

Polyethylene Pipe & Fittings
A component
Pressure PE Piping System
Solution Provider



新力國際技術產品有限公司
GRAND APEX INTERNATIONAL CO., LTD.

AGILITY
RELIABILITY
FOCUS

2019 version



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*Engineer and/or Gapex is required when designing for particular applications.

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1 ABOUT US

Grand Apex International Limited is a Hong Kong based company founded in 2005 and is one of the leading companies supplying high quality PE pipes and accessories for various government and private construction projects.

Our PE products in many series can be used in various application including drinking water supplies, sewerage or drainage systems, ducting for public utilities (e.g. gas, electricity and communication), mining and agriculture irrigation.



Excellence in product quality

A complete range of specifications are available for selection

Materials with advanced performance, reliable and efficient

Comprehensive and timely post-sale service



PRIME POLYMER
私たちがめざすのは「プライム ソリューション パートナー」



Over the years we have been able to build a professional practice based on internationally recognized standards with highly competent and experienced staff. Upon request from customers, we are able to provide engineering solutions and supply made-to-order PE products to cope with specific engineering requirements.

To ensure high quality of our PE pipe products, all materials for manufacturing are procured directly from the international petroleum refinery companies (e.g. Sinopec, CNPC, SCG, etc). The entire production process is closely monitored in accordance with our certified ISO systems. Every batch of our PE pipe products are tested pursuant to the designated international standards prior to certification and delivery to our customers.



We also strive to supply PE pipe products with the best quality, a range of specifications, high performance raw materials, and timely customers support as well as total-solution services (design, supply, and construction) ensuring that our customer are satisfied with our PE pipe products from procurement to final inspection.

Excellent Service
For customers

We also strive to provide the best professional knowledge of HDPE products
And total-solution services to our customers ensuring that the procured HDPE products are of the most suitable ones for the projects.

2 Features and benefits of PE Pipe

Polyethylene (PE) has grown to become one of the world's most widely used and recognized thermoplastic materials since its discovery in 1933. The versatility of this unique plastic material is demonstrated by the diversity of its use. Today modern PE resins are highly engineered for much more rigorous applications such as pressure-rated gas and water pipes; and other demanding applications.

The PE pipe is a product formed from extruding, taking the high quality PE resin as main material, adding necessary additives such as anti-oxidant, ultraviolet absorber and so on. The PE pipe has application history over 40 years. And recent academic reaches and materials supply has recorded PE can attain a 100 years lifetime performance.



2.1 Benefits of PE Pipe

- ▶ 1. Easy handling and installation due to low weight and flexibility Internal, external and microbiological corrosion resistance
- ▶ 2. Good hydraulic properties and No encrustations
- ▶ 3. Good abrasion resistance Good chemical resistance Frost resistance Environmentally-friendly
- ▶ 4. Suitability for contact with food –stuffs(will not impart taste/odour to drinking water.
- ▶ 5. Life-span of more than 50 years(low annual depreciation costs)



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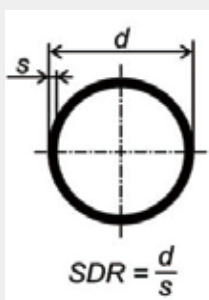
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Gapex PE pipe and fittings are manufactured in ISO9001:2015 approved equipment and extensively tested in factory-specific laboratories to ensure high-performance fittings for your pipeline. Guaranteed product compliance with BS EN12201:1,2 3 Technical and manufacturing expertise

Physical Properties of PE

Properties	Typical Value
Specific Gravity,g/cm ³	0.941~0.965
Longitudinal Reversion,%(100°C)	≤ 3
Oxidation Induction Time,min(200°C)	≥ 20
Extension Rate at Break,%	≥ 350
Hydraulic Pressure Test	20°C ,Hoop Stress is 12.47MPa,100h
	80°C ,Hoop Stress is 5.5MPa, 165h
	80°C ,Hoop Stress is 5.0MPa, 165h

Standard Dimensions Ratio - SDR



Many plastic pipe manufacturers use the "Standard Dimension Ratio" SDR - method of rating pressure piping.

The SDR is the ratio of pipe diameter to wall thickness and the SDR can be expressed as

$$SDR = D / s$$

where

D = pipe outside diameter (mm, in)

s = pipe wall thickness (mm, in)





3 Gapex PE Pipeline System



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Comply with CLP's requirements
BS EN12201
Black

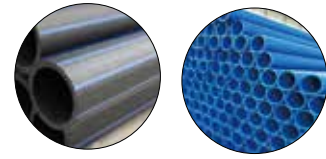


Comply with WSD's requirements
BS EN12201 BS 6920
Blue /Black/Black with Blue line



Comply with DSD's requirements
BS EN12201
Black color recognition line or Two colour 15% externally coloured jacket

WATER SUPPLY SYSTEM
FRESH WATER PIPE



Material: PE100 or PE100 RC

Standard: BS EN 12201-2 or ISO 4427-2

Colour: Black or Blue

Nominal Outer Diameter(mm)	Nominal Wall Thickness(mm)					
	Standard Dimension Ratio					
	SDR33	SDR26	SDR21	SDR17	SDR13.6	SDR11
	Nominal Pressure(bar)					
	PN5	PN6	PN8	PN10	PN12.5	PN16
20						2.3
25						2.5
32						3.0
40						3.7
50					3.7	4.6
63				3.8	4.7	5.8
75			3.6	4.5	5.6	6.8
90			4.3	5.4	6.7	8.2
110		4.2	5.3	6.6	8.1	10.0
125		4.8	6.0	7.4	9.2	11.4
140		5.4	6.7	8.3	10.3	12.7
160		6.2	7.7	9.5	11.8	14.6
180		6.9	8.6	10.7	13.3	16.4
200		7.7	9.6	11.9	14.7	18.2
225		8.6	10.8	13.4	16.6	20.5
250		9.6	11.9	14.8	18.4	22.7
280		10.7	13.4	16.6	20.6	25.4
315		12.1	15.0	18.7	23.2	28.6
355		13.6	16.9	21.1	26.1	32.2
400		15.3	19.1	23.7	29.4	36.4
450		17.2	21.5	26.7	33.1	40.9
500		19.1	23.9	29.7	36.8	45.4
560		21.4	26.7	33.2	41.2	50.8
630	19.3	24.1	30.0	37.4	46.3	57.2
710	21.8	27.2	33.9	42.1	52.2	
800	24.5	30.6	38.1	47.4	58.8	
900	27.6	34.4	42.9	53.3	66.2	
1000	30.6	38.2	47.7	59.3	72.5	
1200	36.7	45.9	57.2	67.9		
1400	42.9	53.5	66.7			
1600	49.0	61.2				
1800	57.4	*72.8 (PN6.4)	89.5	105.9		

Special pipe sizes and pressure ratings can be made-to-order to suit customers' specific applications

(e.g. Ational standard: iso 4427)

The PE pipes are available in single colour solid wall or dual colour solid wall with indication stripes in various colours as requested by customers.



DRINAGE PIPE SYSTEM SEWAGE PIPE

Material: PE100 or PE100 RC

Standard: BS EN 12201-2 or ISO 4427-2

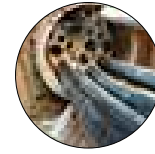
Colour: Black or Black with Orange coloured jacke

Nominal Outer Diameter(mm)	Nominal Wall Thickness(mm)					
	Standard Dimension Ratio					
	SDR33	SDR26	SDR21	SDR17	SDR13.6	SDR11
	Nominal Pressure(bar)					
	PN5	PN6	PN8	PN10	PN12.5	PN16
20						2.3
25						2.5
32						3.0
40						3.7
50					3.7	4.6
63				3.8	4.7	5.8
75			3.6	4.5	5.6	6.8
90			4.3	5.4	6.7	8.2
110		4.2	5.3	6.6	8.1	10.0
125		4.8	6.0	7.4	9.2	11.4
140		5.4	6.7	8.3	10.3	12.7
160		6.2	7.7	9.5	11.8	14.6
180		6.9	8.6	10.7	13.3	16.4
200		7.7	9.6	11.9	14.7	18.2
225		8.6	10.8	13.4	16.6	20.5
250		9.6	11.9	14.8	18.4	22.7
280		10.7	13.4	16.6	20.6	25.4
315		12.1	15.0	18.7	23.2	28.6
355		13.6	16.9	21.1	26.1	32.2
400		15.3	19.1	23.7	29.4	36.4
450		17.2	21.5	26.7	33.1	40.9
500		19.1	23.9	29.7	36.8	45.4
560		21.4	26.7	33.2	41.2	50.8
630	19.3	24.1	30.0	37.4	46.3	57.2
710	21.8	27.2	33.9	42.1	52.2	64.5
800	24.5	30.6	38.1	47.4	58.8	72.6
900	27.6	34.4	42.9	53.3	66.2	81.7
1000	30.6	38.2	47.7	59.3	72.5	90.8
1200	36.7	45.9	57.2	71.1	88.2	
1400	42.9	53.5	66.7	83.0	102.8	
1600	49.0	61.2	76.2	94.8	117.5	
1800	55.1	68.8	85.8	106.6		

Special pipe sizes and pressure ratings can be made-to-order to suit customers' specific applications
(e.g. Ational standard: iso 4427)

The PE pipes are available in single colour solid wall or dual colour solid wall with indication stripes in various colours as requested by customers.

CABLE PROTECTION PIPE



Material: PE100
Colour: Black

Standard: BS EN 12201-2 or ISO 4427-2

Nominal Outer Diameter(mm)	Nominal Wall Thickness(mm)					
	Standard Dimension Ratio					
	SDR33	SDR26	SDR21	SDR17	SDR13.6	SDR11
	Nominal Pressure(bar)					
	PN5	PN6	PN8	PN10	PN12.5	PN16
20						2.3
25						2.5
32						3.0
40						3.7
50					3.7	4.6
63				3.8	4.7	5.8
75			3.6	4.5	5.6	6.8
90			4.3	5.4	6.7	8.2
110		4.2	5.3	6.6	8.1	10.0
125		4.8	6.0	7.4	9.2	11.4
140		5.4	6.7	8.3	10.3	12.7
160		6.2	7.7	9.5	11.8	14.6
180		6.9	8.6	10.7	13.3	16.4
200		7.7	9.6	11.9	14.7	18.2
225		8.6	10.8	13.4	16.6	20.5
250		9.6	11.9	14.8	18.4	22.7
280		10.7	13.4	16.6	20.6	25.4
315		12.1	15.0	18.7	23.2	28.6
355		13.6	16.9	21.1	26.1	32.2
400		15.3	19.1	23.7	29.4	36.4
450		17.2	21.5	26.7	33.1	40.9
500		19.1	23.9	29.7	36.8	45.4
560		21.4	26.7	33.2	41.2	50.8
630	19.3	24.1	30.0	37.4	46.3	57.2
710	21.8	27.2	33.9	42.1	52.2	
800	24.5	30.6	38.1	47.4	58.8	
900	27.6	34.4	42.9	53.3	66.2	
1000	30.6	38.2	47.7	59.3	72.5	
1200	36.7	45.9	57.2	67.9		
1400	42.9	53.5	66.7			
1600	49.0	61.2				
1800	57.4	*72.8 (PN6.4)	89.5	105.9		

Special pipe sizes and pressure ratings can be made-to-order to suit customers' specific applications (e.g. Ational standard: iso 4427)

The PE pipes are available in single colour solid wall or dual colour solid wall with indication stripes in various colours as requested by customers.



