PRINCE®
PIPING SYSTEMS

ZERO DEFECT CHOICE

Product Catalogue

THE JOURNEY

2021

• Manufacturing unit commissioned at Sangareddy, Telangana. To strengthen our strategic presence in Southern India
• Prince Pipes has been awarded Brand of The Year - Pipes at Realty + INEX Awards 2021

2020

• Prince Pipes Product collaborates with Lubrizol the world's largest manufacturers and inventors of CPVC compounds.
• Technical collaborates with Tooling holland A global leader in plastic moulds manufacturing

2019

• Manufacturing unit at Jobner, Rajasthan to cater to increasing volume demand
• Company successfully got listed on BSE and NSE

2018

Prince Pipes announced bollywood actor Akshay Kumar as its brand ambassador.

2017

• Prince Pipes became a Public Limited Company.
• Economic Times Polymers Award (Excellence in Plastics) for excellence in building and construction (plumbing) in the large enterprises category.

2016

Mr. Parag Chheda presented with the Inspiring Business Leader Award by Economic Times.

2015

• Mr. Jayant Chheda received the "Life time Achievement Award" at Vinyl India Conference.
• "IMEA Award" for Haridwar factory by Frost & Sullivan.

2014

Prince Pipes received "Asia's Most Promising Brand Award" by World Consulting and Research Corporation Delhi.

2012

Prince Pipes acquired "Trubore"- a renowned brand of southern India from Chemplast Sanmar Group alongwith their two manufacturing units at Kolhapur & Chennai.

2010

• Winner of Best SME "Emerging India Awards 2010" by ICICI Bank, CNBC TV 18 & CRISIL.
• Winner of "Outstanding Quality Contribution In Pipes Sector" by Bloomberg EPC world.

2008

Manufacturing unit at Haridwar (Uttarakhand) was established to cater to the increasing demand for Prince Pipes products.

2005

Prince Pipes achieved the ₹100 Crore benchmark.

2000

Manufacturing unit at Dadra (Silvassa - D & N.H) wasestablished to augment the pipe manufacturing capacity by setting up a new extrusion unit.

1998

ISO Certification earned by ensuring compliance to every step of the quality management system.

1995

Manufacturing unit at Athal (Silvassa-D & N.H) was established to set-up a large scale Injection Moulding Unit which marked the beginning for Prince Pipes to be one of the market leaders in PVC Fittings.

1987

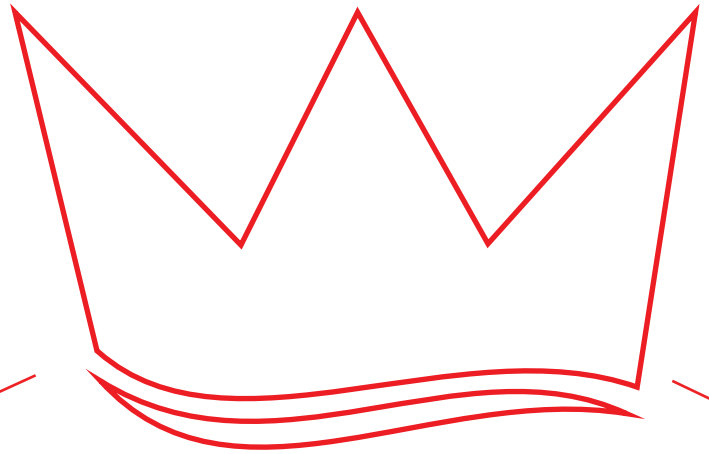
• Mr. Jayant Chheda commenced manufacturing unit of PVC Products.
• 1st PVC Fittings Manufacturing Unit initiated to provide total piping solutions.

