



captain[®]



AN ISO 9001 : 2008 CERTIFIED COMPANY

General Catalogue



► Irrigation Systems

CAPTAIN POLYPLAST LTD.

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► Pipes & Fittings

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► Submersible Pumps

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GROUP PROFILE

Our history

Captain Polyplast Ltd., We are a pioneer in manufacturing of advanced micro irrigation technologies in India. Our irrigation systems which include drip irrigation systems and sprinkler irrigation systems are produced from advanced German and Israel machines. Our testing laboratory complements our manufacturing facilities to ensure the best quality products. Our focus on good quality irrigation systems and agronomical services made "CAPTAIN" a reputed brand in domestic and international market.

Captain Pipes Ltd., We are a manufacturer of quality solutions for water supply and distribution. Our manufacturing capacity of 15000 metric tons per annum includes fully integrated and automatic German and Japanese technologies. Our in house laboratory ensures that our products conform to the quality standard of IS and ASTM.

Captain Engineering Pvt. Ltd., We design and manufacture world-class water pumping solutions with high energy efficiency and long durability. Our RnD department constantly updates design of pumps and motor for improving their operating characteristics.

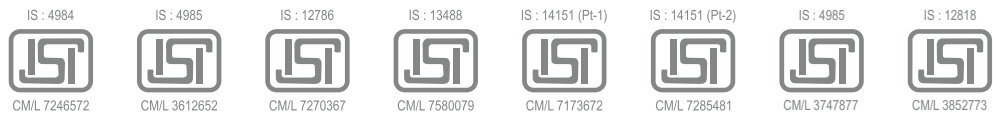
Our Vision

We firmly believe that our success depends on our valuable customers and members of our company. We strive to create maximum value for our customers by providing them the most innovative and quality products for their needs. We always create an environment of trust, respect, and healthy relationship within our company campus. With this emphasis on our customers and members of our company we wish to make "CAPTAIN" the most trusted brand in domestic and international market.

Our Group Achievements

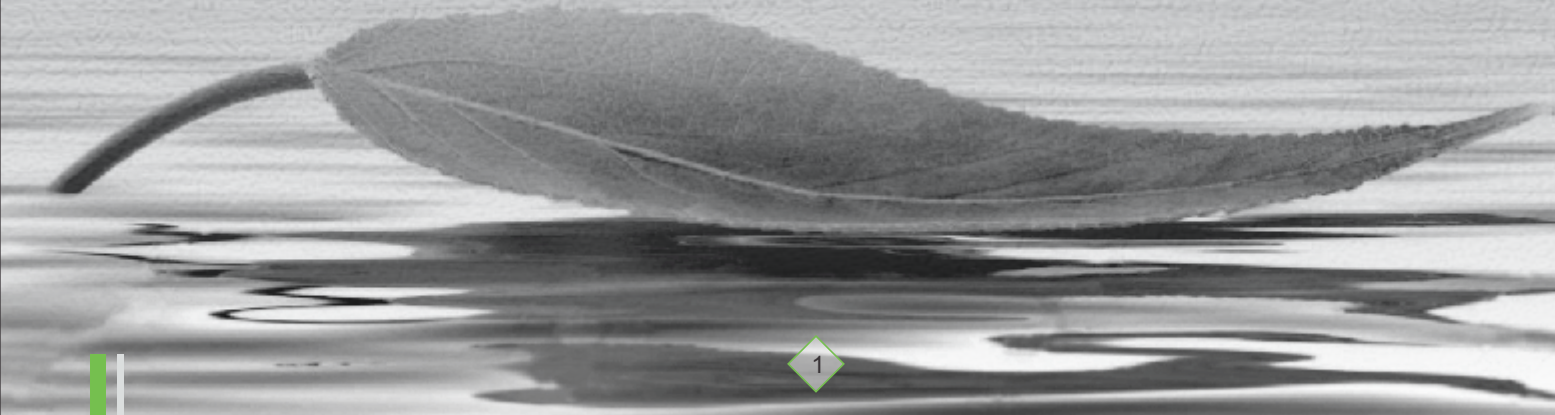
Due to our best quality and good services we have achieved lots of honour and awards at the state level as well as national levels.

- Indira Gandhi Priyadarshini Award (2008)
- Udyog Patra Award (2008)
- National Award 2008 for Quality Product in micro and small Enterprises (Plastic Extruded Products)



INDEX

01	Table of Contents	01	02	Drip Irrigation Systems	03 - 04	03	Sprinkler Irrigation Systems	05
04	Mini Sprinkler Irrigation Systems	06	05	uPVC Column Pipes	08 - 09	06	uPVC Pressure Pipes	11
07	uPVC Agri Fittings	12	08	Solvent Cement	13	09	uPVC Plumbing Pipes	15
10	uPVC Plumbing Fittings	16 - 17	11	CPVC Plumbing Pipes	19	12	CPVC Plumbing Fittings	20 - 22
13	Submersible Pump Sets	24 - 25						





IRRIGATION SYSTEMS



DRIP IRRIGATION SYSTEMS

We offer superior quality drip irrigation system. owing to the dependency of India agriculture on water for the purpose of irrigation. With traditional flood irrigation farmers are able to irrigate only a part of their valuable cultivated land, therefore at this juncture our product comes to wide usage. We provide the best and controlled irrigation to the cultivated land of the farmers through the most economical way of water management. Our drip irrigation system includes ISI marked Mainline, Submainlines, integral drip lines Lateral, Dripper and is supported by a wide range of fittings to suit various conditions resulting in long life of our product. Our drip irrigation system is operated through ISI marked Screen/Disc filters. Drip Irrigation System also provides best quality of gravel/sand/hydro cyclone filter that is supported by heavy duty quarter turn polypropylene Ball valves.

CAPTAIN Slim is Integrated with dripper along with thin wall tube. Captain slim used for seasonal crops and give maximum safety to crops. The Captain slim run long duration with accurate and uniform irrigation. Captain slim useful for all vegetables. row crops, nursery & green houses. Captain slim is better option for irrigation.

Advantages of drip irrigation

- High water application efficiency
- Minimized fertilizer/nutrient loss due to localized application and reduced leaching
- Leveling of the field not necessary
- Ability to irrigate irregular shaped fields
- Allows safe use of recycled water
- Moisture within the root zone can be maintained at field capacity
- Soil type plays less important role in frequency of irrigation
- Minimized soil erosion
- Highly uniform distribution of water i.e., controlled by output of each nozzle
- Lower labor cost
- Variation in supply can be regulated by regulating the valves and drippers
- Fertigation can easily be included with minimal waste of fertilizers
- Foliage remains dry thus reducing the risk of disease
- Operates at lower pressure than other types of pressurized irrigation, reducing energy costs
- Available in different dripper spacing
- Available in different wall thickness
- Available in different discharges
- Easy installation & low maintenance
- Filter is very precise and stops sand particles from entering into dripper



Product Name : Emitting Pipe (Dripline)
Range : 12, 16 and 20mm O.D. dia with spacing of 20 cm to 150 cm
and discharge of 2, 3 and 4 LPH in class I, II, III & IV
Standards : IS 13488 : 2008
Applications : In Drip Irrigation Systems for close spacing crops

Product Name : Irrigation Lateral
Range : Dia : 12mm, 16mm, 20mm, 25mm and 32mm OD in Class I, II & III
Standards : IS 12786 : 1989
Applications : For Drip and Mini Sprinkler Irrigation System

