Inch Sizes

PE-RT II PIPING SYSTEM FITTINGS

For hot water and chemical conveyance

SP1 FITTINGS

www.sp1fittings.com

Material PE-RTII

PE-RT II (Polyethylene of Raised Temperature Resistance II) is a high-performance, high-density polyethylene piping solution engineered specifically for modern water supply systems.

Designed to deliver superior durability and long-term reliability and engineered to withstand temperatures up to **180°F (82°C)**, PE-RT II exceeds the capabilities of standard PE-RT piping across a wide range of demanding applications, including plumbing systems, hydronic heating, snow and ice melting, and geothermal applications.

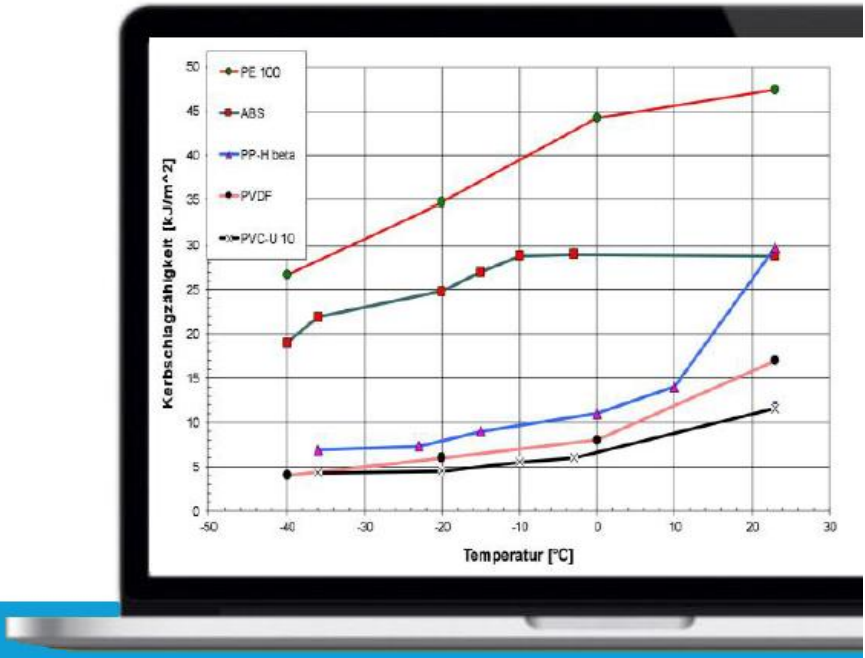
Characteristics of PE-RT II

Properties	Method	Units	Typical Value (*)
Density	ISO 1183	kg/m³	950
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.3
Oxidation Induction Time (210 °C)	ISO 11357-6	min	≥ 40
Thermal Conductivity at 60°C	DIN 52612	W/m°K	0.42
Coefficient of Linear Thermal Expansion	-	m/m°K	1.2 E-4
Tensile Modulus	ISO 527	MPa	850
Tensile Stress at Yield	ISO 527	MPa	23
Tensile Elongation at break	ISO 527	%	≥350
Flexural modulus at 1 %	ISO 178	MPa	750
FNCT (Arkopal, 80 °C, 4.0 MPa)	ISO 16770	h	≥ 2000
Charpy Impact Strength (0°C)	ISO 868	kJ/m²	20

Resistance to Slow Crack Growth : Notch Pipe Test at 80 °C, 9.2 bar	**BECETEL Report 10091**	ISO 13479	h	**> 2000**
Resistance to Rapid Crack Propagation : **Pc in S4 test** at 0 °C on 110 x 10 mm pipe	**BECETEL Report 10091**	ISO 13477	bar	**> 10**
Welding compatibility Tensile strength on butt welded specimens	**BECETEL Report 10091**	ISO 13953	-	**Ductile**
Welding compatibility Hydrostatic strength on butt welded specimens	**BECETEL Report 10091**	ISO 1167	h	**> 1000**

Characteristics of PE-RT II

Resistance Toward Environmental Stress



Corrosion Resistance

PERT II piping system can be adopted for followed chemicals:

a:50-75% sulfuric acid,

b:30% hydrochloric acid,

c:40% sodium hydroxide solution,

d:10% sodium potassium hydroxide,

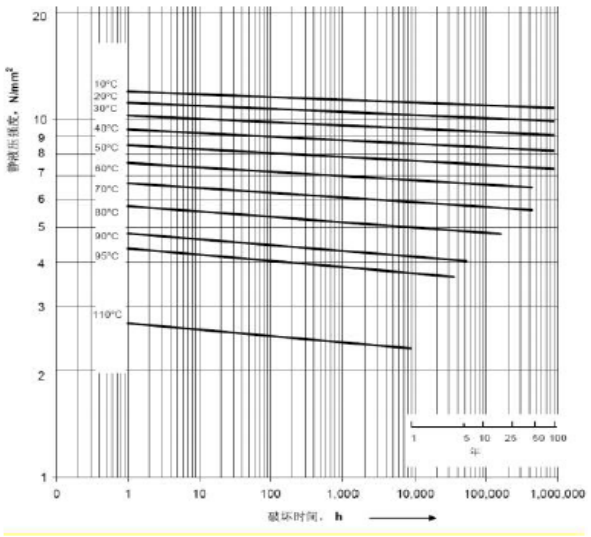
e:calcium sulfate saturated suspension,

f:copper chloride saturated suspension,

Under 60 ° C ,corrosion resistance is "s" grade

Characteristics of PE-RT II

Long-term Hydrostatic Strength at High Temperature



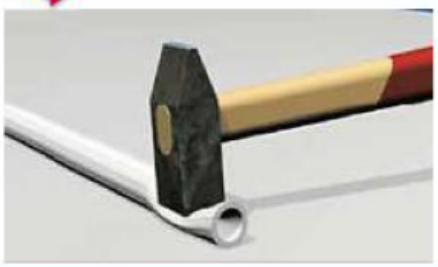
Impact Resistance at Low Temperature

PP-RCT/PPH

- High modulus and rigidity
- PP-RCT improved the pressure class at high temperatures when compare with PPH
- PP-RCT behaves same towards impact at low temperature
- Brittleness temperature of -15C

PE-RT II

- Brittleness temperature of -70C



HDPE based PE-RT II is far better than both PPH or PP-RCT, in the term of low temperature impact resistance. -70 C vs -15 C, more safer at low temperature even as 0-10C, which is quite normal temperature in winter.

