lengths

AW Polypropylene Pipe Black Non-Flame Retardant Sch 80



1-1/2	146201
2	146202
3	146203
4	146204
6	146206
8	146208
10	146210
12	146211

20' Lengths

Dimension inches	Product Code
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Black Non-Flame Retardant Enfield Coupling



2	257147
3	257150
4	257154
6	257158
8	257161
10	257143
12	257145

Coupling EJ



1-1/2	257141
2	257146
3	257149
4	257153
6	257157
8	257160
10	257142
12	257144

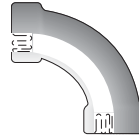
Fabricated Repair Coupling EJ



2	257148
3	257152
4	257156
6	257159
8	257295

Dimension inches	Product Code
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90° Sweep EJ



1-1/2	257171
2	257172
3	257173
4	257174
6	257175

90° Sweep EJ x Sp



1-1/2	257281
2	257282
3	257283
4	257284
6	257286

1/8 Bend EJ



1-1/2	257191
2	257194
3	257195
4	257196
6	257197

1/8 Bend EJ x Sp



1-1/2	257221
2	257222
3	257223
4	257224
6	257225

Fabricated 1/8 Bend EJ



8	257198
10	257192
12	257193

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

PRODUCT SELECTION CHART

Dimension inches	Product Code
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1/4 Bend (90°) EJ



1-1/2	257181
2	257184
3	257031
4	257032
6	257033

1/4 Bend (90°) EJ x Sp



1-1/2	257291
2	257293
3	257034
4	257035
6	257036

1/4 Bend EJ x LN



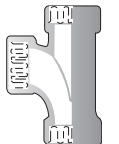
1-1/2	257292
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Fabricated 1/4 Bend (90°) EJ



8	257185
10	257182
12	257183

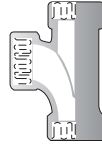
Sanitary Tee EJ



1-1/2	257201
2	257206
3	257208
4	257211

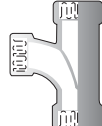
Dimension inches	Product Code
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Fabricated Sanitary Tee EJ



6	257214
8	257217
10	257202
12	257205

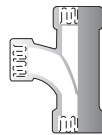
Reducing Sanitary Tee EJ



2 x 1-1/2	257207
3 x 1-1/2	257209
3 x 2	257210
4 x 2	257212
*4 x 3	257213

* Fabricated

Fabricated Reducing Sanitary Tee EJ



6 x 2	257215
6 x 4	257216
8 x 3	257163
8 x 4	257218
8 x 6	257219
10 x 3	257164
10 x 4	257203
10 x 6	257204
10 x 8	257165
12 x 4	257166
12 x 6	257167
12 x 8	257168
12 x 10	257169

Double Sanitary Tee EJ

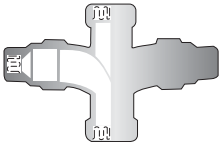


*1-1/2	257351
2	257352
3	257354
4	257357

* Fabricated

Dimension inches	Product Code
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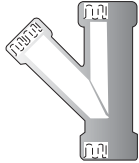
Reducing Double Sanitary Tee EJ



2 x 1-1/2	257353
3 x 1-1/2	257355
4 x 2	257358
4 x 3	257359

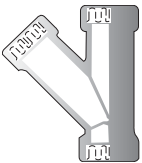
Dimension inches	Product Code
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Fabricated Reducing Wye EJ



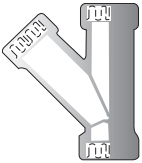
8 x 2	257427
8 x 3	257415
8 x 4	257416
8 x 6	257421
10 x 3	257428
10 x 4	257373
10 x 6	257379
10 x 8	257380
12 x 3	257429
12 x 4	257383
12 x 6	257387
12 x 8	257388
12 x 10	257430

45° Wye EJ



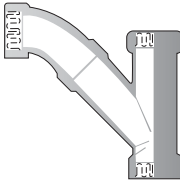
1-1/2	257371
2	257390
3	257394
4	257400
6	257406

Fabricated 45° Wye EJ



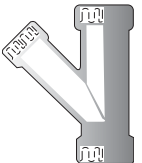
8	257414
10	257372
12	257381

Combination Wye & 1/8 Bend (Long Turn Wye) EJ



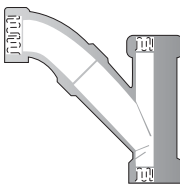
1-1/2	257389
2	257392
3	257397
4	257403
6	257410

Reducing Wye EJ



2 x 1-1/2	257391
3 x 1-1/2	257395
3 x 2	257396
4 x 1-1/2	257425
4 x 2	257401
4 x 3	257402
6 x 1-1/2	257426
6 x 2	257407
6 x 3	257408
6 x 4	257409

