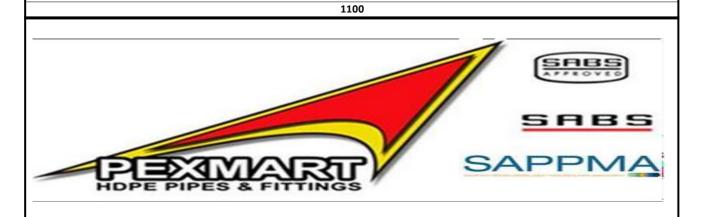


Please feel free to contact us via email: info@pexmart.com or telephonically 012 376 2347 / 012 376 0053, should you have any questions/queries or need any additional prices on quote requests.



HDPE PE100 PIPES - SABS APPROVED

SDR 7.4 - SDR 42	
PN 25 - PN 4	
16	
20	
25	
32	
40	
50	
63	
75	
90	
110	
125	
140	
160	
180	
200	
225	
250	
280	
315	
355	
400	
450	
500	
560	
630	
710	
800	
900	
1000	





BEND 90deg / 45deg







SEGMENTED BEND 90deg







STUB

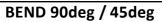














SDR 11 - SDR 9 PN 16 - PN 20
25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710





SDR 11 - SDR PN 16 - PN 2	
25	
32	
40	
50	
63	
75	
90	
110	
125	
140	
160	
180	
200	
225	
250	
280	
315	
355	
400	
450	
500	
560	
630	
710	

LATERAL / Y-PIECE



SDR 11 - SDR9 PN 16 - PN 20
25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710
800





SEGMENTED BEND 90deg



SDR 11 - SDR9
PN 16 - PN 20
25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710

SEGMENTED BEND 45deg



SDR 11 - SDR9 PN 16 - PN 20 25 32 40 50 63 75 90 110 125 140 160 180 200 225
25 32 40 50 63 75 90 110 125 140 160 180 200 225
32 40 50 63 75 90 110 125 140 160 180 200
40 50 63 75 90 110 125 140 160 180 200 225
50 63 75 90 110 125 140 160 180 200
63 75 90 110 125 140 160 180 200 225
75 90 110 125 140 160 180 200 225
90 110 125 140 160 180 200 225
110 125 140 160 180 200 225
125 140 160 180 200 225
140 160 180 200 225
160 180 200 225
180 200 225
200 225
225
250
280
315
355
400
450
500
560
630
710

SEGMENTED BEND 30deg



SDR 11 - SDR9
PN 16 - PN 20
25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710
800





STUB



SDR 26 -	
7.4 CL 6 -	
CL25	
25	
32	
40	
50	
63	
75	
90	
110	
125	
140	
160	
180	
200	
225	
250	
280	
315	
355	
400	
450	
500	
560	
630	
710	
800	
900	
1000	_

CONCENTRIC REDUCER



SDR 26-7.4
CL 6 -CL25
40-32/25
50-40/32/25
63-50/40/32
75-63/50/40
90-75/63/50
110-90/75/63/50
125-110/90/75
140-125/110/90
160-140/125/110
180-160/140/125
200-180/160/140
225-200/180/160
250-225/200/180
280-250/225/200
315-280/250/225/220
355-315/280/250/225
400-355/315/280/250
450-400/355/315/280
500-450/400/355/315
560-500
630-560
710-63
800-710
900-800
1000-900

ECENTRIC REDUCER



SDR 26 -	
7.4 CL 6 -	
CL25	
25-20	
32-25	
40-25	
40-32	
50-32	
50-40	
63-32	
63-40	
63-50	
75-50	
75-63	
90-63	
90-75	
110-63	
110-90	
125-63	
125-90	
125-110	
140-125	
160-90	
160-110	
160-125	
160-140	
180-90	
180-125	
180-160	
200-160	
200-180	
225-160	
225-180	
225-200	
250-200	
250-225	













TEE 90deg







END CAP











ELBOW 90deg



SDR 11	SDR 17	
CL16	CL10	
	25	
	32	
40		
50		
63		
75		
90		
110		
125		
140		
160		
180		
200		
225		
250		
280		
315		
355		
400		
450		
	500	

ELBOW 45deg



SDR 11	SDR 17
CL16	CL10
2.	5
37	2
40	
50	
63	
7:	5
90)
11	.0
12	5
14	.0
160	
18	0
20	0
22	5
25	0
28	0
31	5
35	5
400	
45	0
50	0