Characteristics

Impressure Class Compare with PP-H and PP-RCT

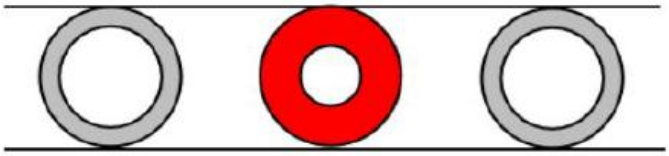
	PE-RT II	PP-H	PP-RCT
Temperature	60	60	60
S	5	5	5
Pressure (MPa)	0.6	0.45	0.6
C (design factor)	2	2	2

	PE-RT II	PP-H	PP-RCT
Temperature	60	60	60
S	5	5	5
Pressure (MPa)	0.4	0.4	0.4
C (design factor)	3.2	2.4	3.0

Design factor C of PE-RT II is higher under the same application in comparison to PP-H, which shows that PE-RT II is similar to PP-RCT in the terms of pressure class at high temperatures, and is superior than PP-H.

For example: if for piping system design for70 ° C + 6 Bar + 25Years; C=2

	PE-RT II	PP-H	PP-RCT
S	4	3.2	4
Dimension	dn 90×10.1	dn 90×12.3	dn 90×10.1
Pressure lost	1.0	1.29	1.0

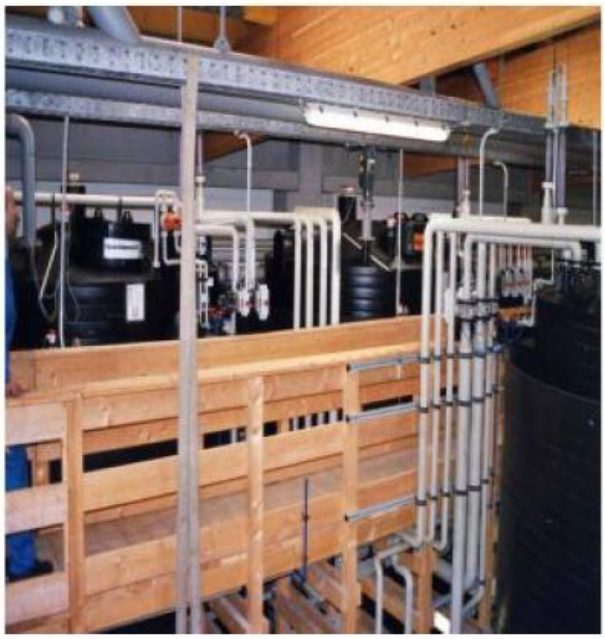


- Available up to 63” in Flanges and 36” in Electrofusion Couplers.
- Fittings available up to 24” for oil & gas.

Applications

Chemical Plant

Neutralisation



Storage tank

Mixing tank

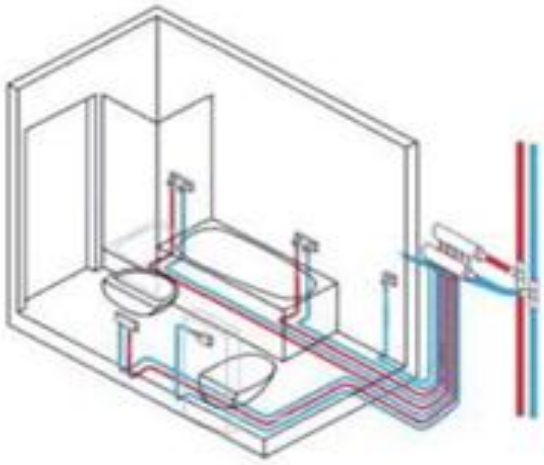
Power Plant

Sewage treatment

Applications

Hot and cold Water Conveyance

Radiant In-Floor Heating



Water Supply

(In Building Plumbing)

Baseboard

Radiant Heating

District Energy/Heating Systems

SP1 FITTINGS

FITTINGS IN INCH SIZING

Specifications:

AWWA C906-15 ASTM D2513&D-3261

PE-RT II Fittings

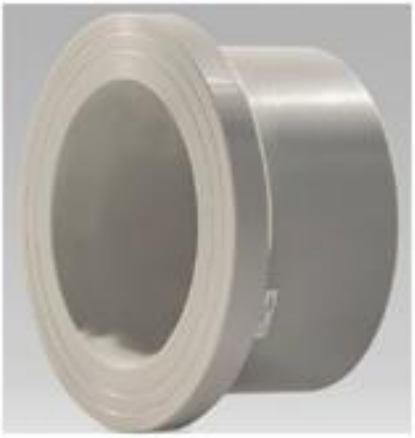
Butt Fusion Fittings

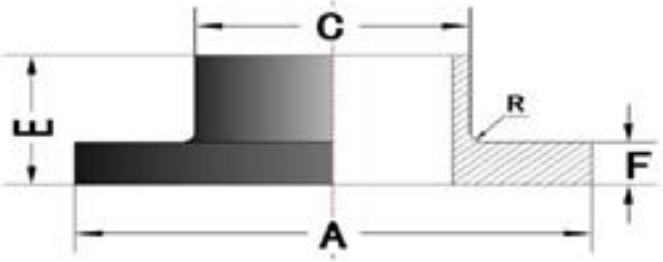
Flanges & Backing Rings

Electrofusion Fittings

Ball Valves

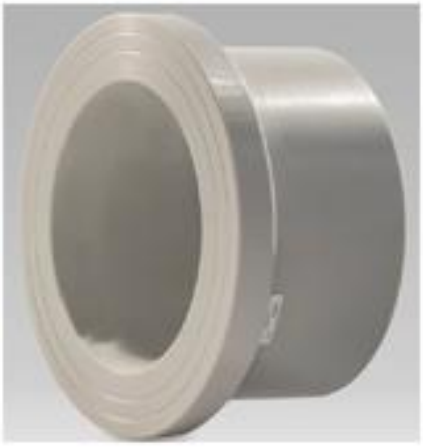
Flange Adapters, SDR11 (IPS)

