



HDPE FABRICATIONS AND FITTINGS

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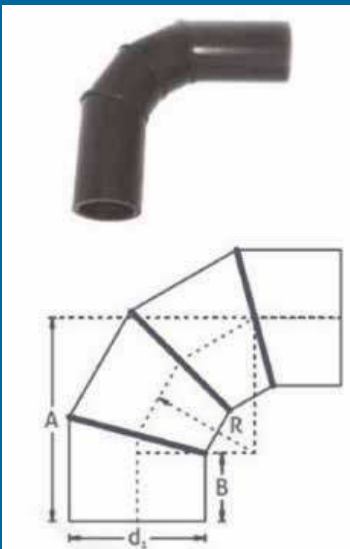
EnviroPlast's HDPE fabrications and fittings are essential components in creating custom piping systems that are both durable and adaptable to complex layouts. Our components include elbows, tees, reducers, stub ends, flanges, manifolds, manholes and custom-fabricated spool pieces designed to meet specific project requirements. Manufactured using precision techniques such as butt fusion and extrusion welding, EnviroPlast's HDPE fittings provide seamless, leak-proof connections that maintain the strength and integrity of the pipeline. Their chemical resistance, flexibility, and lightweight nature make them ideal for use in water and wastewater treatment, mining, industrial processing, agriculture, and gas distribution. With the ability to tailor configurations for unique site conditions, EnviroPlast's HDPE fabrications offer reliable performance and easy integration into both standard and specialized piping systems. A key advantage of EnviroPlast's HDPE Fabrications is the wide variety of available joining techniques, designed to suit a broad range of applications. These include both permanent and detachable connection techniques, offering flexibility and reliability based on project needs.

Butt Welding	HDPE butt welding is a reliable method for joining high-density polyethylene pipes and fittings, creating strong, permanent, and leak-free joints. Butt welding involves heating the pipe ends and pressing them together under controlled conditions, allowing the material to fuse as one continuous piece. EnviroPlast uses manual, semi-automatic, and fully automated butt welding techniques, each suited to different project scales and environments. These techniques offer numerous advantages, including high joint strength, durability, resistance to corrosion and chemicals, and suitability for both above-ground and buried applications.
Electrofusion Welding	HDPE electrofusion welding is a precise and highly reliable method for joining HDPE pipes and fittings using specialized fittings embedded with electrical heating elements. This process is especially suited for installations in confined spaces or where minimal disruption is required. Electrofusion fittings come in various types, including couplers, elbows, tees, saddles, and reducers, providing versatility for a wide range of configurations. The method offers several advantages, such as leak-free joints, minimal equipment footprint, high pressure resistance, and suitability for both above-ground and underground installations. HDPE electrofusion welding is a preferred choice where safety, precision, and long-term performance are critical.
Socket Fusion Welding	HDPE socket fusion welding is a reliable and straightforward method used to join small-diameter HDPE pipes and fittings by inserting a heated pipe end into a matching heated socket. Available socket fusion fittings include couplings, elbows, tees, reducers, and end caps, all designed to ensure a secure and uniform joint. Advantages of socket fusion welding include ease of use, compact equipment requirements, high joint integrity, and minimal risk of contamination, making it especially effective for potable water systems, gas distribution, plumbing, and irrigation. Its simplicity and reliability make socket fusion an ideal solution for both on-site and prefabricated HDPE installations in small-scale or confined applications.
Stub & Flanged Connection	HDPE stub and flanged connections are a widely used mechanical joining method that enables easy assembly and disassembly of HDPE piping systems, particularly in applications requiring frequent maintenance or modular installation. These connections consist of HDPE stub ends combined with backing flanges, available in various materials such as steel, stainless steel, or polypropylene. Types of stub ends include short and long pattern stubs, while flange types can be fixed, swivel, or backing rings, tailored to suit different pressure classes and standards. The main advantages of this connection system include quick installation, reusability, compatibility with valves and other equipment, and secure, leak-resistant joints. Ideal for water treatment plants, industrial systems, pump stations, and marine applications, HDPE stub and flanged connections provide both versatility and reliability in demanding environments.

HDPE FABRICATED FITTINGS

HDPE fabricated fittings are custom-manufactured components designed to connect, direct, or adapt HDPE piping systems to meet specific layout and performance requirements. These fittings are produced by butt welding sections of HDPE pipe and EnviroPlast offers them in a wide range of sizes and specifications depending on the clients requirements. EnviroPlast offers elbows, tees, crosses, reducers, laterals, flanged spool pieces, manifolds and maholes, all tailored to suit various configurations and flow conditions. EnviroPlast's fabricated fittings offer several key advantages, including flexibility in design, high strength, corrosion resistance, and excellent durability under pressure and chemical exposure.