FORTUNE INDIA 500 COMPANY

PRINCE PIPING SYSTEMS

COMPANY OVERVIEW

One of **India's largest integrated piping solutions**



Amongst **top 5** processors in India

8 Patented designs backed by robust R&D

11 Depots across India

Wide range of 7,167 SKUs

Strong legacy of more than **3 decades**

Comprehensive product portfolio **across polymers**

RECENTLY VENTURED INTO STORAGE WATER TANKS AND PIPE DUCTING SOLUTIONS

PRINCE STOREFIT™ Paani Ka Bank | CABLEFIT™ CABLE DUCTING PIPES

TECHNICAL COLLABORATION

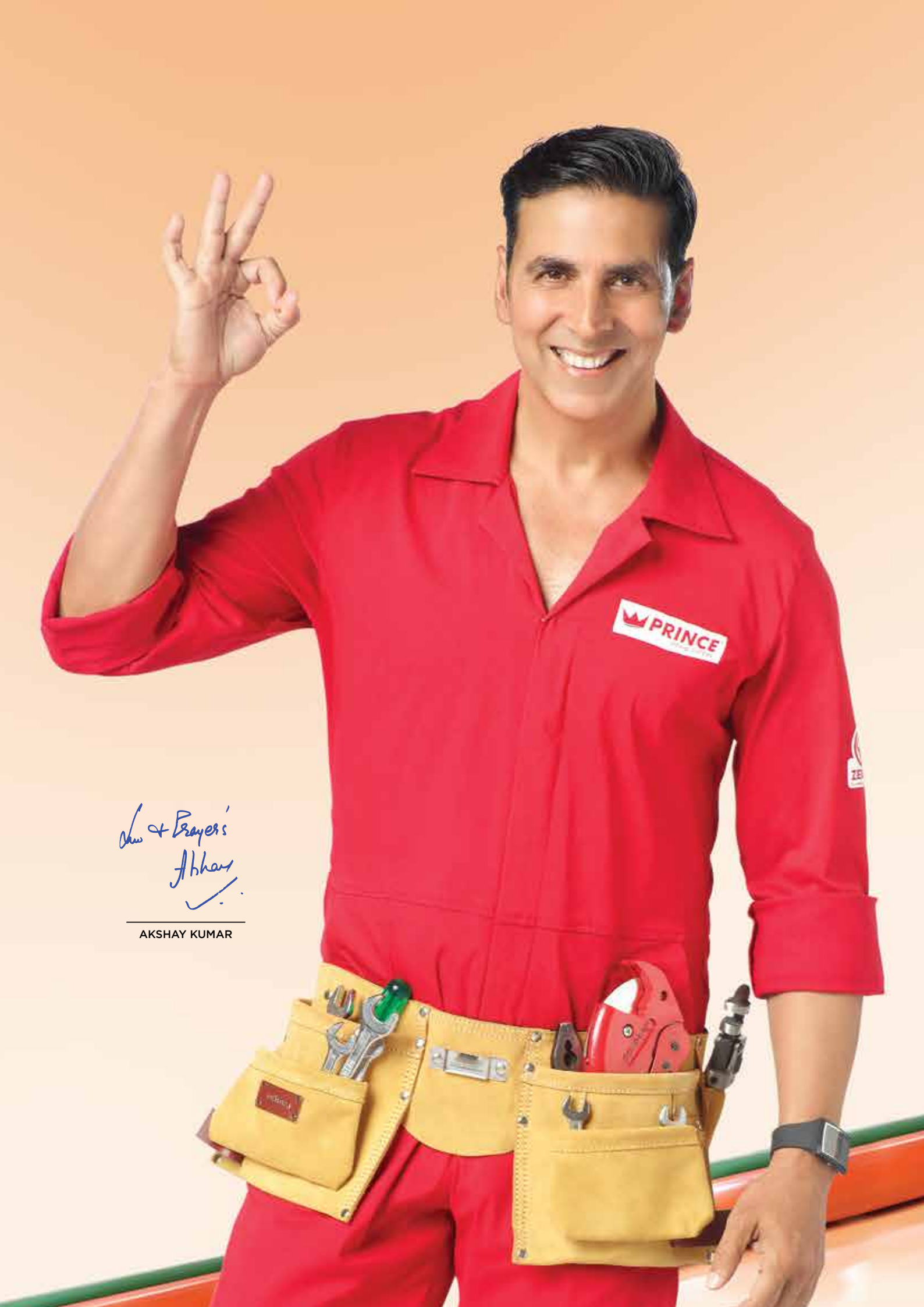
Tooling holland
A global leader in plastic moulds manufacturing

PRODUCT COLLABORATION

Lubrizol
World's largest manufacturers and also the inventors of CPVC compound

FLOWGUARD® PLUS CPVC PLUMBING SYSTEMS™

FLOWGUARD® is the registered mark of The Lubrizol Corporation. The Lubrizol Corporation is a Berkshire Hathaway Company.



Love & Prayers
Akshay

AKSHAY KUMAR

Celebrating the unsung heroes with the world's first plumber song

Plumbers are an integral part of our industry and therefore, deserve recognition for the same. So, we at Prince, decided to pay a special tribute to our plumber friends we fondly refer to as ***'Mitra'.***

Therefore, the first Plumber Anthem ever -

Ji ji kar ke baat karo,
hum toh plumber hain...

The song first originally released on the occasion of ***World Plumbing Day (2018)*** in Hindi, got an overwhelming response the moment it went online. The fact that it instantly became a popular caller tune in the plumber community made it even more special. And this year, it's touching many more plumbers across the nation with its various regional versions. We hope this Zero Defect chain keeps growing with every passing year.

