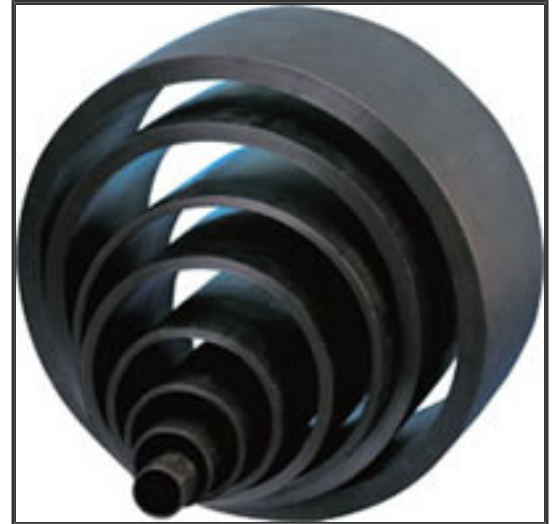


HD - PE Pipes

INTRODUCTION :

HDPE Pipes have been used for piping system in various industries primarily because of its excellent resistance to corrosive chemicals, its inherent toughness and ease of installation. HDPE pipe is definitely not substitute for conventional pipes but it is actually superior type product for many applications. The superiority of HDPE pipes are especially proven in the following properties.



- 1 Economical than traditional pipe material.
- 2 Resistance to chemicals-exceptional resistance to all external and internal corrodants.
- 3 Resistance to electrolytic corrosion.
- 4 Will not rust or rot.
- 5 Welded joints speed installation. Trench widths can be reduced which leads to saving in the cost of excavation and back filling.
- 6 Light Weight - One sixth of the weight of steel. Low specific gravity giving an outstanding light weight product for easy transportation, handling, fitting etc.
- 7 Very good thermal insulation due to low thermal conductivity.
- 8 Smooth bore provides less head loss. Flow resistance is approximately 30% less than that of conventional pipes, permitting the use of a smaller bore pipe for a given rate of flow.
- 9 Perfect stability of material obviates the risk of ageing.
- 10 Total neutrality of products conveyed.
- 11 Flame resistance classifying the materials as self extinguishing, according to test standard employed.
- 12 Low maintenance cost.
- 13 Easy to install.
- 14 Longer Life than G.I., M.S. Cement & Other Pipes.



FLEXIBLE :

Zenith pipes have a high flexural impact strength which enable them to withstand momentary, higher pressure (caused by water hammer, etc..) than their rated capacity. The flexibility of the pipes also enables them to be laid without levelling trenches since they can.

DURABLE :

Zenith pipes manufactured as per IS:4984:95 are designed for a working life of 50 years at 27oC and the rated pressure. They are designed for a stress of 50 kgf/cm² which with a safety factor of 1.3, permits a working stress of 39.5 kgf/cm². The pipe grade HDPE used includes ultraviolet absorbers, antitoxins and additives to prevent the degradation of the pipe due to weather.

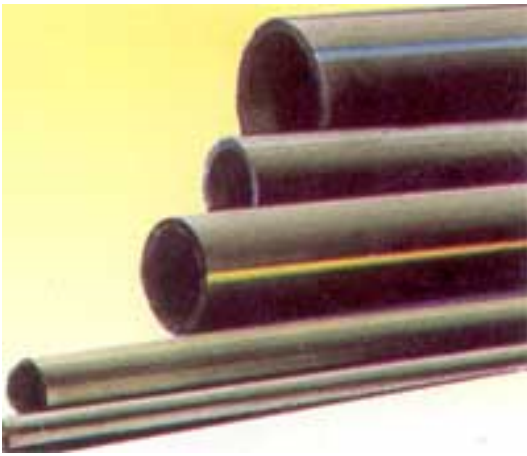
POWER-SAVING :

Encrustation is virtually nil in Jyoti pipes resulting in tremendous energy savings, since pumping cost remains the same throughout the operating span. The smoother flow results in shroter pumping times with resultant savings in electricity. It also enables a smaller dia pipe to be selected for the same flow, compared to metal pipes.

CORPOSITION-RESISTANT :

Zenith pipes are non-corrosive and are impervious to any agresive soil or water conditions. Their paraffin structure gives them a high degree of resestance to chmical attack; consequently they are insoluble in practically all chemicals at room temperatures, making them the ideal choice for chemical industries.





