



POLYPIPES & FITTINGS

An ISO 9001:2008 Certified Company

PRODUCT CATALOGUE

done

plumbing pipes

ribbed screen pipes

hdpe & mdpe pipes

swr pipes & fittings

a one POLYPIPES & FITTINGS

lead free UPVC pipes

casing pipes

column / submersible pipes



About Us

A-One Polypipes and Fittings Ltd. Set up operations in 2011 to cater to the Water Management Solutions in the fields of Irrigation, Water Distribution and Sewage Disposable Systems to extend support to the dynamic infrastructure sector in the fast growing Indian economy, . Today, with a full range of Pipes & Fittings, A-One is an ISO 9001:2015 incorporated concern certified by ISL. We are one of the most emerging brands in the Piping & Water Management Industry in Eastern India, having been awarded 5 licenses for IS 4985:2000, IS 12818:2010, IS 13592:1992, IS 1024:2009 & IS 14182:1994 by the Bureau of Indian IS 4984:2016 Standards Coupled with ICL Certification.

The impeccable guidance, dynamic leadership, knowledge and visionary steps of the directors have placed “A-One” in the manufacturing and marketing Industry in no time. As aptly we call ourselves as “A-One”, we have the paramount position as an entity. We have maintained the synonym of our brand through a wide range of pro to market, best quality products for irrigation, building & construction, industrial piping and effluent piping purposes. These products are the standard line-up only, whereas, we do customize products as per our customers' requirements. The strengths that bring our clients closer to us are

Advanced manufacturing unit using latest technology;

Team of highly trained and experienced professionals;

Timely delivery of best in class, quality and durable products.

The Directors and the key technical professionals of A-One Polypipes & Fittings Private Limited are continuously steering the concern to its success, with strong support from their customers.



Vision

We visualize to become the premier brand in the Industry through knowledge and constant innovation in the industrial, domestic, agricultural, infrastructural, and water management areas. We seek our customers' satisfaction to be the benchmark of our success; and their confidence and association to be our testimony.

Product Range



Fresh Range of Quality Water Management Solutions

A-One Polypipes and Fittings (P) Limited is gaining a firm recognition in the market by offering the entire gamut of products with a resourceful line-up of Grey Agricultural Pipes & Fabricated Fittings, Plumbing Pipes, Ribbed Screen Pipes, Casing Pipes, SWR Pipes & Fittings, and Column/Submersible Pipes, and its r customers' requirements.



Our range of products has the special application areas of underground Water Distribution, underground Cable Laying, Drinking water distribution in housing, soil, waste discharge and rain water system. We have the ideal answer for soil, waste and vent lines when compared to Cast Iron and Asbestos Cement Drainage Systems. Apart from these, our products are used in varied urban infrastructure, like in the drinking water lines and drainage systems for homes, offices, hotels, industries, hospitals as well as public places such as airports, railway stations, bus-stand etc. The other areas of applications are agriculture and irrigation, conduit of duct for cables, conveyance of fluids, venting systems, sewerage and industrial effluent disposal, bore-well and tubewells, conveyance of abrasive slurries, plumbing, transportation of acids, alkalis and other corrosive chemicals, and many more.

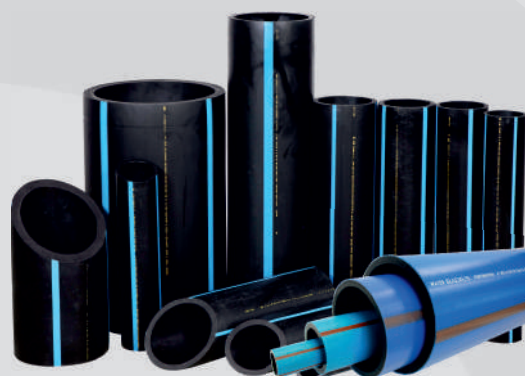
Applications

HDPE & MDPE Pipes



We offer both High Density (HDPE) and Medium Density (MDPE) piping solutions for municipal, industrial, marine, mining, gas transportation, cable ducting and agricultural applications. Like most plastic pipes, PE pipes are light in weight, have a long life, are leak proof and are abrasion resistant. These pipes are strongly resistant to stress cracking and have low creep rupture properties. They also have excellent insulation properties and are not chemically active. Hence, they can be used for all types of areas - above ground, surface, buried and floating. Further, these pipes can carry potable water, waste water, slurries, chemicals, hazardous wastes, cables and oils. HDPE Pipes are also used in telecommunications industry and in sprinkler irrigation systems.

