Sudesh Group

APLAPOLLO®
Tubes for every reason

HDPE Pipes

- Light weight, strong, long lasting and maintenance free
- Flexible & smaller diameter pipes
- Chemically inert and resistant
- Overall toughness
- Longevity

Apollo Pipes Ltd.

Email: info@apollopipes.com | Web: www.apollopipes.com

1800-121-3737
011-43334000

Products: CPVC PIPES & FITTINGS | uPVC PLUMBING SYSTEM | PRESSURE PIPES & FITTINGS | SWR DRAINAGE SYSTEM | COLUMN PIPES | WELL CASING PIPES | HDPE PIPES | SPRINKLER SYSTEM

About **Apollo Pipes**

APOLLO PIPES LTD. is the key group company of Sudesh Group. The company has an enriching experience of decades in manufacturing pipes and related products for all purposes. With a manufacturing plant having 20 extrusion lines and producing 60,000 tonnes of polymers annually, APOLLO PIPES LTD. has the largest manufacturing unit at a single location under one roof in North India. APOLLO PIPES LTD. business activities are focused on development, manufacturing and distribution of Plastic Piping Systems under the brand name of APL APOLLO.

APOLLO PIPES have plants located at Dadri, Sikandrabad (Uttar Pradesh) and Ahmedabad (Gujarat). The plants use flexible manufacturing techniques, greener technologies and modern machinery. We strictly follow the national and international standards while manufacturing all kinds of CPVC Pipes and Fittings, uPVC Plumbing System, uPVC SWR Piping Systems, uPVC Pressure Pipes and Fittings, Elastomeric (Ring Fit Pipes), Column Pipes, uPVC Well Casing Pipes, HDPE Pipes, Sprinkler System and Cable Ducts.

HDPE Pipes

APL Apollo Pipes manufactures a wide range of Polyethylene pipes, High Density (HDPE) conforming to various standards viz., BIS, BS, DIN & ISO to name a few.

Polyethylene is a thermo plastic polymer consisting of long chains of ethylene or ethane. It is a wax like thermoplastic with density varying from 934.0kg/m³ to 960.0kg/m³ which is less than the density of water. The only two additives that are added to polyethylene are Carbon Black, within the range limit of 2-3% in order to add reinforcement and to increase polyethylene's weathering properties and trace amounts of anti-oxidant.

HDPE is strongly resistant to stress cracking and has low creep rupture properties. It has excellent insulation properties over a wide range of frequencies and is not chemically active. HDPE pipes are one of the two largest thermoplastic pipelines available and by far the most versatile.

The Pipes & Fittings are offered in PE 63, PE 80 and PE 100 grades, compliance to IS-4984

Application

- Drinking water supply systems
- Telecom pipes
- Gas pipes
- Sewerage

Features & Benefits

Features

- Light weight
- Flexible
- Chemical resistance
- Overall toughness
- Longevity

Benefits

- Light weight, strong, long lasting and maintenance free
- Flexible due to inherent elasticity and can be supplied joint less in long lengths of up to 100 m, particularly the smaller diameter pipes
- Tough due to high flexural and impact strength
- Capable of with standing high internal and external loads by balancing internal fluid pressure with external soil pressure
- Chemically inert and resistant to chemicals and hostile corrosive soil
- Strongly resistant to acids, as well as alkalis and can be laid in marshy and corrosive soils without any coating or cathode based protection
- Highly resistant to abrasion and suitable for transportation of slurry, boiler ash, ores, beach sands, etc.
- Highly efficient as insulating media and requires minimal insulation while carrying chilled water
- Offers very low frictional resistance to fluid flow and saves pumping energy costs
- Remains free from encrustation throughout its life span and provided uniform flow throughout
- Easy weld ability ensures quick joining by most reliable Butt Fusion techniques
- Physiologically harmless as the pipes are tasteless, odourless and cause no bacterial growth. Suitable for transportation of potable water

Standard Dimension Ratio (SDR) and Corresponding Wall Thickness (e) of Pipes (As Per IS-4984: 2016)

(Clauses 7.4 and E -4.3)