EASY TRANSPORTABILITY :

Zentih pipes can be extruded in any continuous length. Pipes of smaller diameters can be coiled by the kilometer while larger diameter pipes can be cut into lengths of the most economic transportable size, to be butt welded together at the installation site.

SMOOTH :

Zenith pipes have a smooth outer and inner surface. the coefficient of friction (C factor) of 150 as per Hazen Williams formula is constant throughout the life of the pipe as compared to a 'C' factor of 100 for metallic pipes.

ABRASION - RESISTANT :

The results obtained in foreign countries from many different test have shown that HDPE pipes may be included in the category of abrasion-resistant materials.

APPLICATIONS

EFFLUENTS AND WASTE WATER DISPOSAL :

Effluents of varied chemical compositions can be effectively disposed of using Zenith pipes, With the latest know-how on piping engineering, pipelines for waste collection and disposal in chemical industry. Longevity of Zenith pipes under such application would rate the best amongst the conventional pipe even under critical service conditions.



Pipe End



Sprinkler T



Reducer



Sprinkler Bend



90° Bend



Slip on flange



Equal tee



Sprinkler

DOMESTIC GAS DISTRIBUTIONS :

Earlier, with the introduction of HDPE pipes, engineers always carried a psychological fear to use HDPE pipes or rather plastic pipes for conveyance of inflammable gases. However, experiments and extensive trials proved these fears totally unfounded and established excellence of performance of HDPE pipes for conveyance of all combustible gases. Experiments have also proved that the permeability losses are insignificant in regard to safety and environmental impact.

Now a days, **Zenith** pipes are widely and effectively used for carrying natural gas, coal gas, biogas, etc.

SUBMARINE PIPELINES :

One of the most important applications where all salient features of **Zenith** pipes prominently figure out is for underwater pipelines. **Zenith** pipes have been successfully laid for underwater river crossings, creek crossings, marine outfalls and for brine intake lines in the open sea. Hazardous chemical effluents and radioactive wastes are being harmlessly disposed into deep sea through **Zenith** pipes with substantial cost savings. Schemes which would have been dropped due to economical unviability have been made feasible with **Zenith** pipes.





AGRICULTURE :

Zenith pipes are successfully meeting increasing demand from the agriculturist for flow, lift, sprinkler and drip irrigation. Apart from ease of operation, conservation of energy is a vital factor. Low-cost and highly efficient **Zenith** sprinkler system has been accepted by farmers for higher yields. **Zenith** pipes have been used for many lift irrigation schemes with the benefit of one additional crop.

Farmers use **Zenith** pipes for suction and delivery lines on their pumpsets to save energy and to get better pump efficiency.

POTABLE WATER SUPPLY:

Zenith pipes are an instant choice for water supply specialists, in rural and urban water supply schemes because of quick and speedy execution and maintenance free services. Schemes with **Zenith** pipes have almost double the life compared to schemes with conventional pipes which is an additional characteristic for making decision.

Zenith pipes only have made water supply schemes feasible in sub-zero temperatures at high altitudes of 1000-4000 mtrs as any other pipe would rupture frequently due to freezing of water. Elastic **Zenith** pipes would expand comfortably and easily as the water swells while freezing without stress-cracking and would resume normal bore when it melts regardless of the frequency of climate reaching freezing temperatures. Drought relief pipelines or dewatering schemes for flood-relief can be laid quickly using **Zenith** pipes.

HDPE Pipes – Zenith High Density Polyethylene Pipes :