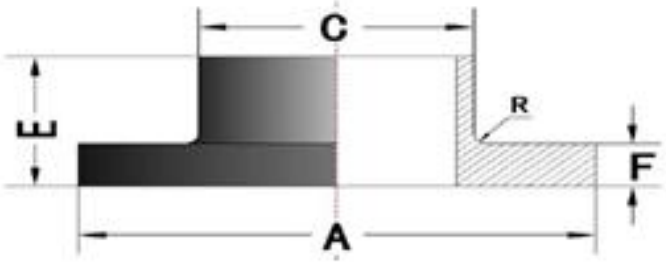




Code	Size	SDR	A(mm)	C(mm)	E(mm)	F(mm)	Unit Weight (KG)	QTY/Box
IBFFL2A	2"IPS	11	100.00	60.33	152.40	13.97	0.2	70
IBFFL3A	3"IPS	11	127.00	88.90	145.00	17.02	0.4	36
IBFFL4A	4"IPS	11	152.40	114.30	173.00	20.07	0.65	16
IBFFL6A	6"IPS	11	215.90	168.28	203.20	20.32	1.64	6
IBFFL8A	8"IPS	11	270.00	219.08	229.20	25.91	3.58	3
IBFFL10A	10"IPS	11	323.85	273.05	254.26	32.51	5.06	2
IBFFL12A	12"IPS	11	380.00	323.85	273.05	39.12	8.5	
IBFFL14A	14"IPS	11	444.50	355.60	304.80	41.15	11.2	
IBFFL16A	16"IPS	11	508.00	406.40	304.80	46.99	15	
IBFFL18A	18"IPS	11	536.45	457.20	304.80	52.83	19.5	
IBFFL20A	20"IPS	11	596.90	508.00	304.80	58.67	24.5	
IBFFL24A	24"IPS	11	711.20	609.60	355.60	70.36	41	
IBFFL28A	28"IPS	11	820.42	711.20	355.60	82.04	55.6	
IBFFL30A	30"IPS	11	871.22	762.00	355.60	87.88	64.5	
IBFFL32A	32"IPS	11	871.22	812.80	355.60	93.73	72.7	
IBFFL36A	36"IPS	11	1036.32	914.40	355.60	105.66	97	

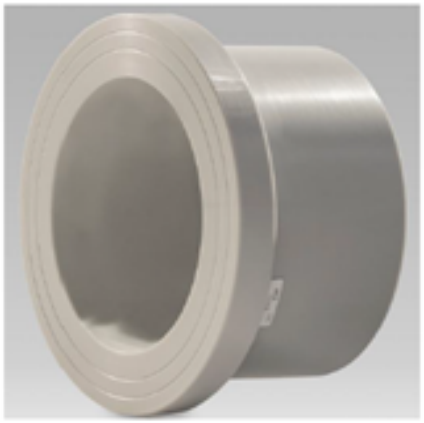
Flange Adapters, SDR17 (IPS)

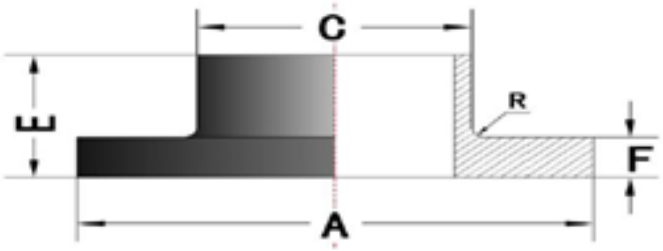




Code	Size	SDR	A(mm)	C(mm)	E(mm)	F(mm)	Unit Weight (KG)	QTY/Box
IBFFL2B	2"IPS	17	100.00	60.33	152.40	13.97	0.17	70
IBFFL3B	3"IPS	17	127.00	88.90	145.00	17.02	0.33	36
IBFFL4B	4"IPS	17	152.40	114.30	173.00	20.07	0.585	16
IBFFL6B	6"IPS	17	215.90	168.28	203.20	20.32	1.4	6
IBFFL8B	8"IPS	17	270.00	219.08	229.20	25.91	2.77	3
IBFFL10B	10"IPS	17	323.85	273.05	254.26	32.51	4.63	2
IBFFL12B	12"IPS	17	380.00	323.85	273.05	39.12	6.54	
IBFFL14B	14"IPS	17	444.50	355.60	304.80	41.15	8.25	
IBFFL16B	16"IPS	17	508.00	406.40	304.80	46.99	11.8	
IBFFL18B	18"IPS	17	536.45	457.20	304.80	52.83	13.9	
IBFFL20B	20"IPS	17	596.90	508.00	304.80	58.67	17.7	
IBFFL24B	24"IPS	17	711.20	609.60	355.60	70.36	30	
IBFFL28B	28"IPS	17	820.42	711.20	355.60	82.04	40.6	
IBFFL30B	30"IPS	17	871.22	762.00	355.60	87.88	46.6	
IBFFL32B	32"IPS	17	871.22	812.80	355.60	93.73	53.6	
IBFFL36B	36"IPS	17	1036.32	914.40	355.60	105.66	69	

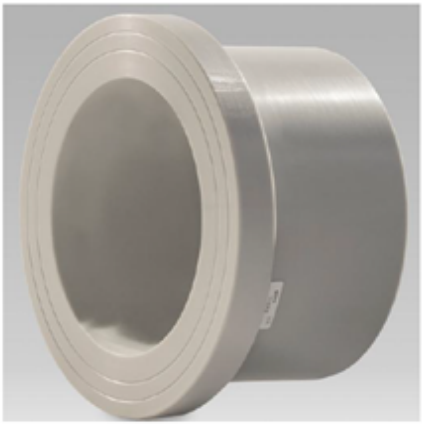
Flange Adapters, SDR9 (IPS)