SDR	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6	
PE 63	PN 2		PN2.5		PN3.2		PN 4		PN 5		PN 6		PN 8							
PE 80	PN2.5		PN3.2		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20	
PE 100	PN 3		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20			
Nominal OD																				
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16															1.8	2.1	2.2	2.5	2.7	3.1
20													1.9	2.2	2.3	2.6	2.7	3.1	3.4	3.8
25											1.9	2.2	2.3	2.6	2.8	3.2	3.4	3.8	4.2	4.7
32									1.9	2.2	2.4	2.7	2.9	3.3	3.6	4.1	4.4	4.9	5.4	6
40							1.9	2.2	2.4	2.7	3	3.4	3.7	4.2	4.5	5.1	5.4	6	6.7	7.5
50					2	2.3	2.4	2.7	3	3.4	3.7	4.2	4.6	5.2	5.6	6.3	6.8	7.6	8.4	9.3
63					2.5	2.9	3	3.4	3.7	4.2	4.7	5.3	5.8	6.5	7	7.8	8.6	9.6	10.5	11.7
75	1.9	2.2	2.3	2.6	2.9	3.3	3.6	4.1	4.5	5.1	5.6	6.3	6.9	7.7	8.4	9.3	10.2	11.3	12.5	13.9
90	2.2	2.5	2.8	3.2	3.5	4	4.3	4.8	5.3	5.9	6.7	7.5	8.2	9.1	10	11.1	12.2	13.5	15	16.6
110	2.7	3.1	3.4	3.8	4.3	4.8	5.9	6.6	6.5	7.3	8.1	9	10	11.1	12.3	13.6	14.9	16.5	18.4	20.3
125	3.1	3.5	3.8	4.3	4.8	5.4	6	6.7	7.4	8.2	9.2	10.2	11.4	12.7	13.9	15.4	16.9	18.7	20.9	23.1
140	3.5	4	4.3	4.8	5.4	6	6.7	7.5	8.3	9.2	10.3	11.4	12.8	14.2	15.6	17.3	19	21	23.4	25.8
160	3.9	4.4	4.9	5.5	6.2	6.9	7.7	8.6	9.5	10.6	11.8	13.1	14.6	16.2	17.8	19.7	21.7	24	26.7	29.5
180	4.4	4.9	5.5	6.2	7	7.8	8.6	9.6	10.6	11.8	13.3	14.7	16.4	18.1	20	22.1	24.4	26.9	30	33.1
200	4.9	5.5	6.1	6.8	7.7	8.6	9.6	10.7	11.8	13.1	14.7	16.3	18.2	20.1	22.3	24.6	27.1	29.9	33.4	36.8
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12	13.3	14.7	16.6	18.4	20.5	22.7	25	27.6	30.5	33.7	37.5	41.4
250	6.1	6.8	7.6	8.5	9.7	10.8	12	13.3	14.7	16.3	18.4	20.3	22.8	25.2	27.8	30.7	33.8	37.3	41.7	46
280	6.9	7.7	8.5	9.5	10.8	12	13.4	14.8	16.5	18.3	20.6	22.8	25.5	28.2	31.2	34.4	37.9	41.8	46.7	51.5
315	7.7	8.6	9.6	10.7	12.2	13.5	15	16.6	18.6	20.6	23.2	25.6	28.7	31.7	35	38.6	42.6	47	52.5	57.9
355	8.7	9.7	10.8	12	13.7	15.2	16.9	18.7	20.9	23.1	26.1	28.8	32.3	35.6	39.5	43.6	48	52.9	59.2	65.2
400	9.8	10.9	12.2	13.5	15.4	17	19.1	21.1	23.6	26.1	29.5	32.6	36.4	40.1	44.5	49.1	54.1	59.6	66.7	73.5
450	11	12.2	13.7	15.2	17.3	19.1	21.5	23.8	26.5	29.3	33.1	36.5	40.9	45.1	50	55.1	60.9	67.1	75	82.6
500	12.2	13.5	15.2	16.8	19.3	21.3	23.9	26.4	29.5	32.6	36.8	40.6	45.5	50.2	55.6	61.3	67.6	74.5	83.4	91.8
560	13.7	15.2	17	18.8	21.6	23.9	26.7	29.5	33	36.4	41.2	45.4	50.9	56.1	62.3	68.6	75.7	83.4	93.4	102.8
630	15.4	17	19.1	21.1	24.3	26.8	30	33.1	37.1	40.9	46.4	51.1	57.3	63.1	70	77.1	85.2	93.8	105	115.6
710	17.3	19.1	21.6	23.9	27.3	30.1	33.9	37.4	41.8	46.1	52.2	57.5	64.6	71.2	78.9	86.9	96	105.7	118.4	130.3
800	19.5	21.6	24.3	26.8	30.8	34	38.1	42	47.1	51.9	58.9	64.9	72.8	80.2	88.9	97.9	108.2	119.1		
900	22	24.3	27.3	30.1	34.7	38.3	42.9	47.3	53	58.4	66.2	72.9	81.9	90.2	100	110.1	121.7	134		
1000	24.4	26.9	30.3	33.4	38.5	42.5	47.7	52.6	58.9	64.9	73.6	81.1	90.9	100.1	111.2	122.4				
1200	29.3	32.3	36.4	40.1	46.2	50.9	57.2	63	70.6	77.8	88.3	97.2	109.1	120.1						
1400	34.1	37.6	42.5	46.9	53.9	59.4	66.7	73.5	82.4	90.7	103	113.4								
1600	39	43	48.5	53.5	61.6	67.9	76.2	83.9	94.2	103.7	117.7	129.6								
1800	43.9	48.4	54.6	60.2	69.3	76.3	85.8	94.5	105.9	116.6										
2000	48.8	53.8	60.6	66.8	77	84.8	95.3	104.9	117.7	129.6										

