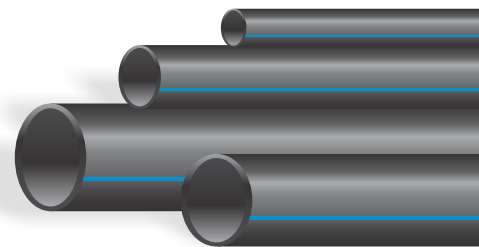


COMPLETELY USEFUL SOLUTIONS ALL OVER PIPE SIZES



PE Pipes

PIPING is a leading supplier of World class plastic pipe systems for water and Sewer reticulation to China. “ **PIPING** ” produces a wide range of Polyethylene (PE) Pipes and Fittings in an International Organization of Standards (ISO) 9001 controlled environment. The pipes and fittings are manufactured to high technical Bureau of Indian Standards (BIS) IS 4984:2016 specification, International Organization for Standardization (ISO) 4427, thereby ensuring excellent quality and reliability.

PIPING Pipes and Fittings are manufactured from 100% virgin PE material for use at pressures up to 25 bars. In its endeavor of sustainable growth, **PIPING** invested in state of the art machinery, a development which will see its product range widen from a minimum nominal size of 20 to 400mm diameter.

HDPE Pipes, HDPE Coil Pipes

Material	High Density Polyethylene
Grade	PE100, PE80, PE63
Size/Diameter	DN20mm to Dn400mm
Pipe in form	As per Customer Requirement
Standard	IS 4984:2016, BIS Approved Pipes

PE Grade

The standards give the PE pipe raw material grades as PE63, PE80 and PE100. The PE raw material is manufactured in the form of granules and the first generation grades of PE63 & PE80 raw materials were manufactured by UNIMODEL method. Subsequently PE100 grade was introduced with BIMODEL method of manufacturing, the PE80 grade also was included in the BIMODEL method. This BIMODEL method of manufacturing the PE



granules both in PE80 and PE100 grades, improved not only the minimum required strength but also the pipe performance by increasing the Notch Resistance as well as Resistance to Crack propagation. The increase in MRS also reduced the wall thickness for a given pressure class there by increasing the internal diameter resulting in better fluid flow with reduced cost of pipe.

The PE raw material resin granules are available in two types:

1. Natural grade which is translucent and for the UV protection carbon black master batch is added to the granules during extrusion.
2. Pre-compounded resin granules are also available which is specified in all the International Standards which gives a uniform dispersion of carbon black in the end products thereby the products have better UV resistance for long storage under sunlight or for above ground installations.

PIPING PE pipes are manufactured conforming to the International & Indian standards below.

- 1) International Standard ISO-4427, ISO 4437
- 2) Indian Standards IS-4984:2016
- 3) British Standard BS ISO 4427-3
- 4) Other Standards - RAINSON can manufacture PE pipes conforming to client's as well as consultant's specifications.

Property	Value	Unit
Density (Base Material)	930 - 960	Kg/m ³
Melt Flow Index (190 °C/5.0 Kg)	0.2 - 1.1	gm/10 Minutes
VST	120 - 130	°C
Crystalline Melting Range	130 - 133	°C
Notched Izod Impact Strength	No Break	J/m
Flexural Modulus	850	MPa
Tensile Strength at Yield	20-28	MPa
Ultimate Tensile Strength	30	MPa
Elongation at Break	>600	%
Elastic Modulus	800-1200	MPa
Thermal Stability at 200 °C	≥20	Minutes
Carbon Black Content	2-3	%
ESCR, F50	>1000	Hours

PE Pipe Wall Thickness for Raised Temperature

The wall thickness of pipes is based on the maximum allowable hydrostatic design stress at 30°C water temperature for 50 years of life. In case of variation in water temperature, the working pressure needs to be modified as per given chart. However, occasional rise in temperature as in summer season with concurrent corresponding reduction in temperature during night has no deleterious effects on the life and working pressure of PE Pipes.