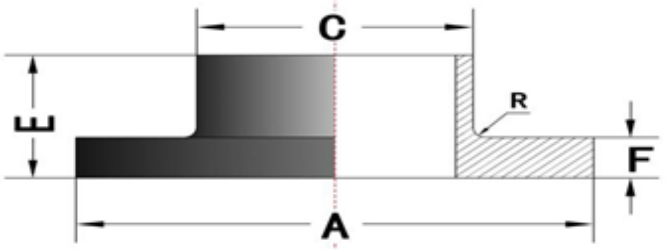




Code	Size	SDR	A(mm)	C(mm)	E(mm)	F(mm)	Unit Weight (KG)	QTY/Box
IBFFL2E	2"IPS	9	100.00	60.33	152.40	13.97	0.24	70
IBFFL3E	3"IPS	9	127.00	88.90	145.00	17.02	0.47	36
IBFFL4E	4"IPS	9	152.40	114.30	173.00	20.07	0.86	16
IBFFL6E	6"IPS	9	215.90	168.28	203.20	20.32	2.08	6
IBFFL8E	8"IPS	9	270.00	219.08	229.20	25.91	3.92	3

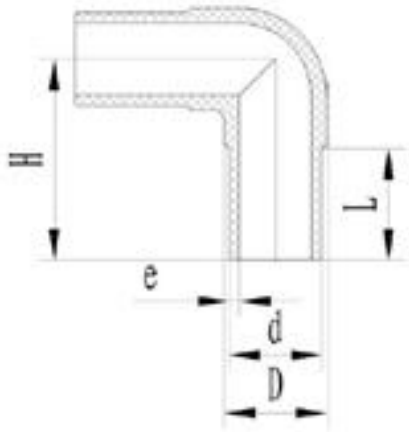
Large Flange Adapters, SDR11/17 (IPS)





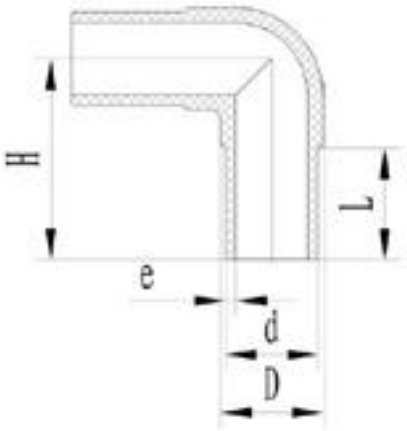
Code	Size	SDR	A(mm)	C(mm)	E(mm)	F(mm)	Unit Weight (KG)
IBFFS42A	42" IPS	11	1196.98	1066.80	228.60	121.21	95.55
IBFFS48B	48" IPS	17	1371.60	1219.20	165.10	89.66	70.45
IBFFS54B	54" IPS	17	1524.00	1371.60	177.80	100.84	93.08
IBFFS63B	63" IPS	17	1727.20	1600.20	304.80	117.60	174.00
IBFFS42A	42" IPS	11	1196.98	1066.80	228.60	121.21	95.55

Molded 90° Elbows, SDR11/9 (IPS)



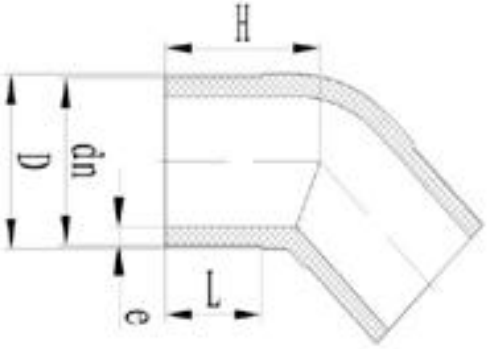
Code	Size	SDR	H(mm)	L(mm)	Unit Weight (KG)	QTY/Box
IBFL91A	1" IPS	11	103	67	0.1	60
IBFL92A	2" IPS	11	130	72	0.29	50
IBFL93A	3" IPS	11	152	80	0.68	16
BFL94A	4" IPS	11	173	84	1.23	10
BFL96A	6" IPS	11	226	108	3.22	3
BFL98A	8" IPS	11	291	152.4	7.17	1
IBFL91E	1" IPS	9	103	67	0.13	60
IBFL92E	2" IPS	9	130	72	0.46	50
IBFL93E	3" IPS	9	152	80	1.14	16
IBFL94E	4" IPS	9	173	84	2.05	10
IBFL96E	6" IPS	9	226	108	3.99	3
IBFL98E	8" IPS	9	291	152.4	8.60	1

Molded 90° Elbows, SDR11/9 (DIPS/IPS)



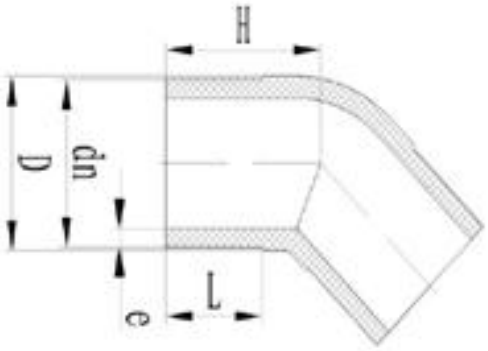
Code	Size	SDR	H(mm)	L(mm)	Unit Weight (KG)	QTY/Box
DBFL910A	DIPS10"	11	310	140	9.03	
DBFL912A	DIPS12"	11	345	150	16.065	
IBFL910A	IPS10"	11	310	140	9.765	
IBFL912A	IPS12"	11	340	150	14.805	
IBFL914A	IPS14"	11	350	164	19	
IBFL916A	IPS16"	11	370	130	25.935	
IBFL918A	IPS18"	11	408	130	36.435	
IBFL920A	IPS20"	11	445	130	47.5	

Molded 45° Elbows, SDR11/9 (IPS)