PE Pipe as per ISO:4427:96

Material Grade PE 63

OD		PN 3.2		PN 4		PN 6		PN 6.3		PN 8		PN10		PN12.5		PN16	
Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16.0	16.3	-	-	-	-	-	-	-	-	-	-	2.3	2.8	2.3	2.8	2.3	2.8
20.0	20.3	-	-	-	-	-	-	-	-	2.3	2.8	2.3	2.8	2.3	2.8	2.8	3.3
25.0	25.3	-	-	-	-	2.3	2.8	2.3	2.8	2.3	2.8	2.3	2.8	2.8	3.3	3.5	4.1
32.0	32.3	-	-	-	-	2.3	2.8	2.3	2.8	2.4	2.9	2.9	3.4	3.6	4.2	4.4	5.1
40.0	40.4	-	-	2.3	2.8	2.3	2.8	2.4	2.9	3.0	3.5	3.7	4.3	4.5	5.2	5.5	6.4
50.0	50.5	-	-	2.3	2.8	2.9	3.4	3.0	3.5	3.7	4.3	4.6	5.3	5.6	6.5	6.9	8.0
63.0	63.6	2.3	2.8	2.5	3.0	3.6	4.2	3.8	4.4	4.7	5.5	5.8	6.7	7.1	8.2	8.6	9.9
75.0	75.7	2.3	2.8	2.9	3.4	4.3	5.0	4.5	5.2	5.6	6.5	6.8	7.9	8.4	9.7	10.3	11.9
90.0	90.9	2.8	3.3	3.5	4.1	5.1	6.0	5.4	6.3	6.7	7.8	8.2	9.5	10.1	11.7	12.3	14.2
110.0	111.0	3.4	4.0	4.2	4.9	6.3	7.3	6.6	7.6	8.1	9.4	10.0	11.5	12.3	14.2	15.1	17.4
125.0	126.2	3.9	4.5	4.8	5.6	7.1	8.2	7.4	8.6	9.2	10.6	11.4	13.2	14	16.1	17.1	20.5
140.0	141.3	4.3	5.0	5.4	6.3	8.0	9.2	8.3	9.6	10.3	11.9	12.7	14.7	15.7	18.4	19.2	23.0
160.0	161.5	4.9	5.7	6.2	7.2	9.1	10.5	9.5	11.0	11.8	13.6	14.6	16.8	17.9	21.2	21.9	26.2
180.0	181.7	5.5	6.4	6.9	8.0	10.2	11.8	10.7	12.4	13.3	15.3	16.4	19.6	20.1	24.1	24.6	29.5
200.0	201.8	6.2	7.2	7.7	8.9	11.4	13.2	11.9	13.7	14.7	17.0	18.2	21.8	22.4	26.8	27.4	32.8
225.0	227.1	6.9	8.0	8.6	9.9	12.8	14.8	13.4	15.5	16.6	19.9	20.5	24.5	25.2	30.2	30.8	36.9
250.0	252.3	7.7	8.9	9.6	11.1	14.2	16.4	14.8	17.1	18.4	22.0	22.7	27.2	27.9	33.4	34.2	41.0
280.0	282.6	8.6	10.0	10.7	12.4	15.9	18.3	16.6	19.9	20.6	24.7	25.4	30.4	31.3	37.5	38.3	45.9
315.0	317.9	9.7	11.2	12.1	14.0	17.9	21.4	18.7	22.4	23.2	27.8	28.6	34.3	35.2	42.2	43.1	51.7
355.0	358.2	10.9	12.6	13.6	15.7	20.1	24.2	21.1	25.3	26.1	31.3	32.2	38.6	39.7	47.6	48.5	58.1
400.0	403.6	12.3	14.2	15.3	17.6	22.7	27.3	23.7	28.4	29.4	35.2	36.3	43.5	44.7	53.6	54.7	64.6
450	454.1	13.8	15.9	17.2	20.6	25.5	30.6	26.7	32.0	33.1	39.7	40.9	49.0	50.3	60.2	61.5	71.4
500	504.5	15.3	17.6	19.1	22.9	28.3	33.9	29.7	35.6	36.8	44.1	45.4	54.4	55.8	65.7	-	-
560	565.0	17.2	20.6	21.4	25.6	31.7	38.0	33.2	39.8	41.2	49.4	50.8	60.7	-	-	-	-
630	635.7	19.3	23.1	24.1	28.9	35.7	42.8	37.4	44.8	46.3	55.5	57.2	67.1	-	-	-	-
710	716.4	21.8	26.1	27.2	32.6	40.2	48.2	42.1	50.5	52.2	62.1	-	-	-	-	-	-
800	807.2	24.5	29.3	30.6	36.7	45.3	54.3	47.4	56.8	58.8	68.7	-	-	-	-	-	-
900	908.1	27.6	33.1	34.4	41.2	51.0	60.9	53.3	63.2	-	-	-	-	-	-	-	-
1000	1009	30.6	36.7	38.2	45.8	56.6	66.5	59.3	69.2	-	-	-	-	-	-	-	-
1200	1210	36.7	44.0	45.9	55.0	-	-	-	-	-	-	-	-	-	-	-	-
1400	1410	42.9	51.3	53.5	63.4	-	-	-	-	-	-	-	-	-	-	-	-
1600	1610	49.0	58.7	61.2	71.1	-	-	-	-	-	-	-	-	-	-	-	-