Product Name : Online Emitters
Range : 2, 4 & 8 LPH
Standards : IS 13487 : 1992
Applications : On Drip Irrigation System for horticulture and wide spacing crop





DRIP IRRIGATION SYSTEMS

TECHNICAL PARAMETERS

Thinwall dripslim with flat dripper

Captain Thin wall 16mm (2,3 & 4 Liter/Hr)								Captain Thin wall 16mm (2,3 & 4 Liter/Hr)							
Sr. No.	Dripper Spacing (Cm)	Packing (Meter / Roll)	Thickness		Diameter (mm)		Max. Pressure (Bar)	Sr. No.	Dripper Spacing (Cm)	Packing (Meter / Roll)	Thickness		Diameter (mm)		Max. Pressure (Bar)
			mil	Micron	Inner	Outer					mil	Micron	Inner	Outer	
1	20	2500	8 mil	0.203	16.1	16.5	1.2	26	20	600	24 mil	0.609	16.1	17.32	2
2	30	2500		0.203	16.1	16.5	1.2	27	30	600		0.609	16.1	17.32	2
3	40	2500		0.203	16.1	16.5	1.2	28	40	600		0.609	16.1	17.32	2
4	50	2500		0.203	16.1	16.5	1.2	29	50	600		0.609	16.1	17.32	2
5	60	2500		0.203	16.1	16.5	1.2	30	60	600		0.609	16.1	17.32	2
6	20	2000	10 mil	0.254	16.1	16.6	1.5	31	20	500	30 mil	0.750	16.1	17.6	2
7	30	2000		0.254	16.1	16.6	1.5	32	30	500		0.750	16.1	17.6	2
8	40	2000		0.254	16.1	16.6	1.5	33	40	500		0.750	16.1	17.6	2
9	50	2000		0.254	16.1	16.6	1.5	34	50	500		0.750	16.1	17.6	2
10	60	2000		0.254	16.1	16.6	1.5	35	60	500		0.750	16.1	17.6	2
11	20	1500	15 mil	0.381	16.1	16.85	1.8	36	20	500	36 mil	0.900	16.1	17.9	2
12	30	1500		0.381	16.1	16.85	1.8	37	30	500		0.900	16.1	17.9	2
13	40	1500		0.381	16.1	16.85	1.8	38	40	500		0.900	16.1	17.9	2
14	50	1500		0.381	16.1	16.85	1.8	39	50	500		0.900	16.1	17.9	2
15	60	1500		0.381	16.1	16.85	1.8	40	60	500		0.900	16.1	17.9	2
16	20	1000	18 mil	0.457	16.1	17.01	1.9	41	20	500	40 mil	1.000	16.1	18.1	2
17	30	1000		0.457	16.1	17.01	1.9	42	30	500		1.000	16.1	18.1	2
18	40	1000		0.457	16.1	17.01	1.9	43	40	500		1.000	16.1	18.1	2
19	50	1000		0.457	16.1	17.01	1.9	44	50	500		1.000	16.1	18.1	2
20	60	1000		0.457	16.1	17.01	1.9	45	60	500		1.000	16.1	18.1	2
21	20	800	20 mil	0.508	16.1	17.12	2								
22	30	800		0.508	16.1	17.12	2								
23	40	800		0.508	16.1	17.12	2								
24	50	800		0.508	16.1	17.12	2								
25	60	800		0.508	16.1	17.12	2								

Emitting Pipes As Per IS 13488 : 2008

Outside Diameter (mm)	Tolerance on Inside Diameter (mm)	Wall Thickness (mm)											
		Class - 1			Class - 2			Class - 3			Class - 4		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
12	0.20	0.40	0.50	0.45	0.60	0.70	0.65	0.80	1.00	0.90	1.10	1.30	1.20
16	0.20	0.50	0.60	0.55	0.70	0.90	0.80	1.00	1.20	1.10	14.30	1.50	1.40
20	0.20	0.70	0.80	0.75	0.90	1.10	1.00	1.20	1.40	1.30	1.50	1.70	1.60

PE Pipes for irrigation Lateral As Per IS 12786 : 1989

Outside Diameter (mm)	Tolerance on Inside Diameter (mm)	Wall Thickness of Pipe in (mm)								
		Class - 1			Class - 2			Class - 3		
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
12	0.30	1.00	1.20	1.10	1.10	1.30	1.20	1.40	1.60	1.50
16	0.30	1.20	1.40	1.30	1.40	1.60	1.50	1.80	2.00	1.90
20	0.30	1.30	1.50	1.40	1.50	1.70	1.60	2.30	2.50	2.40
25	0.30	1.40	1.80	1.60	1.90	2.30	2.10	2.80	3.30	3.05
32	0.30	1.60	2.10	1.85	2.40	2.90	2.65	3.60	4.20	3.90



SPRINKLER IRRIGATION SYSTEMS

We offer superior Sprinkler Irrigation System that is designed considering the crops grown, availability of water and its composition, type of soil, elevation, temperature, humidity and wind velocity in order to get the best possible results. Our Sprinklers Irrigation System is capable to irrigate a much larger area as compared to the traditional flood irrigation system. The System is effectively used on almost all the crops grown in country like wheat, gram, soyabean, vegetable, cotton, sugarcane, flowers, groundnut, mustard, etc.

Salient features of Sprinkler System

- To make an effective leak proof joint, each coupler and fitting are fitted with one or more rubber washers
- With highest quality stainless steel springs and extrudes brass nozzles for long life. The nozzles are specially tapered & slit for uniform long radius spray
- All items are designed to work at predetermined operating pressure
- As these are not affected by climatic conditions, the pipes are strong, stress resistant and long lasting
- The pipes have lower friction losses so the same pump can cover longer length

Advantages of Sprinkler Irrigation

- Sprinkler Irrigation does not require surface shaping of leveling
- Can be applied to areas of variable topography
- Suitable for most crops and adaptable to most irrigable soils
- Flexibility is possible because sprinkler heads are available in a wide range of discharge capacities
- Chemical and fertilizer applications are easily used with sprinkler systems

Product Name : Sprinkler Pipe (Quick Coupled Pipe)
Standards : IS 14151 Part - 1 & 2 Type : Regular, Notch and "C" clamp Coupler in fusion and butt welding
Range : 63, 75, 90, 110, 125, 140mm OD in class I, II, III & IV
Applications : Sprinkler and Drip Irrigation System for main and sub main line



Product Name : Metal / Plastic Sprinkler Nozzle
Standards : IS 12232
Range : ¾" with discharge 1800 LPH to 2100 LPH at 1 kg/cm² pressure
Applications : Sprinkler Irrigation System



Product Name : Sprinkler Coupler with Foot Batten, Bend, Tee, End cap, Pump Connecting Nipple
Standards : Dia : 63, 75, 90, 110, 125 & 140mm
Type : Regular Latch and "C" clamp Coupler with Zinc Coated
Applications : Sprinkler and Drip Irrigation System



TECHNICAL PARAMETERS

Sprinkler Pipe As Per IS 14151 (Pt. - I) : 1991

Outside Diameter (mm)	Tolerance on Inside Diameter (mm)	Ovality (mm)	Wall Thickness of Pipe in (mm)							
			Class - 1		Class - 2		Class - 3		Class - 4	
			Min	Max	Min	Max	Min	Max	Min	Max
40	0.40	1.40	-	-	-	-	-	-	2.30	2.80
50	0.50	1.40	-	-	-	-	2.00	2.40	2.90	3.40
63	0.60	1.50	-	-	2.00	2.40	2.50	2.90	3.80	4.40
75	0.70	1.60	2.00	2.40	2.50	2.90	3.00	3.40	4.50	5.20
90	0.80	1.80	2.20	2.60	2.90	3.40	3.50	4.10	5.30	6.10
110	1.00	2.20	2.70	3.20	3.40	3.90	4.20	4.80	6.50	7.40
125	1.20	2.50	3.10	3.60	3.80	4.50	4.80	5.50	-	-
140	1.30	2.80	3.50	4.10	4.30	5.00	5.40	6.10	-	-



MINI SPRINKLER IRRIGATION SYSTEMS

Mini Sprinklers irrigation offers a complete line of sprinkler solutions for a wide range of crops. Mini sprinklers earned a reputation as the most reliable and durable sprinklers available with their outstanding distribution uniformity and large water passages. Mini sprinklers simplicity and modular design allow for easy accessory options making them adaptable to almost any application and crop.