90 Degree Segmented Bend



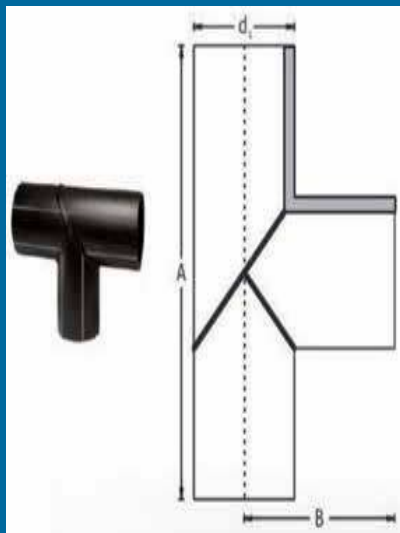
45 Degree Segmented Bend



90 Degree & 45 Degree Segmented Bends

DIAMETER (d)	RADIUS (r)	90°(A)	45°(A)
50	75	220	220
63	93	280	280
75	113	330	330
90	135	400	400
110	165	370	370
125	188	400	400
140	210	430	430
160	240	470	470
180	270	510	510
200	300	550	550
225	338	600	600
250	375	650	650
280	420	710	710
315	472	620	620
355	532	680	680
400	600	760	760
450	675	1300	900
500	750	1400	900
560	840	1150	950
630	945	1300	1100
710	1065	1450	1250
800	1200	1500	1300

Segmented T-Pieces



Segmented T-Pieces

OD (d)	A	B
50	150	300
63	150	300
75	400	800
90	400	800
110	400	800
125	400	800
140	400	800
160	400	800
180	450	900
200	450	900
225	450	900
250	450	900
280	450	900
315	650	1300
355	650	1300
400	650	1300
450	850	1700
500	850	1700
560	900	1800
630	900	1800
710	1150	2300
800	1150	2300

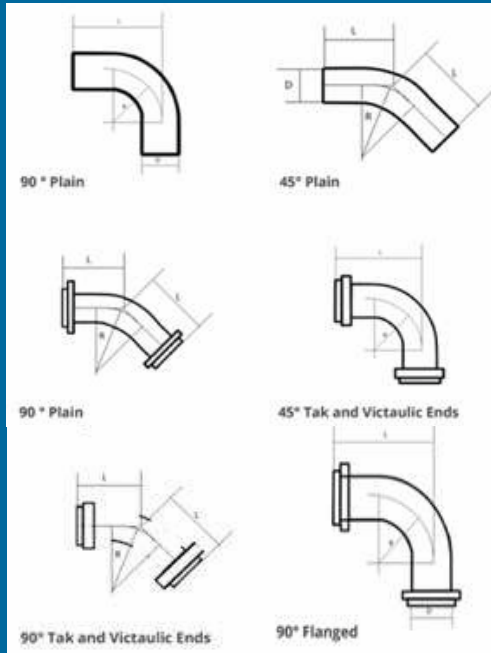
Segmented Laterals



Segmented Laterals

OD	H	L1	L
50	200	150	400
63	200	150	400
75	475	370	950
90	475	370	950
110	475	370	950
125	475	370	950
140	475	370	950
160	475	370	950
180	875	530	1350
200	875	530	1350
225	875	530	1350
250	875	530	1350
280	900	700	1800
315	900	700	1800
355	900	700	1800
400	900	700	1800
450	1100	870	2200
500	1100	870	2200
560	1200	950	2400
630	1200	950	2400
710	1500	1200	3000
800	1500	1200	3000