NOTES

1. Tolerances calculated from (0.1 + 0.1) mm rounded up to the next 0.1 mm
2. All pressure ratings are calculated at 27*C and rounded up to nearest pressure class
3. Considering operational problems, maximum wall thickness of pipes are considered around 130 mm

*All dimensions are in millimeters

Wall Thickness of Pipes for Material Grade PE 63 (As Per IS-14333: 1996)

(Clause 6.2)

All dimensions in millimetres

Nominal Dia	Wall Thickness of Pipes for Pressure Ratings of													
	PN2.5		PN 4		PN 6		PN 8		PN 10		PN12.5		PN 16	
DN	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
63			4	4.6	5.8	6.6	7.5	8.5	9	10.1	10.9	12.2	13.3	14.9
75	3	3.5	4.7	5.4	6.9	7.8	8.9	10	10.8	12.1	13	14.5	15.8	17.6
90	3.6	4.2	5.7	6.5	8.2	9.3	10.6	11.9	12.9	14.4	15.6	17.4	19	21.1
110	4.4	5.1	6.9	7.8	10	11.2	13	14.5	15.8	17.6	19	21.1	23.2	25.8
125	5	5.7	7.9	8.9	11.4	12.8	14.8	16.5	17.9	19.2	21.6	24	26.4	29.3
140	5.6	6.4	8.8	9.9	12.8	14.3	16.5	18.4	20	22.2	24.2	26.9	29.5	32.7
160	6.4	7.3	10	11.2	14.6	16.3	18.9	21	22.9	25.4	27.6	30.6	33.7	37.3
180	7.2	8.2	11.3	12.7	16.4	18.3	21.2	23.6	25.8	28.6	31.1	34.5	37.9	41.9
200	8	9	12.5	14	18.2	20.3	23.6	26.2	28.6	31.7	34.5	38.2	42.2	46.7
225	9	10.1	14.1	15.8	20.5	22.8	26.5	29.4	32.32	35.7	38.8	42.9	47.4	52.4
250	10	11.2	15.7	17.5	22.8	25.3	29.5	32.7	35.8	39.6	43.2	47.8	52.7	58.2
280	11.2	12.6	17.5	19.5	25.5	28.3	33	36.5	40	44.2	48.3	53.4		
315	12.6	14.1	19.7	21.9	28.7	31.8	37.1	41.1	45	49.7	54.4	60.1		
355	14.2	15.9	22.2	24.7	32.3	35.8	41.8	46.2	50.8	56.1				
400	16	18.6	25	29	36.4	42.1	47.1	54.4	57.2	66				
450	18	20.9	28.2	32.7	41	47.4	53	61.2						
500	20	23.2	31.3	36.2	45.5	52.6								
560	22.4	26	35	40.5	51	58.9								
630	25.2	29.2	39.4	45.6	57.3	66.1								
710	28.4	32.9	44.4	51.3										
800	32	37	50	57.7										
900	36	41.6	56.3	65										
1000	40	46.2												

*All dimensions are in millimeters

Wall Thickness of pipes for material grade PE 80 (As Per IS-14333: 1996)

(Clause 6.2)