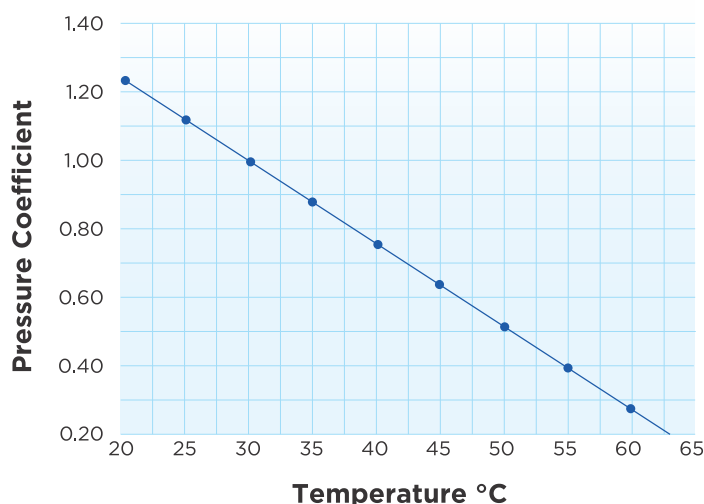


Property	Value			Unit
Base Density	930-960			Kg/m ³
Melt Flow Index (190°C/5.0 kg load)	0.2-1.0			g/10 Min
Longitudinal Reversion Test	≤3			%
Carbon Black Content	2.0-3.0			%
Carbon Black Dispersion	Satisfactory Dispersion			-
Anti-oxidant Content in PE Resin	Max 0.3			%
OIT of PE Resin and Pipe at 200°C	≥20			Minutes
Volatile Content of PE Resin	≤350			mg/kg
Water Content of PE Resin	≤350			mg/kg
Dimensional Characteristics	As per IS 4984:2016			--
Hydraulic Characteristics	PE63	PE80	PE100	--
27°C & 100 hrs Duration	6.9	8.6	10.7	MPa for Induced stress selected
80°C & 48 hrs Duration	3.8	4.9	5.7	
80°C & 165 hrs Duration	3.5	4.5	5.4	
80°C & 1000 hrs Duration	3.2	4.0	5.0	
Tensile Strength of Butt Fusion Joint	Ductile Failure			-
Elongation at Break	≥ 350			%
Slow Crack Growth at 80 + 1°C, Notched Test Specimen at Below Internal Test Pressure (Bar). 1. PE63 - 6.4, 2. PE80 - 8.0, 3. PE100 - 9.2	≥ 500			Hours

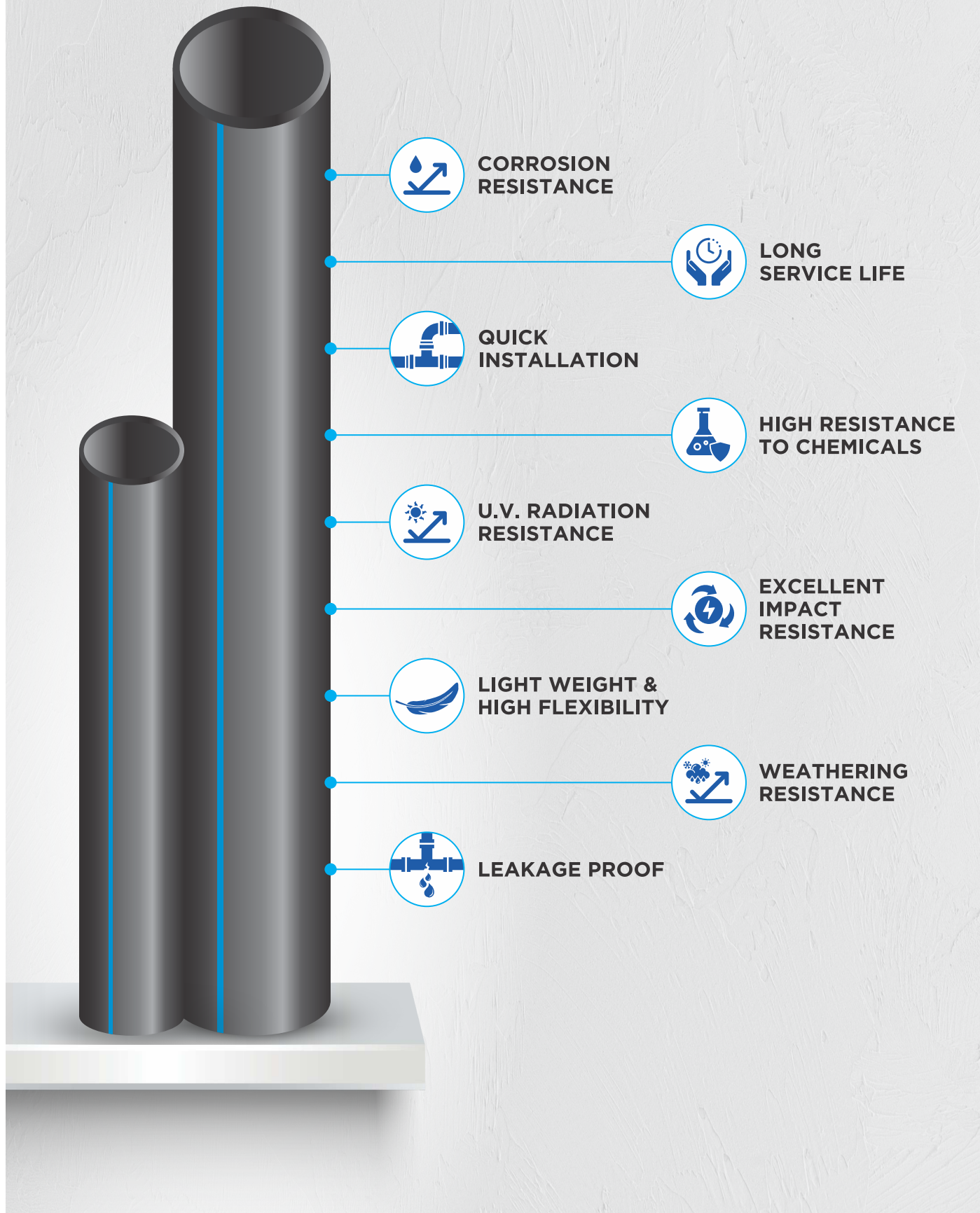
Temperature v/s Pressure Co-efficient Chart

