



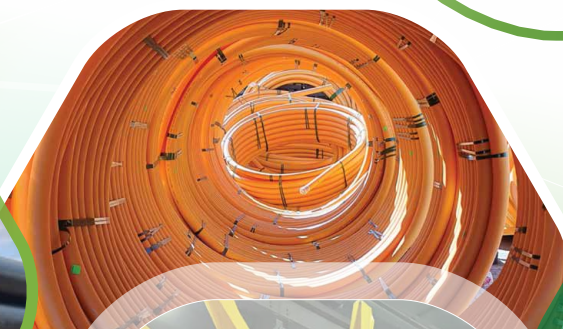
rare plastics

MANUFACTURE AND DISTRIBUTE

HDPE pipe, fittings and backing rings
from our factory in Meyerton, Gauteng.

Pipes are certified to
SANS ISO 4427 & 4437 standards
and available in sizes up to 1000mm.

The PE100 raw material is sourced
from reputable manufacturers who
comply to SANS ISO 4427 Part 1.



TRUSTED PIPELINE PRODUCTS

www.rare.co.za

SAPPMA
southern african plastic pipe manufacturers association

Rare is a proud member of the Southern African Plastic Pipe
Manufacturer's Association and The Installation and Fabrication
Plastics Pipe Association.

IFPA
INSTALLATION AND FABRICATION PLASTICS
PIPE ASSOCIATION

Benefits

HDPE piping systems offer many benefits when compared to most other materials; which typically include the following:

- High impact strength
- Resistance against chemicals, corrosion and abrasion
- Chemically inert and unaffected by acidic soil conditions
- Biologically inert against micro organisms
- Available in long lengths, reducing the number of joints
- Flexibility and toughness
- Inherent resistance to the effect of ground water movement
- Excellent hydraulic properties with low friction resistance throughout life
- Non-toxic and safe for drinking water
- Low installation cost and maintenance free
- Environmentally friendly
- Can be fusion welded, ensuring absolutely leak free joints
- Very suitable for rehabilitation of old pipelines

Applications

2

Some typical applications of HDPE pipe include the following:

- Mining (surface and underground)
- Water supply
- Agriculture / irrigation
- High temperature liquids and gases – usually not above 60°C
- Corrosive water and effluents
- Dewatering
- Drainage and sub-soil drainage
- Protection of electrical and telephone cables
- Hydraulic transport
- Pipeline rehabilitation