IRRIGATION PIPE SYSTEM

Material: PE100
Colour: Black

Standard: BS EN 12201-2 or ISO 4427-2

Nominal Outer Diameter(mm)	Nominal Wall Thickness(mm)					
	Standard Dimension Ratio					
	SDR33	SDR26	SDR21	SDR17	SDR13.6	SDR11
	Nominal Pressure(bar)					
	PN5	PN6	PN8	PN10	PN12.5	PN16
20						2.3
25						2.5
32						3.0
40						3.7
50					3.7	4.6
63				3.8	4.7	5.8
75			3.6	4.5	5.6	6.8
90			4.3	5.4	6.7	8.2
110		4.2	5.3	6.6	8.1	10.0
125		4.8	6.0	7.4	9.2	11.4
140		5.4	6.7	8.3	10.3	12.7
160		6.2	7.7	9.5	11.8	14.6
180		6.9	8.6	10.7	13.3	16.4
200		7.7	9.6	11.9	14.7	18.2
225		8.6	10.8	13.4	16.6	20.5
250		9.6	11.9	14.8	18.4	22.7
280		10.7	13.4	16.6	20.6	25.4
315		12.1	15.0	18.7	23.2	28.6
355		13.6	16.9	21.1	26.1	32.2
400		15.3	19.1	23.7	29.4	36.4
450		17.2	21.5	26.7	33.1	40.9
500		19.1	23.9	29.7	36.8	45.4
560		21.4	26.7	33.2	41.2	50.8
630	19.3	24.1	30.0	37.4	46.3	57.2

Special pipe sizes and pressure ratings can be made-to-order to suit customers' specific applications (e.g. Ational standard: iso 4427)

The PE pipes are available in single colour solid wall or dual colour solid wall with indication stripes in various colours as requested by customers.

4 GAPEX PE FITTING

4.1 Electrofusion Fittings

Raw material : PE80/PE100/PE100-RC

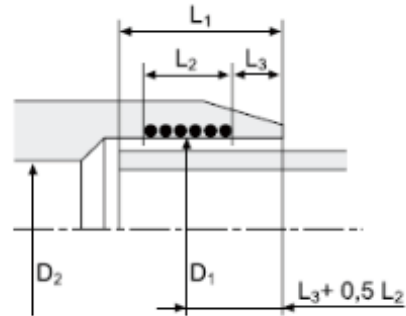
Colour : Black

Standard : BS EN 12201-3 or ISO 4427-3

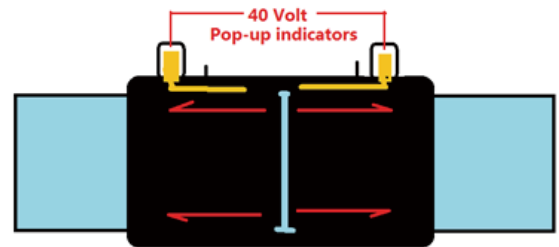


4.1.1 About Electric welding joints

Standard requirements for electric welding joints
The state of the electric welding joints of EN 12202-3 stipulates that the inner diameter of the socket (D1) shall be equal to or greater than the nominal pipe diameter, ie $D_y \min$. This standard only specifies the minimum values of D1- and L2-the minimum measured value and the minimum and maximum values of L1 measurement see "Figure".



All electrofusion seams have heating wires in the form of wires on the inside surface of the weld.
When the thread is connected to a power source, the thread will be heated and cause the adjacent PE material to melt, which will also cause fusion between the tube end and the fused socket. Electrofusion joints should be able to withstand radial forces caused by internal pressure and axial forces, see "Figure".



4.1.2 Requirements for successful electrical fusion

1. When making fused joints, it is important to ensure that the generator (power supply) and the fused control box are compatible with each other and must be able to provide the equipment with the maximum power requirements at the specified voltage
2. These must be delivered to the equipment uninterrupted throughout the entire fused heating cycle:
3. Electrofusion alignment or top-loading clips must remain in place throughout the entire fusion and fusion cycle
4. If the electrical fusion process is interrupted before the fusion cycle is completed, do not reheat

4.1.3 Quality assessment

- 1) After the electrical fusion process, the accessories should be checked to ensure that the fusion indicator is raised. The fusion indicator indicates that an electrical fusion process has occurred. It is not confirmation of quality guarantee.
- 2) In order to obtain a high-quality joint, there should be no visible molten material outside the fusion area of the fitting.
- 3) At the end of the electric fusion cycle, the control box should be checked to confirm that the cycle has been completed correctly.
- 4) Fusion joint record data should be retrievable for quality inspection. Each joint shall be marked with a joint reference.
- 5) Before commissioning the connector, follow industry-recognized pressure test procedures.

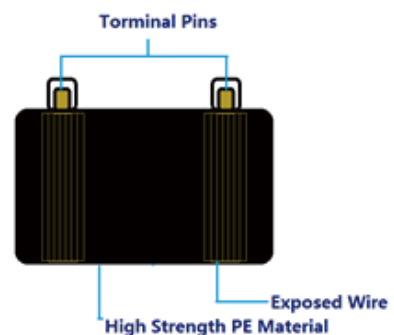


4.1.4 Gapex Electrofusion Fittings for PE Pipe System

Gapex PE electrofusion Fittings uses high-quality PE materials and is specially designed, easy to assemble and stable, and has good pressure-bearing capacity.

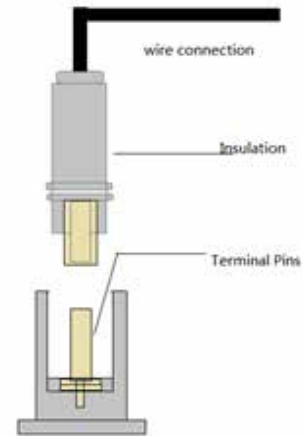
Gapex fused fittings use high-quality copper conductive materials to maximize heat transfer and evenly distribute heat during welding, Provide high-performance intelligent welding solutions for the entire PE pipeline. Effectively help users save installation time and improve efficiency.

Gapex fittings are manufactured in ISO 9001: 2015 approved equipment and extensively tested in factory-specific laboratories to ensure high-performance fittings for your pipeline. Guaranteed product compliance with BS EN12201:3
Technical and manufacturing expertise



4.1.5 Features of Gapex accessories

- ◆ Manufactured from high-strength polyethylene with high-quality materials
- ◆ Bare wire technology can achieve the best heat transfer during the melting process
- ◆ range of universal accessories for water and wastewater applications
- ◆ Preset welding traceability barcode
- ◆ Resistant to corrosion
- ◆ Complete pressure levels and types of accessories, providing users with multiple solutions
- ◆ 4.0 (40 volt) terminal pin connection is provided by default, and 3.7 (37 volt) terminals or other terminals can also be customized.



Gapex provides a fully automatic method to ensure that the correct welding parameters are used. There is a resistor in each Gapex pin. The Gapex pin enables it to automatically identify the correct fusion time required to make the connector.

4.1.6 Features of Gapex accessories

1. Provide manual welding parameter information including installation dimensions, materials (PE80 or PE100), applicable pipeline SDR, welding parameters and pressure levels for natural gas and water.
2. The barcode provides full traceability up to the polymer batch. The barcode also comes with welding parameters that can be used in fuse boxes equipped with a barcode scanner.
3. The batch number of the permanently marked injection mold will be copied to the installed barcode



4.1.7 Handing and storing Electrofusion Fittings for PE Pipe System

Fused fittings should be stored away from chemicals that may cause degradation or may be absorbed by polyethylene materials. If polyethylene products are contaminated, they should not be used and should be discarded immediately. Electrofusion should be stored in a dry environment, avoiding direct sunlight and overheating.

All Gapex electric fuses are individually packaged in a plastic bag to prevent contamination and should be kept in a sealed bag until ready to install. Fused fittings should be stored away from chemicals that may cause degradation or may be absorbed by polyethylene materials. If polyethylene products are contaminated, they should not be used and should be discarded immediately.





Electrofusion Fitting-Coupler

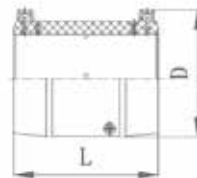


Raw material: PE80/PE100/PE100-RC

Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3

Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	D
EFCL20A	20	11	80	34
EFCL25A	25	11	80	39
EFCL32A	32	11	80	43
EFCL40A	40	11	86	53
EFCL50A	50	11	98	68
EFCL63A	63	11	109	81
EFCL75A	75	11	121	98
EFCL90A	90	11	147	118
EFCL110A	110	11	155	141
EFCL125A	125	11	170	158
EFCL140A	140	11	180	188
EFCL160A	160	11	190	199
EFCL180A	180	11	210	227
EFCL200A	200	11	203	240
EFCL225A	225	11	220	273
EFCL250A	250	11	216	307
EFCL280A	280	11	247	362
EFCL315A	315	11	234	384
EFCL355A	355	11	295	428
EFCL400A	400	11	295	473



Electrofusion Fitting-Coupler

Raw material: PE80/PE100/PE100-RC

Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3

Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	D
EFCL450A	450	11	340	550
EFCL500A	500	11	360	615
EFCL560A	560	11	380	685
EFCL630A	630	11	420	770
EFCL450B	450	17	340	510
EFCL500B	500	17	360	570
EFCL560B	560	17	380	630
EFCS630B	630	17	420	710
EFCS710B	710	17	460	800
EFCS800B	800	17	500	900
EFCS900B	900	17	540	1030
EFCS1000B	1000	17	580	1145

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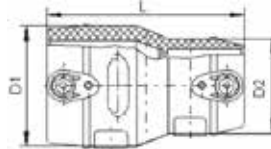
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Electrofusion Fitting-Reducing Coupler



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	D1	D2
EFR3225A	32-25	11	88	42	43
EFR4032A	40-32	11	98	53	45
EFR5032A	50-32	11	110	67	45
EFR5040A	50-40	11	109	66	53
EFR6332A	63-32	11	124	82	46
EFR6340A	63-40	11	124	83	57
EFR6350A	63-50	11	124	82	67
EFR7550A	75-50	11	139	97	66
EFR7563A	75-63	11	143	95	81
EFR9063A	90-63	11	158	114	81
EFR9075A	90-75	11	158	114	95
EFR11063A	110-63	11	156	138	81
EFR11075A	110-75	11	160	138	82
EFR11090A	110-90	11	178	138	114
EFR12590A	125-90	11	197	158	115
EFR125110A	125-110	11	170	155	140
EFR14090A	140-90	11	200	173	115
EFR140110A	140-110	11	192	173	140
EFR16090A	160-90	11	215	198	131
EFR160110A	160-110	11	215	198	135
EFR180125A	180-125	11	230	222	155

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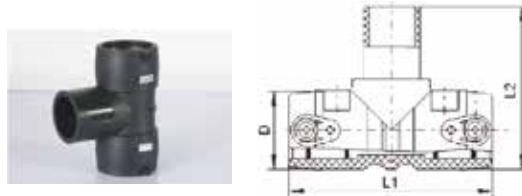
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.



Electrofusion Fitting-Reducing Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	D
EFT20A	20-20-20	11	88	42	31
EFT25A	25-25-25	11	109	79	36
EFT32A	32-32-32	11	115	92	44
EFT40A	40-40-40	11	146	107	51
EFT50A	50-50-50	11	174	130	65
EFT63A	63-63-63	11	195	146	77
EFT75A	75-75-75	11	203	171	92
EFT90A	90-90-90	11	233	200	109
EFT110A	110-110-110	11	270	218	131
EFT125A	125-125-125	11	256	94	155
EFT140A	140-140-140	11	286	94	175
EFT160A	160-160-160	11	340	298	188
EFT180A	180-180-180	11	342	107	222
EFT2520A	25-20-25	11	109	78	36
EFT3225A	32-25-32	11	115	92	45

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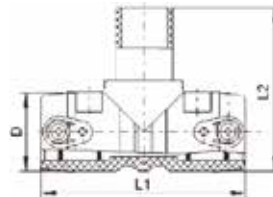
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Electrofusion Fitting-Reducing Tee



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	D
EFT4025A	40-25-40	11	146	117	54
EFT4032A	40-32-40	11	146	117	53
EFT5032A	50-32-50	11	174	129	65
EFT5040A	50-40-50	11	174	128	66
EFT6332A	63-32-63	11	150	140	76
EFT6340A	63-40-63	11	150	140	75
EFT6350A	63-50-63	11	195	144	77
EFT7550A	75-50-75	11	204	171	52
EFT7563A	75-63-75	11	203	171	91
EFT9040A	90-40-90	11	200	175	108
EFT9050A	90-50-90	11	200	178	109
EFT9063A	90-63-90	11	200	178	110
EFT9075A	90-75-90	11	234	196	110
EFT11040A	110-40-110	11	222	198	133
EFT11050A	110-50-110	11	222	199	132
EFT11063A	110-63-110	11	223	200	132
EFT11075A	110-75-110	11	270	216	132
EFT11090A	110-90-110	11	269	216	132
EFT12590A	125-90-125	11	256	88	155
EFT125110A	125-110-125	11	256	88	155
EFT14090A	140-90-140	11	286	80	173

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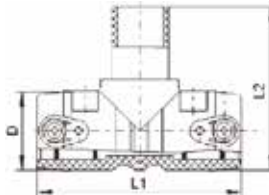
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Electrofusion Fitting-Reducing Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	D
EFT140110A	140-110-140	11	286	83	173
EFT16063A	160-63-160	11	287	294	193
EFT16090A	160-90-160	11	288	292	193
EFT160110A	160-110-160	11	286	291	193
EFT160125A	160-125-160	11	325	94	198
EFT18090A	180-90-180	11	342	80	222
EFT180110A	180-110-180	11	342	83	222
EFT180160A	180-160-180	11	342	100	222
EFT20063A	200-63-200	11	296	318	242
EFT20090A	200-90-200	11	298	338	242
EFT200100A	200-110-200	11	298	339	242

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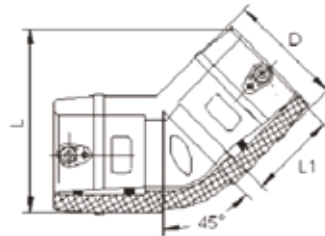
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.