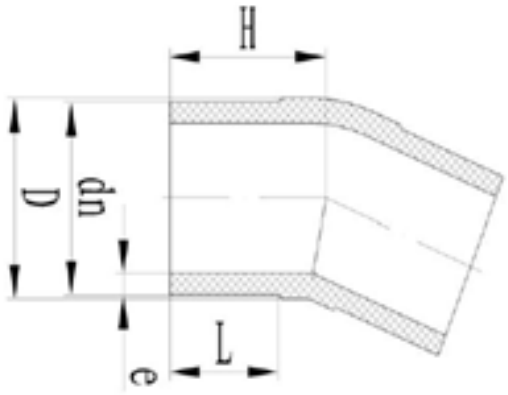
Code	Size	SDR	H(mm)	L(mm)	Unit Weight(KG)	QTY/Box
IBFL41A	1" IPS	11	90	67	0.08	70
IBFL42A	2" IPS	11	113	72	0.30	60
IBFL43A	3" IPS	11	125	80	0.75	22
IBFL44A	4" IPS	11	137	84	1.40	13
IBFL46A	6" IPS	11	174	108	2.90	3
IBFL48A	8" IPS	11	225	152.4	6.82	1
IBFL41E	1" IPS	9	90	67	0.10	70
IBFL42E	2" IPS	9	113	72	0.39	60
IBFL43E	3" IPS	9	125	80	0.98	22
IBFL44E	4" IPS	9	137	84	1.96	13
IBFL46E	6" IPS	9	174	108	4.06	3
IBFL48E	8" IPS	9	225	152.4	10.64	1

Molded 45° Elbows, SDR11/9 (DIPS/IPS)



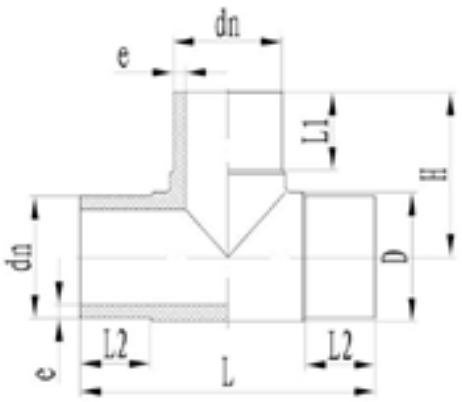
Code	Size	SDR	H(mm)	L(mm)	Unit Weight (KG)	QTY/Box
DBFL410A	DIPS10"	11			7.5	
DBFL412A	DIPS12"	11	250	150	12.18	
IBFL410A	IPS10"	11	230	140	7.35	
IBFL412A	IPS12"	11	248	150	11.34	
IBFL414A	IPS14"	11	358	165	14	
IBFL416A	IPS16"	11	260	130	19.32	
IBFL418A	IPS18"	11	270	130	25.41	
IBFL420A	IPS20"	11	295	130	33.81	

Molded 22.5° Elbows, SDR11/9 (IPS)



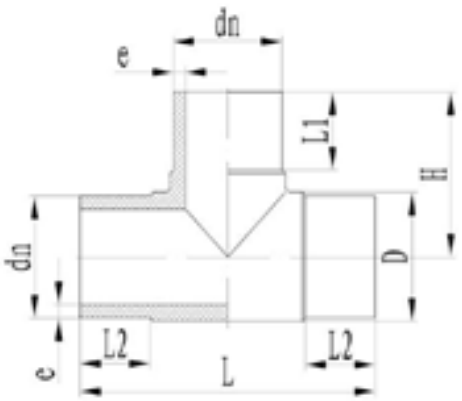
Code	Size	SDR	H(mm)	L(mm)	Unit Weight(KG)	QTY/Box
IBFL21A	1“ IPS	11	86	67	0.40	
IBFL22A	2“ IPS	11	108	72	0.70	
IBFL23A	3” IPS	11	115	80	0.75	
IBFL24A	4" IPS	11	125	84	3.04	3
IBFL26A	6" IPS	11	155	108	6.16	2
IBFL28A	8" IPS	11	200	152.4	6.20	
IBFL21E	1“ IPS	9	86	67	0.52	
IBFL22E	2“ IPS	9	108	72	0.91	
IBFL22E	3” IPS	9	115	80	0.98	
IBFL23E	4" IPS	9	125	84	1.96	
IBFL24E	6" IPS	9	155	108	4.34	
IBFL26E	8" IPS	9	200	152.4	8.68	

Molded Tee's, SDR11/9 (IPS)



Code	Size(mm)	SDR	L1(mm)	L2(mm)	L(mm)	Unit Weight(KG)	QTY/Box
IBFT1A	1"-1"-1" IPS	11	67	67	196	0.12	
IBFT2A	2"-2"-2" IPS	11	72	72	260	0.42	30
IBFT3A	3"-3"-3" IPS	11	80	80	310	1.00	12
IBFT4A	4"-4"-4" IPS	11	84	84	348	1.78	6
IBFT6A	6"-6"-6" IPS	11	108	108	456	4.83	3
IBFT8A	8"-8"-8" IPS	11	152.4	152.4	581	10.50	
IBFT1E	1"-1"-1" IPS	9	67	67	196	0.16	
IBFT2E	2"-2"-2" IPS	9	72	72	260	0.65	
IBFT3E	3"-3"-3" IPS	9	80	80	310	1.52	
IBFT4E	4"-4"-4" IPS	9	84	84	348	2.05	6
IBFT6E	6"-6"-6" IPS	9	108	108	456	8.12	
IBFT8E	8"-8"-8" IPS	9	152.4	152.4	581	16.28	

Molded Reducing Tee's, SDR11/9 (IPS)

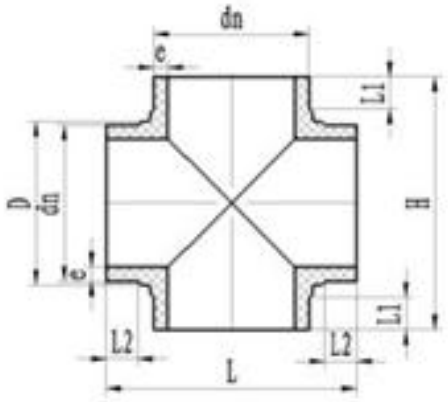


Code	Size(mm)	SDR	L1(mm)	L2(mm)	L(mm)	Unit Weight(KG)	QTY/Box
IBFT32A	3"-2"IPS	11	72	80	310	144	0.80
IBFT42A	4"-2"IPS	11	72	84	348	157	1.44
IBFT64A	6"-4"IPS	11	84	108	456	203	4.10
IBFT84A	8"-4"IPS	11	84	152.4	581	227	9.60
IBFT32E	3"-2"IPS	9	72	80	310	144	1.30
IBFT42E	4"-2"IPS	9	72	84	348	157	2.44
IBFT64E	6"-4"IPS	9	84	108	456	203	7.00
IBFT84E	8"-4"IPS	9	84	152.4	581	227	13.44