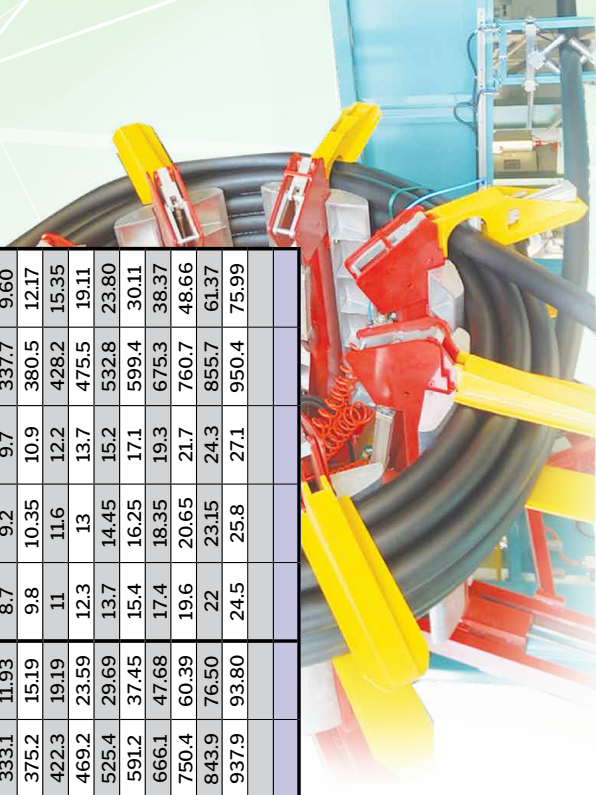


SDR RATING		SDR 7.4						SDR 9						SDR 11						SDR 13.6						SDR 17					
PE 80		20						16						12.5						10						8					
PE 100		25						20						16						12.5						10					
OD	ID	WALL THICKNESS			NOM	MASS Kg/M	WALL THICKNESS			NOM	MASS Kg/M	WALL THICKNESS			NOM	MASS Kg/M	WALL THICKNESS			NOM	MASS Kg/M	WALL THICKNESS			NOM	MASS Kg/M					
		min	Avg	max			min	Avg	max			min	Avg	max			min	Avg	max			min	Avg	max			min	Avg	max	min	Avg
16	16.3	2.3	2.5	2.7	11.15	0.10	2.0	2.15	2.3	11.85	0.09	2	2.15	2.3	15.9	0.12	2	2.15	2.3	20.9	0.15										
20	20.3	3	3.2	3.4	13.75	0.16	2.3	2.5	2.7	15.15	0.13	2	2.15	2.3	15.9	0.12	2	2.15	2.3	20.9	0.15										
25	25.3	3.5	3.75	4	17.7	0.24	3.0	3.2	3.4	18.8	0.21	2.3	2.5	2.7	20.2	0.17	2	2.15	2.3	20.9	0.15										
32	32.3	4.4	4.7	5	22.8	0.39	3.6	3.85	4.1	24.5	0.33	3	3.2	3.4	25.8	0.28	2.4	2.6	2.8	27	0.23	2	2.15	2.3	27.9	0.19					
40	40.3	5.5	5.85	6.2	28.5	0.60	4.5	4.8	5.1	30.6	0.51	3.7	3.95	4.2	32.3	0.43	3	3.25	3.5	33.7	0.36	2.4	2.6	2.8	35	0.29					
50	50.3	6.9	7.3	7.7	35.6	0.94	5.6	5.95	6.3	38.3	0.79	4.6	4.9	5.2	40.4	0.67	3.7	3.95	4.2	42.3	0.55	3	3.2	3.4	43.8	0.45					
63	63.4	8.6	9.1	9.6	45	1.48	7.1	7.55	8.0	48.1	1.06	5.8	6.15	6.5	50.9	1.06	4.7	5	5.3	53.2	0.88	3.8	4.05	4.3	55.1	0.72					
75	75.5	10.3	10.9	11.5	53.5	2.11	8.4	8.9	9.4	57.5	1.78	6.8	7.2	7.6	60.9	1.47	5.6	5.95	6.3	63.4	1.24	4.5	4.8	5.1	65.7	1.02					
90	90.6	12.3	13	13.7	64.3	3.02	10.1	10.7	11.3	68.9	2.56	8.2	8.7	9.2	72.9	2.13	6.7	7.1	7.5	76.1	1.78	5.4	5.75	6.1	78.8	1.46					
110	110.7	15.1	15.95	16.8	78.5	4.53	12.3	13	13.7	84.4	3.81	10	10.55	11.1	89.3	3.17	8.1	8.6	9.1	93.2	2.63	6.6	7	7.4	96.4	2.18					
125	125.8	17.1	18.05	19	89.3	5.83	14.0	14.8	15.6	95.8	4.93	11.4	12.05	12.7	101.3	4.11	9.2	9.75	10.3	105.9	3.39	7.4	7.85	8.3	109.7	2.78					
140	140.9	19.2	20.25	21.3	100.0	7.33	15.7	16.55	17.4	107.4	6.17	12.7	13.4	14.1	113.7	5.12	10.3	10.9	11.5	118.7	4.25	8.3	8.8	9.3	122.9	3.49					
160	161	21.9	23.05	24.2	114.4	9.53	17.9	18.85	19.8	122.8	8.04	14.6	15.4	16.2	129.7	6.72	11.8	12.45	13.1	135.6	5.55	9.5	10.05	10.6	140.4	4.55					
180	181.1	24.6	25.9	27.2	128.8	12.05	20.1	21.2	22.3	138.2	10.17	16.4	17.3	18.2	146.0	8.50	13.3	14.05	14.8	152.5	7.04	10.7	11.3	11.9	158	5.76					
200	201.2	27.4	28.85	30.3	142.9	14.91	22.4	23.6	24.8	153.4	12.57	18.2	19.2	20.2	162.2	10.48	14.7	15.5	16.3	169.6	8.64	11.9	12.55	13.2	175.5	7.10					
225	226.4	30.8	32.4	34	160.9	18.85	25.2	26.55	27.9	172.6	15.91	20.5	21.6	22.7	182.5	13.28	16.6	17.5	18.4	190.7	10.97	13.4	14.15	14.9	197.4	9.01					
250	251.5	34.2	36	37.8	178.8	23.87	27.9	29.35	30.8	192.1	19.56	22.7	23.9	25.1	203.0	16.32	18.4	19.4	20.4	212	13.51	14.8	15.6	16.4	219.6	11.04					
280	281.7	38.3	40.3	42.3	200.3	29.18	31.3	32.95	34.6	215.0	24.58	25.4	26.75	28.1	227.4	20.46	20.6	21.7	22.8	237.5	16.93	16.6	17.5	18.4	245.9	13.87					
315	316.9	43.1	45.35	47.6	225.3	36.93	35.2	37.05	38.9	241.9	31.10	28.6	30.1	31.6	255.8	25.90	23.2	24.45	25.7	267.1	21.45	18.7	19.7	20.7	276.6	17.56					
355	357.2	48.5	51	53.5	254.1	46.83	39.7	41.75	43.8	272.6	39.50	32.2	33.9	35.6	288.3	32.87	26.1	27.5	28.9	301.1	27.20	21.1	22.25	23.4	311.6	22.36					
400	402.4	54.7	57.5	60.3	286.2	59.48	44.7	47	49.3	307.2	50.10	36.3	38.2	40.1	324.8	41.73	29.4	30.95	32.5	339.3	34.49	23.7	24.95	26.2	351.3	28.25					
450	452.7	61.5	64.65	67.8	322.1	75.24	50.3	52.9	55.5	345.6	63.44	40.9	43	45.1	365.4	52.85	33.1	34.85	36.6	381.7	43.69	26.7	28.1	29.5	395.2	35.79					
500	503						55.8	58.65	61.5	384.2	78.17	45.4	47.75	50.1	406	65.21	36.8	38.7	40.6	424.1	53.90	29.7	31.25	32.8	439	44.23					
560	563.4						62.5	65.7	68.9	430.3	98.08	50.8	53.4	56	454.9	81.69	41.2	43.35	45.5	475	67.63	33.2	34.95	36.7	491.8	55.41					
630	633.8						70.3	73.9	77.5	484.1	124.10	57.2	60.15	63.1	511.6	103.50	46.3	48.7	51.1	534.5	85.48	37.4	39.35	41.3	553.2	70.17					
710	716.4						79.3	83.35	87.4	545.3	158.00	64.5	67.8	71.1	576.4	131.70	52.2	54.9	57.6	602.2	108.77	42.1	44.3	46.5	623.4	89.18					
800	807.2						89.3	93.85	98.4	623.4	200.47	72.6	76.3	80	649.4	167.01	58.8	61.8	64.8	678.4	137.97	47.4	49.85	52.3	702.3	113.09					
900	908.1											81.7	85.85	90	730.3	211.40	66.2	69.6	73	762.8	174.79	53.3	56.05	58.8	789.9	143.05					
1000	1009.0											90.2	94.8	99.4	812.4	259.55	72.5	76.2	79.9	849.6	212.89	59.3	62.35	65.4	877.3	176.80					
1200																	67.9	69.8	71.6						239.27						