Manufacturing Units

State-of-the-art manufacturing units producing piping systems

Athal
(Silvassa) Year of Est.1995

Dadra
(Silvassa) Year of Est. 2000

Kolhapur
(Maharashtra) Year of Est. 2012

Chennai
(Tamil Nadu) Year of Est. 2012

Haridwar
(Uttarakhand) Year of Est. 2008

Jaipur
(Rajasthan) Year of Est. 2019

Sangareddy
(Telangana) Year of Est. 2021

PRINCE PIPING SYSTEMS

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FLOWGUARD® PLUS™
CPVC PLUMBING SYSTEMS

50 YEARS
TRUSTED AROUND THE WORLD

WORLD'S NO.1* CPVC

NSF
pw-G-dwv-sw
U.P. Code

For Copper Tube Size
CPVC thru 2" Dia.
(50 mm) Interference Fit

Pipes as per
IS: 15778
(SDR 11 & 13.5)
ASTM F 441 (SCH 40 & 80)

Fittings as per:
ASTM D 2846 (SDR 11)
ASTM F 438 (SCH 40)
ASTM F 439 (SCH 80)

*FlowGuard CPVC is No.1 based on the length of pipes installed.

Overview

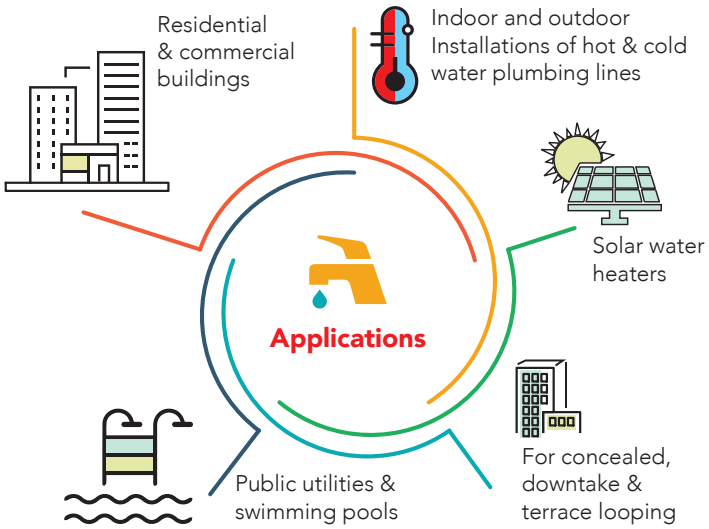
Invented in 1959, used all over the world, established as a trusted product and now brought to you by Prince Pipes, FlowGuard Plus CPVC plumbing systems are built to last for generations. Designed for a service life of 50 years, these CPVC pipes and fittings can withstand temperatures up to 93°C and are ideal for hot and cold water applications. FlowGuard Plus advantage means low bacterial growth and therefore, safe and hygienic water. It is fire retardant and does not support combustion. Moreover, it has high tensile strength, 25% better pressure bearing capacity and unparalleled UV resistance.

Product range

• **Pipes:** 15 to 250mm (1/2 to 10 inch) • **Fittings:** 15 to 150mm (1/2 to 6 inch)

Standards

Pipes				Fittings			
Size (mm)	Class	Standard	End Connection	Size (mm)	Class	Standard	End Connection
15 to 50	SDR 11	IS 15778	Solvent Cement Joint	15 to 50	SDR 11	ASTM D 2846	• Solvent Cement Sockets Joint. • For transition joints, fittings with plastic threads & metal threaded inserts.
15 to 50	SDR 13.5	IS 15778		65 to 100	SCH 80	ASTM F 439	
65 to 250	SCH - 40	ASTM F 441		150	SCH 40	ASTM F 438	
65 to 250	SCH - 80	ASTM F 441		-	-	-	



Features and benefits

- Lubrizol's NSF/ANSI 14 certified TEMPRITE® 88619 TAN 311 & TEMPRITE® 88096 TAN 311 CPVC compounds respectively
- Suitable for use up to 93°C
- High tensile and impact strength
- Freedom from toxicity, odours and tastes
- Low thermal expansion
- UV resistant
- **25% Higher pressure bearing capacity at higher temperatures**
- Consistent product quality
- Peace of mind assured
- Fire retardant
- No corrosion, leakage, scaling and pitting
- Lowest bacterial growth