Molded Reducing Tee's, SDR11/9 (DIPS/IPS)

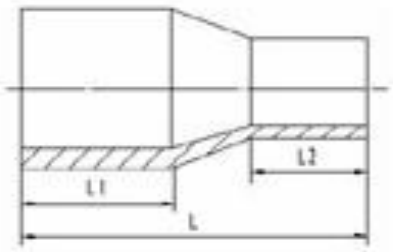
Code	Size(mm)	SDR	L1(mm)	L2(mm)	L(mm)	Unit Weight(KG)	QTY/Box
DBFT10A	DIPS10"	11	490	260	110	110	11.45
DBFT12A	DIPS12"	11	750	360	150	150	23.1
IBFT10A	IPS10"	11	660	320	140	140	13.86
IBFT12A	IPS12"	11	730	350	150	150	21.21
IBFT14A	IPS14"	11	645	370	110	165	22.05
IBFT16A	IPS16"	11	780	375	130	130	35.175
IBFT18A	IPS18"	11	830	410	130	130	47.46
IBFT20A	IPS20"	11	855	425	130	130	61.11
IBFT166A	IPS16"*6"	11	*	*	*	*	*
IBFT1612A	IPS16"*12"	11	*	*	*	*	*
IBFT186A	IPS18"*6"	11	*	*	*	*	*
IBFT1814A	IPS18"*14'	11	*	*	*	*	*
IBFT2014A	IPS20"*14"	11	513	355	130	110	46.6

Fabricated Cross , SDR11 (IPS)



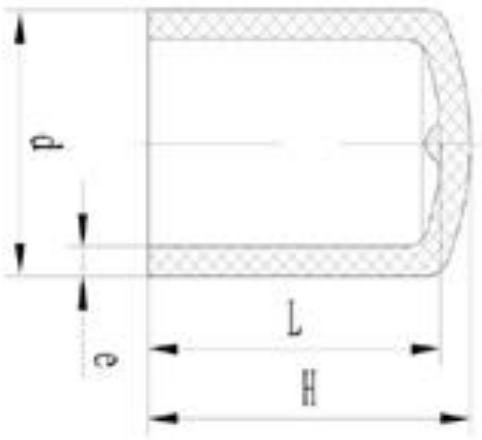
Code	Size(mm)	SDR	L(mm)	H(mm)	L2(mm)	Unit Weight(KG)	QTY/Box
IBFC20A	IPS20"	11	855	855	130	68.3	
IBFC2014A	IPS20"*14"	11	722	855	130	48.3	

Molded Concentric Reducers, SDR11/9 (IPS)



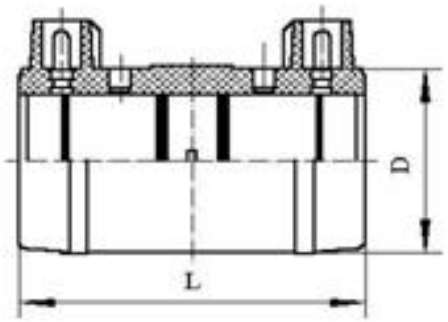
Code	Size(mm)	SDR	L(mm)	L1(mm)	L2(mm)	Unit Weight(KG)	QTY/Box
IBFR21A	2"-1"IPS	11	160	67	72	0.13	55
IBFR32A	3"-2"IPS	11	175	72	80	0.33	40
IBFR42A	4"-2"IPS	11	185	84	72	0.46	30
IBFR43A	4"-3" IPS	11	185	80	84	0.54	25
IBFR62A	6"-2" IPS	11	235	72	108	1.28	10
IBFR63A	6"-3" IPS	11	235	80	108	1.41	10
IBFR64A	6"-4" IPS	11	235	84	108	1.52	10
IBFR84A	8"-4" IPS	11	300	84	153	3.28	4
IBFR86A	8"-6" IPS	11	300	108	153	3.51	4
IBFR21A	2"-1"IPS	9	160	67	72	0.17	55
IBFR32E	3"-2"IPS	9	175	72	80	0.43	40
IBFR42E	4"-2"IPS	9	185	84	72	0.67	30
IBFR43E	4"-3" IPS	9	185	80	84	0.79	25
IBFR62E	6"-2" IPS	9	235	72	108	1.88	10
IBFR63E	6"-3" IPS	9	235	80	108	2.03	10
IBFR64E	6"-4" IPS	9	235	84	108	1.79	10
IBFR84E	8"-4" IPS	9	300	84	153	4.68	4
IBFR86E	8"-6" IPS	9	300	108	153	5.26	4

Molded Cap , SDR11/9 (IPS)



Code	Size(mm)	SDR	H(mm)	L(mm)	Unit Weight (KG)	QTY/Box
IBFD1A	1" IPS	11	75	71.5	0.03	
IBFD2A	2" IPS	11	82	76	0.10	
IBFD3A	3" IPS	11	100	91	0.27	
IBFD4A	4" IPS	11	110	98.5	0.49	
IBFD6A	6" IPS	11	148	131	1.44	
IBFD8A	8" IPS	11	195	173	3.19	
IBFD1E	1" IPS	9	75	71.5	0.03	
IBFD2E	2" IPS	9	82	76	0.13	
IBFD3E	3" IPS	9	100	91	0.35	
IBFD4E	4" IPS	9	110	98.5	0.69	
IBFD6E	6" IPS	9	148	131	2.01	
IBFD8E	8" IPS	9	195	173	4.47	

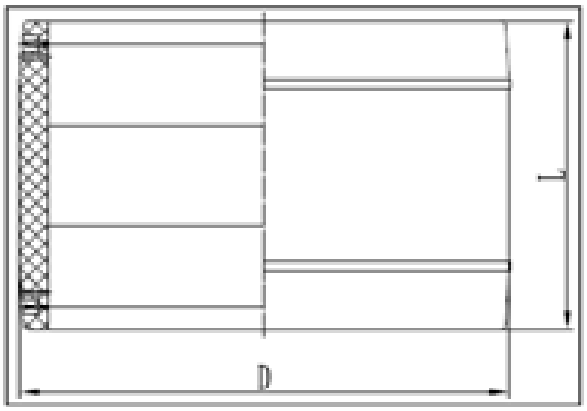
Electrofusion Couplers , SDR11 (IPS)