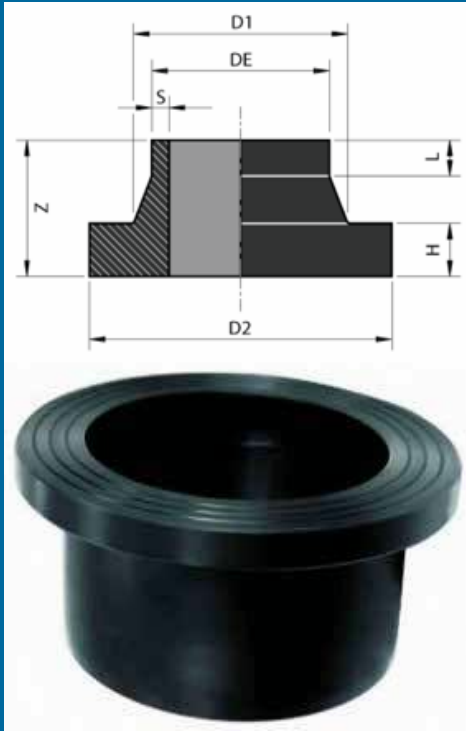
Seamless Long Radius Bends



Seamless Long Radius Bends

OD (d)	PLAIN ENDED			FLANGED		TAK & VICTAULIC	
	R	45°L	90°L	45°L	90°L	45°L	90°L
110	330	345	535	400	690	400	590
125	375	360	580	420	640	415	635
140	420	380	625	440	685	435	680
160	480	405	685	475	755	460	740
180	540	430	745	500	815	515	830
200	600	455	805	525	875	540	890
225	675	485	880	565	960	570	965
250	750	515	955	595	1035	600	1040
280	840	555	1045	637	1125	-	-
315	945	585	1150	675	1240	-	-
355	1065	645	1270	735	1360	-	-
400	1200	705	1405	805	1505	-	-
450	1350	765	1555	865	1655	-	-
500	1500	830	1705	930	1805	-	-

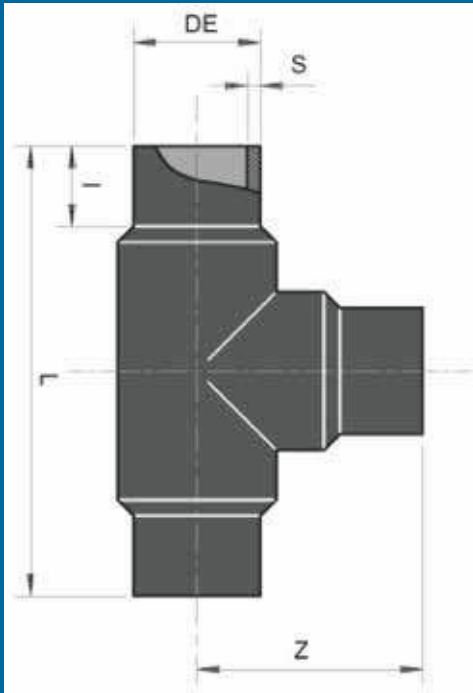
Stub Flanges (Butt Weld)



Stub Flanges (Butt Weld)

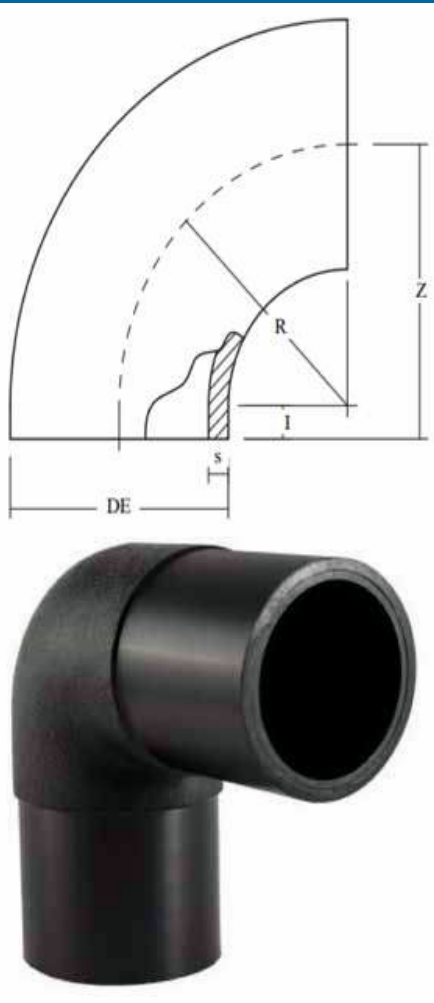
DE	SDR 17		SDR 11		D ₁	D ₂	Z
	H	L	H	L			
20	-	-	7	30	37	45	50
25	-	-	9	28	33	58	50
32	-	-	10	27	40	68	50
40	11	24	11	24	50	78	50
50	12	23	12	23	61	88	50
63	14	18	14	18	75	102	50
75	16	14	16	14	89	122	50
90	17	43	17	35	105	138	80
110	18	37	18	37	125	158	80
125	18	42	25	35	132	158	80
140	18	34	25	27	155	188	80
160	18	34	25	27	175	212	80
180	20	30	30	20	181	212	80
200	24	36	32	28	232	268	100
225	24	46	32	38	235	268	100
250	25	35	35	25	285	320	100
280	25	45	35	35	291	320	100
315	25	35	35	25	335	370	100
355	30	30	30	20	373	430	120
400	33	42	42	29	427	482	120
450	46	14	14	10	514	585	120
500	46	24	24	10	530	585	120
560	50	10	10	20	615	685	120
630	50	30	30	20	642	685	120