Dimensions

Nominal Bore		Outside Diameter		SDR-11				SDR-13.5			
				Wall Thickness		Working Pressure		Wall Thickness		Working Pressure	
		Min	Max	Min	Max	At 27°C	At 82°C	Min	Max	At 27°C	At 82°C
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(Kg/cm²)	(Kg/cm²)	(mm)	(mm)	(Kg/cm²)	(Kg/cm²)
15	1/2	15.80	16.00	1.70#	2.20#	28.14	6.93	1.40#	1.90#	22.22	5.60
20	3/4	22.10	22.30	2.00	2.50	28.14	6.93	1.70	2.20	22.22	5.60
25	1	28.50	28.70	2.60	3.10	28.14	6.93	2.10	2.60	22.22	5.60
32	1 ¼	34.80	35.00	3.20	3.70	28.14	6.93	2.60	3.10	22.22	5.60
40	1 ½	41.20	41.40	3.80	4.30	28.14	6.93	3.10	3.60	22.22	5.60
50	2	53.90	54.10	4.90	5.50	28.14	6.93	4.00	4.60	22.22	5.60

Nominal Bore		Outside Diameter	Schedule 40				Schedule 80			
			Wall Thickness		Working Pressure		Wall Thickness		Working Pressure	
			Min	Max	At 23°C	At 82°C	Min	Max	At 23°C	At 82°C
(mm)	(inch)	(mm)	(mm)	(mm)	(Kg/cm²)	(Kg/cm²)	(mm)	(mm)	(Kg/cm²)	(Kg/cm²)
65	2 ½	73.00 (+/- 0.18)	5.16	5.77	21.10	5.30	7.01	7.85	29.57	7.34
80	3	88.90 (+/- 0.20)	5.49	6.15	18.25	4.58	7.62	8.53	26.00	6.32
100	4	114.30 (+/- 0.23)	6.02	6.73	15.49	3.87	8.56	9.58	22.53	5.60
150	6	168.30 (+/- 0.28)	7.11	7.97	12.64	3.16	10.97	12.29	19.68	4.89
200	8	219.10 (+/- 0.38)	8.18	9.17	11.21	2.85	12.70	14.22	17.54	4.18
250	10	273.10 (+/- 0.38)	9.27	10.39	9.89	2.44	15.06	16.86	16.21	3.87

FlowGuard Plus CPVC has 25% higher pressure bearing capacity at higher temperatures

Note: • Dimensions with '#' are not a function of SDR
• Fittings are suitable for corresponding pipe pressure ratings

PLUMBING

EASYFIT®

UPVC Plumbing Systems

KEEPS YOUR DRINKING WATER LEAD-FREE & YOU, TENSION-FREE.

Pb
LEAD-FREE

#Lead free pipes & fittings*

Pipes as per:
ASTM D 1785
(SCH 40 & SCH 80)

Fittings as per:
ASTM D 2466 (SCH 40)
ASTM D 2467 (SCH 80)

*except brass fittings

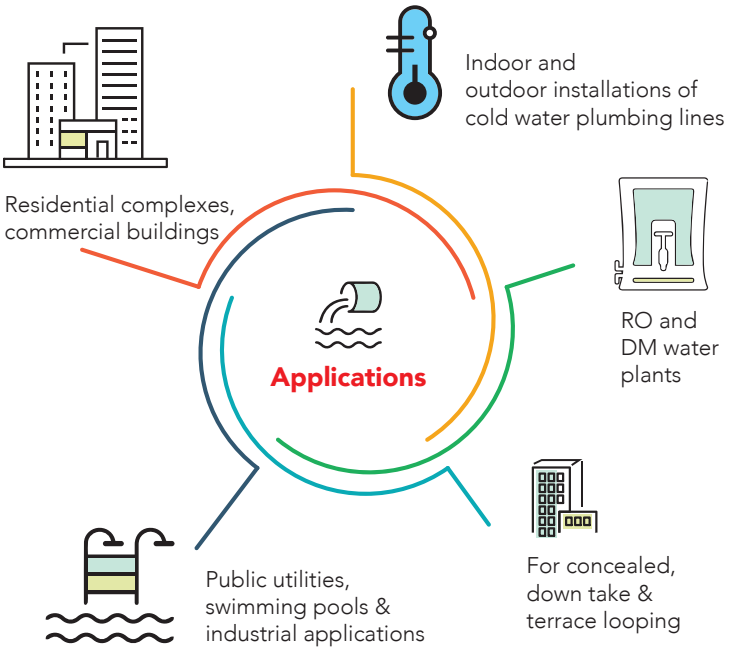
EASYFIT®
UPVC Plumbing Systems

Product range

• **Pipes:** 15 to 250mm (1/2 to 10 inch) • **Fittings:** 15 to 150mm (1/2 to 6 inch)

Standards

Pipes				Fittings			
Size (mm)	Class	Standard	End Connection	Size (mm)	Class	Standard	End Connection
15 to 250	SCH - 40	ASTM D - 1785	Solvent Cement Joint and Threaded Joint	15 to 150	SCH - 40	ASTM D 2466	• Solvent Cement Socket Joint. • For transition joints, fittings with plastic threads & metal threaded inserts are available.
15 to 250	SCH - 80	ASTM D - 1785		15 to 100	SCH - 80	ASTM D 2467	