Temperature De-rating of PE Pipes (As Per IS 4984:2016 Specifications)

Service Temperature	Multiplication Factor for Pressure Rating
20°C	1.24
25°C	1.12
30°C	1.00
35°C	0.88
40°C	0.76
45°C	0.64
50°C	0.52
55°C	0.40
60°C	0.28
63°C	0.18



Advantage of PE Pipes



HIGH PURITY GRADES SETTING NEW STANDARDS



HDPE Pipes

STANDARD DIMENSION RATIO (SDR) & CORRESPONDING WALL THICKNESS OF PIPES AS PER IS 4984:2016																		
PE100, PE80, PE63, HDPE PIPES																		
SDR			SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9	
PE 63			PN 2		PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8		-	
PE 80			PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5	
PE 100			PN 3		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16	
Nominal OD DN (mm)		Ovality in	W.T.		W.T.		W.T.		W.T.		W.T.		W.T.		W.T.		W.T.	
Min OD	Max OD	mm	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	20.3	1.2													1.9	2.2	2.3	2.6
25	25.3	1.2											1.9	2.2	2.3	2.6	2.8	3.2
32	32.3	1.3										2.2	2.7	2.7	2.9	3.3	3.6	4.1
40	40.4	1.4							1.9	2.2	1.9	2.7	3.4	3.4	3.7	4.2	4.5	5.1
50	50.4	1.4					2.0	2.3	2.4	2.7	2.4	3.4	4.2	4.2	4.6	5.2	5.6	6.3
63	63.4	1.5					2.5	2.9	3.0	3.4	3.0	4.2	5.3	5.3	5.5	6.5	7.0	7.8
75	75.5	1.6	1.9	2.2	2.3	2.6	2.9	3.3	3.6	4.1	3.6	5.1	6.3	6.3	6.9	7.7	8.4	9.3
90	90.6	1.8	2.2	2.5	2.8	3.2	3.5	4.0	4.6	4.8	4.3	5.9	7.5	7.5	8.2	9.1	10.0	11.1
110	110.7	2.2	2.7	3.1	3.4	3.8	4.3	4.8	5.9	6.6	5.9	7.3	9.0	9.0	10.0	11.1	12.3	13.6
125	125.8	2.5	3.1	3.5	3.8	4.3	4.8	5.4	6.0	6.7	6.0	8.2	10.2	10.2	11.4	12.7	13.9	15.4
140	140.9	2.8	3.5	4.0	4.3	4.8	5.4	6.0	6.7	7.5	6.7	9.2	11.4	11.4	12.8	14.2	15.6	17.3
160	161.0	3.2	3.9	4.4	4.9	6.5	6.2	6.9	7.7	8.6	7.7	10.6	13.1	13.1	14.6	16.2	17.8	19.7
180	181.1	3.6	4.4	4.9	5.5	6.2	7.0	7.8	8.6	9.6	8.6	11.8	14.7	14.7	16.4	18.1	20.0	22.1
200	201.2	4.0	4.9	5.5	6.1	6.8	7.7	8.6	9.6	10.7	9.6	13.1	16.3	16.3	18.2	20.1	22.3	24.6
225	226.4	4.5	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12.0	10.8	14.7	18.4	18.4	20.5	22.7	25.0	27.6
250	251.5	5.0	6.1	6.8	7.6	8.5	9.7	10.8	12.0	13.3	12.0	16.3	20.3	20.3	22.8	25.2	27.8	30.7
280	281.7	9.8	6.9	7.7	8.5	9.5	10.8	12.0	13.4	14.8	13.4	18.2	22.8	22.8	25.5	28.2	31.0	34.4
315	316.9	11.1	7.7	8.6	9.6	10.7	12.2	13.5	15.0	16.6	15.0	20.6	25.6	25.6	28.4	31.7	35.0	38.6
355	357.2	12.5	8.7	9.7	10.8	12.0	13.7	15.2	16.9	18.7	16.9	23.1	28.8	28.8	32.3	35.6	39.5	43.6
400	402.4	14.0	9.8	10.9	12.2	13.5	15.4	17.0	19.1	21.1	19.1	26.1	32.6	32.3	36.4	40.1	44.5	49.1

Note:

- Pipes conforming to ISO-4427, DIN-8074, IS-4984:2016 all with latest amendments are available on demand.
- Custom made pipes and fittings are also available on demand.

OD - OUTER DIAMETER

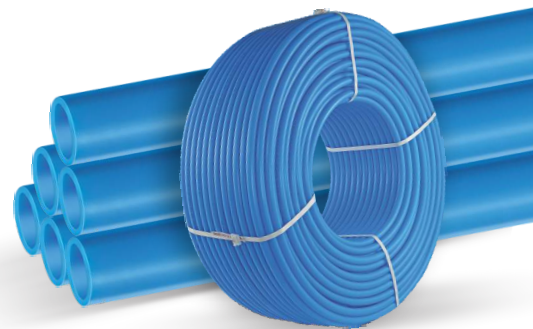
W.T. - WALL THICKNESS

PN - PRESSURE RATING

SDR - STANDARD DIMENSION RATIO



BRIGHT FUTURE BEGIN WITH CLEAN WATER



MDPE Pipes

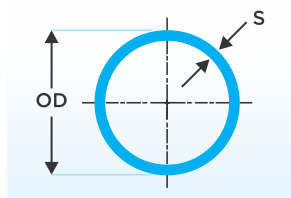
MDPE or Medium-density Polyethylene, is a type of common plastic that has a uniquely specific density. It has very high shock- and drop resistance properties, is fewer notches sensitive and is far more resistant to cracking than other plastics like HDPE. A versatile material MDPE is used in a number of other industries and can be used in gas pipes, carrier bags and screw closures. It has a sound chemical resistance and is generally stable at room temperature. Furthermore, MDPE is particularly flexible, more cost-effective than other plastics and a metal used in plumbing, is easily recycled and can handle swift temperature changes.