Fabricated Combination Wye & 1/8 Bend EJ



8	257417
10	257374
12	257384

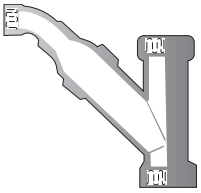
IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

PRODUCT SELECTION CHART

Dimension inches	Product Code
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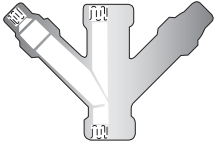
Dimension inches	Product Code
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Reducing Combination Wye & 1/8 Bend EJ



2 x 1-1/2	257393
3 x 1-1/2	257398
3 x 2	257399
4 x 1-1/2	257431
4 x 2	257404
4 x 3	257405
6 x 1-1/2	257432
6 x 2	257411
6 x 3	257412
6 x 4	257413

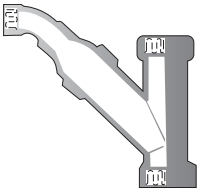
Reducing Double 45° Wye EJ



*2 x 1-1/2	257446
6 x 4	257458

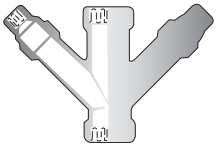
* Fabricated

Fabricated Reducing Combination Wye & 1/8 Bend EJ



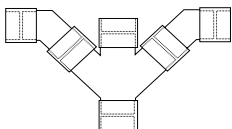
8 x 4	257419
8 x 6	257420
10 x 3	257375
10 x 4	257376
10 x 6	257377
10 x 8	257378
12 x 3	257433
12 x 4	257434
12 x 6	257435
12 x 8	257386
12 x 10	257385

Fabricated Reducing Double 45° Wye EJ



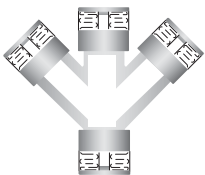
3 x 2	257449
4 x 2	257453
4 x 3	257454
8 x 6	257461
10 x 4	257443
10 x 6	257463
10 x 8	257444
12 x 4	257464
12 x 6	257465
12 x 8	257466
12 x 10	257467

Fabricated Double Combination Wye & 1/8 Bend EJ



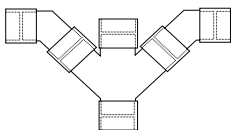
2	257447
3	257450
4	257455
6	257459

Fabricated Double 45° Wye EJ



2	257445
3	257448
4	257452
6	257457
8	257460
10	257442
12	257462

Fabricated Reducing Double Combination Wye & 1/8 Bend EJ



3 x 2	257451
4 x 2	257456

Dimension inches	Product Code
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True Wye EJ



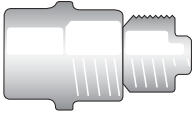
1-1/2	257341
2	257342

Reducing True Wye EJ



2 x 1-1/2	257343
3 x 2	257344

Cleanout P w/Plug Sp



1-1/2	257232
2	257235
3	257238
4	257241
*6	257244

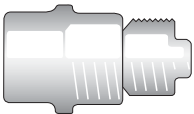
*Fabricated

Cleanout Plug Male Thread



1-1/2	257233
2	257236
3	257239
4	257242

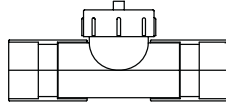
Cleanout w/ Brass Plug Sp



1-1/2	257246
2	257231
3	257247
4	257248

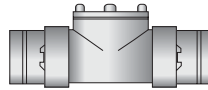
Dimension inches	Product Code
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Fabricated Cleanout Tee Sp



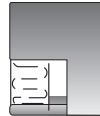
1-1/2	257551
2	257552
3	257553
4	257554
6	257555

Molded Cleanout Tee Sp



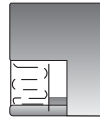
2	257176
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Molded Cap EJ



1-1/2	257023
2	257022

Fabricated Cap EJ



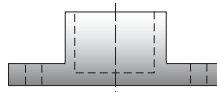
3	257544
4	257545
6	257546
8	257547
10	257542
12	257548

Flange - ASA 150 EJ



1-1/2	257361
2	257365
3	257366
4	257367
6	257368

Fabricated Flange - ASA 150 EJ




8	257369
10	257362
12	257363

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PRODUCT SELECTION CHART


Dimension inches	Product Code
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Blind Flange - ASA 150



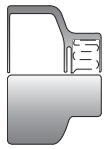
1-1/2	231453
2	231454
3	231455
4	231456
6	231457
8	231458
10	231451
12	231452