Features and benefits

- Proven performance for water temperature from 5°C to 60°C
- Lead-free material ensures safe drinking water
- Self-extinguishing. Does not support combustion
- Fast and easy installation. Saves labour

Dimensions

Dimensional & working pressure details for Easyfit UPVC Pipes (Solvent Weld) at 23°C

Nominal Bore		Outside Diameter	Sch-40		Sch-80	
			Wall Thickness	Working Pressure	Wall Thickness	Working Pressure
(mm)	(inch)	(mm)	(mm)	(Kg/cm²)	(mm)	(Kg/cm²)
15	1/2	21.34 +/- 0.10	2.77 + 0.51	42.40	3.73 + 0.51	59.75
20	3/4	26.67 +/- 0.10	2.87 + 0.51	33.75	3.91 + 0.51	48.50
25	1	33.40 +/- 0.13	3.38 + 0.51	31.60	4.55 + 0.53	44.25
32	1 ¼	42.16 +/- 0.13	3.56 + 0.51	26.00	4.85 + 0.58	36.60
40	1 ½	48.26 +/- 0.15	3.68 + 0.51	23.25	5.08 + 0.61	33.00
50	2	60.32 +/- 0.15	3.91 + 0.51	19.65	5.54 + 0.66	28.10
65	2 ½	73.02 +/- 0.18	5.16 + 0.61	21.10	7.01 + 0.84	29.55
80	3	88.90 +/- 0.20	5.49 + 0.66	18.25	7.62 + 0.91	26.00
100	4	114.30 +/- 0.23	6.02 + 0.71	15.50	8.56 + 1.02	22.50
150	6	168.28 +/- 0.28	7.11 + 0.86	12.60	10.97 + 1.32	19.65
200	8	219.10 +/- 0.38	8.18 + 0.99	11.20	12.70 + 1.52	17.50
250	10	273.00 +/- 0.38	9.27 + 1.12	9.90	15.06 + 1.80	16.20

Working pressure details for Easyfit UPVC Fittings (Solvent Weld) at 23°C

Nominal Bore		Sch-40	Sch-80
		Working Pressure	Working Pressure
(mm)	(inch)	(Kg/cm²)	(Kg/cm²)
15	1/2	25.30	35.85
20	3/4	20.25	29.10
25	1	18.95	26.55
32	1 ¼	15.60	21.95
40	1 ½	13.95	19.80
50	2	11.75	16.85
65	2½	--	17.70
80	3	--	15.60
100	4	--	13.50
150	6	7.50	--

Working pressure for Metal Insert Fittings is 15Kg/cm²

Note: • *For threaded pipes & fittings, the working pressure at 23°C* shall be considered as 50% of rating

• Pressure rating of UPVC pipes & fittings is temperature related. Derating factor shall be applied for applications at higher temperatures