Advantages of Mini Sprinkler

- Precise application and adjustment of quantity and flow rate possible
- Low pumping costs, operating at the same pressure as drip irrigation
- Larger wetted Zone than with drip irrigation thus plants are less likely to suffer from water stress should there be any delay in irrigation
- Fertigation and chemigation can be utilized
- Other management tasks generally not obstructed during irrigation application
- Suitable for automation
- Efficient utilization of limited water supplies and no runoff
- Filtration is not as critical as for drip irrigation

Product Name : Mini Sprinkler Nozzle

Standards : IS 12232

Range : Part Circle (adjustable range) & Full Circle with 280 LPH & 450 LPH respectively

Applications : To irrigate close spacing crops like Potato, Ground nut, Onion, Garlic etc



Compression Fittings

Captain Polyplast Ltd. is one of the largest manufactures of PE pipes in India and has wide range of compression fittings with all varieties. These fittings are very easy to make flexible joint of HDPE pipe and Lateral. These fittings are being tested at 2.0 times higher than rated hydraulic pressure and also aged in 70° c for 168 hrs. No fusion welding, no mirror, no electricity, No skilled labour required.

Materials

Body, cover and thrust ring are manufactured from polypropylene and master batched with UV - stabilizer
Acetalic resin by Dupont EPDM or acrylonitrile food safe rubber seals

Product Name : Compression Fittings

Type : Coupler, Elbow, Tee, Reducer, End Cap, MTA

Range : 25mm to 110mm

Applications : These components are used in Mini Sprinkler irrigation System.



uPVC PIPES





uPVC COLUMN PIPES

Some important features of our Column pipes, couplers and its accessories

- Square Threads of pipes as well as coupler gives a very high tensile load capacity, high Izod impact and easy fitment, re-fitment and longer life
- The rubber dampeners, silent system provides leak proof fittings and also absorbs the vibration of the pump which results in longer life of motor and pump bearing.
- Our square threads of pipes as well as coupler are of best designed and manufactured in CNC machines in order to provide best accuracy and quality.
- The rubber ring like O-ring & Seal ring are of silicon rubber and best to absorb the shock of motor
- Our thick and thin portion of the pipes has been so developed in order to absorb the full torque produced due to motor thus resulting long life.
- The technically developed adapters have 11 TPI metric threads at one end which fits into motor and square threads at one end which fits into column pipes.

Applications

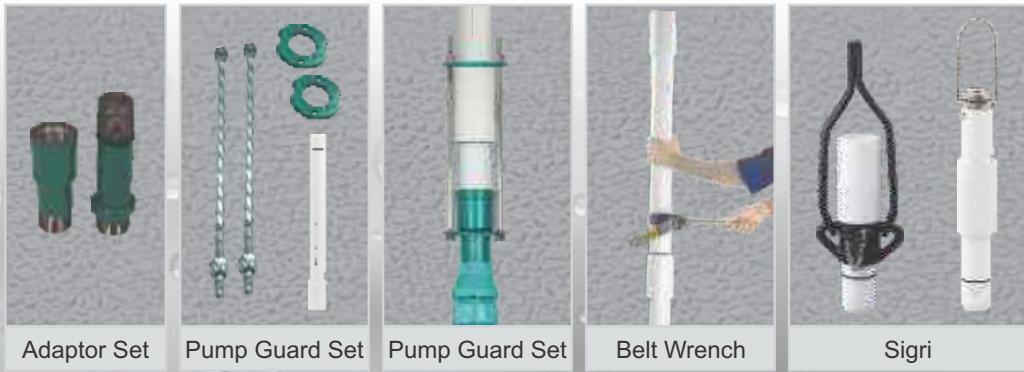
- Water rising for submersible pump set
- It is commonly used as replacement on the place for MS, ERW, GI, HDPE and stainless steel

Properties

- Suitable for potable water supplies
- High Izod impact strength
- High tensile strength
- High torque resistant
- 100% leak proof
- Economically satisfied
- Minimum frictional losses thus saving power
- High flow characteristics
- 25% higher discharge than G.I pipes
- Cost effective
- Light weight offers total economy in handling, transportation & installation
- Seamless, strong & resilient
- Odorless and hygienic for potable water
- Resistant to rusting and weathering

Product name : uPVC Column Pipes
Range : 1" to 5" Outer Diameter (25 mm to 125 mm Nominal Diameter)
Colour : White
Length : Available in 3 & 6 meter
Types : (1) Tiny (4) Standard Deluxe (7) Heavy
(2) Medium Deluxe Plus (5) Standard Deluxe Plus (8) Super Heavy
(3) Medium (6) Standard