Code	Size	SDR	D(mm)	L(mm)	Unit Weight (KG)	QTY/Box	Remark
IEFCL12A	1/2"	11	34.00	72.00	0.03		Type A
IEFCL34A	3/4"	11	40.00	72.00	0.05		Type A
IEFCL1A	1"	11	46.00	80.00	0.20		Type A
IEFCL114A	1 1/4"	11	55.16	86.00	0.23		Type A
IEFCL112A	1 1/2"	11	64.00	98.00	0.23		Type A
IEFCL2A	2"	11	78.00	107.00	0.30		Type A
IEFCL3A	3"	11	112.00	147.00	0.64		Type A
IEFCL4A	4"	11	140.00	160.00	1.10		Type A
IEFCL4A	5"	11	174.00	171.00	2.61		Type A
IEFCL6A	6"	11	206.00	185.00	2.61		Type A
IEFCL8A	8"	11	270.00	204.00	4.26		Type A

Max Operation Pressure
Gas:150 PSI, Water:240 PSI
Fusible with PE Pipes of PE80, PE2406,PE100, PE3408,PE4710
May be Fused to SDR 9-17 Pipe
ASTM F714, F1055,D2513,D3035,D3350,AWWA C906

Electrofusion Couplers , SDR11 (IPS)

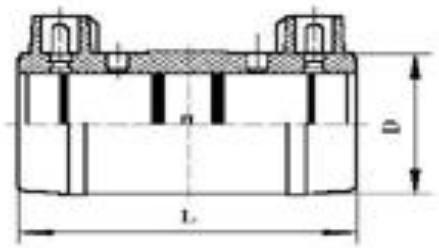


Code	Size	SDR	D(mm)	L(mm)	Unit Weight (KG)	QTY/Box	Remark
IEFCL10A	10"	11	337.30	220.00	7.71		Type B
IEFCL12A	12"	11	400.05	240.00	9.07		Type B
IEFCL14A	14"	11	439.27	254.00	13.61		Type B
IEFCL16A	16"	11	502.02	295.00	18.06		Type B
IEFCL18A	18"	11	564.78	320.00	23.61		Type C
IEFCL20A	20"	11	627.53	360.00	37.33		Type C
IEFCL22A	22"	11	690.28	385.00	49.39		Type C
IEFCL24A	24"	11	753.04	390.00	59.81		Type C
IEFCL26A	26"	11	815.79	420.00	80.00		Type C
IEFCL28A	28"	11	878.54	440.00	93.00		Type C
IEFCL30A	30"	11	941.29	450.00	107.00		Type C
IEFCL34A	34"	11	1066.80	500.00	154.00		Type C
IEFCL36A	36"	11	1129.55	500.00	173.00		Type C

Max Operation Pressure
Gas:150 PSI, Water:240 PSI
Fusible with PE Pipes of PE80, PE2406,PE100, PE3408,PE4710
May be Fused to SDR 9-17 Pipe
ASTM F714, F1055,D2513,D3035,D3350,AWWA C906

1:Type B IPS10"-16" One fusion zone, Two-steps Fusion Process
2:Type C IPS18"-36" Two fusion zones, Two-steps Fusion Process for each zone

Electrofusion Couplers , SDR17 (IPS)

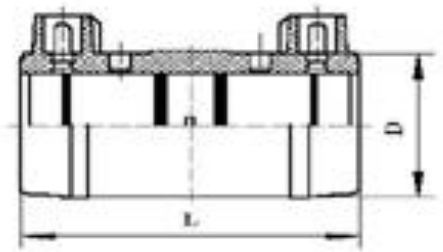


Code	Size	SDR	D(mm)	L(mm)	Unit Weight (KG)	QTY/Box	Remark
IEFCL10B	10"IPS	17	315.06	220.00	4.62		Type B
IEFCL12B	12"IPS	17	373.67	240.00	8.86		Type B
IEFCL14B	14"IPS	17	410.31	254.00	9.56		Type B
IEFCL16B	16"IPS	17	468.92	295.00	12.60		Type B
IEFCL18B	18"IPS	17	527.54	320.00	17.33		Type C
IEFCL20B	20"IPS	17	586.15	360.00	24.85		Type C
IEFCL22B	22"IPS	17	644.77	385.00	37.18		Type C
IEFCL24B	24"IPS	17	703.38	390.00	42.09		Type C
IEFCL26B	26"IPS	17	762.00	420.00	54.53		Type C
IEFCL28B	28"IPS	17	820.62	440.00	67.00		Type C
IEFCL30B	30"IPS	17	879.23	450.00	71.00		Type C
IEFCL32B	32"IPS	17	937.85	470.00	85.66		Type C
IEFCL34B	34"IPS	17	996.46	500.00	97.00		Type C
IEFCL36B	36"IPS	17	1055.08	500.00	108.32		Type C

Max Operation Pressure
Gas:100 PSI, Water:160 PSI
Fusible with PE Pipes of PE80, PE2406,PE100, PE3408,PE4710
May be Fused to SDR17-21 Pipe
ASTM F714, F1055,D2513,D3035,D3350,AWWA C906

1:Type B IPS10"-16" One fusion zone, Two-steps Fusion Process
2:Type C IPS16"-36" Two fusion zones, Two-steps Fusion Process for each zone

Electrofusion Couplers , SDR11 (DIPS)