Specification

Material Grade	Medium Density Polyethylene PE100, PE80, PE63 (Special Pre-compounded Material)
Size Range	DN 20mm to DN 315mm
Pressure Rating	2.5 kg/cm ² to 16 kg/cm ²
Temp. Range	40°C to 60°C
Color	Blue, Black with Blue Strips, Yellow
Pipe in Form	As per customer requirement

Conforms to as per ISO 4427: 2007, IS 4984 : 2016, DIN 8074 standards or as specified by customer certified to be 100 % Safe for Drinking Water

Standard Dimension Ratio



$$SDR = \frac{OD}{S}$$

SDR - Standard Dimension Ratio

OD - Outer Diameter (mm)

S - Wall Thickness (mm)

Features & Characteristics

- High impact resistance body
- Uses in residential & commercial line
- High water flow & reduce energy bill
- Environment friendly



A FINEST FIT WITH CLEAN WATER DEMANDS



PPR Pipes

experience of and research has developed an ultimate piping solution for industrial piping has been developed for all application such as Chemical applications. Water line soft water, Raw Water, R.O. Water, D.M. Water Lower temperature applications, all types of utility line and process lines. In modern era companies faces many challenges like Leakages, Corrosion - erosion, Heatloss, Sagging.

Specification

Material	Poly Propylene Random Co-Polymer
Size Range	We offer wide range PP-R pipes.
Standard	As per DIN 8077
Color	Green with White Strips, available Yellow Strips also.
Pipe in form	As per customer requirement.

High Quality and Durable PPR pipes.



Uses

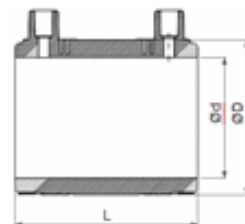
- For Hot & Cold Water in all types of Building, Pharmaceuticals Industries, Rainwater Utilization System, Agriculture & Horticulture Sectors, Irrigation Systems & Chemical Industries etc.

Advantages

- Resistant to Heat & Cold
- Non-Toxic
- Reduction in pressure loss
- Long-Lasting
- Abrasion Resistance
- Low Conductivity

Electrofusion Coupler

Size (mm)	Product Code	SDR	Ød (mm)	ØD (mm)	L (mm)
63	REFC063063	11	63	81	96
75	REFC075075	11	75	96	110
90	REFC090090	11	90	112	129
110	REFC110110	11	110	136	144
125	REFC125125	11	125	153	156
140	REFC140140	11	140	168	165
160	REFC160160	11	160	188	180
180	REFC180180	11	180	213	180
200	REFC200200	11	200	231	183
225	REFC225225	11	225	260	226
250	REFC250250	11	250	289	248
280	REFC280280	11	280	328	256
315	REFC315315	11	315	370	270



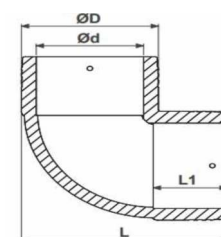
Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Elbow

Size (mm)	Product Code	Ød (mm)	ØD (mm)	L (mm)	L1 (mm)
63	REFE063063	63	81	122	50
75	REFE075075	75	96	140	55
90	REFE090090	90	113	175	65
110	REFE110110	110	136	215	72.5
125	REFE125125	125	154	224	80
140	REFE140140	141	170	250	85
160	REFE160160	160	190	276	90
180	REFE180180	180	215	305.5	90
200	REFE200200	200	233	366.5	95



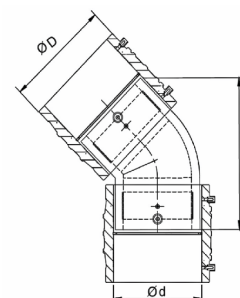
Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Elbow 45 Degree Kit

Ød	Product Code	ØD (mm)	Z (mm)
63	REE45063063	81	160
75	REE45075075	96	176
90	REE45090090	112	202
110	REE45110110	136	220
125	REE45125125	153	239
140	REE45140140	168	250
160	REE45160160	188	273
180	REE45180180	213	290
200	REE45200200	231	311



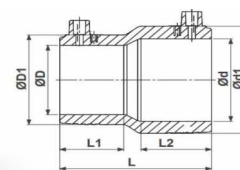
Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Reducer