ELBOW 30deg



SDR 11 CL16	SDR 17 CL10	
7	75	
g	90	
1	10	
125		
140		
160		
180		
200		
2	25	





TEE 90deg



SDR 11	SDR 17
CL16	CL10
	25
	32
	40
	50
	63
	75
	90
	110
	125
	140
160	
180	
200	
	225
	250
	280
	315
	355
	400
450	
500	

REDUCING TEE



SDR 11		SDR 17	
CL16		CL10	
		x32	
)x63	
)x90	
		5x63	
		5x90	
		x110	
)x63	
)x75	
)x90	
	140	x110	
)x63	
	160)x75	
	160)x90	
	160	x110	
	180)x75	
	180)x90	
	180	x110	
	180	x125	
	180	x140	
	180	x160	
	200)x75	
	200)x90	
	200:	x110	
	200	x125	
	200	x160	
	225	5x63	
225x75			
	225	5x90	
	225	x110	
	225	x125	
	225	x140	
	225	x160	
	315	x250	
	315	x280	
	355	x250	
	355	x280	
	355	x315	
	400	x280	
	400	x315	
	400	x355	
	450	x400	
		x400	
	500:	x450	

TEE 45deg



SDR 11	SDR 17	
CL16	CL10	
	40	
	50	
	63	
	75	
90		
110		
125		
140		
160		
180		
200		
225		





END CAP



SDR11	SDR17
CL16	CL10
2.	5
33	2
40)
50)
6	3
7:	5
90)
11	.0
125	
140	
160	
180	
200	
225	
250	
280	
31	.5
35	5
40	10



SDR11	SDR17	
CL16	CL10	
25		
32		
40		
50		
63		
75		
90	·	
110)	
125	5	
140)	
160		
180		
200		
225		
250		
280)	
315		
355		
400		
450		
500		
560		
630		

CONCENTRIC REDUCER



SDR11	SDR17
CL16	CL10
32x2	
40x	
40x	
40x	32
50x2	25
50x2	23
50x4	40
63x	32
63x4	
63x	
75x!	
75xi	
90x	
90xi	
90x	
110x 110x	
110x	
110x	
125x	
125x	
125x	
140x	
140x	
140x	
140x:	
160x	
160x:	110
160x125	
160x	140
180x125	
180x	160
200x	125
200x	
225x	110
225x	
250x	
250x	
250x	
250x	
280x	
280x	
280x	
280x2 315x2	
315x	
315X	
355x	
355x	
355x	
400x	
400x	
400x	





ELECTROFUSION FITTINGS

COUPLING



ELBOW 90deg



RED COUPLING







MALE ADAPTOR









ELECTROFUSION FITTINGS

COUPLING



SDR 11	SDR 17
CL16	CL10
	20
	25
	32
	40
	50
	63
	75
	90
	110
	125
	140
	160
	180
200	
225	
	250
	280
315	
355	
400	
450	
500	
	560
	630
	710
	800
	900
:	1000

ELBOW 90deg



SDR 11	SDR 17	
CL16	CL10	
2	5	
32		
40		
50		
63		
75		
90		
110		
125		
140		
160		
180		
200		

ELBOW 45deg



SDR 11	SDR 17	
CL16	CL10	
3	32	
۷	10	
5	50	
ϵ	53	
75		
90		
110		
125		
140		
160		
1	80	
2	00	





ELECTROFUSION FITTINGS

RED COUPLING



SDR 11	SDR 17	
CL16	CL10	
25-2	20	
32-	20	
32-	25	
40-32		
50-32		
50-40		
63-	32	
63-	40	
63-	50	
75-	63	
90-50		
90-	63	
110-63		
110-90		
125-63		
125-90		
125-	110	
160-	-90	
160-110		
160-	125	

TEE 90deg



SDR 11	SDR 17
CL16	CL10
25	
32	
40	
50	
63	
75	
90	
110	
125	
140	
160	
180	
200	



FEMALE ADAPTOR



SDR 11	SDR 17	
CL16	CL10	
20 - 1/2		
25 - 3/4		
32-1		
40 - 1 1/4		
50 - 1 1/2		
63 - 2		
75 - 2 1/2		
90 - 3		
110 - 4		

MALE ADAPTOR



SDR 11	SDR 17	
CL16	CL10	
20 - 1/2		
25 - 3/4		
32 - 1		
40 - 1 1/4		
50 - 1 1/2		
63 - 2		
75 - 2 1/2		
90 - 3		
110 4		



160-63



GALVANIZED FLANGES

1000/3



6 0 9
25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710
800
900
1000

1600/3



25	
32	
40	
50	
63	
75	
90	
110	
125	
140	
160	
180	
200	
225	
250	
280	
315	
355	
400	
450	
500	
560	
630	
710	
800	
	•