Electrofusion Fitting - 45 Deg Elbow



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	L1	D
EFL440A	40 × 45°	11	85	50	54
EFL450A	50 × 45°	11	101	55	64
EFL463A	63 × 45°	11	115	59	80
EFL475A	75 × 45°	11	140	63	99
EFL490A	90 × 45°	11	160	85	114
EFL4110A	110 × 45°	11	195	90	139
EFL4125A	125 × 45°	11	236	75	155
EFL4140A	140 × 45°	11	286	94	173
EFL4160A	160 × 45°	11	259	92	190
EFL4180A	180 × 45°	11	319	97	222
EFL4200A	200 × 45°	11	383	102	248

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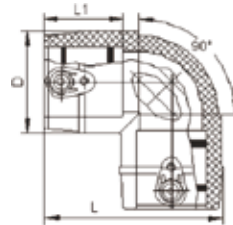
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.



Electrofusion Fitting - 90 Deg Elbow

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	L1	D
EFL920A	20×90°	11	48	32	31
EFL925A	25×90°	11	74	36	39
EFL932A	32×90°	11	84	42	49
EFL940A	40×90°	11	102	45	59
EFL950A	50×90°	11	117	50	68
EFL963A	63×90°	11	128	53	84
EFL975A	75×90°	11	152	60	95
EFL990A	90×90°	11	180	70	116
EFL9110A	110×90°	11	217	81	141
EFL9125A	125×90°	11	143	75	155
EFL9140A	140×90°	11	181	94	173
EFL9160A	160×90°	11	283	89	199
EFL9180A	180×90°	11	195	97	222
EFL9200A	200×90°	11	346	99	246

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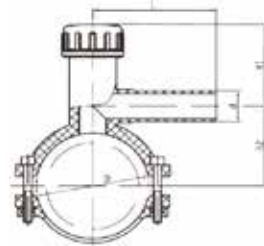
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.

Electrofusion Fitting-Branch Saddle U/P



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	H1	H2
EFTA4020A	40-20	11	100	66	44
EFTA4025A	40-25	11	100	66	44
EFTA4032A	40-32	11	100	66	44
EFTA5020A	50-20	11	100	66	49
EFTA5032A	50-25	11	100	66	49
EFTA5032A	50-32	11	100	66	49
EFTA6320A	63-20	11	120	83	59.5
EFTA6325A	63-25	11	120	83	59.5
EFTA6332A	63-32	11	120	83	59.5
EFTA6340A	63-40	11	120	92	62
EFTA6350A	63-50	11	120	115	56
EFTA6363A	63-63	11	120	115	56
EFTA7520A	75-20	11	100	66	62
EFTA7525A	75-25	11	100	66	62
EFTA7532A	75-32	11	100	66	62
EFTA7540A	75-40	11	105	94	68
EFTA7550A	75-50	11	180	103	110
EFTA7563A	75-63	11	180	103	110
EFTA9020A	90-20	11	120	83	73
EFTA9025A	90-25	11	120	83	73
EFTA9032A	90-32	11	120	83	73

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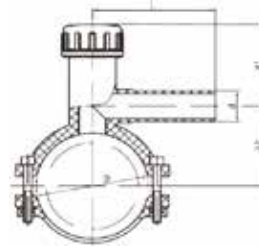
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.



Electrofusion Fitting-Branch Saddle U/P

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	H1	H2
EFTA9040A	90-40	11	105	94	75
EFTA9050A	90-50	11	136	150	104
EFTA9063A	90-63	11	136	150	104
EFTA11020A	110-20	11	120	83	85
EFTA11025A	110-25	11	120	83	85
EFTA11032A	110-32	11	120	83	85
EFTA11040A	110-40	11	116	105	94
EFTA11050A	110-50	11	136	150	114
EFTA11063A	110-63	11	136	150	114
EFTA12520A	125-20	11	100	77	83
EFTA12525A	125-25	11	100	77	83
EFTA12532A	125-32	11	100	77	83
EFTA12540A	125-40	11	105	94	93
EFTA12550A	125-50	11	136	150	122
EFTA12563A	125-63	11	136	150	122
EFTA14020A	140-20	11	105	94	100
EFTA14025A	140-25	11	105	94	100
EFTA14032A	140-32	11	105	94	100
EFTA14040A	140-40	11	105	94	110
EFTA14050A	140-50	11	136	150	129
EFTA14063A	140-63	11	136	150	129

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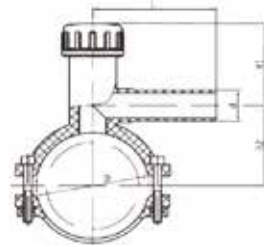
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Electrofusion Fitting-Branch Saddle U/P



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	H1	H2
EFTA16020A	160-20	11	100	84	103
EFTA16025A	160-25	11	100	84	103
EFTA16032A	160-32	11	100	84	103
EFTA16040A	160-40	11	105	94	110
EFTA16050A	160-50	11	136	150	139
EFTA16063A	160-63	11	136	150	139
EFTA18020A	180-20	11	100	84	113
EFTA18025A	180-25	11	100	84	113
EFTA18032A	180-32	11	100	84	113
EFTA18040A	180-40	11	105	94	120
EFTA18050A	180-50	11	136	150	149
EFTA18063A	180-63	11	136	150	149
EFTA20020A	200-20	11	105	94	130
EFTA20025A	200-25	11	105	94	130
EFTA20032A	200-32	11	105	94	130
EFTA20040A	200-40	11	105	94	130
EFTA20050A	200-50	11	136	150	159
EFTA20063A	200-63	11	136	150	159
EFTA22520A	225-20	11	105	94	150
EFTA22525A	225-25	11	105	94	150
EFTA22532A	225-32	11	105	94	150

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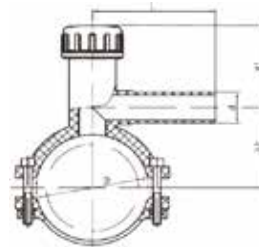
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Electrofusion Fitting-Branch Saddle U/P

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L	H1	H2
EFTA22540A	225-40	11	105	94	150
EFTA22550A	225-50	11	136	150	172
EFTA22563A	225-63	11	136	150	172
EFTA25020A	250-20	11	105	94	163
EFTA25025A	250-25	11	105	94	163
EFTA25032A	250-32	11	105	94	163
EFTA25040A	250-40	11	105	94	163
EFTA25050A	250-50	11	136	150	184
EFTA25063A	250-63	11	136	150	184
EFTA28020A	280-20	93	105	94	178
EFTA28025A	280-25	11	105	94	178
EFTA28032A	280-32	11	105	94	178
EFTA28040A	280-40	11	105	94	178
EFTA28050A	280-50	11	136	150	199
EFTA28063A	280-63	11	136	150	199
EFTA31520A	315-20	11	105	94	195
EFTA31525A	315-25	11	105	94	100
EFTA31532A	315-32	11	105	94	195
EFTA31540A	315-40	11	105	94	195
EFTA31550A	315-50	11	136	150	217
EFTA31563A	315-63	11	136	150	217

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Electrofusion Fitting-Branch Saddle S/L



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Code	dn DN	110	125	140	160	180	200	225	250	280	315	355	400	500	560	630
EFSABR32A	32mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR40A	40mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR50A	50mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR63A	63mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR75A	75mm			√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR90A	90mm				√	√	√	√	√	√	√	√	√	√	√	√
EFSABR110A	110mm						√	√	√	√	√	√	√	√	√	√
EFSABR125A	125mm							√	√	√	√	√	√	√	√	√



Code	dn DN	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1100	1200	1400	1600
EFSABR110A	110mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR125A	125mm	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR140A	140mm			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR160A	160mm				√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR180A	180mm					√	√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR200A	200mm						√	√	√	√	√	√	√	√	√	√	√	√	√
EFSABR225A	225mm							√	√	√	√	√	√	√	√	√	√	√	√
EFSABR250A	250mm								√	√	√	√	√	√	√	√	√	√	√
EFSABR280A	280mm									√	√	√	√	√	√	√	√	√	√
EFSABR315A	315mm										√	√	√	√	√	√	√	√	√
EFSABR355A	355mm											√	√	√	√	√	√	√	√
EFSABR400A	400mm												√	√	√	√	√	√	√
EFSABR450A	450mm													√	√	√	√	√	√
EFSABR500A	500mm														√	√	√	√	√
EFSABR560A	560mm															√	√	√	√
EFSABR630A	630mm																√	√	√

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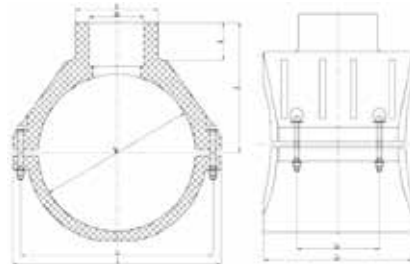
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Electrofusion Fitting-Special Saddle

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3 or ISO 4427-3
Parameters are for reference only.



Size (mm)	D	dn	d	H	h	L	L1	L2	L3
250/110	250	110	160	235	95	345	315	285	130
250/160	250	160	210	247	95	345	315	285	130
315/110	315	110	160	268	95	442	402	320	150
315/160	315	160	210	280	95	442	402	320	150
315/200	315	163	200	280	135	442	402	320	150
355/110	355	110	160	293	95	480	440	320	150
355/160	355	160	210	305	95	480	440	320	150
355/200	355	163	200	305	135	480	440	320	150
400/110	400	110	160	319	95	530	490	380	210
400/160	400	160	210	331	95	530	490	380	210
400/200	400	163	200	331	135	530	490	380	210

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4.2 Injection Butt Fusion Fittings

Raw material : PE80/PE100/PE100-RC

Colour : Black / Blue

Standard : BS EN 12201-3 or ISO 4427-3





Injection Butt Fusion Fitting-Cap



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN 12201-3
ISO 4427-3 Parameters for reference only.



Code	SizeØ (mm)	SDR	L1	L
BFD20A	20	11	35	30
BFD25A	25	11	40	43
BFD32A	32	11	39	47
BFD40A	40	11	45	54
BFD50A	50	11	54	63
BFD63A	63	11	54	67
BFD75A	75	11	54	72
BFD90A	90	11	70	87
BFD110A	110	11	78	99
BFD125A	125	11	84	114
BFD140A	140	11	94	126
BFD160A	160	11	94	125
BFD180A	180	11	107	146
BFD200A	200	11	97	129
BFD225A	225	11	106	142
BFD250A	250	11	102	132
BFD280A	280	11	103	138
BFD315A	315	11	105	142
BFD63B	63	17/17.6	54	67
BFD75B	75	17/17.6	54	72
BFD90B	90	17/17.6	70	87

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Injection Butt Fusion Fitting-Cap

Raw material: PE80/PE100/PE100-RC

Colour: Black/ Blue

Standard: BS EN12201-3 BS

ISO4427-3 Parameters are for reference only.