uPVC Column Pipe Accessories



uPVC COLUMN PIPES

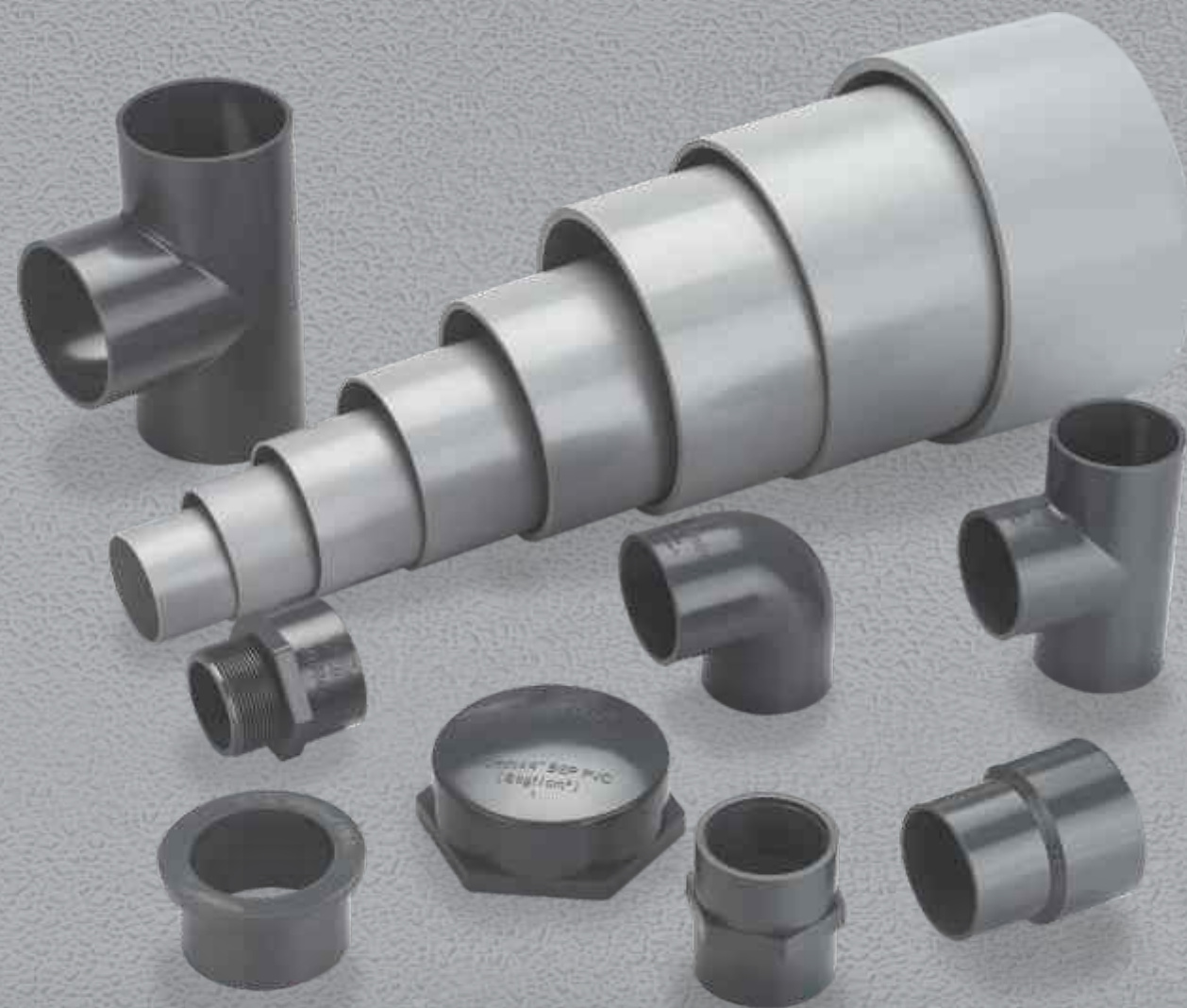
TECHNICAL PARAMETERS

Nominal Bore		Outer Diameter mm	Technical Parameters	Type							
				Tiny	Medium Deluxe Plus	Medium	Standard Deluxe	Standard Deluxe Plus	Standard	Heavy	Super Heavy
1.00"	25	33.35	End Wall Thickness Avg. (mm)	2.90	3.50	3.80			5.00	5.35	5.90
			Allowable Hydrostatic Pressure (kgf/cm ²)	12.00	15.00	18.00			20.00	22.00	25.00
			Ultimate Breaking Load (Kgs.)	1200	1500	1900			2000	2200	2500
			Recommended Depth (Feet)	120	200	350			500	700	800
1.25"	32	42.15	End Wall Thickness Avg. (mm)	3.65	3.90	4.20		4.50	5.10	5.60	6.10
			Allowable Hydrostatic Pressure (kgf/cm ²)	15.00	20.00	20.00		21.00	22.00	25.00	30.00
			Ultimate Breaking Load (Kgs.)	1700	1900	2000		2300	2800	3300	3500
			Recommended Depth (Feet)	120	300	350		400	500	700	800
1.50"	40	48.15	End Wall Thickness Avg. (mm)	4.13	4.20	4.40			5.35	6.15	8.50
			Allowable Hydrostatic Pressure (kgf/cm ²)	15.00	18.00	20.00			30.00	35.00	40.00
			Ultimate Breaking Load (Kgs.)	2200	2400	2700			3200	4400	4500
			Recommended Depth (Feet)	150	200	350			500	700	800
2.00"	50	60.10	End Wall Thickness Avg. (mm)	4.20	4.50	4.95	5.30	6.00	6.55	7.65	9.20
			Allowable Hydrostatic Pressure (kgf/cm ²)	15.00	18.00	20.00	25.00	28.00	30.00	35.00	45.00
			Ultimate Breaking Load (Kgs.)	2800	2950	3100	3400	3700	4000	4800	6000
			Recommended Depth (Feet)	150	200	350	400	450	550	1100	1500
2.25"	60	65.45	End Wall Thickness Avg. (mm)							8.10	9.10
			Allowable Hydrostatic Pressure (kgf/cm ²)							40.00	45.00
			Ultimate Breaking Load (Kgs.)							5000	6500
			Recommended Depth (Feet)							1200	1500
2.50"	65	75.30	End Wall Thickness Avg. (mm)	4.70		6.00	6.65	6.85	7.45	8.70	10.40
			Allowable Hydrostatic Pressure (kgf/cm ²)	25.00		30.00	32.00	33.00	35.00	40.00	45.00
			Ultimate Breaking Load (Kgs.)	3500		5000	5800	6500	7000	9000	12000
			Recommended Depth (Feet)	150		350	400	450	550	1200	1500
3.00"	80	88.80	End Wall Thickness Avg. (mm)	6.05		6.35	6.60	6.70	7.80	10.15	12.00
			Allowable Hydrostatic Pressure (kgf/cm ²)	25.00		30.00	32.00	33.00	35.00	40.00	45.00
			Ultimate Breaking Load (Kgs.)	5000		5500	6800	7000	7200	10000	15000
			Recommended Depth (Feet)	150		350	400	450	550	1200	1500
4.00"	100	114.25	End Wall Thickness Avg. (mm)	5.75		6.68		7.70	8.40	12.15	15.00
			Allowable Hydrostatic Pressure (kgf/cm ²)	25.00		30.00		33.00	35.00	40.00	45.00
			Ultimate Breaking Load (Kgs.)	7400		7800			12000	18000	22000
			Recommended Depth (Feet)	150		350			550	1200	1500
5.00"	125	140.05	End Wall Thickness Avg. (mm)						10.90	15.25	18.50
			Allowable Hydrostatic Pressure (kgf/cm ²)						45.00	50.00	50.00
			Ultimate Breaking Load (Kgs.)						18000	25000	33000
			Recommended Depth (Feet)						600	1200	1500

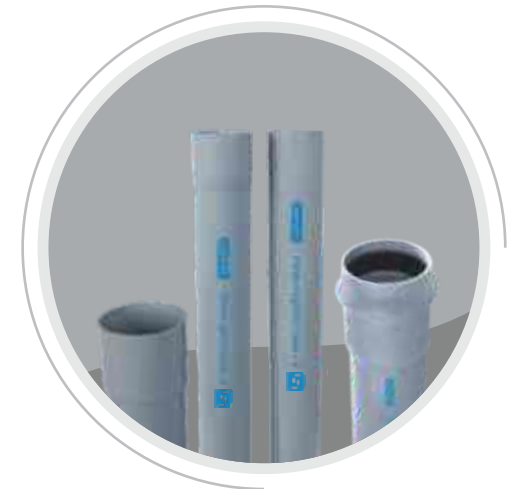
*Technical Specification are Subject to Change Without Prior Notice.



uPVC PRESSURE PIPES & AGRI FITTINGS



uPVC PRESSURE PIPES



Properties

- Suitable for potable water supply
- Light weight makes easy handling, transportation & installation
- Seamless, strong & resilient
- Odorless and hygienic for potable water
- Resistant to rusting and weathering
- Energy efficient due to low pressure losses
- High flow characteristics