Fabricated Blind Flange - ASA 150



8	257370
10	257360
12	257364

Reducing Bushing Sp x EJ




2 x 1-1/2	257472
** 3 x 1-1/2	257473
3 x 2	257476
** 4 x 1-1/2	257474
4 x 2	257477
4 x 3	257479
6 x 1-1/2	257475
6 x 2	257478
6 x 3	257480
6 x 4	257483
8 x 3	257481
8 x 4	257484
8 x 6	257486
10 x 4	257482
10 x 6	257485
10 x 8	257487
12 x 4	257489
12 x 6	257490
12 x 8	257488
12 x 10	257471

** Discontinued when stock is depleted

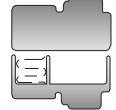
Dimension inches	Product Code
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Adapter Female Thread x Loose Nut




1-1/2	257101
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Adapter EJ x LN



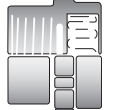
1-1/2	257111
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Male Adapter EJ x Male Thread




1-1/2	257121
2	257122

Female Adapter EJ x Female Thread



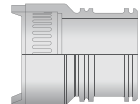
1-1/2	257131
2	257132
3	257733
4	257734

Glass Adapter EJ x Bead



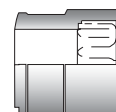
1-1/2	257501
2	257502
3	257503
4	257504

Duriron Adapter EJ x Spigot



1-1/2	257511
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Cast Iron Adapter Soc x MJ Sp



1-1/2	257130
2	257512
3	257513
4	257514

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Dimension inches	Product Code
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3"/12" FRPP Tail Piece Adapter

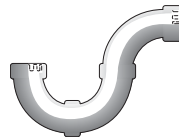


1-1/2 x 3	257133
1-1/2 x 12	257134

c/w Spig x Brass Compression Ring

Dimension inches	Product Code
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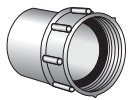
P Trap - 3 piece EJ



3	257563
4	257564
6	257565

Shipped as 3 pieces

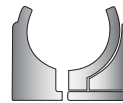
1-1/2" x 12" FRPP Swivel Sink Strainer Adapter Spg x Female Thread



1-1/2 x 12	257090
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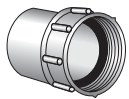
c/w Viton® Gasket

Pipe Clip



1-1/2	156251
2	156252

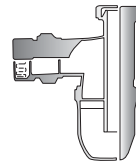
FRPP Swivel Sink Strainer Adapter Spg x Female Thread



1-1/2	257093
*1-1/2	156450

c/w Viton® Gasket
*Pregrooved for Labline. Nut and Olive are extra.

Universal Trap - Solid Base, P Type EJ x Female Thread



1-1/2	257521
1-1/2	257522

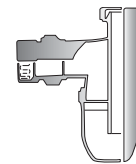
P Trap - 2 piece EJ



1-1/2	257104
2	257105

Shipped as 2 pieces

Universal Trap - Clear Base, P Type EJ x Female Thread



1-1/2	257531
1-1/2	257532

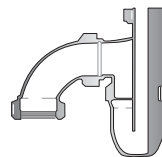
Fabricated P Trap - 2 piece EJ



8	257566
10	257562

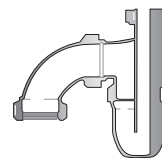
Shipped as 2 pieces

Universal Trap - Solid Base, S Type Soc



1-1/2	257523
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Universal Trap - Clear Base, S Type Soc



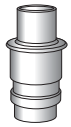
1-1/2	257533
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IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.

PRODUCT SELECTION CHART

Dimension inches	Product Code
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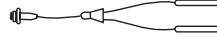
Compensator Joint



3	257107
4	257108
6	257109

Description	Product Code
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Connector Cable - NEW Style Machine



-	257278
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Enfufion Control Unit - Complete Kit



-	257279
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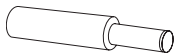
Kit includes hub clamps, 1 1/2" thru 6", connector cable & 5' link cable.

Connector Cable - Old Style Machine



-	257263
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Extension Pins



-	257778
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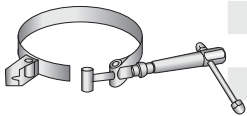
Priced per extension pin.

Connector Cable - EZ Connector Cable



-	257294
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Enfufion Hub Clamp - New T Bar Handle & Bushing



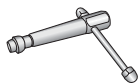
1-1/2	257254
2	257256
3	257257
4	257258
6	257259
8	257260
10	257255
12	257262

Link Cable c/w EZ Connector



2 ft. EZ	257268
5 ft. EZ	257269
10 ft. EZ	257270
15 ft. EZ	257271

Stainless Steel T Handle for Hub Clamps



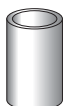
1-1/2 to 12	257125
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Link Cable c/w Link Lead



5 ft.	257265
10 ft.	257266
15 ft.	257267

Oil Impregnated Brass Bushings for Clamps



1-1/2 to 12	257094
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Fuses

16 AMP	257801
100 MILAMP	257276
500 MILAMP	257277

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