PE Products are available in sizes ranging from 16mm to 315mm in PE 63, PE 80 and PE 100 grades conforming to national and international specifications like IS 4984:2016, ISO 4427, ISO 4437, IS 14151 (Pt. 1 & 2) and EN 12201



UPVC Pipes & Fittings for Potable Water Supplies



These pipes are mainly used in the area of agriculture and irrigation. Further these are the medium or means of pipes for the cables, coupled with application like, ease of fluid transit, venting systems, sewerage and industrial waste disposal. Bore-well, usage for Plumbing activities, Transportation of acids, alkalis and other corrosive chemicals, Ground water transportation for land irrigation, Rainwater harvesting are the other major areas of work, where the Grey Agri Pipes & Fabricated Fittings come in handy.



PLUMBING PIPES

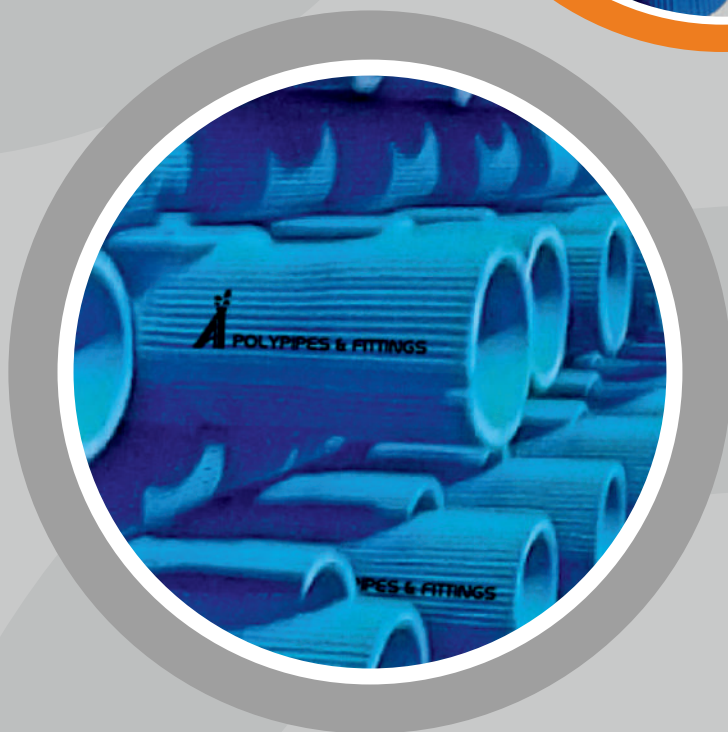


The central application areas of these kinds of pipes are both domestic and industrial sectors, These are the Cold water plumbing application in buildings, Industrials process lines, Swimming pools, Salt water lines, Water distribution mains, Dye plants, chrome, zinc plating and tanning plants, Coal washing and handling, and Pipes for hand pumps.



RIBBED SCREEN Pipes

These pipes are provided with V shape ribs on its exterior surface. Special design of this structure with fine slots provided on pipe prevents entry of even small particles of sand and soil. These pipes are generally used in combined wells, tube wells and bore wells or used for specific formation, where normal screen pipes do not work. Mainly used in Granulated soil as these pipes have longitudinal ribs and transverse slots.



CASING Pipes

These pipes are manufactured with one end of the pipe as male threaded whereas; other end is female threaded socket. Threads are either V or trapezoid type and protection caps are provided on the threads to protect the threads in transit. Three types of pipes i.e., Shallow Well (C.S.) Medium Well (C.M.) and Deep Well (C.D.) are available. Shallow Well pipes can be used for depths up to 80 metres, Medium Well pipes can be used up to 250 metres. Deep well pipe can be used upto 450 metres.