Note : Pressure Rating in : Kg/cm²

Material Grade PE 80

OD		PN 6		PN 8		PN 10		PN 12.5		PN 16	
Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16.0	16.3	-	-	-	-	-	-	-	-	2.3	2.8
20.0	20.3	-	-	-	-	-	-	-	-	2.3	2.8
25.0	25.3	-	-	-	-	-	-	2.3	2.8	2.8	3.3
32.0	32.3	-	-	-	-	-	-	3.0	3.5	3.6	4.2
40.0	40.4	-	-	-	-	-	-	3.7	4.3	4.5	5.2
50.0	50.5	-	-	-	-	-	-	4.6	5.3	5.6	6.5
63.0	63.6	-	-	-	-	4.7	5.5	5.8	6.7	7.1	8.2
75.0	75.7	-	-	4.5	5.2	5.6	6.5	6.8	7.9	8.4	9.7
90.0	90.9	4.3	5.0	5.4	6.3	6.7	7.8	8.2	9.5	10.1	11.7
110.0	111.0	5.3	6.1	6.6	7.6	8.1	9.4	10.0	11.5	12.3	14.2
125.0	126.2	6.0	6.9	7.4	8.6	9.2	10.6	11.4	13.2	14.0	16.1
140.0	141.3	6.7	7.9	8.3	9.6	10.3	11.9	12.7	14.7	15.7	18.1
160.0	161.5	7.7	8.9	9.5	11.0	11.8	13.6	14.6	16.8	17.9	21.4
180.0	181.7	8.6	9.9	10.7	12.4	13.3	15.3	16.4	19.6	20.1	24.1
200.0	201.8	9.6	11.1	11.9	13.7	14.7	17.0	18.2	21.8	22.4	26.8
225.0	227.1	10.8	12.5	13.4	15.5	16.6	19.8	20.5	24.5	25.2	30.2
250.0	252.3	11.9	13.7	14.8	17.1	18.4	22.0	22.7	27.2	27.9	33.4
280.0	282.6	13.4	15.5	16.6	19.9	20.6	24.7	25.4	30.4	31.3	37.5
315.0	317.9	15.0	17.3	18.7	22.4	23.2	27.8	28.6	34.3	35.2	42.2
355.0	358.2	16.9	20.2	21.1	25.3	26.1	31.3	32.2	38.6	39.7	47.6
400.0	403.6	19.9	22.9	23.7	28.4	29.4	35.2	36.3	43.5	44.7	53.6
450	454.1	21.5	25.7	26.7	32.0	33.1	39.7	40.9	49.0	50.3	60.2
500	504.5	23.9	28.6	29.7	35.6	36.8	44.1	45.4	53.4	55.8	65.7
560	565.0	26.7	32.0	33.2	39.8	41.2	49.4	50.8	60.7	-	-
630	635.7	30.0	35.9	37.4	44.8	46.3	55.5	57.2	67.1	-	-
710	716.4	33.9	40.6	42.1	50.5	52.2	62.1	-	-	-	-
800	807.2	38.1	45.7	47.4	56.8	58.8	68.7	-	-	-	-
900	908.1	42.9	51.4	53.3	63.2	-	-	-	-	-	-
1000	1009	47.7	57.2	59.3	69.2	-	-	-	-	-	-
1200	1210	57.2	67.1	-	-	-	-	-	-	-	-
1400	1410	-	-	-	-	-	-	-	-	-	-
1600	1610	-	-	-	-	-	-	-	-	-	-