DE	SDR 33				
	H	L	D ₁	D ₂	Z
110	18	37	125	158	80
125	18	42	132	158	80
140	18	34	155	188	80
160	18	34	175	212	80
180	18	32	181	212	80
200	18	42	232	268	100
225	18	52	235	268	100
250	20	40	285	320	100
280	20	50	291	320	100
315	20	40	335	370	100
355	23	57	373	430	120
400	26	49	427	482	120
450	33	27	514	585	120
500	33	37	530	585	120
560	35	25	615	685	120
630	35	45	642	685	120



DE	SDR 17 & SDR 11		
	L	Z	I
20	50	25	8
25	60	30	10
32	72	36	12
40	88	44	16
50	116	58	21
63	146	73	24
75	170	85	28
90	200	100	23
110	240	120	43
125	250	125	26
140	280	140	32
160	320	160	40
180	390	195	73
200	430	215	70
225	480	240	72
250	550	275	86
280	620	310	105
315	700	350	111
355	658	330	95
400	682	345	104
450	890	450	130
500	890	450	130

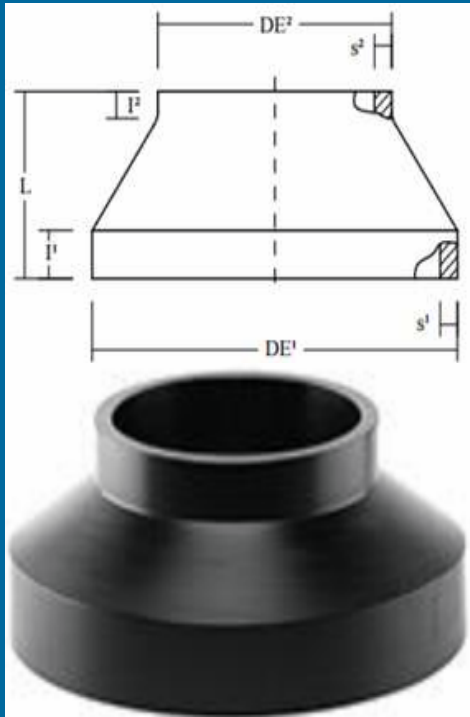
DE	SDR 33		
	L	Z	I
110	249	121	50
125	262	132	47
140	293	145	48
160	318	160	55
180	356	175	59
200	385	194	55
225	442	212	59
250	465	232	70
280	536	268	8
315	530	263	75
355	658	330	95
400	690	345	104
450	890	450	130
500	895	450	130



SDR 33			
DE	Z	I	R
20	25	5	20
25	30	5	25
32	36	4	32
40	43	3	40
50	51	1	50
63	64	1	63
75	85	10	75
90	100	10	90
110	120	10	110
125	140	15	125
140	155	15	140
160	175	15	160
180	195	15	180
200	215	15	200
225	245	20	225
250	275	25	250
280	310	30	280
315	350	35	315
355	340	40	300
400	345	45	300
450	350	50	400
500	350	50	400

SDR 17 & SDR 11			
DE	Z	I	R
110	120	10	110
125	140	15	125
140	150	10	140
160	180	25	155
180	200	25	175
200	220	23	197
225	250	20	230
250	290	25	265
280	290	10	280
315	340	40	300
355	340	40	300
400	345	45	300
450	450	50	400
500	450	50	400

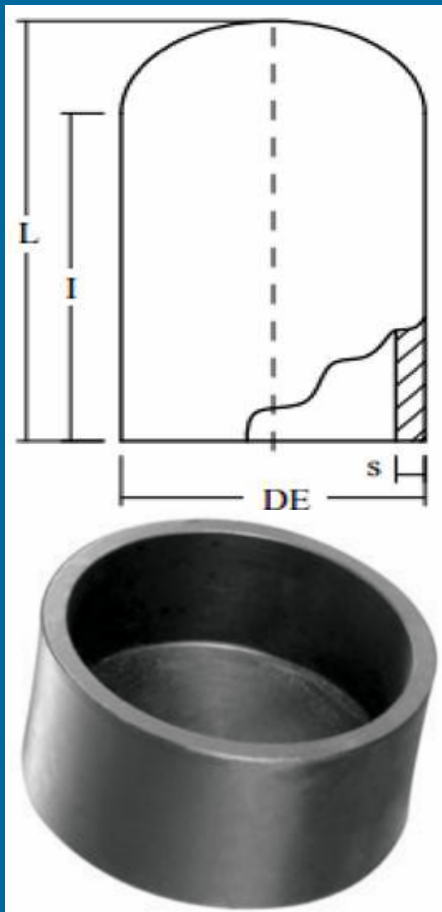
Reducer - Concentric
Continued (Butt Weld)