The preferred series of pipes are SDR11 and SDR17 for gas applications

DIMENSIONS OF PE 100 HDPE PIPES ISO / SANS 4427-2:2008 - SDR 21 TO SDR 41

SDR RATING		SDR 21				SDR 26				SDR 33				SDR 41			
PE 80		6				5				4				3.2			
PE 100		8				6				5				4			
OD	min	max	WALL THICKNESS	NOM	MASS	WALL THICKNESS	NOM	MASS	WALL THICKNESS	NOM	MASS	WALL THICKNESS	NOM	MASS	WALL THICKNESS	NOM	MASS
			min	Avg	max	min	Avg	max	min	Avg	max	min	Avg	max	min	Avg	max
16	16.3																
20	20.3																
25	25.3																
32	32.3																
40	40.3	2	2.15	2.3	35.9	0.25											
50	50.3	2.4	2.6	2.8	45.0	0.37											
63	63.4	3	3.2	3.4	56.8	0.58	2.0	2.3	2.3	45.6	0.31						
75	75.5	3.6	3.85	4.1	67.6	0.83	2.5	2.7	2.9	57.8	0.49						
90	90.6	4.3	4.6	4.9	81.1	1.19	2.9	3.1	3.3	69.1	0.67						
110	110.7	5.3	5.65	6	99.1	1.78	3.5	3.75	4.0	82.8	0.97						
125	125.8	6	6.35	6.7	112.7	2.27	4.2	4.5	4.8	101.4	1.43						
140	140.9	6.7	7.1	7.5	126.3	2.85	4.8	5.1	5.4	115.2	1.85						
160	161	7.7	8.15	8.6	144.2	3.74	5.4	5.75	6.1	129.0	2.33						
180	181.1	8.6	9.1	9.6	162.4	4.69	6.2	6.6	7.0	147.3	3.06						
200	201.2	9.6	10.15	10.7	180.3	5.82	6.9	7.3	7.7	166.0	3.81						
225	226.4	10.8	11.4	12	202.9	7.35	7.7	8.15	8.6	184.3	4.72						
250	251.5	11.9	12.55	13.2	225.7	8.99	8.6	9.1	9.6	207.5	5.93						
280	281.7	13.4	14.15	14.9	252.6	11.36	9.6	10.15	10.7	230.5	7.35						
315	316.9	15	15.8	16.6	284.4	14.27	10.7	11.3	11.9	258.3	9.17						
355	357.2	16.9	17.8	18.7	320.5	18.12	12.1	12.8	13.5	290.4	11.68	9.7	10.25	10.8	10.8	10.8	10.8
400	402.4	19.1	20.15	21.2	360.9	23.11	13.6	14.35	15.1	327.4	14.76	10.9	11.5	12.1	12.1	12.1	12.1
450	452.7	21.5	22.65	23.8	406.1	29.22	15.3	16.15	17.0	368.9	18.72	12.3	13	13.7	13.7	13.7	13.7
500	503	23.9	25.15	26.4	451.2	36.06	17.3	18.2	19.1	415.0	23.66	13.8	14.55	15.3	15.3	15.3	15.3
560	563.4	26.7	28.1	29.5	505.5	45.13	19.1	20.15	21.2	461.2	29.19	15.3	16.15	17	17	17	17
630	633.8	30	31.55	33.1	568.8	57.01	21.4	22.55	23.7	516.6	36.59	17.2	18.15	19.1	19.1	19.1	19.1
710	716.4	33.9	35.65	37.4	640.7	72.69	24.1	25.4	26.7	581.1	46.36	19.3	20.35	21.4	21.4	21.4	21.4
800	807.2	38.1	40.1	42.1	721.8	92.14	27.2	28.65	30.1	654.7	59.03	21.8	22.95	24.1	24.1	24.1	24.1
900	908.1	42.9	45.1	47.3	811.8	116.59	30.6	32.2	33.8	737.6	74.76	24.5	25.8	27.1	27.1	27.1	27.1
1000	1009.0	47.7	50.15	52.6	901.7	144.04	34.4	36.35	38.3	829.3	94.93	27.6	29.05	30.5	30.5	30.5	30.5
1600							38.2	40.2	42.2	921.6	116.67	30.6	32.05	33.5	33.5	33.5	33.5
2000							61.2	62.9	64.6	-	293.63						
							76.9	79.00	81.1	-	4604.42						