Code	SizeØ (mm)	SDR	L1	L
BFD110B	110	17/17.6	78	99
BFD125B	125	17/17.6	84	114
BFD140B	140	17/17.6	94	126
BFD160B	160	17/17.6	94	125
BFD180B	180	17/17.6	107	146
BFD200B	200	17/17.6	97	129
BFD225B	225	17/17.6	106	142
BFD250B	250	17/17.6	102	132
BFD280B	280	17/17.6	114	154



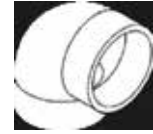
Code	SizeØ (mm)	SDR	L1	L
BFD315B	315	17/17.6	102	145
BFD355B	355	17/17.6	151	218
BFD400B	400	17/17.6	174	246
BFD450B	450	17/17.6	28	160
BFD500B	500	17/17.6	31	160
BFD560B	560	17/17.6	35	160
BFD630B	630	17/17.6	39	160
BFD800B	800	17	47	200
BFD1000B	1000	17	59	200

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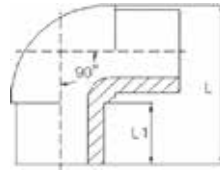
Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.

Injection Butt Fusion fitting - 90 Deg Elbow



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L
BFL940A	40 × 90°	11	50	108
BFL950A	50 × 90°	11	56	125
BFL963A	63 × 90°	11	64	147
BFL975A	75 × 90°	11	66	169
BFL990A	90 × 90°	11	69	178
BFL9110A	110 × 90°	11	82	201
BFL9125A	125 × 90°	11	84	226
BFL9140A	140 × 90°	11	90	267
BFL9160A	160 × 90°	11	99	272
BFL9180A	180 × 90°	11	107	324
BFL9200A	200 × 90°	11	94	310
BFL9225A	225 × 90°	11	114	364
BFL9250A	250 × 90°	11	109	342
BFL9280A	280 × 90°	11	140	450
BFL9315A	315 × 90°	11	154	498
BFL9400A	400 × 90°	11	155	597
BFL940B	40 × 90°	17/17.6	50	94
BFL950B	50 × 90°	17/17.6	56	102
BFL963B	63 × 90°	17/17.6	64	114
BFL975B	75 × 90°	17/17.6	66	132
BFL990B	90 × 90°	17/17.6	69	128

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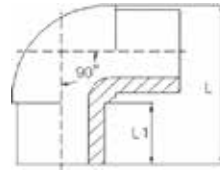
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Injection Butt Fusion fitting - 90 Deg Elbow

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



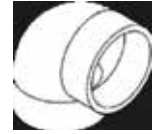
Code	SizeØ (mm)	SDR	L1	L
BFL9110B	110 × 90°	17/17.6	82	154
BFL9125B	125 × 90°	17/17.6	84	164
BFL9160B	160 × 90°	17/17.6	99	196
BFL9180B	180 × 90°	17/17.6	138	240
BFL9200B	200 × 90°	17/17.6	94	216
BFL9225B	225 × 90°	17/17.6	114	254
BFL9250B	250 × 90°	17/17.6	109	274
BFL9280B	280 × 90°	17/17.6	140	320
BFL9315B	315 × 90°	17/17.6	169	459
BFL9355B	355 × 90°	17/17.6	166	554
BFL9400B	400 × 90°	17/17.6	182	583
BFL9450B	450 × 90°	17/17.6	90	631
BFL9500B	500 × 90°	17/17.6	108	370
BFL9630B	630 × 90°	17/17.6	90	828

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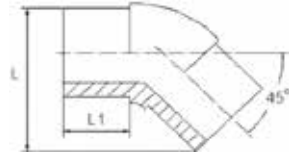
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Injection Butt Fusion fitting - 45 Deg Elbow



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.

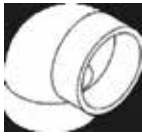


Code	SizeØ (mm)	SDR	L1	L
BFL440A	40 × 45°	11	49	99
BFL450A	50 × 45°	11	54	104
BFL463A	63 × 45°	11	61	122
BFL475A	75 × 45°	11	69	142
BFL490A	90 × 45°	11	76	167
BFL4110A	110 × 45°	11	82	183
BFL4125A	125 × 45°	11	88	206
BFL4140A	140 × 45°	11	90	220
BFL4160A	160 × 45°	11	99	240
BFL4180A	180 × 45°	11	138	280
BFL4200A	200 × 45°	11	119	359
BFL4225A	225 × 45°	11	124	399
BFL4250A	250 × 45°	11	132	350
BFL440B	40 × 45°	17/17.6	49	99
BFL450B	50 × 45°	17/17.6	54	104

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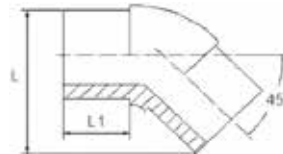
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Injection Butt Fusion fitting - 45 Deg Elbow

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L
BFL463B	63 × 45°	17/17.6	61	122
BFL475B	75 × 45°	17/17.6	69	142
BFL490B	90 × 45°	17/17.6	76	167
BFL4110B	110 × 45°	17/17.6	82	183
BFL4125B	125 × 45°	17/17.6	88	206
BFL4140B	140 × 45°	17/17.6	90	220
BFL4160B	160 × 45°	17/17.6	99	240
BFL4180B	180 × 45°	17/17.6	107	276
BFL4200B	200 × 45°	17/17.6	119	359
BFL4225B	225 × 45°	17/17.6	124	399
BFL4250B	250 × 45°	17/17.6	106	343
BFL4280B	280 × 45°	17/17.6	140	404
BFL4315B	315 × 45°	17/17.6	145	435
BFL4400B	400 × 45°	17/17.6	99	465

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Injection Butt Fusion Fitting-Tee



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT40A	40-40-40	11	49	49	87	168
BFT50A	50-50-50	11	54	55	99	200
BFT63A	63-63-63	11	64	64	114	221
BFT75A	75-75-75	11	78	72	112	222
BFT90A	90-90-90	11	71	70	135	262
BFT110A	110-110-110	11	79	81	149	290
BFT125A	125-125-125	11	84	84	160	325
BFT140A	140-140-140	11	94	94	192	384
BFT160A	160-160-160	11	99	87	191	350
BFT180A	180-180-180	11	107	107	230	460
BFT200A	200-200-200	11	95	116	216	449
BFT225A	225-225-225	11	126	126	259	507
BFT250A	250-250-250	11	107	108	249	477
BFT280A	280-280-280	11	140	140	309	617
BFT315A	315-315-315	11	98	78	272	497
BFT63B	63-63-63	17/17.6	64	64	114	221
BFT75B	75-75-75	17/17.6	78	72	112	222
BFT90B	90-90-90	17/17.6	71	70	135	262
BFT110B	110-110-110	17/17.6	79	81	149	290
BFT125B	125-125-125	17/17.6	84	84	160	325
BFT140B	140-140-140	17/17.6	94	94	192	384

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Injection Butt Fusion Fitting-Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT160B	160-160-160	17/17.6	99	87	191	350
BFT180B	180-180-180	17/17.6	107	107	230	460
BFT200B	200-200-200	17/17.6	95	116	216	449
BFT225B	225-225-225	17/17.6	126	126	259	507
BFT250B	250-250-250	17/17.6	107	108	249	477
BFT280B	280-280-280	17/17.6	140	140	309	617
BFT315B	315-315-315	17/17.6	98	78	272	497
BFT355B	355-355-355	17/17.6	174	174	374	403
BFT400B	400-400-400	17/17.6	36	34	344	595
BFT450B	450-450-450	17/17.6	102	106	370	751
BFT500B	500-500-500	17/17.6	110	99	400	800
BFT630B	630-630-630	17/17.6	100	100	500	916

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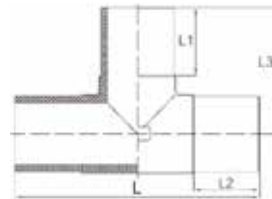
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Injection Butt Fusion Fitting Reducing Tee



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT5040A	50-40-50	11	51	55	84	176
BFT6332A	63-32-63	11	54	54	92	177
BFT6340A	63-40-63	11	52	56	89	180
BFT6350A	63-50-63	11	63	63	115	220
BFT7540A	75-40-75	11	67	70	107	213
BFT7550A	75-50-75	11	78	72	112	222
BFT7563A	75-63-75	11	74	69	109	220
BFT9040A	90-40-90	11	59	70	118	227
BFT9050A	90-50-90	11	65	71	121	229
BFT9063A	90-63-90	11	69	72	121	230
BFT9075A	90-75-90	11	71	80	139	286
BFT11040A	110-40-110	11	59	77	132	243
BFT11050A	110-50-110	11	64	79	135	245
BFT11063A	110-63-110	11	70	79	130	243
BFT11090A	110-75-110	11	71	83	152	298
BFT11090A	110-90-110	11	77	80	154	290
BFT12590A	125-90-125	11	80	88	164	317
BFT125110A	125-110-125	11	83	88	169	338
BFT140110A	140-110-140	11	83	94	181	354
BFT140125A	140-125-140	11	88	94	186	369
BFT16063A	160-63-160	11	57	84	157	271

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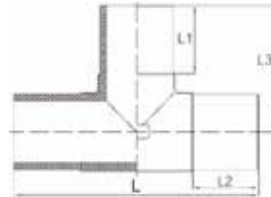
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Injection Butt Fusion Fitting Reducing Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT16075A	160-75-160	11	71	100	177	330
BFT16090A	160-90-160	11	83	87	179	329
BFT160110A	160-110-160	11	82	87	178	328
BFT160125A	160-125-160	11	88	100	194	380
BFT180110A	180-110-180	11	83	107	200	379
BFT180125A	180-125-180	11	88	107	205	394
BFT180160A	180-160-180	11	100	107	218	429
BFT20063A	200-63-200	11	84	102	209	436
BFT20090A	200-90-200	11	80	100	202	330
BFT200110A	200-110-200	11	80	95	201	330
BFT200160A	200-160-200	11	97	119	226	413
BFT22575A	225-75-225	11	71	121	212	373
BFT22590A	225-90-225	11	80	121	221	387
BFT225110A	225-100-225	11	83	121	224	407
BFT225160A	225-160-225	11	100	121	241	458
BFT225180A	225-180-225	11	107	121	248	478
BFT250110A	225-110-225	11	82	120	225	386
BFT250160A	250-160-250	11	100	120	243	436

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Injection Butt Fusion Fitting Reducing Tee



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT6332B	63-32-63	17/17.6	54	54	92	177
BFT6340B	63-40-63	17/17.6	52	56	89	180
BFT6350B	63-50-63	17/17.6	53	63	115	220
BFT7540B	75-40-75	17/17.6	74	72	112	222
BFT7550B	75-50-75	17/17.6	78	72	112	222
BFT7563B	75-63-75	17/17.6	74	69	109	220
BFT9040B	90-40-90	17/17.6	62	70	121	229
BFT9050B	90-50-90	17/17.6	65	71	121	229
BFT9063B	90-63-90	17/17.6	69	72	121	230
BFT9075B	90-75-90	17/17.6	71	80	139	286
BFT11040B	110-40-110	17/17.6	59	77	132	243
BFT11050B	110-50-110	17/17.6	64	79	135	245
BFT11063B	110-63-110	17/17.6	70	79	132	243
BFT11075B	110-75-110	17/17.6	71	83	152	298
BFT11090B	110-90-110	17/17.6	71	80	154	290
BFT12590B	125-90-125	17/17.6	80	88	164	317
BFT125110B	125-110-125	17/17.6	83	88	169	338
BFT140110B	140-110-140	17/17.6	83	94	181	354
BFT140125B	140-125-140	17/17.6	88	94	186	369
BFT16063B	160-63-160	17/17.6	57	84	157	271
BFT16075B	160-75-160	17/17.6	71	100	177	330

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Injection Butt Fusion Fitting Reducing Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT16090B	160-90-160	17/17.6	83	87	179	329
BFT160110B	160-110-160	17/17.6	82	87	178	328
BFT160125B	160-125-160	17/17.6	88	100	194	380
BFT180110B	180-110-182	17/17.6	83	107	200	379
BFT180125B	180-125-180	17/17.6	88	107	205	394
BFT180160B	180-160-180	17/17.6	103	107	218	429
BFT20063B	200-63-200	17/17.6	84	102	209	436
BFT20090B	200-90-200	17/17.6	80	100	202	330
BFT200110B	200-110-200	17/17.6	80	95	201	330
BFT200160B	200-160-200	17/17.6	97	119	226	413
BFT22575B	225-75-225	17/17.6	71	121	212	373
BFT22590B	225-90-225	17/17.6	80	121	221	387
BFT225110B	225-110-225	17/17.6	82	120	225	438
BFT225160B	255-160-255	17/17.6	100	121	227	438
BFT225180B	255-180-255	17/17.6	107	121	248	478
BFT250110B	250-110-250	17/17.6	79	106	233	345
BFT250160B	250-160-250	17/17.6	98	108	243	393
BFT31590B	315-90-315	17/17.6	98	125	260	576
BFT315110B	315-110-315	17/17.6	104	154	274	576
BFT315160B	315-160-315	17/17.6	104	154	274	576
BFT315200B	315-200-315	17/17.6	112	148	283	550