Reducer - Concentric Continued (Butt Weld)

SDR 17 & SDR 11				
DE ₁	DE ₂	L	I ₁	I ₂
355	200	183	30	20
355	225	170	34	28
355	250	125	30	22
355	280	100	32	23
355	315	72	30	21
400	225	196	25	20
400	250	175	25	20
400	280	148	25	20
400	315	118	25	20
400	355	84	25	20
450	280	192	25	20
450	315	161	25	20
450	355	127	25	20
450	400	88	25	20
500	280	235	25	20
500	315	205	25	20
500	355	170	25	20
500	400	131	25	20
500	450	88	25	20
560	355	222	25	20
560	400	183	25	20
560	450	140	25	20
560	500	97	25	20
630	355	283	25	20
630	400	244	25	20
630	450	200	25	20
630	500	157	25	20
630	560	105	25	20

End Caps (Butt Weld)



End Caps (Butt Weld)

DE	L	I
20	45	35
25	52	40
32	58	45
40	67	50
50	75	55
63	85	62
75	82	66
90	110	78
110	125	88
125	55	25
140	65	30
160	80	40
180	90	47
200	100	50
225	110	60



BS 10 TABLE D						
PIPE SIZE	DIMENSIONS - mm				BOLTS	
	D	D ₁	B	PCD	NO.	SIZE
20	95.5	30	8	66.7	4	M12
25	101.6	38	8	73	4	M12
32	114.3	45	8	82.6	4	M12
40	120.6	52	10	87.3	4	M12
50	133.3	63	10	98.4	4	M12
63	152.4	74	10	114.3	4	M16
75	165.1	86	10	127	4	M16
90	184.1	103	12	146	4	M16
110	215.9	128	15	177.8	4	M16
125	254	135	15	209.6	8	M16
140	254	158	15	209.6	8	M16
160	279.4	188	15	235	8	M16
180	285	188	15	235	8	M16
200	336.6	236	16	292	8	M16
225	369	236	16	323.9	8	M16
250	406.4	279	16	355.6	8	M20
280	406.4	292	20	355.6	8	M20
315	457.2	350	20	406.4	12	M20
355	527.1	367	23	469.9	12	M24
400	577.9	430	23	520.7	12	M24
450	641.4	476	25	584.2	12	M24
500	704.9	533	25	641.4	16	M24
560	762	592	30	698	16	M24
630	825.5	662	30	755.7	16	M24

PIPE SIZE	SABS 1123 1600/3						SABS 1123 1000/3				
	DIMENSIONS - mm				BOLTS		DIMENSIONS - mm			BOLTS	
	D	D ₁	B	PCD	NO.	SIZE	D	B	PCD	NO.	SIZE
20	95	30	10	65	4	M12	95	10	65	4	M12
25	105	38	10	75	4	M12	105	10	75	4	M12
32	115	45	10	85	4	M12	115	10	84	4	M12
40	140	52	12	100	4	M16	140	12	100	4	M16
50	150	63	12	110	4	M16	150	12	110	4	M16
63	165	74	12	125	4	M16	165	12	125	4	M16
75	185	86	12	145	4	M16	185	12	145	4	M16
90	200	103	12	160	8	M16	200	12	160	8	M16
110	220	128	15	180	8	M16	220	15	180	8	M16
125	250	135	15	210	8	M16	250	15	210	8	M16
140	250	158	15	210	8	M16	250	15	210	8	M16
160	285	188	20	240	8	M20	285	20	240	8	M20
180	285	188	20	240	8	M20	285	20	240	8	M20
200	340	236	20	295	12	M20	340	20	295	8	M20
225	340	236	20	295	12	M20	340	20	295	8	M20
250	405	279	25	355	12	M24	395	25	350	12	M20
280	405	292	25	355	12	M24	395	25	350	12	M20
315	460	350	25	410	12	M24	445	25	400	12	M20
355	520	367	25	470	16	M24	506	25	460	16	M20
400	580	430	30	525	16	M24	565	30	515	16	M24
450	640	476	30	585	20	M24	615	30	565	20	M24
500	715	533	30	650	20	M30	670	30	620	20	M24
560	775	592	36	710	20	M30	730	35	675	20	M24
630	840	662	36	770	20	M30	780	38	725	20	M24

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solutions and
environmental
sustainability



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ABOUT HOW WE
CAN HELP YOU.**
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