FLANGE & BOLT SPECIFICATIONS

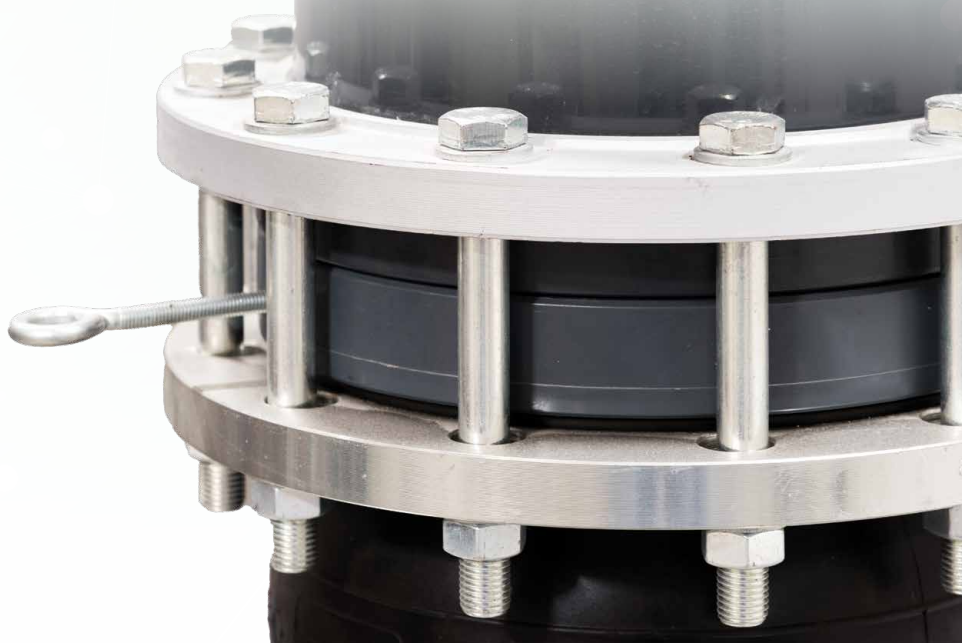
FLANGE DIMENSIONS									FASTENERS		
									RARE RECOMMENDATION		
FLANGE SIZE	OD	ID	THK	PCD	NO.	HOLES	e x 45	KG/PC	D2	P-P	P-S
BS T/D											
25mm	101,6	38	10	73	4	14,3	4	0,50	M12	75	55
32mm	114,3	45	10	82,6	4	14,3	4	0,63	M12	75	55
40mm	120,7	51	10	87,3	4	14,3	4	0,69	M12	75	55
50mm	133,4	63	10	98,4	4	14,3	4	0,80	M12	75	55
63mm	152,4	78	10	114,3	4	17,5	4	0,98	M16	80	60
75mm	165,1	92	10	127	4	17,5	4	1,09	M16	80	60
90mm	184,1	110	10	146	4	17,5	4	1,27	M16	100	70
110mm	215,9	136	10	177,8	4	17,5	4	1,66	M16	110	75
125mm	215,9	136	10	177,8	4	17,5	4	1,66	M16	110	75
140mm	254	158	12	209,6	8	17,5	6	2,75	M16	110	80
160mm	279,4	190	12	235	8	17,5	6	2,93	M16	130	90
180mm	279,4	190	12	235	8	17,5	6	2,93	M16	130	90
200mm	336,3	237	12	292,1	8	17,5	6	4,04	M16	130	90
225mm	336,3	237	12	292,1	8	17,5	6	4,04	M16	150	100
250mm	406,4	279	16	355,6	8	22,2	8	8,23	M20	160	110
280mm	406,4	292	16	355,6	8	22,2	8	7,51	M20	160	110
315mm	457,2	330	19	406,4	12	22,2	8	11,10	M20	190	120
355mm	527,1	376	22	469,9	12	25,4	8	17,50	M24	210	140
400mm	577,9	430	22	520,7	12	25,4	8	19,20	M24	220	130
450mm	641,4	476	25	584,2	12	25,4	8	27,30	M24	230	150
500mm	704,9	533	28	641,4	16	25,4	8	35,00	M24	250	160
560mm	762	592	28	698	16	28,6	8	37,50	M24	250	160
630mm	825,5	645	30	755,7	16	28,6	8	46,80	M24	260	170
SANS 1123 - T1000											
50mm	150	63	10	110	4	18	4	1,07	M16	80	60
63mm	165	78	10	125	4	18	4	1,23	M16	80	60
75mm	185	92	12	145	4	18	4	1,82	M16	85	65
90mm	200	110	12	160	8	18	4	1,88	M16	100	70
110mm	220	136	12	180	8	18	4	2,03	M16	110	80
125mm	220	136	12	180	8	18	4	2,03	M16	110	80
140mm	250	158	14	210	8	18	6	3,02	M16	120	80
160mm	285	190	16	240	8	22	6	4,08	M20	140	100
180mm	285	190	16	240	8	22	6	4,08	M20	140	100
200mm	340	237	18	295	8	22	6	6,17	M20	150	100
225mm	340	237	18	295	8	22	6	6,17	M20	170	110
250mm	395	279	20	350	12	22	8	8,93	M20	170	120
280mm	395	292	20	350	12	22	8	8,02	M20	170	120
315mm	445	330	22	400	12	22	8	11,30	M20	200	130
355mm	505	376	25	460	16	22	8	16,40	M20	210	150
400mm	565	430	25	515	16	26	8	19,10	M24	230	150
450mm	615	476	30	565	20	26	8	25,60	M24	240	160
500mm	670	533	30	620	20	26	8	28,10	M24	250	170
560mm	730	592	35	675	20	26	8	36,50	M24	260	180
630mm - 725 PCD	780	645	36	725	20	26	8	39,80	M24	260	180
630mm - 780 PCD	835	662	36	780	20	26	8	54,60	M24	260	180
710mm	895	737	40	840	24	26	8	59,70	M24	270	190
800mm	1015	840	45	950	24	33	8	82,90	M30	290	200
900mm	1115	942	50	1050	28	33	8	100,40	M30	300	210
1000mm	1230	1045	55	1160	28	33	8	132,50	M30	300	220
ASA 150#											
32mm	107,9	45	10	79,4	4	15,9	4	0,53	M12	75	55
40mm	117,5	51	10	88,9	4	15,9	4	0,63	M12	75	65
50mm	127	63	10	98,4	4	15,9	4	0,69	M16	80	60
63mm	152,4	78	12	120,6	4	19	4	1,16	M16	80	65
75mm	177,8	92	12	139,7	4	19	4	1,61	M16	85	65
90mm	190,5	103	12	152,4	4	19	4	1,80	M16	100	70
110mm	228,6	136	15	190,5	8	19	4	2,86	M16	120	80
125mm	228,6	136	15	190,5	8	19	4	2,86	M16	120	80
140mm	254	158	16	215,9	8	22,2	6	3,52	M20	130	90
160mm	279,4	190	20	241,3	8	22,2	6	4,69	M20	150	110
180mm	279,4	190	20	241,3	8	22,2	6	4,69	M20	150	110
200mm	342,9	237	20	298,4	8	22,2	6	7,10	M20	150	110
225mm	342,9	237	20	298,4	8	22,2	6	7,10	M20	170	120
250mm	406,4	279	25	361,9	12	25,4	8	12,30	M24	190	130
280mm	406,4	292	25	361,9	12	25,4	8	11,20	M24	190	130
315mm	482,6	330	28	431,8	12	25,4	8	20,10	M24	220	150
355mm	533,4	376	30	476,2	12	28,6	8	24,70	M24	230	160
400mm	596,9	430	30	539,8	16	28,6	8	29,30	M24	240	160
450mm	635	476	35	577,8	16	31,9	8	34,70	M30	260	180
500mm	698,5	533	38	635	20	31,9	8	43,10	M30	270	190
560mm	812,8	592	40	749,3	20	34,9	8	70,60	M32	280	190
630mm	812,8	645	40	749,3	20	34,9	8	54,40	M32	280	190