Note : Pressure Rating in : Kg/cm²

Material Grade PE 100

OD		PN 10		PN 12.5		PN 16	
Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
32.0	32.3	-	-	-	-	3.0	3.5
40.0	40.4	-	-	-	-	3.7	4.3
50.0	50.5	-	-	-	-	4.6	5.3
63.0	63.6	-	-	4.7	5.5	5.8	6.7
75.0	75.7	4.5	5.2	5.6	6.5	6.8	7.9
90.0	90.9	5.4	6.3	6.7	7.8	8.2	9.5
110.0	111.0	6.6	7.6	8.1	9.4	10.0	11.5
125.0	126.2	7.4	8.6	9.2	10.6	11.4	13.2
140.0	141.3	8.3	9.6	10.3	11.9	12.7	14.7
160.0	161.5	9.5	11.0	11.8	13.6	14.6	16.8
180.0	181.7	10.7	12.4	13.9	15.3	16.4	19.6
200.0	201.8	11.9	13.7	14.7	17.0	18.2	21.8
225.0	227.1	13.4	15.5	16.6	19.9	20.5	24.5
250.0	252.3	14.8	17.1	18.4	22.0	22.7	27.2
280.0	282.6	16.6	19.9	20.6	24.7	25.4	30.4
315.0	317.9	18.7	22.4	23.2	27.8	28.6	34.3
355.0	358.2	21.1	25.3	26.1	31.3	32.2	38.6
400.0	403.6	23.7	28.4	29.4	35.2	36.3	43.5
450.0	454.1	26.7	32.0	33.1	39.7	40.9	49.0
500.0	504.5	29.7	35.6	36.8	44.1	45.4	54.4
560.0	565.0	33.2	39.8	41.2	49.4	50.8	60.7
630.0	635.7	37.4	44.8	46.2	55.4	57.2	67.1
710.0	716.4	42.1	50.5	52.2	62.1	-	-
800.0	807.2	47.4	56.8	58.8	68.7	-	-
900.0	908.1	53.3	63.2	-	-	-	-
1000.0	1009.0	59.3	69.2	-	-	-	-

Note : Pressure Rating in : Kg/cm²

PE Pipe as per ISO:4984:95 (With Amendment)

Material Grade PE 63 - All dimension are in mm

OD		PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20.0	20.3	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.4	4.0
25.0	25.3	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.4	4.0	4.2	4.9
32.0	32.3	-	-	-	-	2.3	2.8	3.0	3.5	3.6	4.2	4.4	5.1	5.4	6.2
40.0	40.4	-	-	2.0	2.4	2.8	3.3	3.7	4.3	4.5	5.2	5.5	6.3	6.7	7.6
50.0	50.5	-	-	2.4	2.9	3.5	4.1	4.6	5.3	5.6	6.4	6.8	7.7	8.4	9.5
63.0	63.6	2.0	2.4	3.0	3.5	4.4	5.1	5.8	6.6	7.0	7.9	8.6	9.7	10.5	11.8
75.0	75.7	2.3	2.8	3.6	4.2	5.3	6.1	6.9	7.8	8.4	9.5	10.2	11.5	12.5	14.0
90.0	90.9	2.8	3.3	4.3	5.0	6.3	7.2	8.2	9.3	10.0	11.2	12.2	13.7	15.0	16.7
110.0	111.0	3.4	4.0	5.3	6.1	7.7	8.7	10.0	11.2	12.3	13.8	14.9	16.6	18.4	20.5
125.0	126.2	3.8	4.4	6.0	6.8	8.8	9.9	11.4	12.8	13.9	15.5	16.9	18.8	20.9	23.2
140.0	141.3	4.3	5.0	6.7	7.6	9.8	11.0	12.8	14.3	15.6	17.4	19.0	21.1	23.4	26.0
160.0	161.5	4.9	5.6	7.7	8.7	11.2	12.6	14.6	16.3	17.8	19.8	21.7	24.1	26.7	29.6
180.0	181.7	5.5	6.3	8.6	9.7	12.6	14.1	16.4	18.3	20.0	22.2	24.4	27.1	30.0	33.2
200.0	201.8	6.1	7.0	9.6	10.8	14.0	15.6	18.2	20.3	22.3	24.8	27.1	30.1	33.4	37.0
225.0	227.1	6.9	7.8	10.8	12.1	15.7	17.5	20.5	22.8	25.0	27.7	30.5	33.8	37.5	41.5
250.0	252.3	7.6	8.6	12.0	13.4	17.5	19.5	22.8	25.3	27.8	30.8	33.8	37.4	41.7	46.1
280.0	282.6	8.5	9.6	13.4	15.0	19.6	21.8	25.5	28.3	31.2	34.6	37.9	41.9	46.7	51.6
315.0	317.9	9.6	10.8	15.0	16.7	22.0	24.4	28.7	31.8	35.0	38.7	42.6	47.1	52.5	58.0
355.0	358.2	10.8	12.1	17.0	18.9	24.8	27.5	32.3	35.8	39.5	43.7	48.0	53.0	59.2	65.4
400.0	403.6	12.2	14.3	19.1	22.2	28.0	32.4	36.4	42.8	44.5	51.4	54.1	62.5	-	-
450.0	454.1	13.7	16.0	21.5	25.0	31.4	36.4	41.1	47.4	50.0	57.7	-	-	-	-
500.0	504.5	15.2	17.7	23.9	27.7	34.9	40.4	45.5	52.6	55.6	64.2	-	-	-	-
560.0	565.0	17.0	19.8	26.7	31.0	39.1	45.2	51.0	58.9	-	-	-	-	-	-
630.0	635.7	19.1	22.2	30.0	34.7	44.0	50.8	57.3	66.1	-	-	-	-	-	-
710.0	716.4	21.6	25.1	33.9	39.2	49.6	57.3	-	-	-	-	-	-	-	-
800.0	807.2	24.3	28.2	38.1	44.1	55.9	64.5	-	-	-	-	-	-	-	-
900.0	908.1	27.3	31.6	42.9	49.6	-	-	-	-	-	-	-	-	-	-
1000.0	1009.0	30.4	35.2	47.7	55.1	-	-	-	-	-	-	-	-	-	-