Applications

- Water supply
- Lift irrigation
- Main and sub main line for Drip and Sprinkler irrigation
- Fertilizer, lifting, transporting, conveying, distributing disposing or tapping water
- Urban and rural areas drinking water scheme

Product name : Unplasticized Polyvinyl Chloride pipe for potable water supplies (uPVC Pipes)

Range : 20 mm to 315 mm Outer Diameter

Pressure Rating : 2.5 kg/cm² to 10.0 kg/cm²

Standard : IS 4985:2000

Colour : Light Grey

Length : Available in 4,5 & 6 meter

- Types :
- (1) Plain ended
 - (2) Socketed pipe for elastomeric sealing ring
 - (3) Socketed pipe for solvent cement jointing

TECHNICAL PARAMETERS

As Per IS:4985:2000

(All Dimensions in mm)








Nominal Diameter		Mean Outside Diameter		Outside Diameter at any Point		Wall Thickness									
						Class - 1 2.5 kgf/cm ²		Class - 2 4 kgf/cm ²		Class - 3 6 kgf/cm ²		Class - 4 8 kgf/cm ²		Class - 5 10 kgf/cm ²	
inch	mm	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
0.50"	20	20	20.3	19.5	20.5									1.1	1.5
0.75"	25	25	25.3	24.5	25.5							1.2	1.6	1.4	1.8
1.00"	32	32	32.3	31.5	32.5							1.5	1.9	1.8	2.2
1.25"	40	40	40.3	39.5	40.5					1.4	1.8	1.8	2.2	2.2	2.7
1.50"	50	50	50.3	49.4	50.6					1.7	2.1	2.3	2.8	2.8	3.3
2.00"	63	63	63.3	62.2	63.8			1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1
2.50"	75	75	75.3	74.1	75.9			1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9
3.00"	90	90	90.3	89.9	91.1	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7
4.00"	110	110	110.4	108.6	111.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1
4.50"	125	125	125.4	123.5	126.5	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0
5.00"	140	140	140.5	138.3	141.7	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9
6.00"	160	160	160.5	158.0	162.0	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2
7.00"	180	180	180.6	177.8	182.2	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4
8.00"	200	200	200.6	197.6	202.4	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7
9.00"	225	225	225.7	222.3	227.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3
10.00"	250	250	250.8	247.0	253.0	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9
11.00"	280	280	280.9	276.6	283.4	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8
12.00"	315	315	316.0	311.2	318.8	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9



uPVC AGRI FITTINGS

uPVC AGRI FITTINGS (6 Kg/cm²)

As Per IS 7834:1987

Sr. No.	Products Name	Size (mm)	Size (inch)	Packing Qty. (Nos.)		
				Per Bag	Per Box	
1		Elbow 90°	63	2.00"	-	48
			75	2.50"	-	32
			90	3.00"	-	24
			110	4.00"	-	20
2		Tee	63	2.00"	-	32
			75	2.50"	-	32
			90	3.00"	-	24
			110	4.00"	-	20
3		MTA	63	2.00"	-	96
			75	2.50"	-	96
			90	3.00"	-	64
			110	4.00"	-	24
4		FTA	63	2.00"	-	32
			75	2.50"	-	32
			90	3.00"	-	36
			110	4.00"	-	36
5		Reducer	75 x 63	2.50" x 2.00"	-	96
			90 x 75	3.00" x 2.50"	-	72
			110 x 90	4.00" x 3.00"	-	60
			110 x 75	4.00" x 2.50"	-	60
6		End Cap (Threaded)	63	2.00"	200	-
			75	2.50"	150	-
			90	3.00"	100	-
			110	4.00"	50	-
7		Tail Piece	63	2.00"	150	-
			75	2.50"	90	-
			90	3.00"	60	-
			110	4.00"	35	-

Product name : uPVC Agri fittings
Range : 2" to 4"
Standard : As Per IS 7834 : 1987
Colour : Grey



SOLVENT CEMENT

uPVC / PVC / CPVC SOLVENT CEMENT

Piping System	Bodied Type	Suitable up to Size	Size	Packing Details	
				Standard Box	Master Carton
uPVC / PVC	Medium Bodied Solvent Cement	SCH-40 up to 6" Dia SCH-80 up to 4" Dia	10 ml Tube	50	800
			25 ml Tube	50	600
			59 ml Tin Can	24	288
			118 ml Tin Can	24	144
			237 ml Tin Can	12	96
			473 ml Tin Can	12	48
			946 ml Tin Can	6	24
PVC Pressure Pipe	Regular Bodied Solvent Cement	Up to 8" Dia	100 ml Tin Can	48	192
			250 ml Tin Can	40	80
			500 ml Tin Can	20	40
			1000 ml Tin Can	12	24
			5000 ml Plastic Can	4	4
CPVC	Medium Bodied Solvent Cement	Up to 4" Pipes & Fittings	10 ml Tube	50	800
			25 ml Tube	50	600
			59 ml Tin Can	24	288
			118 ml Tin Can	24	144
			237 ml Tin Can	12	96
			473 ml Tin Can	12	48
			946 ml Tin Can	6	24

uPVC / PVC SOLVENT CEMENT HEAVY DUTY CLEAR

- Medium Bodied Fast Setting
- For Sch. 40 through 6" dia., Sch. 80 through 4" dia. interference fit
- For residential & commercial plumbing
- Meets ASTM-D 2564 standard

PVC SOLVENT CEMENT HIGH PRESSURE CLEAR

- Regular Bodied Slow Setting
- Specially formulated for rigid PVC piping system
- highly suitable for irrigation piping system

CPVC SOLVENT CEMENT CLEAR

- Medium Bodied Fast Setting
- For Sch. 40 & Sch. 80 through 4" dia. interference fit
- For residential & commercial plumbing





uPVC PLUMBING PIPES & FITTINGS



uPVC PLUMBING PIPES



Properties

- Suitable for potable water supply
- Properties remains unchanged till temperature 60°c continuous and 90°c for short time
- Light weight makes easy handling, transportation & installation
- Seamless, strong, flexible & resilient
- Odorless and hygienic for potable water
- High flow characteristics
- Good insulator
- Simple and leak proof joints

Applications

- Cold water supply in building construction
- Industrial process lines
- Swimming pools
- Salt water lines
- Aggressive / corrosive fluid transportation
- Dye plants, chrome, zinc plating and tanning plants
- Sugar, paper and distillery industries
- Coal washing and ash handling

Product name : Plumbing Pipe

• Type – 1 (As per ISI)

- Range : 20 mm to 50 mm Outer Diameter as per IS 4985:2000
- Standard : IS 4985:2000
- Colour : Light Grey
- Length : Available in 4,5 & 6 meter
- Types : Plain ended

• Type – 2 (As per ASTM-D-1785)

- Range : 0.5" to 3" in schedule 40 & 80 as per ASTM-D-1785
- Standard : As per ASTM-D-1785
- Colour : white
- Length : Available in 3 & 6 meter
- Types : Plain ended & thread ended