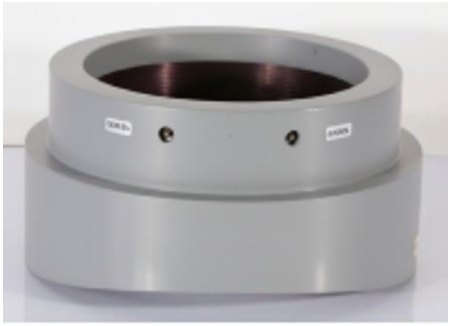


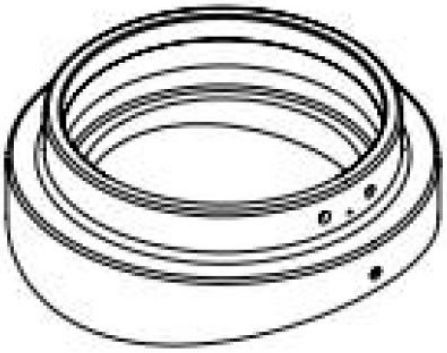
Code	Size	SDR	D(mm)	L(mm)	Unit Weight (KG)	QTY/Box	Remark
DEFCL4A	4" DIPS	11	160.02	167.64	1.36		Type A
DEFCL6A	6" DIPS	11	214.88	199.90	2.55		Type A
DEFCL8A	8"DIPS	11	269.24	204.47	4.59		Type A
DEFCL10A	10"DIPS	11	330.20	219.96	7.26		Type B
DEFCL12A	12"DIPS	11	389.89	230.12	13.61		Type B
DEFCL14A	14"DIPS	11	464.82	299.72	19.96		Type B
DEFCL16A	16"DIPS	11	529.84	320.04	26.76		Type C
DEFCL18A	18"DIPS	11	589.28	365.76	38.56		Type C
DEFCL20A	20"DIPS	11	673.10	398.78	44.00		Type C
DEFCL24A	24"DIPS	11	774.70	419.10	52.62		Type C
DEFCL30A	30"DIPS	11	949.96	469.90	85.66		Type C

Max Operation Pressure
Gas:150 PSI, Water:240 PSI
Fusible with PE Pipes of PE80, PE2406,PE100, PE3408,PE4710
May be Fused to SDR 9-17 Pipe
ASTM F714, F1055,D2513,D3035,D3350,AWWA C906

1: Type A DIPS 4"-8" One fusion zone, One-step Fusion Process
2:Type B DIPS10"-14" One fusion zone, Two-steps Fusion Process
3:Type C DIPS16"-30" Two fusion zones, Two-steps Fusion Process for each zone

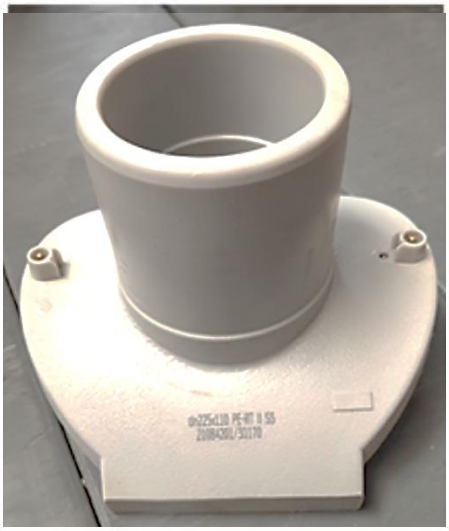
Full Electrofusion Branch Saddle , SDR17/11 (IPS)





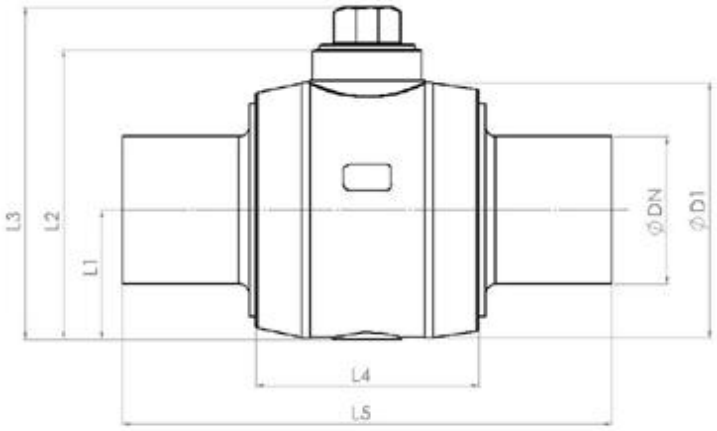
dn Dn	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	42"	48"	5 4"	6 3"
6"	√	√	√	√	√	√	√	√	√	√	√	√	√	√
8"		√	√	√	√	√	√	√	√	√	√	√	√	√
10"				√	√	√	√	√	√	√	√	√	√	√
12"						√	√	√	√	√	√	√	√	√
14"							√	√	√	√	√	√	√	√
16"								√	√	√	√	√	√	√
18"									√	√	√	√	√	√
20"										√	√	√	√	√
24"											√	√	√	√

Electrofusion Branch Saddle , SDR17/11 (IPS)



dn Dn	2”	2 1/2”	3”	4”	6”	8”	10”	12”	14”	16“
1”	√	√	√	√	√	√	√	√	√	√
2”			√	√	√	√	√	√	√	√
3”				√	√	√	√	√	√	√
4”					√	√	√	√	√	√
6”							√	√	√	√

Butt Fusion Ball Valves , SDR11 (IPS)



CODE	Size	SDR	D1	L1	L2	L3	L4	L5
PEV1A	1" IPS	11						
PEV2A	2" IPS	11	123	63	160	201	131	290
PEV112A	2 1/2"IPS	11	130	68	171	211	130	288
PEV3A	3"IPS	11	163	85	198	236	172	360
PEV4A	4"IPS	11	198	102	231	272	208	420
PEV6A	6"IPS	11						
PEV8A	8"IPS	11						
PEV10A	10"IPS	11						

Final Overview of Key Benefits:

- **Exceptional Temperature Resistance**
  Engineered to withstand temperatures up to **180°F (82°C)**, PE-RT II is ideal for hot water systems and other high-temperature applications.
- **Versatile Application Range**
  Suitable for a broad spectrum of uses, including **plumbing systems, hydronic heating, snow and ice melting, and geothermal piping**, offering flexibility across residential, commercial, and industrial projects.
- **Cost-Efficient Installation**
  Its flexible design reduces the need for fittings, helping to **lower material costs and significantly decrease installation time**.
- **Environmentally Responsible**
  PE-RT II is **non-toxic, recyclable, and environmentally friendly**, supporting sustainable construction practices.

The Smart Choice for Water Systems
With its combination of durability, efficiency, and versatility, PE-RT II provides a dependable, cost-effective solution for today's water supply needs.

SP1 FITTINGS

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