Note : Pressure Rating in : Kg/cm²

Material Grade PE 80 - All dimension are in mm

OD		PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20.0	20.3	-	-	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3
25.0	25.3	-	-	-	-	-	-	-	-	2.3	2.8	2.8	3.3	3.5	4.1
32.0	32.3	-	-	-	-	-	-	2.4	2.9	3.0	3.5	3.6	4.2	4.5	5.2
40.0	40.4	-	-	-	-	2.3	2.8	3.0	3.5	3.7	4.3	4.5	5.2	5.6	6.4
50.0	50.5	-	-	2.3	2.8	2.9	3.4	3.8	4.4	4.6	5.3	5.6	6.4	6.9	7.8
63.0	63.6	-	-	2.5	3.0	3.6	4.2	4.7	5.4	5.8	6.6	7.0	7.9	8.7	9.8
75.0	75.7	-	-	2.9	3.4	4.3	5.0	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90.0	90.9	2.3	2.8	3.5	4.1	5.1	5.9	6.7	7.6	8.2	9.3	10.0	11.2	12.5	14.0
110.0	111.0	2.7	3.2	4.3	5.0	6.3	7.2	8.2	9.3	10.0	11.2	12.3	13.8	15.2	17.0
125.0	126.2	3.1	3.7	4.9	5.6	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140.0	141.3	3.5	4.1	5.4	6.2	8.0	9.0	10.4	11.7	12.8	14.3	15.6	17.4	19.4	21.6
160.0	161.5	4.0	4.6	6.2	7.1	9.1	10.3	11.9	13.3	14.6	16.3	17.8	19.8	22.1	24.6
180.0	181.7	4.4	5.1	7.0	7.9	10.2	11.5	13.4	15.0	16.4	18.3	20.0	22.2	24.9	27.6
200.0	201.8	4.9	5.6	7.7	8.7	11.4	12.8	14.9	16.6	18.2	20.3	22.3	24.8	27.6	30.6
225.0	227.1	5.5	6.3	8.7	9.8	12.8	14.3	16.7	18.6	20.5	22.8	25.0	27.7	31.1	34.5
250.0	252.3	6.1	7.0	9.7	10.9	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	34.5	38.2
280.0	282.6	6.9	7.8	10.8	12.1	15.9	17.7	20.8	23.1	25.5	28.3	31.2	34.6	38.7	42.8
315.0	317.9	7.7	8.7	12.2	13.7	17.9	19.9	23.4	26.0	28.7	31.8	35.0	38.7	43.5	48.1
355.0	358.2	8.7	9.8	13.7	15.3	20.1	22.4	26.3	29.2	32.3	35.8	39.5	43.7	49.0	54.1
400.0	403.6	9.8	11.5	15.4	18.0	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4	55.2	63.7
450.0	454.1	11.0	12.9	17.4	20.3	25.5	29.6	33.4	38.7	41.0	47.7	50.0	57.7	-	-
500.0	504.5	12.2	14.3	19.3	22.4	28.4	32.9	37.1	42.9	45.5	52.6	55.6	64.2	-	-
560.0	565.0	13.7	16.0	21.6	25.1	31.7	36.7	41.5	48.0	51.0	58.9	-	-	-	-
630.0	635.7	15.4	18.0	24.3	28.2	35.7	41.3	46.7	54.0	57.3	66.1	-	-	-	-
710.0	716.4	17.4	20.3	27.4	31.8	40.2	46.5	52.6	60.7	-	-	-	-	-	-
800.0	807.2	19.6	22.8	30.8	35.7	45.3	52.3	-	-	-	-	-	-	-	-
900.0	908.1	22.0	25.5	34.7	40.2	51.0	58.9	-	-	-	-	-	-	-	-
1000.0	1009.0	24.4	28.3	38.5	44.5	56.7	65.5	-	-	-	-	-	-	-	-