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Injection Butt Fusion Fitting Reducing Tee



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT315250B	315-250-315	17/17.6	98	149	270	567
BFT355200B	355-200-355	17/17.6	100	155	280	567
BFT355250B	355-250-355	17/17.6	166	165	367	625
BFT400200B	400-200-400	17/17.6	140	173	374	590
BFT400250B	400-250-400	17/17.6	137	153	361	560
BFT400315B	400-315-400	17/17.6	34	143	368	595
BFT450250B	450-250-450	17/17.6	100	100	350	736
BFT450315B	450-315-450	17/17.6	100	100	400	736
BFT500315B	500-315-500	17/17.6	100	123	400	800
BFT500400B	500-400-500	17/17.6	117	119	400	795
BFT630450B	630-450-630	17/17.6	100	100	400	916
BFT630500B	630-500-630	17/17.6	100	100	400	916

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Injection Butt Fusion Fitting Reducing Tee

Raw material: PE80/PE100/PE100-RC

Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3

Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L3	L
BFT16090B	160-90-160	17/17.6	83	87	179	329
BFT160110B	160-110-160	17/17.6	82	87	178	328
BFT160125B	160-125-160	17/17.6	88	100	194	380
BFT180110B	180-110-182	17/17.6	83	107	200	379
BFT180125B	180-125-180	17/17.6	88	107	205	394
BFT180160B	180-160-180	17/17.6	103	107	218	429
BFT20063B	200-63-200	17/17.6	84	102	209	436
BFT20090B	200-90-200	17/17.6	80	100	202	330
BFT200110B	200-110-200	17/17.6	80	95	201	330
BFT200160B	200-160-200	17/17.6	97	119	226	413
BFT22575B	225-75-225	17/17.6	71	121	212	373
BFT22590B	225-90-225	17/17.6	80	121	221	387
BFT225110B	225-110-225	17/17.6	82	120	225	438
BFT225160B	255-160-255	17/17.6	100	121	227	438
BFT225180B	255-180-255	17/17.6	107	121	248	478
BFT250110B	250-110-250	17/17.6	79	106	233	345
BFT250160B	250-160-250	17/17.6	98	108	243	393
BFT31590B	315-90-315	17/17.6	98	125	260	576
BFT315110B	315-110-315	17/17.6	104	154	274	576
BFT315160B	315-160-315	17/17.6	104	154	274	576
BFT315200B	315-200-315	17/17.6	112	148	283	550

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Injection Butt Fusion Fitting-Reducing Coupler



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	Size \varnothing (mm)	SDR	L1	L2	L
BFR2520A	25-20	11	36	32	70
BFR3225A	32-25	11	38	38	80
BFR4032A	40-32	11	44	40	86
BFR5040A	50-40	11	50	46	102
BFR6332A	63-32	11	61	43	130
BFR6340A	63-40	11	60	44	123
BFR6350A	63-50	11	49	51	109
BFR7550A	75-50	11	65	57	164
BFR7563A	75-63	11	80	55	184
BFR9050A	90-50	11	81	57	184
BFR9063A	90-63	11	64	46	136
BFR9075A	90-75	11	67	59	136
BFR11050A	110-50	11	85	67	195
BFR11063A	110-63	11	74	49	174
BFR11075A	110-75	11	75	65	156
BFR11090A	110-90	11	76	66	156
BFR12563A	125-63	11	88	65	192
BFR12575A	125-75	11	88	72	211
BFR12590A	125-90	11	90	81	213
BFR125110A	125-110	11	92	82	213
BFR14090A	140-90	11	94	81	214

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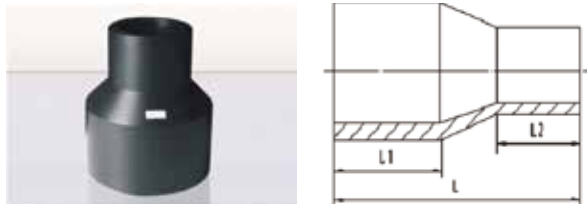
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Injection Butt Fusion Fitting-Reducing Coupler

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L
BFR140110A	140-110	11	94	84	219
BFR140125A	140-125	11	94	90	225
BFR16063A	160-63	11	102	61	210
BFR16090A	160-90	11	107	71	210
BFR160110A	160-110	11	98	77	203
BFR160125A	160-125	11	100	90	241
BFR160140A	160-140	11	100	94	245
BFR18090A	180-90	11	107	81	249
BFR180110A	180-110	11	107	84	249
BFR180125A	180-125	11	107	90	253
BFR180140A	180-140	11	107	94	247
BFR180160A	180-160	11	107	100	253
BFR200110A	200-110	11	117	114	284
BFR200140A	200-140	11	114	94	253
BFR200160A	200-160	11	125	96	291
BFR200180A	200-180	11	114	107	266
BFR225160A	225-160	11	126	96	270
BFR225180A	225-180	11	121	107	270
BFR225200A	225-200	11	120	108	270
BFR250160A	250-160	11	134	101	286
BFR250180A	250-180	11	132	107	294

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Injection Butt Fusion Fitting-Reducing Coupler



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L
BFR250200A	250-200	11	138	115	287
BFR250225A	250-225	11	132	121	303
BFR280200A	280-200	11	140	114	335
BFR280225A	280-225	11	140	121	336
BFR280250A	280-250	11	140	132	342
BFR315200A	315-200	11	146	109	321
BFR315225A	315-225	11	150	120	365
BFR315250A	315-250	11	154	125	310
BFR315280A	315-280	11	150	139	365
BFR7550B	75-50	17/17.6	72	57	154
BFR7563B	75-63	17/17.6	80	55	184
BFR9050B	90-50	17/17.6	81	57	184
BFR9063B	90-63	17/17.6	64	46	136
BFR9075B	90-75	17/17.6	67	59	136
BFR11050B	110-50	17/17.6	84	57	195
BFR11063B	110-63	17/17.6	74	49	174
BFR11075B	110-75	17/17.6	75	65	156
BFR11090B	110-90	17/17.6	76	66	156
BFR12563B	125-63	17/17.6	88	65	192
BFR12575B	125-75	17/17.6	88	72	211
BFR12590B	125-90	17/17.6	90	81	213

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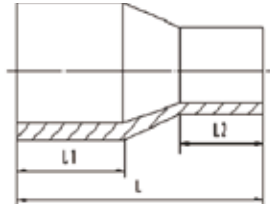
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Injection Butt Fusion Fitting-Reducing Coupler

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	Size \varnothing (mm)	SDR	L1	L2	L
BFR125110B	125-110	17/17.6	92	82	213
BFR14090B	140-90	17/17.6	94	81	214
BFR140110B	140-110	17/17.6	94	84	219
BFR140125B	140-125	17/17.6	94	90	225
BFR16063B	160-63	17/17.6	102	61	210
BFR16090B	160-90	17/17.6	107	71	210
BFR160110B	160-110	17/17.6	98	77	203
BFR160140B	160-140	17/17.6	100	94	245
BFR18090B	180-90	17/17.6	107	81	249
BFR180110B	180-110	17/17.6	107	84	249
BFR180125B	180-125	17/17.6	107	90	253
BFR180140B	180-140	17/17.6	107	94	247
BFR180160B	180-160	17/17.6	107	100	253
BFR200110B	200-110	17/17.6	117	114	284
BFR200140B	200-140	17/17.6	114	94	253
BFR200160B	200-160	17/17.6	125	96	291
BFR200180B	200-180	17/17.6	114	107	266
BFR225160B	225-160	17/17.6	121	107	270

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Injection Butt Fusion Fitting-Reducing Coupler



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	L1	L2	L
BFR225180B	225-180	17/17.6	212	107	270
BFR225200B	225-200	17/17.6	120	108	270
BFR250160B	250-160	17/17.6	134	101	285
BFR250180B	250-180	17/17.6	132	107	294
BFR250200B	250-200	17/17.6	138	115	287
BFR250225B	250-225	17/17.6	132	121	303
BFR280200B	280-200	17/17.6	140	114	335
BFR280225B	280-225	17/17.6	140	121	335
BFR280250B	280-250	17/17.6	140	132	342
BFR3152200B	315-200	17/17.6	145	109	321
BFR315225B	315-225	17/17.6	150	120	365
BFR315250B	315-250	17/17.6	54	125	310
BFR315280B	315-280	17/17.6	150	139	365
BFR355250B	315-250	17/17.6	165	130	390
BFR355280B	315-280	17/17.6	140	165	390

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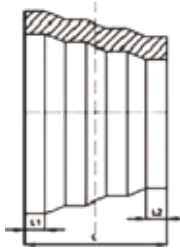
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Injection Butt Fusion Fitting-Reducing Coupler

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



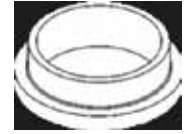
Code	SizeØ (mm)	SDR	L1	L2	L
BFR355315B	355-315	17/17.6	71	147	243
BFR400250B	400-250	17/17.6	57	127	256
BFR400280B	400-280	17/17.6	180	140	415
BFR400315B	400-315	17/17.6	68	69	174
BFR400355B	400-355	17/17.6	180	165	420
BFR450400B	450-400	17/17.6	35	35	105
BFR500400B	500-400	17/17.6	20	43	185
BFR500450B	500-450	17/17.6	35	35	105
BFR560400B	560-400	17/17.6	28	45	190
BFR560450B	560-450	17/17.6	35	35	175
BFR560500B	560-500	17/17.6	35	35	105
BFR630400B	630-400	17/17.6	35	35	315
BFR630450B	630-450	17/17.6	30	25	240
BFR630500B	630-500	17/17.6	35	35	105
BFR630560B	630-560	17/17.6	35	35	105
BFR710630B	710-630	17	52	46	131
BFR800630B	800-630	17	47	49	221
BFR800710B	800-710	17	40	54	125
BFR900800B	900-800	17	47	65	139
BFR1000800B	1000-800	17	50	55	215
BFR1000900B	1000-800	17	40	55	137

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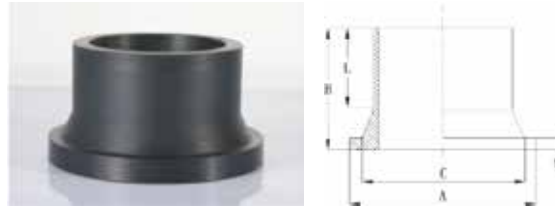
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Injection Butt Fusion Fitting-Flange



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.

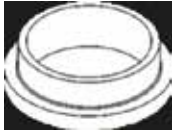


Code	SizeØ (mm)	SDR	B	L	t	A	C
BFFL40A	40	11	80	50	7	78	50
BFFL50A	50	11	94	64	7	86	61
BFFL63A	63	11	93	75	8	102	75
BFFL75A	75	11	103	73	10	122	89
BFFL90A	90	11	125	80	12	138	105
BFFL110A	110	11	140	95	15	158	125
BFFL125A	125	11	135	95	17	158	132
BFFL140A	140	11	130	89	20	188	155
BFFL160A	160	11	126	73	21	212	175
BFFL180A	180	11	140	115	25	212	180
BFFL200A	200	11	174	113	27	268	232
BFFL225A	225	11	161	95	31	268	235
BFFL250A	250	11	173	103	34	320	285
BFFL280A	280	11	173	111	38	320	291
BFFL315A	315	11	213	133	43	370	335
BFFL355A	355	11	200	98	48	430	373
BFFL400A	400	11	226	137	54	482	427
BFFL450A	450	11	208	96	61	585	514
BFFL500A	500	11	176	78	68	585	530
BFFL560A	560	11	175	60	76	685	615

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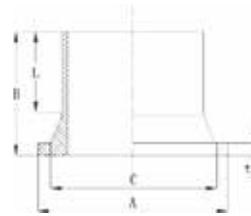
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Injection Butt Fusion Fitting-Flange

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	B	L	t	A	C
BFFL630A	630	11	172	63	86	685	642
BFFL710A	710	11	175	45	97	800	737
BFFL800A	800	11	173	32	92	905	840
BFFL63B	63	17	93	75	8	102	75
BFFL75B	75	17	103	73	10	122	89
BFFL90B	90	17	125	82	10	138	105
BFFL110B	110	17	140	100	10	158	125
BFFL125B	125	17	135	101	11	158	132
BFFL140B	140	17	140	94	15	188	155
BFFL160B	160	17	126	79	15	212	175

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Injection Butt Fusion Fitting-Flange



Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.