SWR Pipes & FITTINGS

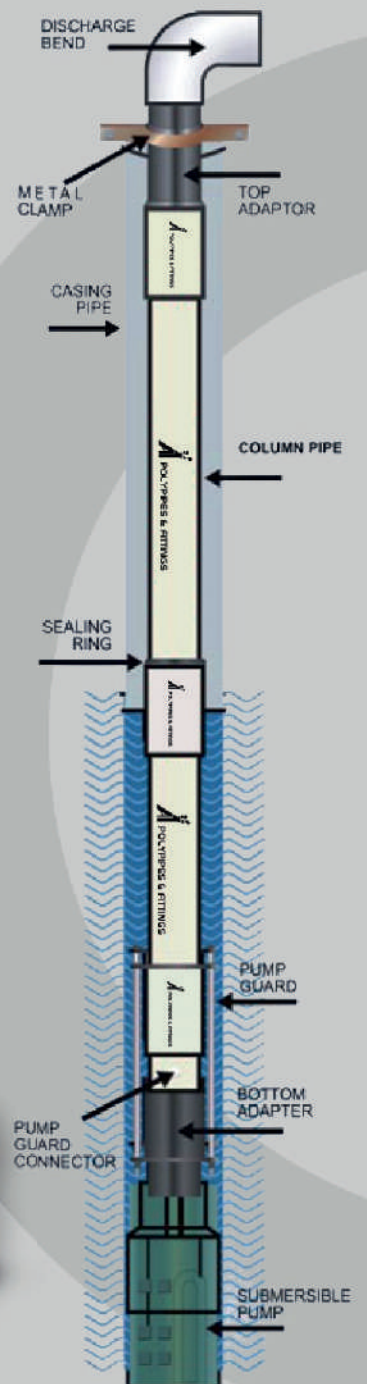


Used for soil, waste discharge and rain water system, including all types of drainage. SWR Drainage systems are for homes, offices, hotels, industries; hospitals as well as public places such as airports, railway stations, bus-stand etc. Tougher and economical PVC SWR Pipes & Fittings & Pipes are the ideal solution for soil, waste and vent lines when compared to Cast Iron and Asbestos Cement Drainage Systems. These are used for overflow lines and chemical waste lines at industries, dairy plants, food processing plants etc. including vent lines in drainage systems and in mining pits.



Column / Submersible Pipes

Column / Submersible Pipes are being successfully used in the erection of submersible borehole pumps up to depth of 1000 feet. It has a unique locking system of the pipe and coupler assembly, in which the coupler and pipe are locked together by a strong adhesive around the threads to ensure that during installation and removal of pumps the joint does not open up, resulting in column slippage.



WATER TANKS

A-One Water tanks are the latest addition to the company's product range. These tanks are being manufactured from pure virgin prime grade raw material that adhere to USFDA norms for drinking water storage. Moulded in modern designs from a state of the art manufacturing facility, our tanks are anti bacterial, anti fungus, odour free, corrosion resistant and have completely UV stabilised outer layer. Multilayer foam tanks offer the advantage of insulation which makes the water inside the tank relatively much cooler than the outside temperature. Apart from the most common usage of drinking water storage, these may also be used as underground tanks or for storage of items like food grains and milk.



1000L



500L



750L

Special Grade of Raw Materials | Seamless Construction | Latest Manufacturing Technique
100% UV Stabilized | Lightweight & Durable | Low Maintenance | Long Lasting Life

Quality Policy

Quality excellence is the foundation of our products and the cornerstone of our goal of customer satisfaction. Therefore, it is our policy to:

- Consistently provide products services that not only meet the standard quality, but also exceed the expectations of our customers, resulting in Customer Delight
- Actively pursue ever-improving quality through programs that enable each employee to do his or her job right at the first time
- Meet the statutory and regulatory requirements
- Constantly evolve our Quality Management Systems to provide continuing suitability and effectiveness



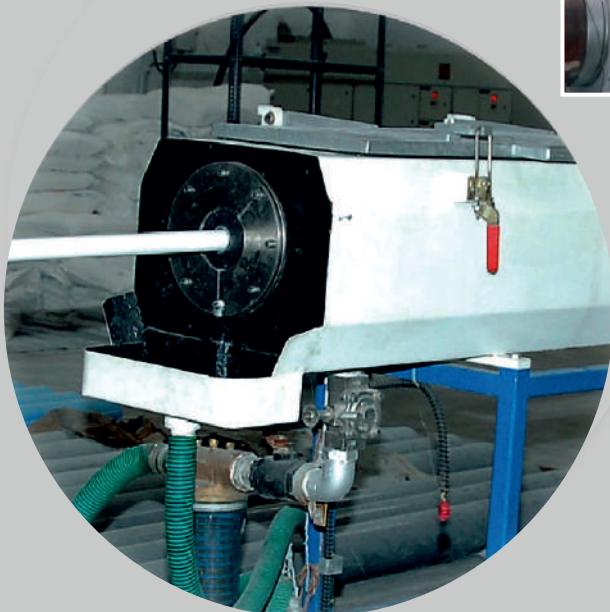
Infrastructure

By infrastructure ,we mean the layout, technology , process, and the cross-section inside view of the design engineering , and the Human Resource Allocation , which are supporting the manufacturing process of concerned product from the scratch to market worthy final stage.