TECHNICAL PARAMETERS

As Per ASTM D-1785








Nominal Bore		Outside Diameter(mm)		Schedule 40		Schedule 80	
inch	mm			Wall thickness (mm)		Wall thickness (mm)	
0.50"	15	21.34	± 0.10	2.77	+ 0.51	3.73	+ 0.51
0.75"	20	26.67	± 0.10	2.87	+ 0.51	3.91	+ 0.51
1.00"	25	33.40	± 0.13	3.38	+ 0.51	4.55	+ 0.53
1.25"	32	42.16	± 0.13	3.56	+ 0.51	4.85	+ 0.58
1.50"	40	48.26	± 0.15	3.68	+ 0.51	5.08	+ 0.61
2.00"	50	60.32	± 0.15	3.91	+ 0.51	5.54	+ 0.66
2.50"	63	75.20	± 0.15	5.16	+ 0.61	7.07	+ 0.48
3.00"	80	88.90	± 0.20	5.49	+ 0.66	7.62	+ 0.91



uPVC PLUMBING FITTINGS

TECHNICAL PARAMETERS

As Per ASTM D-2467 SCH-80









Sr. No	Products Name	Size		Packing Details	
		inch	mm	Inner Packing	Total Qty.
1	 Coupler	1/2"	15	60 X 10	600
		3/4"	20	40 X 9	360
		1"	25	28 X 7	196
		1 1/4"	32	20 X 6	120
		1 1/2"	40	15 X 6	90
		2"	50	12 X 4	48
2	 Elbow 90°	1/2"	15	50 X 6	300
		3/4"	20	30 X 6	180
		1"	25	20 X 5	100
		1 1/4"	32	12 X 5	60
		1 1/2"	40	8 X 5	40
		2"	50	6 X 4	24
3	 Tee	1/2"	15	50 X 4	200
		3/4"	20	24 X 6	144
		1"	25	18 X 4	72
		1 1/4"	32	12 X 4	48
		1 1/2"	40	8 X 3	24
		2"	50	4 X 5	20
4	 Reducing Tee	1" X 1/2"	25 X 15	18 X 5	90
		1" X 3/4"	25 X 20	18 X 4	72
		1 1/2" X 1/2"	40 X 15	8 X 4	32
		1 1/2" X 1"	40 X 25	8 X 5	40
		2" X 1"	50 X 25	4 X 5	20
		2" X 1 1/2"	50 X 40	4 X 5	20
5	 End Cap Plain	1/2"	15	100 X 3	300
		3/4"	20	70 X 6	420
		1"	25	50 X 5	250
		1 1/4"	32	36 X 5	180
		1 1/2"	40	25 X 5	125
		2"	50	16 X 5	80
6	 Reducer	3/4" X 1/2"	20 X 15	40 X 9	360
		1" X 1/2"	25 X 15	56 X 6	336
		1" X 3/4"	25 X 20	42 X 5	210
		1 1/4" X 1"	32 X 25	20 X 6	120
		1 1/2" X 1"	40 X 25	24 X 6	144
		1 1/2" X 1 1/4"	40 X 32	24 X 5	120
		2" X 1"	50 X 25	20 X 4	80
		2" X 1 1/4"	50 X 32	20 X 4	80
		2" X 1 1/2"	50 X 40	20 X 4	80
7	 End Plug (Long)	1/2"	15	100 X 4	400



uPVC PLUMBING FITTINGS

TECHNICAL PARAMETERS

As Per ASTM D-2467 SCH-80

Sr. No	Products Name	Size		Packing Details	
		inch	mm	Inner Packing	Total Qty.
1	 Brass Elbow	1/2"	15	50 X 2	100
		3/4"	20	30 X 3	90
		1"	25	24 X 4	96
2	 Brass Elbow (Reducing)	1" X 1/2"	25 X 15	24 X 5	120
		3/4" X 1/2"	20 X 15	30 X 3	90
3	 Brass Tee	1/2"	15	25 X 4	100
		3/4"	20	24 X 2	48
		1"	25	18 X 4	72
4	 Brass Tee (Reducing)	1" X 1/2"	25 X 15	18 X 4	72
		3/4" X 1/2"	20 X 15	24 X 2	48
5	 Brass MTA	1/2"	15	63 X 4	252
		3/4"	20	48 X 4	192
		1"	25	30 X 3	90
6	 Brass MTA (Reducing)	1" X 1/2"	25 X 15	42 X 3	126
		3/4" X 1/2"	20 X 15	48 X 4	192
7	 Brass FTA	1/2"	15	48 X 5	240
		3/4"	20	48 X 3	144
		1"	25	30 X 3	90
8	 Brass FTA (Reducing)	1" X 1/2"	25 X 15	35 X 3	105
		3/4" X 1/2"	20 X 15	48 X 4	192



CPVC PLUMBING PIPES & FITTINGS



CPVC PLUMBING PIPES

CAPTAIN CPVC Plumbing System

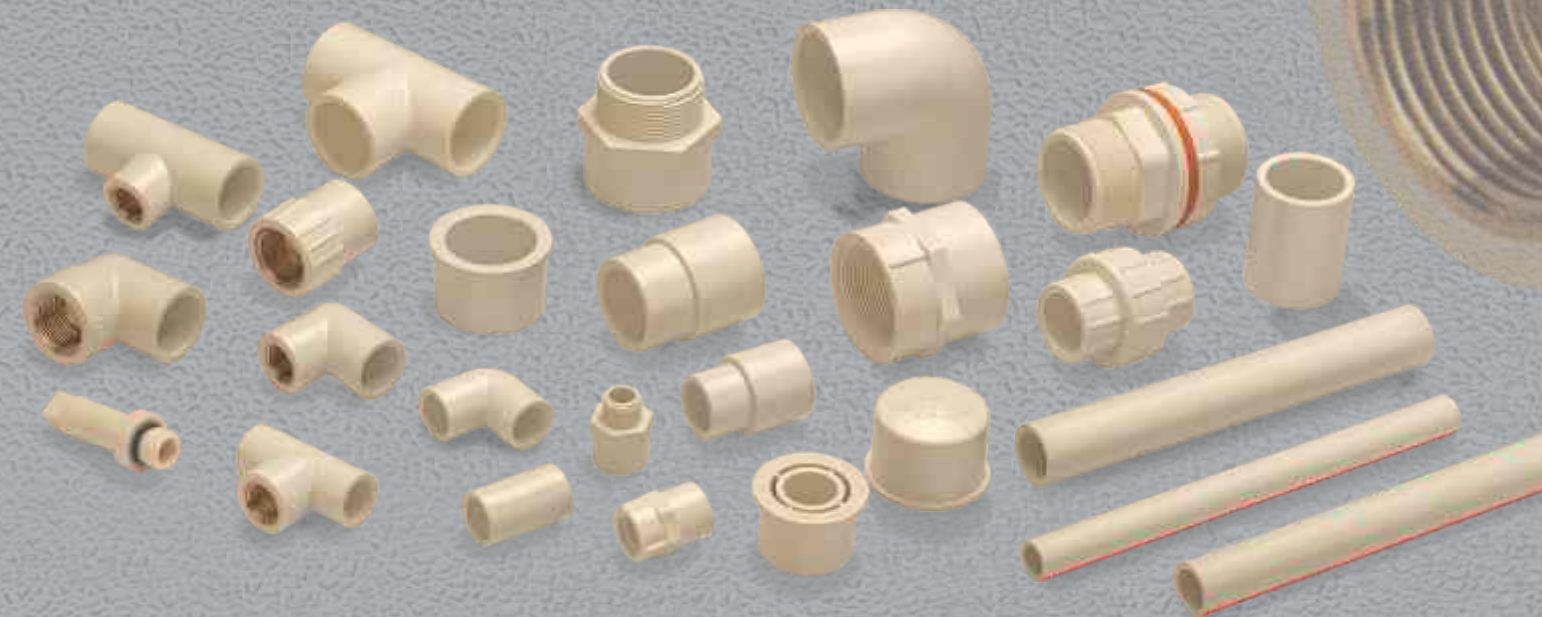
In view of our manufacturing excellence, experience and a vision for innovation, we at CAPTAIN decided to introduce our all-new range of CPVC Pipes & fittings especially meant for those who settle for nothing but the best. CAPTAIN CPVC Pipes & Fittings are not only light weight and convenient-to-use but also help reduce and added expenses during installation. Our CPVC Pipes & Fittings can sustain years of use to provide you with water that is safe for drinking and for other potable water application.