FLANGE & BOLT SPECIFICATIONS

FLANGE DIMENSIONS									FASTENERS		
									RARE RECOMMENDATION		
FLANGE SIZE	OD	ID	THK	PCD	NO.	HOLES	e x 45	KG/PC	D2	P-P	P-S
SANS 1123 - T1600											
25mm	105	38	10	75	4	14	4	0,55	M12	75	55
32mm	115	45	10	85	4	14	4	0,65	M12	75	55
40mm	140	51	10	100	4	18	4	0,97	M16	75	55
50mm	150	63	10	110	4	18	4	1,07	M16	80	60
63mm	165	78	12	125	4	18	4	1,47	M16	80	65
75mm	185	92	12	145	4	18	4	1,82	M16	85	65
90mm	200	110	14	160	8	18	4	2,19	M16	100	75
110mm	220	136	14	180	8	18	4	2,36	M16	120	80
125mm	220	136	14	180	8	18	4	2,36	M16	120	80
140mm	250	158	16	210	8	18	6	3,45	M16	120	90
160mm	285	190	18	240	8	22	6	4,59	M20	150	100
180mm	285	190	18	240	8	22	6	4,59	M20	150	100
200mm	340	237	22	295	12	22	6	7,28	M20	150	110
225mm	340	237	22	295	12	22	6	7,28	M20	170	120
250mm	405	279	25	355	12	26	8	12,05	M24	190	130
280mm	405	292	25	355	12	26	8	10,90	M24	190	130
315mm	460	330	28	410	12	26	8	16,40	M24	220	150
355mm	520	376	30	470	16	26	8	21,90	M24	230	160
400mm	580	430	32	525	16	26	8	27,80	M24	240	160
450mm	640	476	35	585	20	26	8	36,60	M24	250	170
500mm	715	533	40	650	20	33	8	50,70	M30	280	190
560mm	775	592	40	710	20	33	8	56,40	M30	280	190
630mm	840	645	50	770	20	33	8	82,70	M30	300	210
710mm	910	737	50	840	24	33	8	79,90	M30	300	210
800mm	1025	840	60	950	24	39	8	114,30	M36	320	240
900mm	1125	942	65	1050	28	39	8	134,70	M36	330	250
1000mm	1255	1045	70	1170	28	39	8	190,30	M36	330	260
SANS 1123 - T2500											
90mm	200	103	22	160	8	18	4	3,64	M16	120	90
110mm	235	136	25	190	8	22	4	5,07	M20	140	110
125mm	235	136	25	190	8	22	4	5,07	M20	140	110
140mm	270	158	28	220	8	26	4	7,35	M24	160	120
160mm	300	190	30	250	8	26	6	8,98	M24	180	130
180mm	300	190	30	250	8	26	6	8,98	M24	180	130
200mm	360	237	28	310	12	26	6	11,30	M24	170	130
225mm	360	237	28	310	12	26	6	11,30	M24	190	140
250mm	425	279	30	370	12	26	8	17,60	M24	200	140
280mm	425	292	30	370	12	26	8	16,20	M24	200	140
315mm	485	330	32	430	16	26	8	22,80	M24	220	160
355mm	555	376	35	490	16	33	8	32,30	M30	250	170
400mm	620	430	40	550	16	33	8	45,00	M30	270	190
450mm	670	476	45	600	20	33	8	55,70	M30	280	200
500mm	730	533	50	660	20	33	8	70,10	M30	300	210