TABLE D



25
32
40
50
63
75
90
110
125
140
160
180
200
225
250
280
315
355
400
450
500
560
630
710





COMPRESSION FITTINGS

COUPLING







MALE ADAPTOR









ELBOW 90deg









TEE 90deg













COMPRESSION FITTINGS

COUPLING



16x16	
20x20	
25x25	
32x32	
40x40	
50x50	
63x63	
75x75	
90x90	
90x90	

REDUCING COUPLING



20)x16
25	x20
32	2x20
32	2x25
40)x25
40)x32
50)x25
50)x32
50)x40
63	3x25
63	3x32
63	3x40
63	3x50
75	x50
75	5x63
90)x63
90)x75
11	0x75
11	0x90

END CAP



16
20
25
32
40
50
63
75
90
110

MALE ADAPTOR



16 x 3/8
16 x 3/8
16 x ¾
20 x 1/2
20 x ¾
20 x 1
25 x 1/2
25 x ¾
25 x 1
32 x ¾
32 x 1
32 x 1 1/4
32 x 1 ½
40 x 1
40 x 1 1/4
40 x 1 ½
40 x 2
50 x 1
50 x 1 ¼
50 x 1 ½
50 x 2
63 x 1 1/4
63 x 1 ½
63 x 2
63 x 2 ½
75 x 2
75 x 2 ½
75 x 3
90 x 2
90 x 2 ½
90 x 3
90 x 4
110 x 2
110 x 3
110 x 4

FEMALE ADAPTOR



16 x ½
16 x %
20 x 1/2
20 x ¾
20 x 1
25 x 1/2
25 x ¾
25 x 1
32 x 1/2
32 x ¾
32 x 1
32 x 1 ¼
40 x 1
40 x 1 ¼
40 x 1 ½
50 x 1 ¼
50 x 1 ½
50 x 2
63 x 1 ¼
63 x 1 ½
63 x 2
63 x 2 ½
75 x 2
75 x 2 ½
75 x 3
90 x 2
90 x 2 ½
90 x 3
90 x 4
110 x 3
110 x 4

FLANGED ADAPTOR



40 x 1½
50 x 1 ½
50 x 2
63 x 2
63 x 2½
75 x 2 ½
90 x 3
90 x 4
110 v 4

SADDLE



TAKLAMPS, VICLAMPS







COMPRESSION FITTINGS

ELBOW 90deg



16x16	
20x20	
25x25	
32x32	
40x40	
50x50	
63x63	
75x75	
90x90	
440 440	

TEE 90deg



ELBOW 90deg (MALE)



16 x 1/2
16 x ¾
20 x 1/2
20 x ¾
25 x 1/2
25 x ¾
25 x 1
32 x 1/2
32 x ¾
32 x 1
32 x 1 1/4
40 x 1
40 x 1 1/4
40 x 1 ½
50 x 1 1/4
50 x 1 ½
50 x 2
63 x 1 ½
63 x 2
63 x 2 ½
75 x 2 ½
75 x 3
90 x 3
90 x 4
110 x 4

ELBOW 90deg (FEMALE)



16 x ½
16 x ¾
20 x 1/2
20 x ¾
25 x 1/2
25 x ¾
25 x 1
32 x 1/2
32 x ¾
32 x 1
32 x 1 ¼
40 x %
40 x 1
40 x 1 ¼
40 x 1 1/2
50 x 1 1/4
50 x 1 1/2
50 x 2
63 x 1 ½
63 x 2
63 x 2 ½
75 x 2
75 x 2 ½
75 x 3
90 x 3
90 x 4
110 x 3
110 x 4

REDUCING TEE



20x16	
25x20	
32x20	
32x25	
40x25	
40x32	
50x25	
50x32	
50x40	
63x25	
63x32	
63x40	
63x50	
75x50	
75x63	
90x63	
90x75	
110x75	
11000	

TEE 90deg (MALE)