GREENFIT®

PP-R Plumbing Systems

SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

APPROVED BY WRAS WATER REGULATIONS ADVISORY SCHEME

100% FOOD SAFE

100% PPRC

Used in manufacturing of the pipes & fittings

Pipes as per IS 15801

Fittings as per DIN 16962

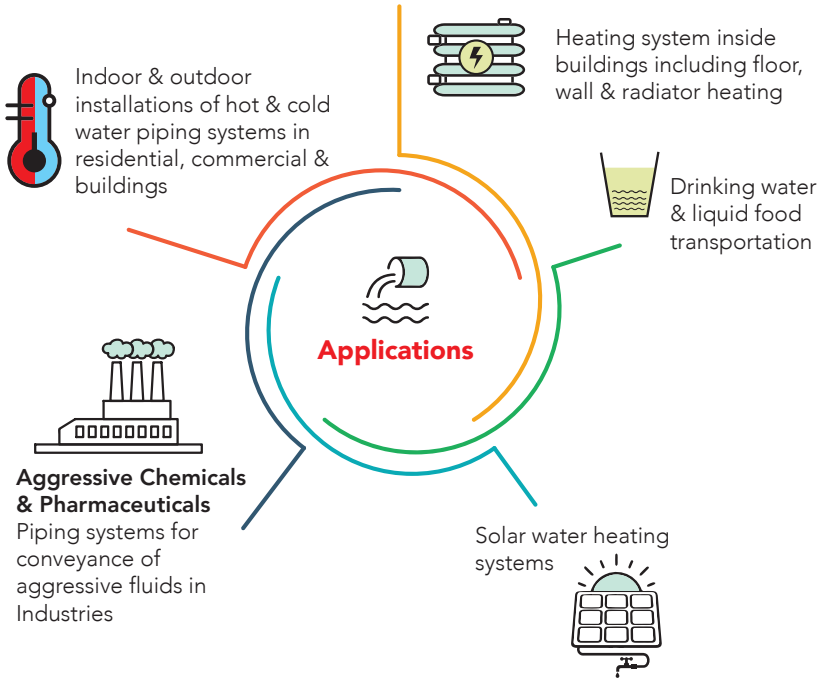
Product range

- **Pipes:** 20 to 160 mm Single layer & Triple layer
- **Fittings:** 20 to 160 mm
- **Coil Pipe:** 20 & 25 mm
- **Submersible Delivery Pipe:** 75, 90 & 110 mm

Standards

Pipes				
Size (mm)	**Working Pressure (Kg/cm²)**	**Standard**	**Colour**	**End Connection**
20 to 160	10, 16 & 20	IS: 15801	Single layer pipes - Green Triple layer pipe - Outer layer in Green Inner layer in white Thermex - Black	Poly-fusion welding joint

Fittings				
Size (mm)	**Working Pressure (Kg/cm²)**	**Standard**	**Colour**	**End Connection**
20 to 160	20 & 25	DIN:16962	Green	• Socket ends suitable for fusion welding. • For transition joints, fittings with threaded metal inserts



Features and benefits

- Proven hot & cold water performance from -20° C to 95° C
- No scaling. Can withstand higher 'pH' values
- UV resistant triple layered pipes are suitable for outdoor installations that are exposed to direct sunlight
- Good chemical resistance - suitable for most industrial liquids
- Heat-fusion jointing results in homogenous plastic system ensuring leak-proof joints
- Very less coefficient of friction, ensures high flow properties, reduce pumping cost
- Antimicrobial inside layer of 3 layered pipe adds to safety against bacterial growth ensuring safe drinking water
- Specially formulated thermex pipes reduce linear expansion / contraction of pipes due to temperature variance, ensuring suitability for outdoor application

Application note: Insulation is necessary at Sub Zero Temperature.

Dimensions

Nominal Size (Outside Diameter)	Wall Thickness		
	SDR 11 (PN 10)	SDR 7.4 (PN 16)	SDR 6 (PN 20)
(mm)	(mm)	(mm)	(mm)
20	1.90	2.80	3.40
25	2.30	3.50	4.20
32	2.90	4.40	5.40
40	3.70	5.50	6.70
50	4.60	6.90	8.30
63	5.80	8.60	10.50
75	6.80	10.30	12.50
90	8.20	12.30	15.00
110	10.00	15.10	18.30
160	14.60	21.90	26.60

INDUSTRIAL

BLUE GREENFIT®

PP-R Compressed Air Piping Systems

A ZERO DEFECT SOLUTION FOR COMPRESSED AIR APPLICATIONS

Pipes as per IS 15801

Fittings as per DIN 16962

Overview

Compressed air, one of the major sources of industrial energy is being used increasingly in manufacturing and process industries. Modern process equipment, pneumatic controls and instruments need clean and uncontaminated air supply for their smooth functioning. So, what we need is a new-age solution for compressed air and vacuum lines. This piping is given international colour code "**Blue Colour**" for air transmission. Blue Greenfit industrial piping systems are made of Polypropylene Random Copolymer suitable for air compressors, Instrumentation air, Vacuum & Nitrogen supply. Blue Greenfit is at par with global industry standards and is ideal for pneumatic applications.

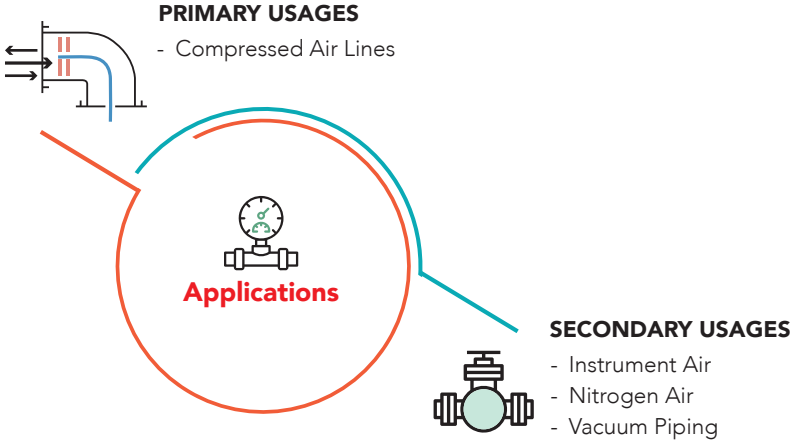
Product range

- **Pipes:** 20 to 160 mm as per PN 10 & PN 16 PN 20
- **Fittings:** 20 to 160 mm as per PN 20 & PN25