FLANGE & BOLT SPECIFICATIONS

FLANGE DIMENSIONS									FASTENERS		
									RARE RECOMMENDATION		
FLANGE SIZE	OD	ID	THK	PCD	NO.	HOLES	ex 45	KG/PC	D2	P-P	P-S
SANS 1123 - T1000 BLANK											
63mm	165		12	125	4	18		1,92	M16		80
75mm	185		12	145	4	18		2,44	M16		80
90mm	200		14	160	8	18		3,23	M16		90
110mm	225		14	180	8	18		3,96	M16		100
125mm	225		14	180	8	18		3,96	M16		100
140mm	250		16	210	8	18		5,92	M16		100
160mm	285		18	240	8	22		8,59	M20		110
180mm	285		18	240	8	22		8,59	M20		110
200mm	340		18	295	8	22		12,41	M20		110
225mm	340		18	295	8	22		12,41	M20		120
250mm	395		20	350	12	22		18,60	M20		130
280mm	395		20	350	12	22		18,60	M20		120
315mm	445		22	400	12	22		26,10	M20		140
355mm	505		25	460	16	22		38,20	M20		150
400mm	565		25	515	16	26		47,60	M24		160
450mm	615		30	565	20	26		67,50	M24		170
500mm	670		32	620	20	26		86,00	M24		180
560mm	730		35	675	20	26		112,20	M24		190
630mm - 725 PCD	780		38	725	20	26		139,50	M24		190
630mm - 780 PCD	835		38	780	20	26		160,30	M24		190
SANS 1123 - T1600 BLANK											
50mm	150		10	110	4	18		1,31	M16		75
63mm	165		12	125	4	18		1,92	M16		80
75mm	185		12	145	4	18		2,44	M16		80
90mm	200		14	160	8	18		3,23	M16		90
110mm	220		14	180	8	18		3,60	M16		100
125mm	220		14	180	8	18		3,60	M16		100
140mm	250		16	210	8	18		5,92	M16		100
160mm	285		18	240	8	22		8,60	M20		110
180mm	285		18	240	8	22		8,60	M20		110
200mm	340		22	295	12	22		14,90	M20		120
225mm	340		22	295	12	22		14,90	M20		130
250mm	405		25	355	12	26		24,10	M24		140
280mm	405		25	355	12	26		24,10	M24		140
315mm	460		28	410	12	26		35,20	M24		160
355mm	520		30	470	16	26		48,10	M24		170
400mm	580		35	525	16	26		70,40	M24		180
450mm	640		40	585	20	26		97,80	M24		190
500mm	715		40	650	20	33		120,80	M30		200
560mm	775		40	710	20	33		142,90	M30		200
630mm	840		50	770	20	33		211,00	M30		220

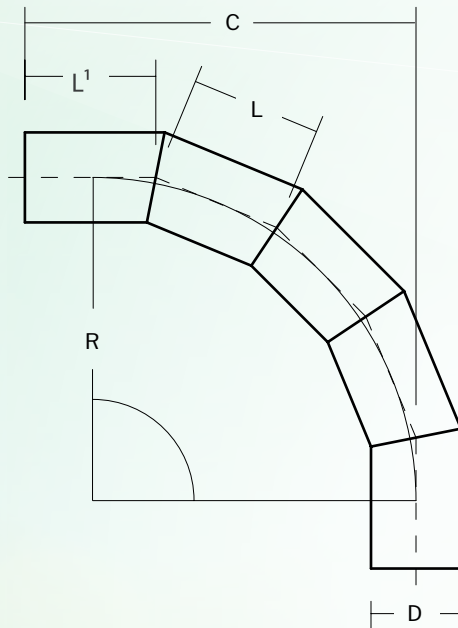


Fitting Dimensions

Fittings can be manufactured in a wide variety of Diameters and pressure ratings (PN). The most popular diameters begin from 75mm (OD) and PN 6 or higher. Permissible working pressure is 60% of the nominal pressure of the pipe used to fabricate the fitting. E.g. A PN10 pipe yields a PN6 fabricated fitting.