16 x ½ x 16	
16 x % x 16	
20 x 1/2 x 20	
20 x % x 20	
25 x ½ x 25	Т
25 x ¾ x 25	
25 x 1 x 25	
32 x 1/2 x 32	Т
32 x ¾ x 32	
32 x 1 x 32	
32 x 1 1/4 x 32	
40 x 1 x 40	
40 x 1 ¼ x 40	
40 x 1 ½ x 40	Ξ
50 x 1 ¼ x50	
50 x 1 ½ x50	
50 x 2 x 50	
63 x 1 ½ x 63	
63 x 2 x 63	
63 x 2 ½ x 63	
75 x 2 ½ x75	
75 x 3 x 75	Т
90 x 3 x 90	
90 x 4 x 90	
110 x 4 x 110	

TEE 90deg (FEMALE)



16 x ½ x 16	
16 x % x 16	
20 x ½ x 20	
20 x % x 20	
25 x ½ x 25	
25 x ¾ x 25	
25 x 1 x 25	
32 x ¾ x 32	
32 x 1 x 32	
32 x 1 ¼ x 32	
40 x 1 x 40	
40 x 1 % x 40	
40 x 1 ½ x 40	
50 x 1 % x 50	
50 x 1 ½ x50	
50 x 2 x 50	
63 x 1 ¼ x 63	
63 x 1 ½ x 63	
63 x 2 x 63	
63 x 2 ½ x 63	
75 x 2 x 75	
75 x 2 ½ x 75	
75 x 3 x 75	
90 x 2 ½ x 90	
90 x 3 x 90	
90 x 4 x 90	
110 x 3 x 110	
110 x 4 x 110	





MANHOLES

Manufactured according engineer drawing supplied by customer

HDPE Manholes

Polyethylene is tough! It can bend and flex with various loading conditions.

This toughness means fewer potential leaks and longer life.

Lightweight polyethylene manholes are easy to install.

Smaller pieces of equipment can be used to position these manhole's.

Inlets and outlets are correctly positioned during the manufacturing process.

These inlets and outlets are factory welded into place to be leak-free











Benefits of HDPE

HDPE is a versatile thermoplastic polymer with many performance benefits. Its overall toughness, flexibility and low temperature impact resistance make it ideal for pipe systems.

HDPE has a high resistance against acids, bases and aqueous salt-solutions and below 60°C it is practically unsolvable in organic solutions. The chemical resistance of HDPE makes it perfect for standard soil and waste systems. HDPE has a good resistance against light ionized radiation without becoming radioactive itself.

The table below lists all the benefits of the HDPE properties.

	Impact-resistant and tough	Unbreakable temperatures > 5ºC
	Elastic	Suitable for underground pipes through adjustment to local ground movement
	Thermal resistant	Application possible up to 60ºC
	Smooth internal wall	Low blockage risk due to low deposit/residue effects
S. D. D.	Wear resistant	Lower costs due to relatively long life
₩ ↓↓ ••••••••••••••••••••••••••••••••••	Weather resistant/UV resistant	Application in open air unrestricted through coloring with carbon black
	Chemical resistant	Suitable for transport of polluted waste water

	Poor heat conductivity	No condensation during short periods of cooling
PE-HD	Recyclable	Environmentally friendly
7,,,	Insulating	Non-conductive
	Highly suitable for welding	Easy installation using butt-welding and electro fusion techniques
	Homogeneous welded joints	End load resistant and leak proof
	Prefabrication	Reduces on-site installation time
	Light in weight	Cost-saving in transport and handling
_		SABS
		AFFEOVED
		SABS
HDPE PI		APPMA



HDPE-vs-PVC

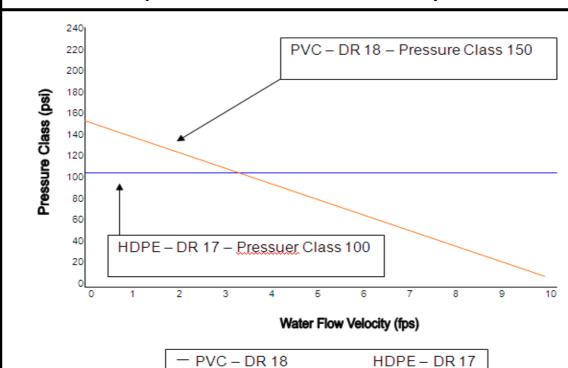
WHAT IS THE DIFFERENCE

HDPE PVC





Pressure Class Comparison for HDPE and PVC Pipes as a Function of Flow Velocity of Water



When comparing differences in a material performance characteristic, such as between HDPE and PVC, it is important to make sure that you are making an accurate and equal comparison of the same characteristics exhibited in an identical situation.