Standards

Pipes				
Size (mm)	**Working Pressure (Kg/cm²)**	**Standard**	**Colour**	**End Connection**
20 to 160	10, 16 & 20	IS: 15801	Triple layer pipe - Outer layer in Blue Inner layer in White	Poly-fusion welding joint

Fittings				
Size (mm)	**Working Pressure (Kg/cm²)**	**Standard**	**Colour**	**End Connection**
20 to 160	20 & 25	DIN:16962	Blue	Socket ends suitable for poly-fusion welding. For transition joints, fittings with threaded metal inserts.



PRIMARY USAGES

- Compressed Air Lines

SECONDARY USAGES

- Instrument Air
- Nitrogen Air
- Vacuum Piping

Features and benefits

- Can withstand operating temperatures from -20°C to 95°C
- UV resistant triple layered pipes are suitable for outdoor installations that are exposed to direct sunlight
- Heat-fusion jointing results in homogenous plastic system ensuring leak-proof joints
- These joints are better than the conventional metal and aluminium joints
- Smooth inner surface, ensuring least friction for the flowing air
- Negligible creation of moisture leading to corrosion free pipes
- Low thermal conductivity

Application note: Insulation is necessary at Sub Zero Temperature.

Dimensions

Nominal Size (Outside Diameter)	Wall Thickness		
	SDR 11 (PN 10)	SDR 7.4 (PN 16)	SDR 6 (PN 20)
(mm)	(mm)	(mm)	(mm)
20	1.90	2.80	3.40
25	2.30	3.50	4.20
32	2.90	4.40	5.40
40	3.70	5.50	6.70
50	4.60	6.90	8.30
63	5.80	8.60	10.50
75	6.80	10.30	12.50
90	8.20	12.30	15.00
110	10.00	15.10	18.30
160	14.60	21.90	26.60

SWR-Reclaim

EASYFIT® RE

Reclaim Piping Systems

WHAT WE DRAIN IS
HOW MUCH WE NEED.

Pipes as per:
ASTM D 1785 (SCH 40)
ASTM D 1785 (SCH 80)

Fittings as per:
ASTM D 2466 (SCH 40)
ASTM D 2467 (SCH 80)

Reclaimed water
Not for drinking

Overview

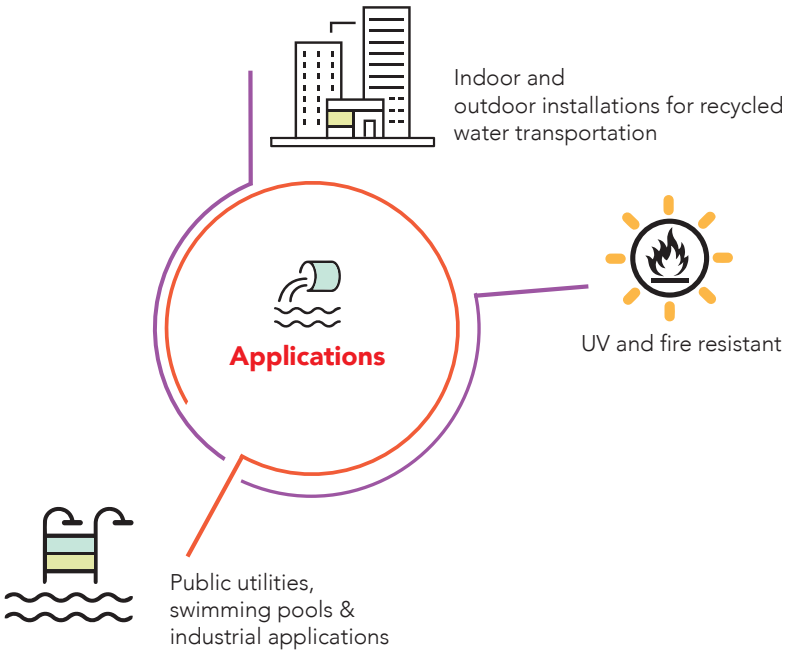
These pipes are specially designed to divert wastewater generated from bathtubs, shower drains, washing machines and kitchen sinks etc. into a system where it can be recycled to replenish depleting water resources. Cost effective, easy to install and UV + Fire resistant, these pipes can be easily identified by their purple color.