Note : Pressure Rating in : Kg/cm²

Material Grade PE 100 - All dimension are in mm

OD		PN 6		PN 8		PN 10		PN 12.5		PN 16	
Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness		Wall Thickness			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20.0	20.3	-	-	-	-	-	-	-	-	2.3	2.8
25.0	25.3	-	-	-	-	-	-	2.3	2.8	2.9	3.4
32.0	32.3	-	-	-	-	2.4	2.9	2.9	3.4	3.7	4.3
40.0	40.4	-	-	2.4	2.9	3.0	3.5	3.7	4.3	4.6	5.3
50.0	50.5	2.3	2.8	3.0	3.5	3.7	4.3	4.6	5.3	5.7	6.5
63.0	63.6	2.9	3.4	3.8	4.4	4.7	5.4	5.7	6.5	7.1	8.1
75.0	75.7	3.5	4.1	4.5	5.2	5.6	6.4	6.8	7.7	8.5	9.6
90.0	90.9	4.1	4.8	5.4	6.2	6.7	7.6	8.2	9.3	10.2	11.5
110.0	111.0	5.0	5.7	6.6	7.5	8.1	9.2	10.0	11.2	12.4	13.9
125.0	126.2	5.7	6.5	7.5	8.5	9.2	10.4	11.3	12.7	14.1	15.8
140.0	141.3	6.4	7.3	8.4	9.5	10.3	11.6	12.7	14.2	15.8	17.6
160.0	161.5	7.3	8.3	9.6	10.8	11.8	13.2	14.5	16.2	18.1	20.2
180.0	181.7	8.2	9.3	10.8	12.1	13.3	14.9	16.3	18.2	20.3	22.6
200.0	201.8	9.1	10.3	12.0	13.4	14.8	16.5	18.1	20.2	22.6	25.1
225.0	227.1	10.3	11.6	13.5	15.1	16.6	18.5	20.4	22.7	25.4	28.2
250.0	252.3	11.4	12.8	15.0	16.7	18.4	20.5	22.6	25.1	28.2	31.3
280.0	282.6	12.8	14.3	16.8	18.7	20.6	22.9	25.3	28.1	31.6	35.0
315.0	317.9	14.4	16.1	18.9	21.0	23.2	25.8	28.5	31.6	35.5	39.3
355.0	358.2	16.2	18.1	21.2	23.6	26.2	29.1	32.1	35.6	40.0	44.2
400.0	403.6	18.2	21.2	23.9	27.7	29.5	34.2	36.2	41.9	45.1	52.1
450.0	454.1	20.5	23.8	26.9	31.2	33.1	38.3	40.7	47.7	50.8	58.7
500.0	504.5	22.8	26.5	29.9	34.6	36.8	42.6	45.2	52.2	56.4	65.1
560.0	565.0	25.5	29.6	33.5	38.8	41.2	47.6	50.6	58.4	-	-
630.0	635.7	28.7	33.3	37.7	43.6	46.4	53.6	56.9	65.7	-	-
710.0	716.4	32.3	37.4	42.4	49.0	52.3	60.4	-	-	-	-
800.0	807.2	36.4	42.1	47.8	55.2	58.9	68.0	-	-	-	-
900.0	908.1	41.0	47.4	53.8	62.1	-	-	-	-	-	-
1000.0	1009.0	45.5	52.6	-	-	-	-	-	-	-	-

Note : Pressure Rating in : Kg/cm²