Size (mm)	Product Code	SDR	Ød (mm)	Ød1 (mm)	ØD (mm)	ØD1 (Sec)	L1 (mm)	L2 (mm)	L (mm)
75x63	REFR075x063	11	75	94	63	81	49	55	115
90x63	REFR090x063	11	90	113	63	81	49	63	137
90x75	REFR090x075	11	90	113	75	96	54	63	132
110x63	REFR110x063	11	110	136	63	81	49	70	162
110x75	REFR110x075	11	110	136	75	96	54	73	156
110x90	REFR110x090	11	110	136	90	113	63	73	153



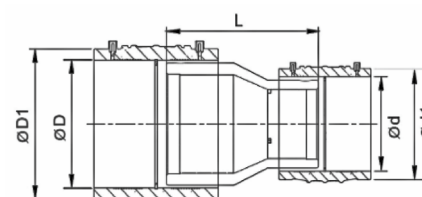
Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Reducing Kit

Size (mm)	Product Code	ØD (mm)	ØD1 (mm)	L (mm)	Ød1 (Sec)	Ød1 (mm)
125X63	REFR125063	125	153	223	63	81
125X75	REFR125075	125	153	223	75	96
125X90	REFR125090	125	153	223	90	112
125X110	REFR125110	125	153	223	110	136
140X63	REFR14063	140	168	225	63	81
140X75	REFR14075	140	168	225	75	96
140X90	REFR14090	140	168	225	90	112
140X110	REFR140110	140	168	225	110	136
140X125	REFR140125	140	168	225	125	153
160X63	REFR160063	160	188	245	63	81
160X75	REFR160075	160	188	245	75	96
160X90	REFR160090	160	188	245	90	112
160X110	REFR160110	160	188	245	110	136
160X125	REFR160125	160	188	245	125	153
160X140	REFR160140	160	188	245	140	168
180X63	REFR180063	180	213	250	63	81
180X75	REFR180075	180	213	250	75	96
180X90	REFR180090	180	213	250	90	112
180X110	REFR180110	180	213	250	110	136
180X125	REFR180125	180	213	250	125	153
180X140	REFR180140	180	213	250	140	168
180X160	REFR180160	180	213	250	160	188
200X63	REFR200063	200	231	273	63	81
200X75	REFR200075	200	231	273	75	96
200X90	REFR200090	200	231	273	90	112
200X110	REFR200110	200	231	273	110	136
200X125	REFR200125	200	231	273	125	153
200X140	REFR200140	200	231	273	140	168
200X160	REFR200160	200	231	273	160	188
200X180	REFR200180	200	231	273	180	213



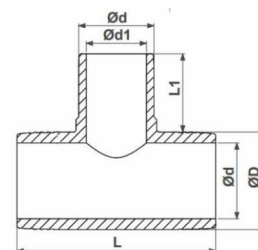
Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Tee

Size (mm)	Product Code	SDR (mm)	Ød (mm)	Ød1 (mm)	ØD (mm)	L (mm)	L1
63	REFT063063	11	63	50	81	163	65
75	REFT075075	11	75	60	95	183	70
90	REFT090090	11	90	75	114	204	80
110	REFT110110	11	110	90	136	247	89
125	REFT125125	11	125	108	153	280	97
140	REFT140140	11	140	121	165	305	102
160	REFT160160	11	160	141	189	345	109
180	REFT180180	11	180	162	213	365	110
200	REFT200200	11	200	178	232	389	117
225	REFT225225						
250	REFT250250						
280	REFT280280						
315	REFT315315						



Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Reducing Tee Kit

Size (mm)	Product Code	SDR	Size (mm)	Product Code	SDR
63x63x40	REFRT063063040	11	200x200x140	REFRT200200140	11
63x63x50	REFRT063063050	11	200x200x160	REFRT200200160	11
75x75x50	REFRT075075050	11	200x200x180	REFRT200200180	11
75x75x63	REFRT075075063	11	225x225x63	REFRT225225063	11
90x90x63	REFRT090090063	11	225x225x75	REFRT225225075	11
90x90x75	REFRT090090075	11	225x225x90	REFRT225225090	11
110x110x63	REFRT110110063	11	225x225x110	REFRT225225110	11
110x110x75	REFRT110110075	11	225x225x125	REFRT225225125	11
110x110x90	REFRT110110090	11	225x225x140	REFRT225225140	11
125x125x63	REFRT125125063	11	225x225x160	REFRT225225160	11
125x125x75	REFRT125125075	11	225x225x180	REFRT225225180	11
125x125x90	REFRT125125090	11	225x225x200	REFRT225225200	11
125x125x110	REFRT125125110	11	250x250x63	REFRT250250063	11
140x140x63	REFRT140140063	11	250x250x75	REFRT250250075	11
140x140x75	REFRT140140075	11	250x250x90	REFRT250250090	11
140x140x90	REFRT140140090	11	250x250x110	REFRT250250110	11
140x140x110	REFRT140140110	11	250x250x125	REFRT250250125	11
140x140x125	REFRT140140125	11	250x250x140	REFRT250250140	11
160x160x63	REFRT160160063	11	250x250x160	REFRT250250160	11
160x160x75	REFRT160160075	11	250x250x180	REFRT250250180	11
160x160x90	REFRT160160090	11	250x250x200	REFRT250250200	11
160x160x110	REFRT160160110	11	250x250x225	REFRT250250225	11
160x160x125	REFRT160160125	11	280x280x63	REFRT280280063	11
160x160x140	REFRT160160140	11	280x280x75	REFRT280280075	11
180x180x63	REFRT180180063	11	280x280x90	REFRT280280090	11
180x180x75	REFRT180180075	11	280x280x110	REFRT280280110	11
180x180x90	REFRT180180090	11	280x280x125	REFRT280280125	11
180x180x110	REFRT180180110	11	280x280x140	REFRT280280140	11
180x180x125	REFRT180180125	11	280x280x160	REFRT280280160	11
180x180x140	REFRT180180140	11	280x280x180	REFRT280280180	11
180x180x160	REFRT180180160	11	280x280x200	REFRT280280200	11
180x180x110	REFRT180180110	11	280x280x225	REFRT280280225	11
180x180x125	REFRT180180125	11	280x280x250	REFRT280280250	11
180x180x140	REFRT180180140	11	315x315x63	REFRT315315063	11
180x180x160	REFRT180180160	11	315x315x75	REFRT315315075	11
200x200x63	REFRT200200063	11	315x315x90	REFRT315315090	11
200x200x75	REFRT200200075	11	315x315x110	REFRT315315110	11
200x200x90	REFRT200200090	11	315x315x125	REFRT315315125	11
200x200x110	REFRT200200110	11	315x315x140	REFRT315315140	11
200x200x125	REFRT200200125	11	315x315x160	REFRT315315160	11