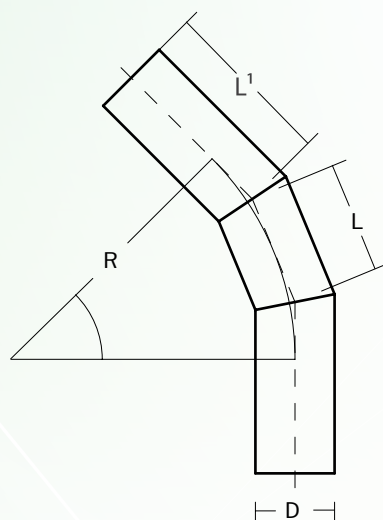
Segmented Bends

90° Bend



OD mm (D)	L mm	C mm	L¹ mm	R mm
110	155	478	160	395
125	155	478	160	395
140	155	478	160	395
160	155	478	160	395
180	155	478	160	395
200	250	279	280	367
225	250	279	280	367
250	250	279	280	367
280	250	279	280	367
315	250	279	280	367
355	380	1178	400	968
400	380	1178	400	968
450	380	1178	400	968
500	380	1178	400	968
560	470	1450	560	1350
630	590	1800	600	1520

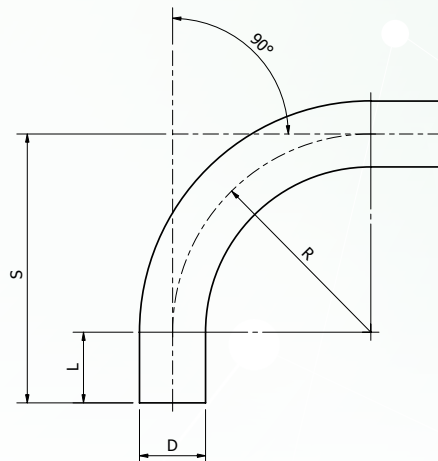
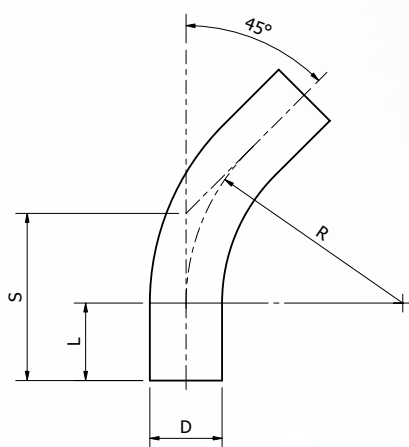
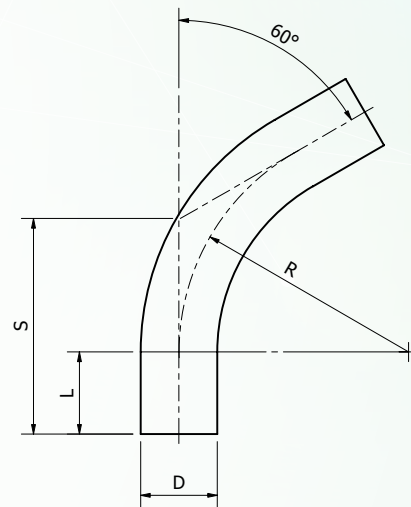
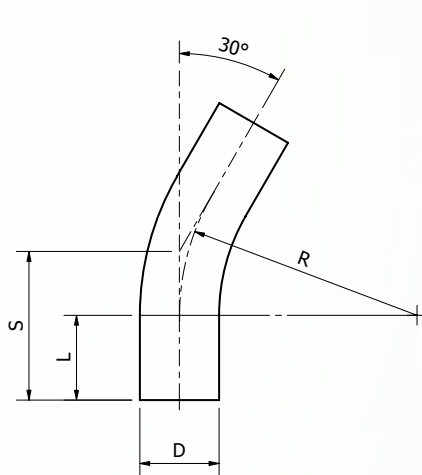
45° Bend



OD mm (D)	L mm	L¹ mm	R mm
110	155	238	395
125	155	238	395
140	155	238	395
160	155	238	395
180	155	238	395
200	250	405	637
225	250	405	637
250	250	405	637
280	250	405	637
315	250	405	637
355	380	590	968
400	380	590	968
450	380	590	968
500	380	590	968
560	470	900	1200
630	590	900	1500

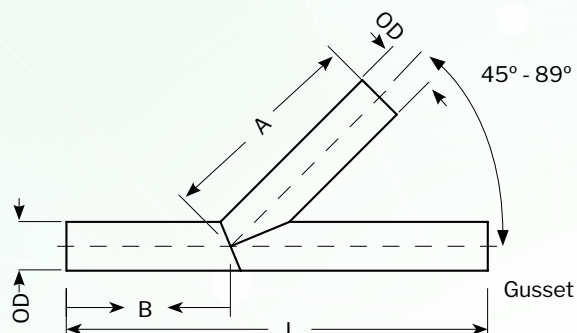
Bend Dimensions

D mm	L mm	R mm	S-30° mm	S-45° mm	S-60° mm	S-90° mm
50	80	150	127	150	176	259
63	80	189	140	168	200	305
75	80	225	151	185	223	348
90	150	270	235	276	322	472
110	150	330	254	304	360	543
125	150	375	268	325	389	597
140	175	420	307	371	443	676
160	200	480	351	424	506	772
180	200	540	370	452	544	844
200	225	600	414	505	607	940
225	270	675	483	585	700	1074
250	270	750	506	620	748	1164
280	300	840	565	692	835	1301
315	420	945	718	861	1022	1546
355	420	1065	756	917	1098	1689
400	370	1200	748	930	1134	1800
450	400	1350	826	1030	1260	2009
450	400	1350	826	1030	1260	2009