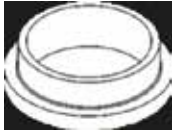


Code	SizeØ (mm)	SDR	B	L	t	A	C
BFFL180B	180	17	140	124	16	212	180
BFFL200B	200	17	174	123	17	268	232
BFFL225B	225	17	161	104	22	268	235
BFFL250B	250	17	173	114	23	320	285
BFFL280B	280	17	173	125	24	320	291
BFFL315B	315	17	213	141	35	370	335
BFFL355B	355	17	200	113	33	430	373
BFFL400B	400	17	226	155	34	482	427
BFFL450B	450	17	208	117	40	585	514
BFFL500B	500	17	176	101	45	585	530
BFFL560B	560	17	175	95	41	685	615
BFFL630B	630	17	172	94	55	685	642
BFFL710B	710	17	175	85	57	800	737
BFFL800B	800	17	173	62	62	905	840
BFFL900B	900	17	148	33	75	1005	944
BFFL1000B	1000	17	148	27	85	1110	1047
BFFL1200B	1200	17	181	59	92	1330	1224
BFFL1200C	1200	21	181	59	92	1330	1224
BFFL1400C	1400	21	180	50	98	1535	1445

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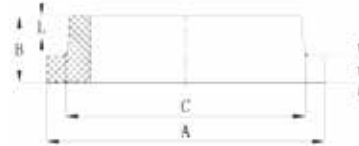
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Injection Butt Fusion Fitting-Flange

Raw material: PE80/PE100/PE100-RC
Colour: Black/ Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	SizeØ (mm)	SDR	B	L	t	A	C
BFFS280A	280	11	120	87	38	320	291
BFFS315A	315	11	115	57	43	370	335
BFFS355A	355	11	120	72	48	430	373
BFFS400A	400	11	120	62	54	482	427
BFFS450A	450	11	125	52	61	585	514
BFFS500A	500	11	125	59	68	585	530
BFFS560A	560	11	120	45	76	685	615
BFFS630A	630	11	130	68	86	685	642
BFFS280B	280	17	120	72	24	291	320
BFFS315B	315	17	115	43	35	335	370
BFFS355B	355	17	120	33	33	373	430
BFFS400B	400	17	120	49	36	427	482
BFFS450B	450	17	125	34	40	514	585
BFFS500B	500	17	125	50	45	530	585
BFFS560B	560	17	120	40	41	615	685
BFFS630B	630	17	130	52	55	642	685
BFFS710B	710	17	120	30	57	737	800
BFFLS800B	800	17	140	29	62	840	905

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4.3 Socket Fusion Fittings

Raw material: PE80/PE100
Colour: Black/Blue

Standard: BS EN12201-3/ISO4427-3
Parameters are for reference only.



External Thread Socket Tee HDPE 100 Specification
dn' mm
20×1/2" M
25×1/2" M
25×3/4" M
32×1" M
32×1/2" M
32×3/4" M
40×11/2" M
50×2" M
63×2" M



External Thread Socket Joint HDPE 100 Specification
dn' mm
20×1/2" M
25×1/2" M
25×3/4" M
32×1" M
32×1/2" M
32×3/4" M
40×11/4" M
40×11/2" M
50×11/2" M
50×2" M
63×2" M
75×21/2" M
90X3" M



Internal Thread Socket Elbow HDPE 100 Specification
dn' mm
20×1/2" M
25×1/2" M
25×3/4" M
32×1" M
32×1/2" M
32×3/4" M
40×3/4" M
50×3/4" M
63×3/4" M



Internal Thread Socket Tee HDPE 100 Specification
dn' mm
20×1/2" F
25×1/2" F
25×3/4" F
32×1" F
32×1/2" F
32×3/4" F
40×11/2" F
50×2" F
63×2" F

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4.3 Socket Fusion Fittings

Raw material: PE80/PE100

Colour: Black/Blue



Internal Thread Socket Joint HDPE 100
Specificaiton
dn' mm
20×1/2" F
25×1/2" F
25×3/4" F
32×1" F
32×1/2" F
32×3/4" F
40×11/4" F
40×11/2" F
50×11/2" F
50×2" F
63×2" F
75×21/2" F
90X3" F



Socket Pipe Cap HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
φ20
φ25
φ32
φ40
φ50
φ63
φ75
φ90
*

Standard: BS EN12201-3/ISO4427-3

Parameters are for reference only.



Internal Thread Socket Elbow HDPE 100
Specificaiton
dn' mm
20×1/2" F
25×1/2" F
25×3/4" F
32×1" F
32×1/2" F
32×3/4" F
40×3/4" F
50×3/4" F
63×3/4" F



Socket Straight Tee HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
20×20
25×25
32×32
40×40
50×50
63×63
75×75
90×90
110×110

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4.3 Socket Fusion Fittings

Raw material: PE80/PE100
Colour: Black/Blue

Standard: BS EN12201-3/ISO4427-3
Parameters are for reference only.



Socket 90° Elbow
HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
20
25
32
40
50
63
75
90
110



Socket 45° Elbow
HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
20
25
32
40
50
63
75
90
110



Socket Flange Gasket ring
HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
φ40
φ50
φ63
φ75
φ90
φ110
φ160
*
*



Socket Pipe Conduit
HDPE 100
SDR11 / PN1.6
Specificaiton
dn' mm
20
25
32
40
50
63
75
90
110

4.3 Socket Fusion Fittings

Raw material: PE80 PE100 Metal Material

Colour: Black/Blue

Standard: BS EN12201-3/ISO4427-3

Parameters are for reference only.



Socket Reducing Pipe Conduit HDPE 100 Specifacaiton
dn' mm
S25×20
S32×20
S32×25
S40×20
S40×25
S40×32
S50×20
S50×25
S50×32
S50×40
S63×20
S63×25
S63×32
S63×40
S63×50
S75×32
S75×40
S75×50
S75X63
S90X40
S90X50
S90X63
S90X75
S110X40
S110X50
S110X63
S110X75
S110X90



Socket Reducing Tee HDPE 100 Specifacaiton
dn' mm
T25×20
T32×20
T32×25
T40×20
T40×25
T40×32
T50×20
T50×25
T50×32
T50×40
T63×20
T63×25
T63×32
T63×40
T63×50
T75×40
T75×50
T75×63
T90X63
T90X75
T110X40
T110X50
T110X63
T110X75
T110X90

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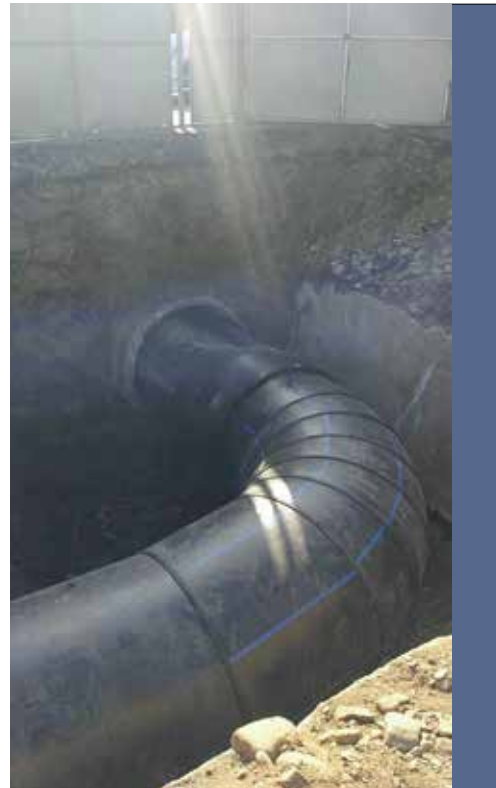
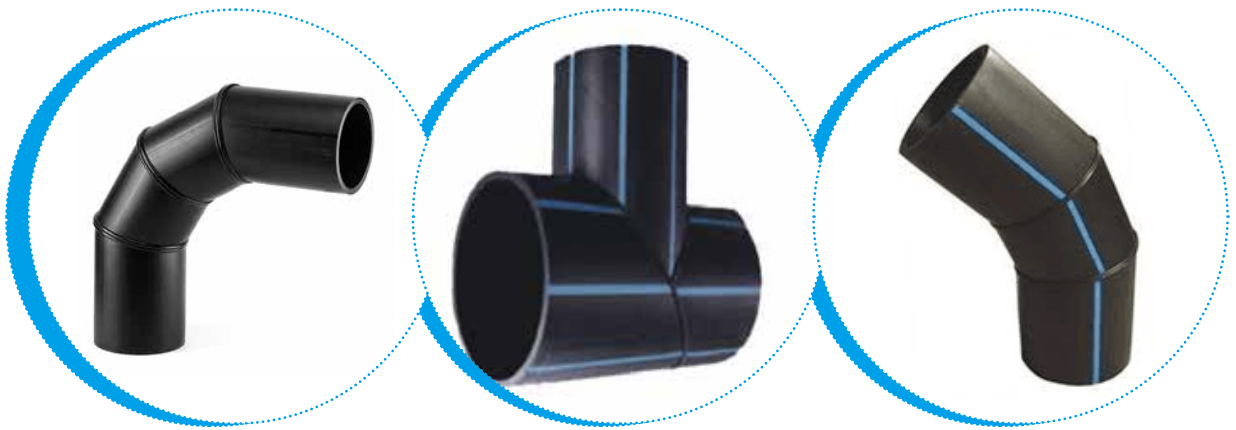
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4.4 Fabricated Butt Fusion Fittings

Raw material: PE80/PE100/PE100-RC

Colour : Black / Blue

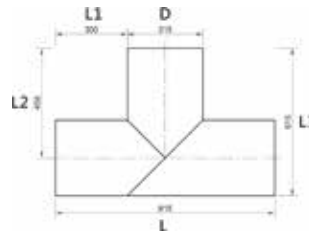
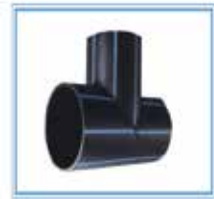
Standard : BS EN 12201-3 or ISO4427-3



Fabricated Butt Fusion Fitting-Tee

Raw material: PE80/PE100/PE100-RC
Colour: Black/Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	D(mm)	L	L1(mm)	L2(mm)	L3(mm)
T125	125	430		215	
T200	200	500		250	
T225	225	530		265	
T250	250	750		350	
T315	315	915	300	458	615
T355	355	1155	400	578	755
T400	400	1200	400	600	798
T450	450	1250	400	625	850
T500	500	1400	450	700	950
T560	560	1560	500	780	1060
T630	630	1630	500	815	1130
T710	710	1810	550	905	1260
T800	800	2000	600	1000	1400
T900	900	2100	600	1050	1500
T1000	1000	2200	600	1100	1602
T1200	1200	3200	1000	1600	2200
T1400	1400	4400	1500	2200	2900
T1600	1600	4600	1500	2300	3100

Raw material:SDR9/SDR11/SDR13.6/SDR17 PE

*L710&T800:SDR11/SDR3.6/SDR17 PE

*T900&T1000:SDR13.6/SDR17/SDR21 PE

*T1200:SDR17/SDR21/SDR26 PE

*T1400:SDR21/SDR26/SDR33

*T1600:SDR26/SDR33

*When cutting, the cutting length of each pipe segment can be 10mm longer than the marked length.The nominal pressure (PN) of the finished product is 1/2 of the nominal pressure of the pipe used.