Material | PE100, SDR : 11/17

Standard | EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

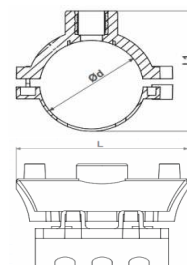
Size (mm)	Product Code	SDR
315x315x180	REFRT315315180	11
315x315x200	REFRT315315200	11
315x315x225	REFRT315315225	11
315x315x250	REFRT315315250	11
315x315x280	REFRT315315280	11

***Note:** SET= Combination of EF Tee with EF Coupler.

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Electrofusion Saddle

Size (mm)	Product Code	Ød (mm)	L (mm)	L1 (mm)
63x $\frac{1}{2}$ "	REFS063020	63	127.5	90
75x $\frac{1}{2}$ "	REFS075020	75	127.5	102
90x $\frac{1}{2}$ "	REFS090020	90	127.5	120
110x $\frac{1}{2}$ "	REFS0110020	110	127.5	140



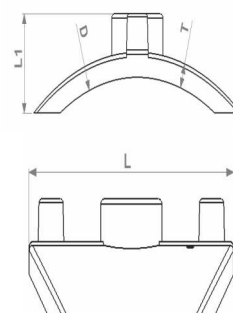
Material PE100, SDR : 11/17

Standard EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Higher Size Saddle

Size (mm)	Product Code	D (mm)	L (mm)	L1 (mm)	T (mm)
125x $\frac{1}{2}$ "	REFS125020	125	127.5	56	11
140x $\frac{1}{2}$ "	REFS140020	140	127.5	56	11
160x $\frac{1}{2}$ "	REFS160020	160	127.5	50	11
180x $\frac{1}{2}$ "	REFS180020	180	127.5	50	11
200x $\frac{1}{2}$ "	REFS200020	200	127.5	50	11
225x $\frac{1}{2}$ "	REFS225020	225	127.5	44	11
250x $\frac{1}{2}$ "	REFS250020	250	127.5	44	11
280x $\frac{1}{2}$ "	REFS280020	280	127.5	44	11
315x $\frac{1}{2}$ "	REFS315020	315	127.5	44	11



Material PE100, SDR : 11/17

Standard EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion End Cap

Ød (mm)	Product Code
63	REFEC063
75	REFEC075
90	REFEC090
110	REFEC110
125	REFEC125
140	REFEC140
160	REFEC160
180	REFEC180
200	REFEC200
225	REFEC225
250	REFEC250
280	REFEC280
315	REFEC315



Material PE100, SDR : 11/17

Standard EN 12201, 1555-3

***Note:** All Dimensions are in mm (±5%)

Electrofusion Tapping Tee

Features

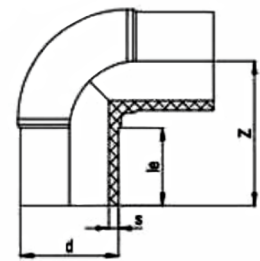
- **RAINSON** Branded, PE100 Black, SDR 9 through SDR 21 or PN6 through PN16 rated.
- Water PN16/Gas 10 Bar (Depending on PE Pipe welded to & any local pipeline pressure regulations).
- All Electrofusion fittings are individually stick the welding barcodes for faster process.
- Welding barcode in accordance to ISO 13950.
- Fusamatic pin provides a totally automatic method to ensure the correct welding parameters are used.
- Permanently marked batch number and rising pin fusion indicators.
- Tamper-proof Lock Cap ensures correct installation - it cannot be over-tightened and won't vibrate loose.
- Two O-Ring seals protect against leakage.
- Optional cutter tube locks into the integral cutter allowing for leak free cut though of the mains pipe.
- Double Length Spigot Outlet - sufficient spigot length to cut off the coupler & fuse a second fitting.
- Saddle & fusion mat have been designed to minimize joint cycle times.
- A material of construction of Tapping Tee is food grade HDPE material which is NSF tested and WRAS approved