A-One Poly pipes & Fittings Private Limited have the state-of-art infrastructure abreast with the most modern machinery and equipments.

The Manufacturing Plant is located at Chinsurah , West Bengal, 45 Kms from Kolkata , the capital city of West Bengal. The Plant is built on a sprawling 5.25 acres of area has over 50000 sq.ft of covered shed area housing 4 extrusion plants and 1 rotomoulding plant and allied modern machinery.

This Facility also houses independent work-stations for quality control, R&D and logistics management ,with a natural reservoir in the production area to store rain water and help maintaining the ground water level. The plant has production capacity of 1800 MT of PVC Pipes" to 3600 MT for PVC pipes and fittings, 1440 MT for HDPE pipes and fittings and 250 MT for Water tanks per annum. The infrastructure activity activity generates direct and indirect employment to about 60 people. It is yet another modern plant in the line up of industrial growth with well equipped laboratory, capable test confirming to various testing parameters.



Specification of HDPE & MDPE Pipes

Standard Dimension Ratio (SDR) and Corresponding Wall Thickness of HDPE Pipes (IS 4984:2016)

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	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	-	-	-
PE 80	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	-
PE 100	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 20
Nominal OD	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
16	-	-	-	-	-	-	-	1.8	2.2	2.7
20	-	-	-	-	-	-	1.9	2.3	2.7	3.4
25	-	-	-	-	-	1.9	2.3	2.6	3.4	4.2
32	-	-	-	-	1.9	2.4	2.9	3.6	4.4	5.4
40	-	-	-	1.9	2.4	3.0	3.7	4.5	5.4	6.7
50	-	-	2.0	2.4	3.0	3.7	4.6	5.6	6.8	8.4
63	-	-	2.5	3.0	3.7	4.7	5.8	7.0	8.6	10.5
75	1.9	2.3	2.9	3.6	4.5	5.6	6.9	8.4	10.2	12.5
90	2.2	2.8	3.5	4.3	5.3	6.7	8.2	10.0	12.2	15.0
110	2.7	3.4	4.3	5.9	6.5	8.1	10.0	12.3	14.9	18.4
125	3.1	3.8	4.8	6.0	7.4	9.2	11.4	13.9	16.9	0.9
140	3.5	4.3	5.4	6.7	8.3	10.3	12.8	15.6	19.0	23.1
160	3.9	4.9	6.2	7.5	9.5	11.3	14.6	17.8	21.7	24.7
180										
200	4.4	5.5	7.0	8.6	10.6	13.3	16.4	20.0	24.4	30.0
225	4.9	6.1	7.7	9.6	11.8	14.7	18.2	22.3	27.1	33.4
250	5.5	6.9	8.7	10.5	13.3	16.6	20.5	25.0	30.5	37.5
	6.1	7.6	9.7	12.0	14.7	18.4	22.8	27.8	33.8	41.7

Specification PLUMBING Pipes

Dimension and Pressure Rating of uPVC Pipes as per ASTM D - 1785

Inside Diameter in inch	Inside Diameter in mm	Outside Diameter in mm	Schedule 40		Pressure Rating in bar	Schedule 80		Pressure Rating in bar
			Wall thickness in mm			Wall thickness in mm		
			Min	Max		Min	Max	
1/2"	15	21.2	2.8	3.3	20.5	3.7	4.2	29
3/4"	20	26.6	2.9	3.4	16.5	3.9	4.4	23
1"	25	33.3	3.4	3.9	15.5	4.6	5.1	22
1 1/4"	32	42.0	3.6	4.1	12.5	4.9	5.4	18
1 1/2"	40	48.1	3.7	4.2	11.5	5.1	5.7	16
2"	50	60.2	3.9	4.4	9.5	5.5	6.2	14
2 1/2"	65	72.8	5.2	5.8	10.5	7.0	7.9	15
3"	80	88.7	5.5	6.2	9.0	7.6	8.5	13
4"	100	114.1	6.0	6.7	7.5	8.6	9.6	11
5"	125	141.0	6.6	7.3	6.5	9.5	10.7	9.7
6"	150	168.0	7.1	8.0	6.0	11.0	12.3	9.7
8"	200	218.7	8.2	9.2	5.5	12.7	14.2	8.3
10"	250	272.7	9.3	10.4	4.9	15.1	16.9	8.3
12"	300	323.4	10.3	11.6	4.5	17.5	20.5	7.6