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Fabricated Butt Fusion Fitting-Fabricated 90° Elbow

Raw material: PE80/PE100/PE100-RC
Colour: Black/Orange/Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	Angle	D(mm)	L	L1(mm)	L2(mm)	L3(mm)	L4(mm)
L31590°	90	315	868	331	188	300	331
L35590°	90°	355	1043	434	212	400	
L40090°	90°	400	1120	440	239	400	
L45090°	90°	450	1210	445	269	400	
L50090°	90°	500	1351	500	298	450	
L56090°	90°	560	1509	556	334	500	
L63090°	90°	630	1635	563	376	500	
L71090°	90°	710	1829	621	424	550	
L80090°	90°	800	2041	680	477	600	
L90090°	90°	900	2221	690	537	600	
L100090°	90°	1000	2401	699	597	600	
L120090°	90°	1200	3161	1119	716	1000	
L140090°	90°	1400	4022	1639	835	1500	
L160090°	90°	1600	4382	1659	955	1500	

Raw material:SDR11/SDR13.6/SDR17/SDR21/SDR26/SDR33 PE

*L90090°-L120090° :SDR17/SDR21/SDR26/SDR33 PE

*L140090°&L160090°:SDR21/SDR26/SDR33 PE

*When cutting, the cutting length of each pipe segment can be 10mm longer than the marked length.

The nominal pressure (PN) of the finished product is the same as the nominal pressure of the pipe used.

The designed turning radius is 1.5D

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Fabricated Butt Fusion Fitting-Fabricated 45° Elbow

Raw material: PE80/PE100/PE100-RC
Colour: Black/Orange/Blue

Standard: BS EN12201-3 or ISO4427-3
Parameters are for reference only.



Code	Angle	D(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	L5(mm)
L11045°	45°	110					160
L12545°	45°	125					160
L16045°	45°	160					165
L20045°	45°	200					180
L22545°	45°	225					180
L25045°	45°	250					245
L31545°	45°	315	331	188	430	921	
L35545°	45°	355	435	212	508	1152	400
L40045°	45°	400	440	239	553	1205	400
L45045°	45°	450	445	269	603	1263	400
L50045°	45°	500	500	298	672	1414	450
L56045°	45°	560	556	334	751	1576	500
L63045°	45°	630	563	376	821	1657	500
L71045°	45°	710	621	424	921	1843	550
L80045°	45°	800	680	477	1030	2040	600
L90045°	45°	900	690	537	1130	2156	600
L100045°	45°	1000	699	597	1229	2254	600
L120045°	45°	1200	1120	716	1583	3245	1000
L140045°	45°	1400	1639	835	1974	4400	1500
L160045°	45°	1600	1659	955	2174	4633	1500

Raw material:SDR11/SDR13.6/SDR17/SDR21/SDR26/SDR33 PE

*L90045°-L120045° :SDR17/SDR21/SDR26/SDR33 PE

*L140045°:SDR21/SDR26/SDR33 PE

*160045°:SDR26/SDR33 PE

*When cutting, the cutting length of each pipe segment can be 10mm longer than the marked length.

The nominal pressure (PN) of the finished product is the same as the nominal pressure of the pipe used.


The designed turning radius is 1.5D

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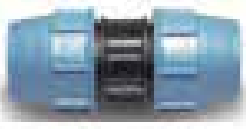
*Engineer and/or Gapex is required when designing for particular applications.


Gapex reserves the right to modify the information, Gapex will not issue a special notice when modifying this material.


4.5 PP Compression Fittings for irrigation

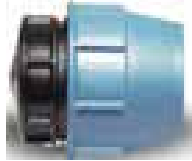
TEE	
20	
25	
32	
40	
50	
63	
75	
90	
110	

ELBOW 90°	
20	
25	
32	
40	
50	
63	
75	
90	
110	



COUPLING	
20	
25	
32	
40	
50	
63	
75	
90	
110	

REDUCING TEE	
25x20x25	
32x20x32	
32x25x32	
40x25x40	
40x32x40	
50x25x50	
50x32x50	
50x40x50	
63x50x63	
75x50x75	
75x63x75	
90x63x90	
90x75x90	
110x90x110	


REDUCING COUPLING	
25X20	
32X20	
32X25	
40X25	
40X32	
50X25	
50X32	
50X40	
63X32	
63X40	
63X50	
75X50	
75X63	
90X63	
90X75	
110X90	

END CAP	
20	
25	
32	
40	
50	
63	
75	
90	
110	

4.5 PP Compression Fittings for irrigation

MALE ADAPTOR		FEMALE ADAPTOR	
20 x 1/2"		20 x 1/2"	
20 x 3/4"			
20x1"			
25 x 1/2"			
25 x 3/4"			
25 x 1"			
32 x 1/2"			
32 x 3/4"			
32 x 1"			
32*1-1/4"			
40*1"			
40*1-1/4"			
40*1-1/2"			
50*3/4"			
50*1"			
50*11/4"			
50*11/2"			
50*2"			
63*1"			
63*11/4"			
63*11/2"			
63*2"			
63*2-1/2"			
75*2"			
75*2-1/2"			
75*3"			
90*2"			
90*2-1/2"			
90*3"			
90*4"			
110*3"			
110*4"			

4.5 PP Compression Fittings for irrigation

MALE TEE	
20x1/2"	
20x3/4"	
25x1/2"	
25x3/4"	
25x1"	
32x1/2"	
32x3/4"	
32x1"	
32x1 1/4"	
40x1"	
40x1 1/4"	
40x1 1/2"	
50x1 1/4"	
50x1 1/2"	
50x2"	
63x1 1/2"	
63x2"	
63x2 1/2"	
75x2"	
75x2 1/2"	
75x3"	
90x3"	
90x4"	
110x3"	
110x4"	

FEMALE ELBOW	
20x1/2"	
20x3/4"	
25x1/2"	
25x3/4"	
25x1"	
32x3/4"	
32x1"	
32x1-1/4"	
40x1"	
40x1 1/4"	
40x1-1/2"	
50x1-1/4"	
50x1-1/2"	
50x2"	
63x1 1/2"	
63x2"	
75x2"	
75x2 1/2"	
90x2-1/2"	
90x3"	
110x3"	
110x4"	

4.5 PP Compression Fittings for irrigation

MALE ELBOW	
20x1/2"	
20x3/4"	
25x1/2"	
25x3/4"	
25x1"	
32x1/2"	
32x3/4"	
32x1"	
32x1-1/4"	
40x1"	
40x1-1/4"	
40x1-1/2"	
50x1-1/4"	
50x1-1/2"	
50x2"	
63x1-1/2"	
63x2"	
63x2-1/2"	
75x2"	
75x2½"	
75x3"	
90x2-1/2"	
90x3"	
90x4"	
110x3"	
110x4"	

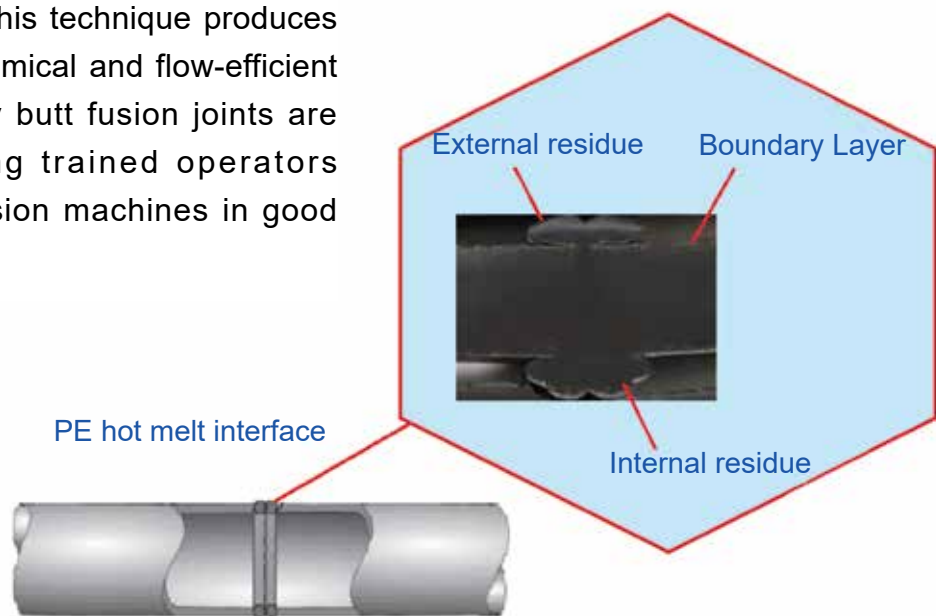
5 PE Pipe Joining

PE pipes are usually connected by the following four welding methods

5.1 Butt Fusion

PE Pipe Joining Procedures The principle of heat fusion is to heat two surfaces to a designated temperature, then fuse them together by application of a sufficient force. This force causes the melted materials to flow and mix, thereby resulting in fusion. When fused according to the pipe and/or fitting procedures, the joint area becomes as strong as, or stronger than, the pipe itself in both tensile and pressure properties and properly fused joints are absolutely leak proof. As soon as the joint cools to near ambient temperature, it is ready for handling.

The most widely used method for joining individual lengths of PE pipe and pipe to PE fittings is by heat fusion of the pipe butt ends as illustrated this technique produces a permanent, economical and flow-efficient connection. Quality butt fusion joints are produced by using trained operators and quality butt fusion machines in good condition.



Standard Butt Fusion Joint

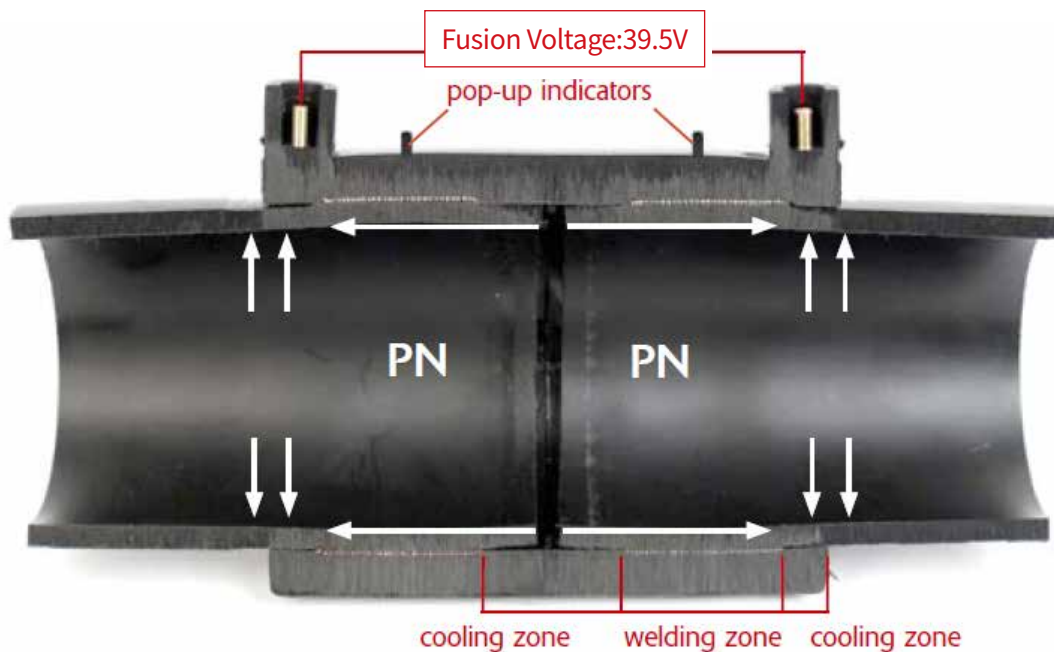
The six steps involved in making a butt fused joint are:

1. Clean, clamp and align the pipe ends to be joined
2. Face the pipe ends to establish clean, parallel surfaces, perpendicular to the center line
3. Align the pipe ends
4. Melt the pipe interfaces
5. Join the two pipe ends together by applying the proper fusion force
6. Hold under pressure until the joint is cool



5.2 Electrofusion (EF)

The electrofusion joint is heated internally, either by a conductor at the interface of the joint or, as in one design, by a conductive polymer. Heat is created as an electric current is applied to the conductive material in the fitting. illustrates a typical electrofusion joint. PE pipe to pipe connections made using the electrofusion process require the use of electrofusion couplings.



General steps to be followed when performing electrofusion joining are:

1. Prepare the pipe (scrape, clean)
2. Mark the pipe
3. Align and restrain pipe and fitting
4. Apply the electric current
5. Cool and remove the clamps
6. Document the fusion process



5.3 Socket Fusion

This technique consists of simultaneously heating both the external surface of the pipe end and the internal surface of the socket fitting until the material reaches the recommended fusion temperature, inspecting the melt pattern, inserting the pipe end into the socket, and holding it in place until the joint cools.