Salient Features & Benefits

- CAPTAIN CPVC Pipes & Fittings come replete with a range of features and benefits
- Proven Hot Water performance upto 93°C
- Safe for drinking water and human health
- Exceptional all weather corrosion resistance
- No scaling or pitting maintain flow
- Low microbial growth
- does not support combustion
- UV resistance ensures pressure and temperature bearing capability unaffected even after long term exposure
- Low thermal expansion
- High Impact resistance
- Fast and Easy installation
- Consistent and reliable jointing
- Very low lifetime ownership cost

Applications

- Hot and Cold water distribution in residential, Commercial and Industrial Spaces
- Hotels, Hospitals, Swimming Pools and RO & DM Water plants
- Carrying Potable Water and edible fluids
- Transportation of Chemicals and other hot, corrosive fluids
- Solar heating, Central heating and radiant floor heating application
















CPVC PLUMBING FITTINGS

TECHNICAL PARAMETERS

As Per ASTM D-2846

Sr. No	Products Name	Size	
		inch	mm
1	 Coupler	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
2	 Elbow 90°	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
3	 Elbow 45°	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
4	 Tee	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
5	 Reducing Tee	3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
		1" X 3/4"	25 X 20
		1 1/4" X 1/2"	32 X 15
		1 1/4" X 3/4"	32 X 20
		1 1/4" X 1"	32 X 25
		1 1/2" X 1"	40 X 25
		1 1/2" X 1 1/4"	40 X 32
		2" X 1 1/4"	50 X 32
6	 Cross Tee	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50







Sr. No	Products Name	Size	
		inch	mm
7	 End Cap Plain	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
8	 Reducer	3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
		1" X 3/4"	25 X 20
		1 1/4" X 3/4"	32 X 20
		1 1/4" X 1"	32 X 25
		1 1/2" X 1"	40 X 25
		1 1/2" X 1 1/4"	40 X 32
		2" X 1 1/4"	50 X 32
9	 MTA	2" X 1 1/2"	50 X 40
		1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
10	 FTA	2"	50
		1/2"	15
		3/4"	20
		1"	25
11	 Reducing Bush	1 1/4"	32
		1 1/2"	40
		2"	50
		3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
		1" X 3/4"	25 X 20
		1 1/4" X 1/2"	32 X 15
		1 1/4" X 3/4"	32 X 20
		1 1/4" X 1"	32 X 25
		1 1/2" X 1/2"	40 X 15
		1 1/2" X 3/4"	40 X 20
		1 1/2" X 1"	40 X 25
		1 1/2" X 1 1/4"	40 X 32
		2" X 1/2"	50 X 15
		2" X 1"	50 X 25
		2" X 1 1/4"	50 X 32
		2" X 1 1/2"	50 X 40



CPVC PLUMBING FITTINGS

TECHNICAL PARAMETERS

As Per ASTM D-2846

Sr. No	Products Name	Size	
		inch	mm
12	 Union	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
13	 Tank Adaptor	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
14	 Ball Valve	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
15	 Single Union Ball Valve	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50
16	 End Plug (Long)	1/2"	15
17	 Over Bend	1/2"	15
		3/4"	20
		1"	25
		1 1/4"	32
		1 1/2"	40
		2"	50