Specification RIBBED SCREEN Pipes

Dimension of uPVC Ribbed Screen as per IS 12818 : 2010 Pipes

Nominal Diameter in mm	Inside Diameter in mm	Outer Diameter in mm		RMS (Ribbed Medium Screen)			RDS (Ribbed Deep Screen)		
				OD Over Connection	Wall Thickness		OD Over Connection	Wall Thickness	
		Min	Max		Min	Max		Min	Max
1 1/2"	40	52.0	52.2	56.0	3.5	4.0	-	-	-
2"	50	64.0	64.2	69.0	4.0	4.6	-	-	-
3"	80	92.0	92.3	98.0	4.0	4.6	-	-	-
4"	100	117.0	117.3	124.0	5.0	5.7	129.0	7.0	7.9
4 1/2"	115	129.0	129.3	136.0	5.0	5.7	141.0	7.5	8.5
5"	125	144.0	144.4	154.0	6.5	7.3	156.0	8.0	9.0
6"	150	169.0	169.4	182.0	7.5	8.5	184.0	9.5	10.7
7"	175	204.0	204.5	219.0	8.8	9.8	221.0	11.8	13.6
8"	200	229.0	229.5	247.0	10.0	11.2	251.0	13.0	14.8
10"	250	284.0	284.5	302.0	12.5	14.0	309.0	16.0	17.6
12"	300	334.0	334.6	356.0	14.5	16.2	363.0	19.0	21.0

Specification CASING Pipes

Dimension of uPVC Ribbed Screen Pipes as per IS 12818:2010											
Nominal Diameter in inch	Inside Diameter in mm	Minimum Outer Diameter in mm	CM (Medium Casing)			CS (Shallow Casing)			CD (Deep Casing)		
			OD over Connection	Wall Thickness		OD over Connection	Wall Thickness		OD over Connection	Wall Thickness	
				Min	Max		Min	Max		Min	Max
1 1/2"	40	48	52	3.5	4.0	-	-	-	-	-	-
2"	50	60	65	4.0	4.6	-	-	-	-	-	-
3"	80	88	94	4.0	4.6	-	-	-	-	-	-
4"	100	113	120	5.0	5.7	-	-	-	125	7.0	7.9
4 1/2"	115	125	132	5.0	5.7	-	-	-	137	7.5	8.5
5"	125	140	150	6.5	7.3	-	-	-	152	8.0	9.0
6"	150	165	178	7.5	8.5	174	5.7	6.5	180	9.5	10.7
7"	175	200	215	8.8	9.8	211	7.0	7.8	217	11.8	13.6
8"	200	225	243	10.0	11.2	238	7.6	8.8	247	13.0	14.8
10"	250	280	298	12.5	14.0	292	9.6	11.0	304	16.0	17.6
12"	300	330	352	14.5	16.2	346	11.2	13.3	359	19.0	21.0

Specification Grey Agri Pipes

Dimension of uPVC Pipes as per IS 4985:2000											
Outside Diameter in mm	Tolerance on Outside Diameter	Class - 1 2.5kgf/cm ²		Class - 2 4.0kgf/cm ²		Class - 3 6.0kgf/cm ²		Class - 4 8.0kgf/cm ²		Class - 5 10.0kgf/cm ²	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	+0.3	-	-	-	-	-	-	-	-	1.1	1.5
25	+0.3	-	-	-	-	-	-	1.2	1.6	1.4	1.8
32	+0.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2
40	+0.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7
50	+0.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3
63	+0.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1
75	+0.3	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9
90	+0.3	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7
110	+0.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1
125	+0.4	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0
140	+0.5	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9
160	+0.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2
180	+0.6	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4
200	+0.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7
225	+0.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3
250	+0.8	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9
280	+0.9	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8
315	+1.0	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9

Specification SWR Pipes

Dimension of uPVC SWR Pipes (in mm) as per IS : 13592								
Nominal Outer Diameter	Mean Outer Diameter		Outer Diameter At Any Point		Wall thickness in mm			
	Min	Max	Min	Max	Type A		Type B	
					Min	Max	Min	Max
75	75.0	75.3	74	75	1.8	2.2	3.2	3.8
110	110.0	110.4	108	111	2.2	2.7	3.2	3.8
160	160.0	160.5	158	162	3.2	3.8	4.0	4.6





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& FITTINGS
PRIVATE LIMITED**

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