Socket Fusion

Follow these general steps when performing socket fusion:

1. Thoroughly clean the end of the pipe and the matching inside surface of the fitting
2. Square and prepare the pipe end
3. Heat the parts
4. Join the parts
5. Allow to cool

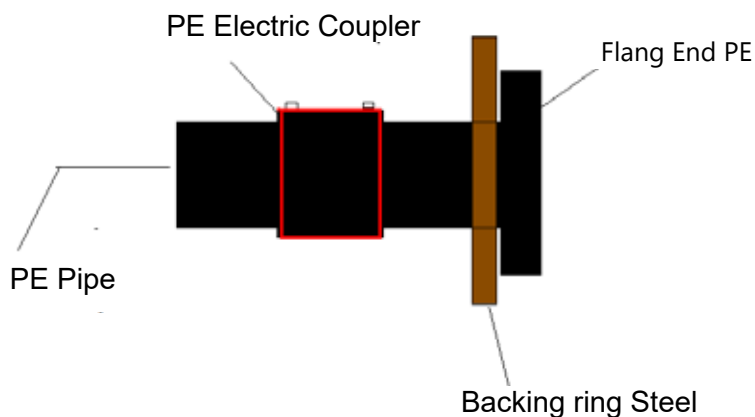


5.4 Flanged Connections

When joining to metal or to certain other piping materials, or if a pipe section capable of disassembly is required, PE flange adapters, The “Flange Adapter” and its shorter version, the “Stub End,” are designed so that one end is sized the same as the PE pipe for butt fusion to it. The other end has been especially made with a flange-type end that, provides structural

The general procedures for joining would be:

1. Slip the metal ring onto the PE pipe section, far enough away from the end to avoid interference with operation of the butt fusion equipment.
2. If a stub end is used, first butt-fuse a short length of PE pipe to the pipe end of the stub end. If a “flange adapter” is used, the PE pipe-sized end is usually long enough that this step is unnecessary.
3. Butt fuse the flange adapter to the PE pipe segment
4. The fusion bead may need to be removed to clear the back-up ring as it is moved against the flange
5. Position the flanged face of the adapter at the position required so that the back-up ring previously placed on the PE pipe segment can be attached to the metal flange
6. Install and tighten the flange bolts in a criss-cross pattern sequence normally used with flange type connections, drawing the metal and PE flangefaces evenly and flat.



5.5 Compression fittings

Compression fittings provide outstanding physical and performance benefits. Strong and lightweight, PP reduces the amount of material used and serves as a greener alternative to heavier metals. Poly compression fittings are an age-old method of joining two pieces of poly pipe together, with an o-ring or bush and a screw cap working together to clamp the pipe ends within the fittings. With a clean pipe and a new fitting, the grip is strongest, and when properly installed, will last for many years without leaking.



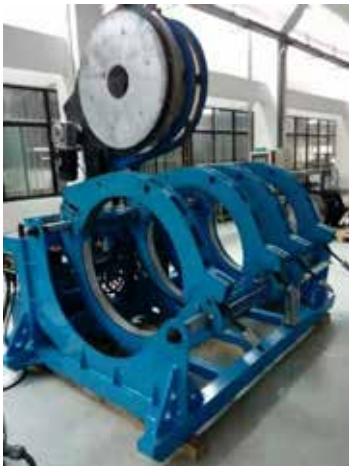
6 TOOL

6.1 Butt Welding Machine

6.1.1 Automatic Butt Welder

Welded pipe size: Dia 160mm to 630mm

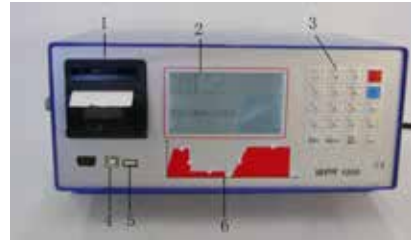
Dia 71mm to 1200mm



6.1.2 Semil-automatic welding machine

Welded pipe size: Dia 160mm to 630mm

Dia 710mm to 1800mm



Planing Tool



Heating Plate



Clamp



Basic Frame



Support



Hydraulic Unit



Heating Plate Connection

6.1.3 Manual Welding Machine

Welded pipe size: Dia 160mm to 630mm

Dia 710mm to 1800mm



6.2 Electric Fusion Welding Machine

Welded pipe size: Dia 20 mm to 630mm

Dia 710mm to 1800mm



6.3 External debander Plane

Welded pipe size: Dia 10 mm to 400mm

Dia 400mm to 1000mm



6.4 Internal Debander

TECHNICAL FEATURES

M0del	SDR range
φ 90 mm	17÷26
φ 110÷450 mm	11÷26
φ 500 mm	17÷26

Professional pipe inner crimping removal tool, can restore the original inner diameter of the pipe, effectively reduce the flow resistance caused by welding to form the inner flange



6.5 Pipe Rotary Scraper


These professional rotary scrapers are essential to prepare the plastic pipes and fittings before electrofusion welding.

Practical and handy, the pipe scrapers remove the oxidation layer caused by weather and ultraviolet rays. If not removed, the oxidation layer would severely compromise the quality of the joint. Among the main construction features there is a device that makes it possible to maintain the thickness of the continuous chip constant, even if the pipe is misshaped, and to adjust the length of the surface to scrape according to the depth of the electrical coupler.



The features an extendable arm to scrape the exact length of the electrical coupler, which is an advantage when having to perform maintenance/repair jobs in the building site. The main chuck has four extendable arms that clamps directly the inside diameter of the pipe.

Technical Parameters			
Working range	Dia 50 to 160	Dia 75 to 315	Dia 355 to 710
Peeling width	70mm	137mm	530mm

Manual Paring Knife	
---------------------	---

6.6 Hot melt socket welding machine



6.5.1 Pipe Cutters

Convenient rotary cutting

Neat and clean end face to ensure welding quality



6.5.2 Hot melt socket welding machine

Scope of application : PE/ PP/ PVDF

Applicable size: Dia 20mm to 63mm

Dia 75mm to 125mm



6.5.3 Chamfer

Provide accurate angles for construction site needs

Applicable size :	Dia 25mm to 160mm	Dia 40mm to 315mm
Chamfer thickness :	10mm	35mm

7 Job Reference

PROJECT	Construction of Public Rental Housing Development at Queen's Hill Site 1 Phase 3 Contractor
CLIENT	Housing Department
CONTRACTOR	Moral Star Construction Engineering Ltd.
DATE	2019-12
MODEL	"GAPEX" O.D90mm HDPE PE100 SDR11 Pipe



PROJECT	Tin Hau Temple Development Causeway Bay Hong Kong
CLIENT	DSD
CONTRACTOR	Yan Lee Construction Co.,Ltd.
DATE	2019-12
MODEL	“GAPEX” O.D200mm HDPE PE100 SDR17 Pipe



PROJECT	DC/2007/24 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System from Aberdeen to Sai Ying Pun
CLIENT	DSD
CONTRACTOR	Leighton –LNS Joint Venture
DATE	2014-8-28
MODEL	“GAPEX” O.D160mm and O.D400mm SDR17 PE Pressure Pipe



PROJECT	Proposed Residential Development at Lot No.1066 in D.D 103,Au Tau, Yuen Long,New Territories
CLIENT	DSD
CONTRACTOR	Yau Hing Engineering Construction Ltd
DATE	2018-12
MODEL	"GAPEX" O.D355mm HDPE PE100 SDR17 Pressure Pipe



PROJECT	Proposed Residential Development at Lot No. 604, Sha Tin Town, Mei Tin Road, New Territories
CLIENT	DSD
CONTRACTOR	Win Win Way Construction Co.Ltd.
DATE	2018-11
MODEL	"GAPEX" O.D250mm HDPE PE100 SDR21 Pressure Pipe



PROJECT	No.14 Nan Cheong Street
CLIENT	DSD
CONTRACTOR	Brington Contractors Ltd.
DATE	2017-12
MODEL	"GAPEX" O.D250mm PE100 SDR17 Pressure Pipe



PROJECT	Fanling Soccer Court
CLIENT	ASD
CONTRACTOR	able engineering co., ltd
DATE	2007/5/28
MODEL	“GAPEX” O.D110mm SDR11 PE irrigation pressure pipe



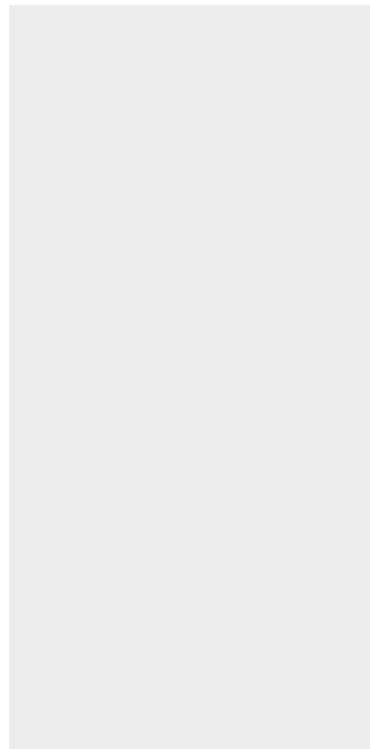
PROJECT	J13024(103)-Cable Trough at S6(Liantang)
CLIENT	CLP
CONTRACTOR	JASON ENGINEERING CO.
DATE	2017-1
MODEL	"GAPEX" O.D180mm and O.D225mm SDR21 PE100 HDPE Cable Dute



PROJECT	Kau Sai Chau Golf Course
CLIENT	The Hong Kong Jockey Club
CONTRACTOR	Peako Engineering Co., Ltd
DATE	2006/8/26
MODEL	"GAPEX" O.D. 110 mm & O.D 200 mm PE100 SDR13.6 pipe



PROJECT	CLP Cable trenching works at Sheung Shui Ho Sheng Heung
CLIENT	CLP
CONTRACTOR	VICTORY TRENCHLESS ENGINEERING CO., LTD.
DATE	2009/06/26



PROJECT	CLP Cable trenching works
CLIENT	CLP
CONTRACTOR	Paul Y Construction & Engineering Co. Ltd.
DATE	2007/09/24
MODEL	"GAPEX" O.D. 200 mm & O.D110 mm pe80 SDR33 CABLE DUCT



PROJECT	CLP 132 Kv submarine cable circuit installation between ma on shan & Pak shek kok
CLIENT	CLP
CONTRACTOR	HONG KONG MARINE CONTRACTORS LTD.
DATE	2007/3/31
MODEL	"GAPEX" O.D315 mm SDR26 PE CABLE DUCT



PROJECT	CLP CABLE SUB-DUCT
CLIENT	CLP
CONTRACTOR	KUMSHING (K.F.) CONSTRUCTION CO., LTD.
DATE	2006/5
MODEL	"GAPEX" O.D25 mm SDR7.4 PE Pressure Pipe



PROJECT	TOWNGAS SUBMARINE PIPEINE -H2288-0708
CLIENT	CHINA TOWNGAS
CONTRACTOR	LEIGHTON CONTRACTORS (ASIA) LTD.
DATE	2005/7
MODEL	"GAPEX" O.D400mm SDR17.6 PE Pressure Pipe



PROJECT	Chi Ma Wan Cable Tunnel –HDD Crossing for the Poi O Cable Crossing project
CLIENT	CLP
CONTRACTOR	AJ Lucas Group Ltd.
DATE	2005/8
MODEL	“GAPEX” O.D630 mm SDR26 PE Pressure Pipe



Contract: KL/2008/02

PROJECT	Kai Tak Development – Decommissioning and Decontamination works at the South Apron of the Former Kai Tak Airport
CLIENT	TDD
CONTRACTOR	Kin Wing Construction Co., Ltd.
DATE	2008-7
MODEL	“GAPEX” O.D315mm SDR26 PE Pressure Pipes & Fittings



PROJECT	Yau Tong Bay Redevelopment-Land Decontamination Works
CONTRACTOR	Kin Wing Construction Co., Ltd.
DATE	2014-2
MODEL	“GAPEX” O.D160mm and O.D315mm SDR26 PE Pressure Pipes and fittings



PROJECT	CLP CABLE TUNNEL (TSZ WAN SHAN TUNNEL)
CLIENT	CLP
CONTRACTOR	DRAGAGES (HK) JOINT VENTURE
DATE	2005/6
MODEL	"GAPEX" O.D225mm & O.D110mm SDR26 PE Pressure Pipe





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