All dimensions in millimetres

Nominal Dia	Wall Thickness of Pipes for Pressure Ratings Of													
	PN 2.5		PN 4		PN 6		PN 8		PN 10		PN 12.5		PN 16	
DN	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
63	_	_	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	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	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	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	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	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	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	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	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	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	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	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	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	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	12.2	14.3	19.1	22.2	28.0	32.4	36.4	42.1	44.5	51.4	54.1	62.5		
450	13.7	16. 0	21.5	25 . 0	31.4	36.4	41.0	47.4	50 . 0	57.7				
500	15.2	17.7	23.9	27.7	34.9	40.4	45.5	52.6	55.6	64.2				
560	17 0	19.8	26.7	31. 0	39.1	45.2	51.0	58.9						
630	19.1	22.2	30.0	34.7	44.0	50.8	57.3	66.1						
710	21.6	25.1	33.9	39.2	49.6	57.3								
800	24.3	28.2	38.1	44.1	55.9	64.5								
900	27.3	31.6	42.9	49.6										
1,000	30.4	35.2	47.7	55.1										

*All dimensions are in millimeters

Wall Thickness of pipes for material grade PE 100 (As Per IS-14333: 1996)

(Clause 6.2)										
All dimensions in millimetres										
Nominal Dia	Wall Thickness of Pipes for Pressure Ratings Of									
	PN 6		PN 8		PN 10		PN 12.5		PN 16	
DN	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	2	3	4	5	6	7	8	9	10	11
63	3.6	4.2	4.7	5.4	5.8	6.6	7	7.9	8.7	9.8
75	4.3	5	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	5.1	5.9	6.7	7.6	8.2	9.3	10	11.2	12.5	14
110	6.3	7.2	8.2	9.3	10	11.2	12.3	13.8	15.2	17
125	7.1	8.1	9.3	10.5	11.4	12.8	13.9	15.5	17.3	19.3
140	8	9	10.4	11.7	12.8	14.3	15.6	17.4	22.1	21.6
160	9.1	10.3	11.9	13.3	14.6	16.3	17.8	19.8	24.9	24.6
180	10.2	11.5	13.4	15	16.4	18.3	20	22.2	27.6	27.6
200	11.4	12.8	14.9	16.6	18.2	20.3	22.3	24.8	31.1	30.6
225	12.8	14.3	16.7	18.6	20.5	22.8	25	27.7	34.5	34.5
250	14.2	15.9	18.6	20.7	22.8	25.3	27.8	30.8	38.7	42.8
280	15.9	17.7	20.8	23.1	25.2	28.3	31.2	34.6	43.5	48.1
315	17.9	19.9	23.4	26	28.7	31.8	35	38.7	49	54.1
355	20.1	22.4	26.3	29.8	32.3	35.8	39.5	43.7	55.2	63.7
400	22.7	26.4	29.7	34.4	36.4	42.1	44.5	51.4		
450	25.5	29.6	33.4	38.7	41	47.4	50	57.7		
500	28.4	32.9	37.1	42.9	45.5	52.6	55.6	64.2		
560	31.7	36.7	41.5	48	51	58.9				
630	35.7	41.3	46.7	54	57.3	66.1				
710	40.2	46.5	52.6	60.7						
800	45.3	52.3								
900	51	58.9								
1,000	56.7	65.5								

*All dimensions are in millimeters

HDPE Pipes As Per IS:4984-1995

Accessories (NIPPLES)
32 MM - 90 MM

PE-63
1/2" - 12"

PE-80
1/2" - 12"