The following graphs are used to show the difference found in the pressure class performance exhibited by HDPE SDR 17 and PVC DR 18 in relation to a common occurrence found in all water distribution systems; that being fluctuations (many times sudden and significant) in the flow velocity of water. In the following graphs, the ORANGE LINE will depict PVC Pressure Class 150 pipe and the BLUE LINE will depict HDPE Pressure Rated for 100-psi operations. It is important for us to note and understand from the beginning of this comparison that the term PRESSURE CLASS does not – and never has had the same performance definition for HDPEasit does for PVC. For the purpose of providing an equitable comparison we will be referring to the WORKING PRESSURE RATING of each material in an identical system scenario.

** NOTE

In the most general sense, the WORKING PRESSURE RATING is the maximum pressure you can put a thermoplastic pipe (amorphous and semi-crystal-line) under all normal operating conditions and expect no ruptures during its service life (I.e field pressure rating, not laboratory).

HDPE pipe is a primary alternative to PVC (polyvinyl chloride) pipe for all piping applications and rapidly gaining market share for potable water, sewer, conduit and ducting, DWV (drain, waste and vent) agriculture, and ground drainage uses. Used since the 1950's, HDPE has demonstrated its effectiveness through its durability, leak-free performance, corrosion resistance, and ductility. Its greater resilience and flexibility make performance, corrosion resistance, and ductility. Its greater resilience and flexibility make it less susceptible that PVC to surges, damage from digging and shifting soils. HDPE has a much longer service life than PVC.

HDPE is also preferable to PVC as it is chlorine-free, requires fewer additives in its manufacture, and has a much higher recycling rate then PVC. Commonly referred to as vinyl, PVC is a common plastic used in a wide variety of products such a spiping, flooring, wallpaper, window frames, siding, office equipment, children's toys, and catheters. About 50% of all PVC is used for piping applications. The worst plastic from an environmental and human health perspective, PVC introduces myriad hazards throughout its lifecycle. The manufacturing of PVC creates dioxin, the most potent carcinogen known, as well as ethylene dichloride and vinyl chloride. These toxins can cause severe health problems including cancer, endocrine disruption, and neurological damage. As well as birth defects, and reproductive and immune damage.

HDPE	PVC
Chlorine – Free	Contains chlorine
No dioxin produced in manufacture	Dioxin produces and manufactured
High abrasion and chemical resistance	Moderate abrasion and chemical resistance
Less susceptible to surge shocks	More susceptible to surge shock
Seamless joint connection	Joints leak
Flexible	Rigid
High/long Service life	Short service life (starts to crumble)

Zero Leaks	Sometimes leaks
Environment friendly	Can cause severe health problems
Lightweight	Lightweight
Perfect for trench less	Breaks and cracks under ground if
Lower life cycle cost	High life cycle cost (needs to be Replaced every so often)
Chemical and corrosion resistant	Not chemical resistant and danger to your health
Low maintenance	High maintenance
Impact- resistant and tough	Breaks, cracks and crumbles

Cost

Material prices are comparable to PVC. However, material cost may not be the determining in pipe selection.

Contractors who have never used HDPE may be resistant to working with an unfamiliar material. HDPE is gaining market share and acceptance by engineers with the OKLAHOMA WATER DISTRICT HAS FOUND THAT HDPE WOULD COST LESS THAT PVC WHEN CONSIDER PROJECTED LEAKS, BREAKS, JOINT FAILURE AND ASSOCIATED WATER LOST. Also, trenchless installations can dramatically reduce both cost and environmental impact of some underground pipe projects.

Installation

Because HDPE pipe can be delivered in longer lengths, thus requiring a smaller number of joints, it has better leak resistance than PVC pipe. Also, butt fusion joint welding provides stronger, tighter, more leak proof joint than the bell and spigot or solvent glue joints used for PVC. The longer lengths of HDPE can require that longer trenches are open at one time, although its length and flexibility may allow trench less installations.

Resource Impact

HDPE pipe has a service life of 100 years and can then theoretically be recycled. Recycled HDPE has minimal impact on the environment since it keeps material out of the waste stream. The resin can be more easily recycled than almost any other plastic.

While most recyclable plastic markers are specifically tailored to post – consumer bottles, pipe manufacturer or large end user should be able to find a recycling facility that will accept their HDPE pipe.

Recycling post-consumer PVC is difficult because of its wide range of additives and formulations. It also complicated the recycling of other plastics.