Product Size			
63x1/2"	110x3/4"	160x1"	250x1/2"
63x3/4"	110x1"	180x1/2"	250x3/4"
63x1"	125x1/2"	180x3/4"	250x1"
75x1/2"	125x3/4"	180x1"	280x1/2"
75x3/4"	125x1"	200x1/2"	280x3/4"
75x1"	140x1/2"	200x3/4"	280x1"
90x1/2"	140x3/4"	140x1"	315x1/2"
90x3/4"	140x1"	225x1/2"	315x3/4"
90x1"	160x1/2"	225x3/4"	315x1"
110x1/2"	160x3/4"	225x1"	



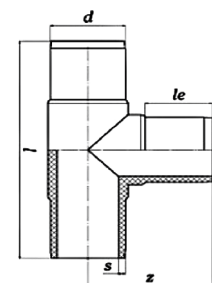
Spigot Elbow

Ød (mm)	Product Code	D (mm)	le (mm)	Z (mm)
63	RBSE063	63	63	111
75	RBSE075	75	70	126
90	RBSE090	90	79	145
110	RBSE110	110	82	161
125	RBSE125	125	87	167
140	RBSE140	140	92	195
160	RBSE160	160	98	200
180	RBSE180	180	107	230
200	RBSE200	200	112	245
225	RBSE225			
250	RBSE250			
280	RBSE280			
315	RBSE315			
355	RBSE355			
400	RBSE400			



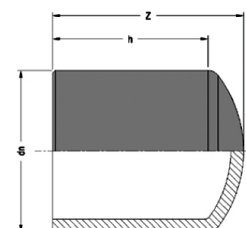
Spigot Tee

Ød (mm)	Product Code	L (mm)	le (mm)	Z (mm)
63	RBST063063	216	63	107
75	RBST075075	260	70	130
90	RBST090090	287	79	142
110	RBST110110	318	82	162
125	RBST125125	356	87	178
140	RBST140140	380	92	189
160	RBST160160	417	98	208
180	RBST180180	458	105	225
200	RBST200200	481	112	236
225	RBST225225			
250	RBST250250			
280	RBSEC280280			
315	RBSEC315315			
355	RBSEC355355			
400	RBSEC400400			



Spigot End Cap

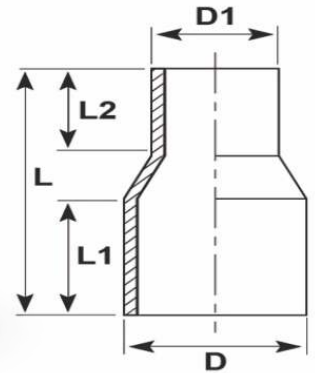
Size (mm)	Product Code	dn (mm)	Z (mm)	h (mm)
63	RBSEC063	63	63	47
75	RBSEC075	75	70	52
90	RBSEC090	90	75	55
110	RBSEC110	110	80	58
125	RBSEC125	125	108	88
140	RBSEC140	140	115	92
160	RBSEC160	160	125	98
180	RBSEC180	180	125	107
200	RBSEC200	200	128	112



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Spigot Reducer

Size		D	D1	L	L1	L2
(Inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
2½"x2"	75x63	75	63	175	70	63
3" x 2"	90x63	90	63	196	79	63
3"x2½"	90x75	90	75	196	79	70
4"x2"	110x63	110	63	213	82	63
4"x2½"	110x75	110	75	213	82	70
4"x3"	110x90	110	90	213	82	79
5"x2"	125x63	125	63	223	87	63
5"x2½"	125x75	125	75	223	87	70
5"x3"	125x90	125	90	223	87	79
5"x4"	125x110	125	110	223	87	82
5½"x2"	140x63	140	63	225	92	63
5½"x2½"	140x75	140	75	225	92	70
5½"x3"	140x90	140	90	225	92	79
5½"x4"	140x110	140	110	225	92	82
5½"x5"	140x125	140	125	225	92	87
6"x2"	160x63	160	63	245	98	63
6"x2½"	160x75	160	75	245	98	70
6"x3"	160x90	160	90	245	98	79
6"x4"	160x110	160	110	245	98	82
6"x5"	160x125	160	125	245	98	87
6"x5¼"	160x140	160	140	245	98	92
7"x2"	180x63	180	63	250	105	63
7"x2½"	180x75	180	75	250	105	70
7"x3"	180x90	180	90	250	105	79
7"x4"	180x110	180	110	250	105	82
7"x5"	180x125	180	125	250	105	87
7"x5¼"	180x140	180	140	250	105	92
7"x6"	180x160	180	160	250	105	98
8"x2"	200x63	200	63	273	112	63
8"x2½"	200x75	200	75	273	112	70
8"x3"	200x90	200	90	273	112	79
8"x4"	200x110	200	110	273	112	82
8"x5"	200x125	200	125	273	112	87
8"x5¼"	200x140	200	140	273	112	92
8"x6"	200x160	200	160	273	112	98
8"x7"	200x180	200	180	273	112	105



Spigot Tail Piece

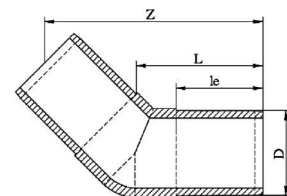
Ød (mm)	Product Code
63	RBSTP063063
75	RBSTP075075
90	RBSTP090090
110	RBSTP110110
125	RBSTP125125
140	RBSTP140140
160	RBSTP160160
180	RBSTP180080
200	RBSTP200200
225	RBSTP225225
250	RBSTP250250
280	RBSTP280280
315	RBSTP315315



*Note: We will provide dimensions on your request.