HDPE Pipes As Per IS:4984-1995

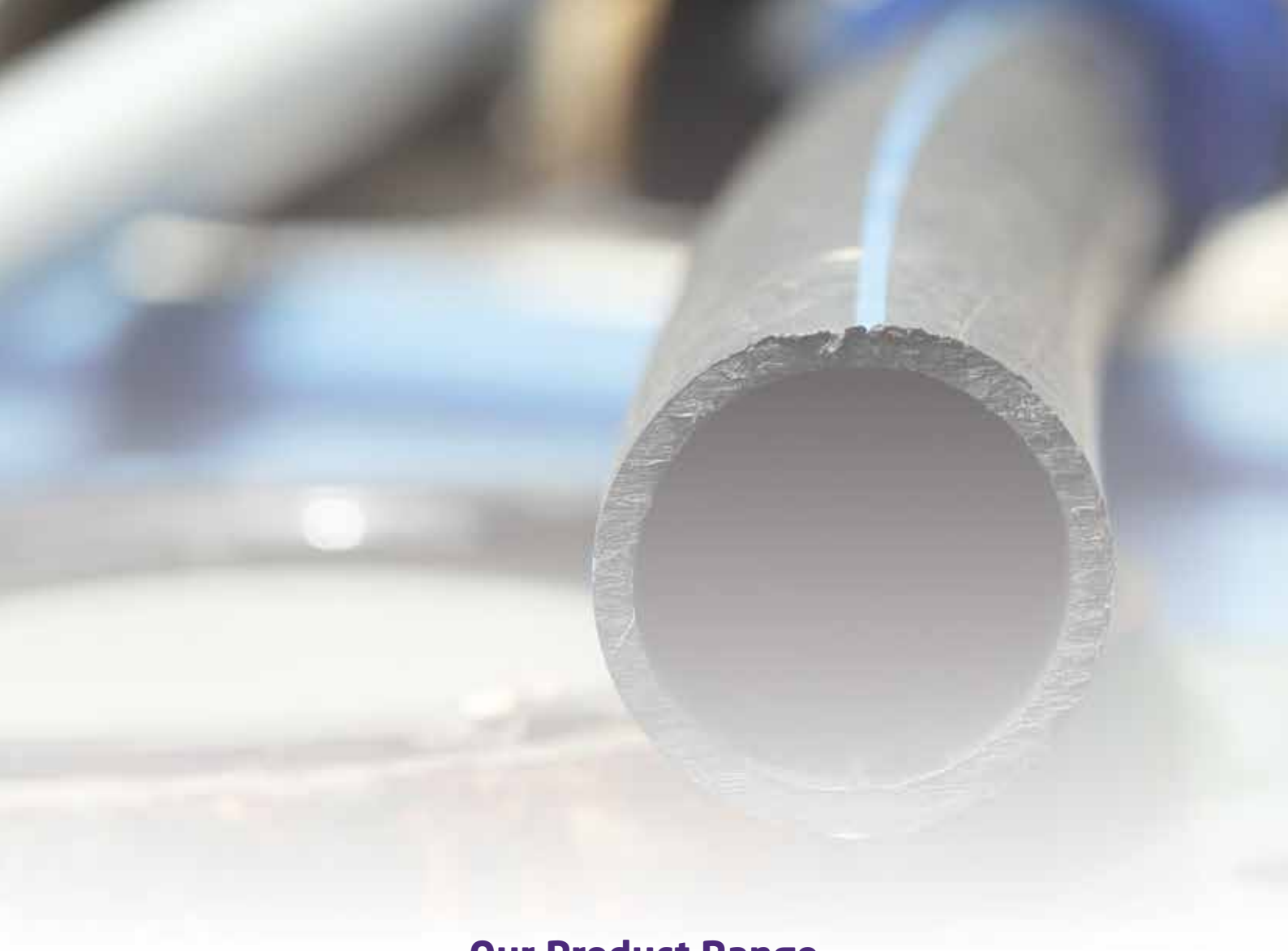
PE-100
1/2" - 12"

HDPE Pipes As Per IS:14333-1996

PE-63
2" - 12"

PE-80
2" - 12"

PE-100
2" - 12"



Our Product Range

CPVC Pipes & Fittings : APL Apollo CPVC Pipes & Fittings (as per ASTM D-1784, ASTM D-2846, ASTM F-439, ASTM F-441, ASTM F-438 & ASTM F-493) is a safe, long lasting and cost-effective solution for hot and cold water. This system is suitable for all plumbing and potable water application.

uPVC Plumbing System : APL Apollo uPVC Plumbing System (as per ASTM D-1785 & ASTM D-2467) being lead-free and non-toxic is favourable for carrying potable water. It is used for high pressure water distribution plumbing in residential, commercial and industrial buildings.

Pressure Pipes & Fittings : These pipes and fittings are used in variety of applications like irrigation , water supply, industrial process line, swimming pools, fire fightning, etc.

SWR Drainage System : APL Apollo uPVC SWR Piping System (as per IS:14735-99 & IS:13592-92) is an easy & economical product, ideal for drainage of soil waste and rain water application in residential, commercial and Industrial buildings.

Column Pipes : APL Apollo Column Pipes are manufactured for borewell / submersible pumps which offer many advantages like-light weight, high tensile load capacity, leak-proof joints and long life with economy and hence, emerges as the best option for conventional metal pipes.

Well Casing Pipes : APL Apollo uPVC Well Casing Pipes an ideal preference for applications like protection of domestic, irrigation, industrial and mining borewells.

Sprinkler System : APL Apollo Sprinkler System (as per IS:14151) is suitable for almost all field crops like wheat , gram, pulses as well as vegetables, cotton, soya bean, tea, coffee and other fodder crops, Suitable for residential, industrial, hotel, resorts, public & government enterprises, golf links, race courses, etc.

Apollo Pipes Ltd.
37, Hargobind Enclave, Vikas Marg, New Delhi - 110092
Email: info@apollopipes.com | Web: www.apollopipes.com
1800-121-3737
011-43334000