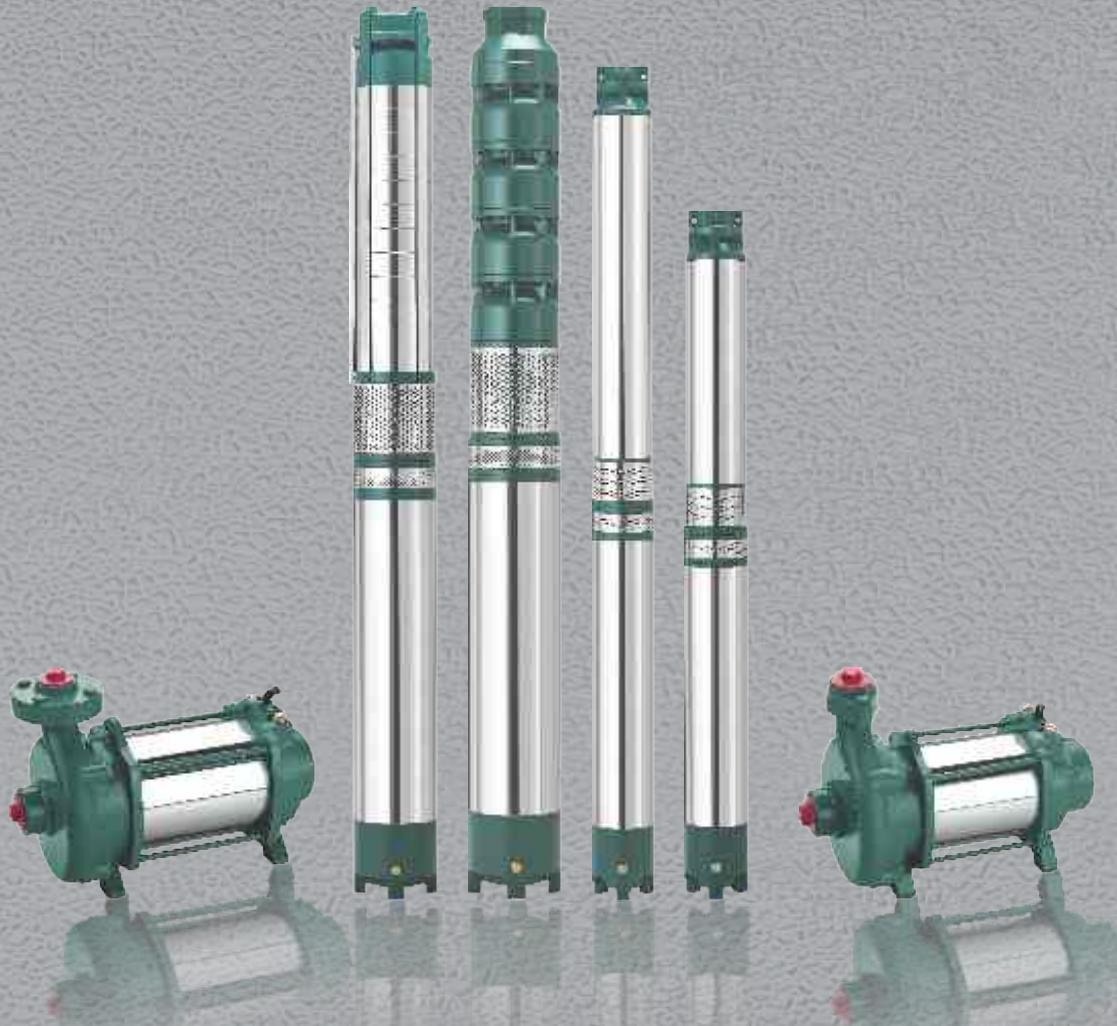
CPVC PLUMBING FITTINGS

TECHNICAL PARAMETERS
As Per ASTM D-2846

Sr. No	Products Name	Size	
		inch	mm
1	 Brass Elbow	1/2"	15
		3/4"	20
		1"	25
2	 Brass Elbow (Reducing)	1" X 1/2"	25 X 15
		3/4" X 1/2"	20 X 15
3	 Male Elbow (Copper Thread)	1/2" X 1/2"	15 X 15
		3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
4	 Female Elbow 90° (Copper Thread)	1/2" X 1/2"	15 X 15
		3/4" X 1/2"	20 X 15
		3/4" X 3/4"	20 X 20
5	 Brass Tee	1/2"	15
		3/4"	20
		1"	25
6	 Brass Tee (Reducing)	1" X 1/2"	25 X 15
		3/4" X 1/2"	20 X 15
7	 Male Tee (Copper Thread)	1/2" X 1/2"	15 X 15
		3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
8	 Female Tee (Copper Thread)	1/2" X 1/2"	15 X 15
		3/4" X 1/2"	20 X 15
		1" X 1/2"	25 X 15
9	 Male Coupling (Copper Thread)	1/2"	15
		3/4"	20
		1"	25
10	 Female Coupling (Copper Thread)	3/4" X 1/2"	20 x 15
		1/2"	15
		3/4"	20
		1"	25
		3/4" X 1/2"	20 x 15



SUBMERSIBLE PUMP SETS





SUBMERSIBLE PUMP SETS

MATERIAL SPECIFICATIONS

No.	Name of Parts	Function & Material Specification.
1	Motor Body	: It is made of S.S. 304 grade material to protect against corrosion and to provide rigid construction to support other parts of the body
2	Bowl Set (V-3, V-4, V-5)	: Bowl set is made of noryl gfn 2701-grade material
3	Bowl Set (V-6, V-8)	: Bowls are made from investment casting process from S.S. 304 grade material. Impellers S.S. 410 which provides long life to pump set
4	Rotor	: Rotors are made of high silicon stamping and EC grade high copper rod. It is dynamically balanced with throughout grinding size and epoxy coated rust proof
5	Winding Wire	: It has high insulating capacity
6	Copper Rod	: EC grade as per ISI standard
7	Pump Shaft	: It is made of S.S. 410 grade material for longer life
8	Motor Shaft	: It is made of S.S. 410 grade material for longer life
9	Stamping	: Stamping is made of M-45 grade imported sheet having high silicon composition, which makes the pump noiseless
10	Motor & Pump Bush	: It is made of leaded tin bronze (Ltb) 4
11	Thrust Bearing	: Segment made of S.S. 304 grade and plate made in high grade Carbon having high resistance capacity

V-3 (75mm Bore Dia.) Pump Sets

Special Features :

- 20 to 30 % lower power consumption
- Light in weight
- Long durability due to complete S.S. body
- Withstand high voltage fluctuations
- Excellent performance even at low voltage

Performance Range :

Power Range : 0.5 H.P. to 1.5 H.P.
(160/240 V, 50Hz AC Single Phase)

Speed : 2880 RPM

Max. Discharge : 90 LPM

Per Stage Head : 15 Feet

Max. Temp. : 30° C

Applications :

Water Supply in Domestic, Hotels, Hospitals, Civil, Industrial Fields, Small Farm and Minor Irrigation

V-4 (100mm Bore Dia.) Pump Sets

Special Features :

- 20 to 30 % lower power consumption
- Long durability due to non corrosive S.S. body
- Sand & mud Proof design model
- Special design to withstand wide voltage fluctuations
- Excellent performance even at low voltage
- Special sand guard used to prevent ingress of solids or foreign particles

Performance Range :

Power Range : 0.5 H.P. to 5 H.P. (240 V, 50Hz AC Single Phase)
1.0 H.P. to 5.0 H.P. (415 V, 50Hz AC Three Phase)

Speed : 2880 RPM

Max. Discharge : 175 LPM

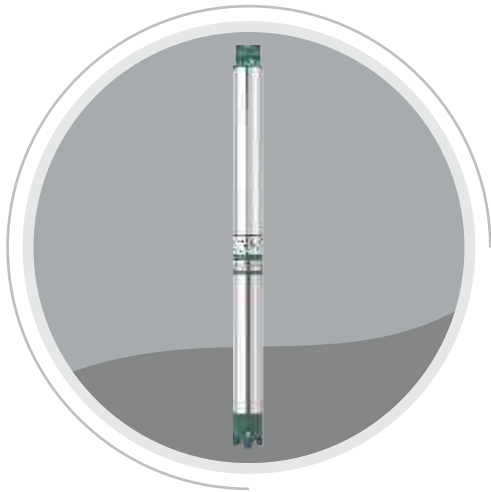
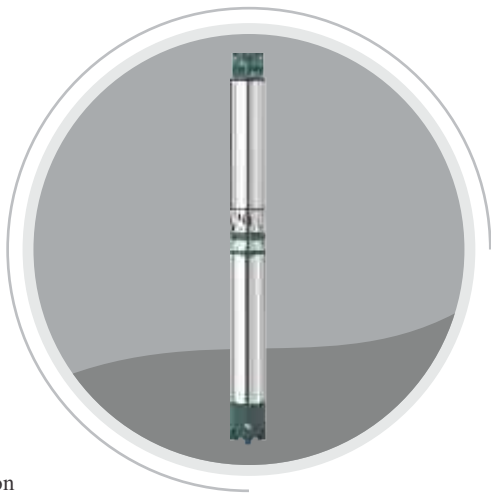
Max. Head : 1000 Feet

Per Stage Head : 25 Feet

Max. Temp. : 30° C

Applications :

Water Supply in Domestic & Agriculture Purpose



SUBMERSIBLE PUMP SETS

V-6 (150mm Bore Dia.) Pump Sets

Special Features :

- 20 to 30 % lower power consumption
- Long durability due to non corrosive S.S. body
- Sand & mud Proof design model
- Specially designed SS 304 grade bowl for high head & high discharge
- Excellent performance even at low voltage

Performance Range :

Power Range : 3.0 H.P. to 30.0 H.P.
(415 V, 50Hz AC Three Phase)

Speed : 2880 RPM

Max. Discharge : 900 LPM K-Type, 1450 LPM Q - Type

Max. Head : 1250 Feet K - Type, 400 Feet Q - Type

Per Stage Head : 52 Feet K - Type, 45 Feet Q - Type

Max. Temp. : 30° C

Applications :

Water Supply in Irrigation, Hotels, Civil, Industrial Fields, Fire Fighting Jockey Pumps

Openwell Pump Sets

Special Features :

- Special hi-flow & hi Head models
- Long durability due to non corrosive S.S. body
- High discharge & low power consumption
- Excellent performance even at low voltage
- Special design to prevent winding burn out

Performance Range :

Power Range : 0.5 H.P. to 5.0 H.P. (240 V, 50Hz AC Single Phase)
1.0 H.P. to 10.0 H.P. (415 V, 50Hz AC Three Phase)

Speed : 2880 RPM

Max. Discharge : 1350 LPM

Max. Head : 180 Feet

Max. Temp. : 30° C

Applications :

Water Supply in Domestic & Agriculture Purpose