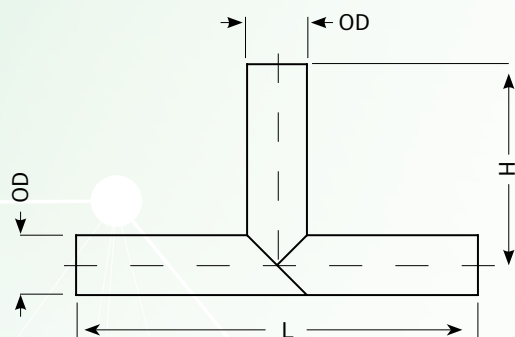
Segmented Laterals

OD mm (D)	A mm	B mm	L mm
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
900	2000	1600	4000
1000	2000	1600	4000



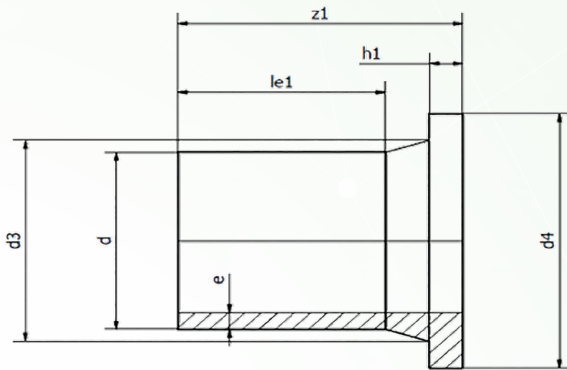
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Segmented T-Pieces



OD mm (D)	H mm	L mm
50	150	300
63	150	300
75	400	800
90	400	800
110	400	800
125	400	800
140	400	800
160	400	800
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
900	1150	2300
1000	1150	2300

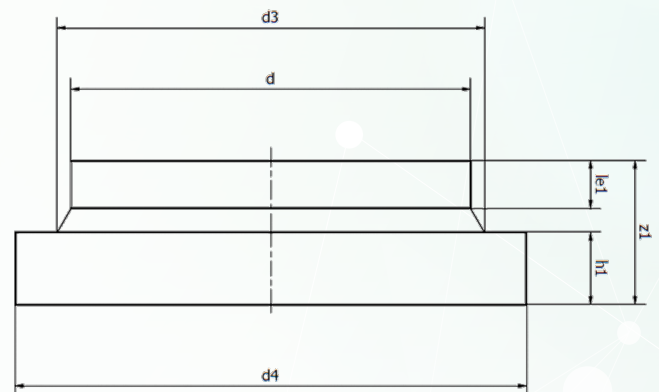
Elongated/Electrofusion HDPE Stub Dimensions



d mm	SDR mm	e mm	d3 mm	d4 mm	le1 mm	z1 mm	h1 mm
110	17	6.6	125	158	113	158	18
125	17	7.4	132	158	122	170	18
140	17	8.3	153	188	130	173	18
160	17	9.5	175	212	160	208	18
180	17	10.7	186	212	140	200	20
200	17	11.9	232	268	133	199	24
225	17	13.4	235	268	135	201	24
250	17	14.8	277	320	148	220	25
280	17	16.6	291	320	154	230	25
315	17	18.7	328	370	166	242	25
110	11	10	125	158	113	160	18
125	11	11.4	132	158	116	170	25
140	11	12.7	155	188	128	182	25
160	11	14.6	175	212	155	208	25
180	11	16.4	186	212	168	202	30
200	11	18.2	232	268	140	206	32
225	11	20.5	235	268	135	201	32
250	11	22.7	277	320	138	219	35
280	11	25.4	291	320	152	231	35
315	11	28.6	328	370	158	239	35

Butt Weld/Short Spigot HDPE Stub Dimensions

d mm	d3 mm	d4 mm	le1 mm	h1 mm	z1 mm
110	127	158	18	27	60
125	133	158	18	27	60
140	157	188	18	27	60
160	177	217	15	35	65
180	188	217	20	35	70
200	217	270	20	35	70
225	233	270	20	45	80
250	267	320	30	45	90
280	288	320	30	45	90
315	330	370	30	55	100
355	373	430	30	60	110
400	419	482	30	65	110
450	474	540	30	65	110
500	530	585	30	70	115
560	592	645	30	70	115
630*	642	685	30	70	115
630**	642	725	30	70	115
710	737	800	30	70	115
800	840	905	30	70	115
900	942	1005	30	70	120



* 630 HDPE STUB: FLANGES: SANS1123-T1000 (725 PCD); ASA 150#

** 630 HDPE STUB: FLANGES: B/S T/D; SANS1123-T1000 (780 PCD); SANS1123-T1600; SANS1123-T2500

Handling, storage and transportation

As SAPPMA members we suggest referring to the SAPPMA technical manual.

Accreditations

The latest revisions of accreditations can be found on our website or provided on request.



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