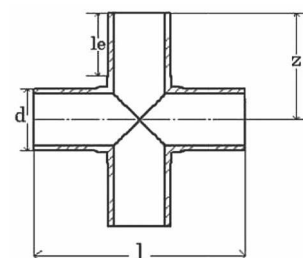
Spigot Bends 45°

D (mm)	Product Code	le (mm)	L (mm)	Z (mm)
63	RBST063063	63	93	160
75	RBST075075	70	102	176
90	RBST090090	79	118	202
110	RBST110110	82	128	220
125	RBST125125	87	139	239
140	RBST140140	92	145	250
160	RBST160160	98	159	273
180	RBST180180	105	168	290
200	RBST200200	112	179	311



Spigot Cross Tee

d (mm)	Product Code	l (mm)	le (mm)	Z (mm)
63	RBSEC063	216	63	107
75	RBSEC075	260	70	130
90	RBSEC090	287	79	142
110	RBSEC110	318	82	162
125	RBSEC125	356	87	178
140	RBSEC140	380	92	189
160	RBSEC160	417	98	208
180	RBSEC180	458	105	225
200	RBSEC200	481	112	23



HDPE Elbow



Product Details

Material	HDPE
Size Range	DN 32mm to DN 315mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Tee



Product Details

Material	HDPE
Size Range	DN 32mm to DN 315mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Reducing Tee



Product Details

Material	HDPE
Size Range	DN 32mm to DN 315mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Long Neck (Stub End)



Product Details

Material	HDPE
Size Range	DN 32mm to DN 630mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Blind Flange



Product Details

Material	HDPE
Size Range	DN 32mm to DN 315mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Slip On Flange



Product Details

Material	HDPE
Size Range	DN 32mm to DN 400mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Tail Piece With Flange



Product Details

Material	HDPE
Size Range	DN 63mm to DN 200mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Reducer



Product Details

Material	HDPE
Size Range	DN 32mm to DN 450mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE Long Neck With Flange



Product Details

Material	HDPE
Size Range	DN 63mm to DN 400mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

HDPE End Cap



Product Details

Material	HDPE
Size Range	DN 32mm to DN 315mm
Weld Type	Butt Fusion Weld
Pressure	6 Kg/cm ² to 10 Kg/cm ²

Coupler

Code	Size
CFC020020	20 mm
CFC025025	25 mm
CFC032032	32 mm
CFC040040	40 mm
CFC050050	50 mm
CFC063063	63 mm
CFC075075	75 mm
CFC090090	90 mm
CFC110110	110 mm



90° Plain Elbow

Code	Size
RCFE020020	20 mm
RCFE025025	25 mm
RCFE032032	32 mm
RCFE040040	40 mm
RCFE050050	50 mm
RCFE063063	63 mm
RCFE075075	75 mm
RCFE090090	90 mm
RCFE110110	110 mm



Equal Tee

Code	Size
RCFT020020	20 mm
RCFT025025	25 mm
RCFT032032	32 mm
RCFT040040	40 mm
RCFT050050	50 mm
RCFT063063	63 mm
RCFT075075	75 mm
RCFT090090	90 mm
RCFT110110	110 mm



Male Thread Adapter Elbow

Code	Size
RCFME020020	20 mm
RCFME025025	25 mm
RCFME032032	32 mm
RCFME040040	40 mm
RCFME050050	50 mm
RCFME063063	63 mm
RCFME075075	75 mm
RCFME090090	90 mm
RCFME110110	110 mm



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Female Thread Adapter Elbow

Code	Size
RCFFE020012	20 mm



Male Thread Adapter (MTA)

Code	Size
RCFMTA020020	20 mm
RCFMTA025025	25 mm
RCFMTA032032	32 mm
RCFMTA040040	40 mm
RCFMTA050050	50 mm
RCFMTA063063	63 mm
RCFMTA075075	75 mm
RCFMTA090090	90 mm
RCFMTA110110	110 mm



Female Thread Adapter (FTA)

Code	Size
RCFFTA020020	20 mm



End Cap

Code	Size
RCFEC020020	20 mm
RCFEC025025	25 mm
RCFEC032032	32 mm
RCFEC040040	40 mm
RCFEC050050	50 mm
RCFEC063063	63 mm
RCFEC075075	75 mm
RCFEC090090	90 mm
RCFEC110110	110 mm



Male Thread Adapter Tee

Code	Size
RCFMT020020	20 mm
RCFMT025025	25 mm
RCFMT032032	32 mm
RCFMT040040	40 mm
RCFMT050050	50 mm
RCFMT063063	63 mm
RCFMT075075	75 mm
RCFMT090090	90 mm
RCFMT110110	110 mm