Product range

• **Pipes:** 15 to 250mm (1/2 to 10 inch) • **Fittings:** 15 to 150mm (1/2 to 6 inch)

Standards

Pipes				Fittings			
Size (mm)	Class	Standard	End Connection	Size (mm)	Class	Standard	End Connection
15 to 250	SCH - 40	ASTM D - 1785	Solvent Cement Joint and Threaded Joint	15 to 150	SCH - 40	ASTM D 2466	• Solvent Cement Socket Joint. • For transition joints, fittings with plastic threads & metal threaded inserts are available.
15 to 250	SCH - 80	ASTM D - 1785		15 to 100	SCH - 80	ASTM D 2467	



Features and benefits

- Proven performance for recycled water distribution
- Lead-free material
- Self-extinguishing. Does not support combustion
- Fast and easy installation. Saves labour

Dimensions

Dimensional & working pressure details for Easyfit UPVC Pipes (Solvent Weld) at 23°C

Nominal Bore		Outside Diameter	Sch-40		Sch-80	
			Wall Thickness	Working Pressure	Wall Thickness	Working Pressure
(mm)	(inch)	(mm)	(mm)	(Kg/cm²)	(mm)	(Kg/cm²)
15	1/2	21.34 +/- 0.10	2.77 + 0.51	42.40	3.73 + 0.51	59.75
20	3/4	26.67 +/- 0.10	2.87 + 0.51	33.75	3.91 + 0.51	48.50
25	1	33.40 +/- 0.13	3.38 + 0.51	31.60	4.55 + 0.53	44.25
32	1 ¼	42.16 +/- 0.13	3.56 + 0.51	26.00	4.85 + 0.58	36.60
40	1 ½	48.26 +/- 0.15	3.68 + 0.51	23.25	5.08 + 0.61	33.00
50	2	60.32 +/- 0.15	3.91 + 0.51	19.65	5.54 + 0.66	28.10
65	2 ½	73.02 +/- 0.18	5.16 + 0.61	21.10	7.01 + 0.84	29.55
80	3	88.90 +/- 0.20	5.49 + 0.66	18.25	7.62 + 0.91	26.00
100	4	114.30 +/- 0.23	6.02 + 0.71	15.50	8.56 + 1.02	22.50
150	6	168.28 +/- 0.28	7.11 + 0.86	12.60	10.97 + 1.32	19.65
200	8	219.10 +/- 0.38	8.18 + 0.99	11.20	12.70 + 1.52	17.50
250	10	273.00 +/- 0.38	9.27 + 1.12	9.90	15.06 + 1.80	16.20

Working pressure details for Easyfit UPVC Fittings (Solvent Weld) at 23°C

Nominal Bore		Sch-40	Sch-80
		Working Pressure	Working Pressure
(mm)	(inch)	(Kg/cm²)	(Kg/cm²)
15	1/2	25.30	35.85
20	3/4	20.25	29.10
25	1	18.95	26.55
32	1 ¼	15.60	21.95
40	1 ½	13.95	19.80
50	2	11.75	16.85
65	2½	--	17.70
80	3	--	15.60
100	4	--	13.50
150	6	7.50	--

Working pressure for Metal Insert Fittings is 15Kg/cm²

Note: • *For threaded pipes & fittings, the working pressure at 23°C* shall be considered as 50% of rating
• Pressure rating of UPVC pipes & fittings is temperature related. Derating factor shall be applied for applications at higher temperatures

SWR

SILENTFIT®

Low Noise SWR Piping Systems

A PREMIUM DRAINAGE SYSTEM THAT SILENTLY DOES ITS JOB

CERTIFIED BY Fraunhofer IBP GERMANY

Ref. Standard Pipes as per IS 13592

Ref. Standard Fittings as per IS 14735

Overview

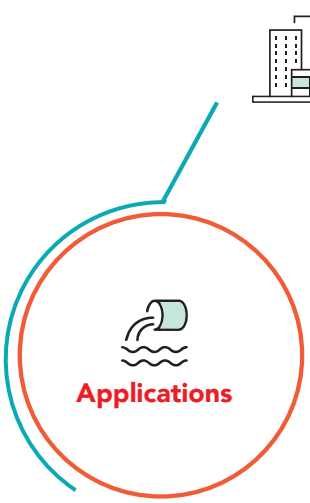
With inevitably noisy urban outdoors, it becomes important to ensure silence and peace of mind indoors. Introducing Prince Silentfit - premium noise insulated drainage piping systems. Made of three layers - the outer and inner layers are made of UPVC material while the middle layer is made of specially formulated PVC serving as a noise insulator the result is silent operation with efficient drainage.

Product range

- **Pipes:**
  - **Rubber Ring Joint:** 75, 110 & 160 mm
  - **Solvent Joint:** 40, 50, 63, 75, 110, 160 mm
- **Fittings:**
  - **Rubber Ring Joint:** 75, 110 & 160 mm
  - **Solvent Joint:** 40, 50, 63, 75, 110, 160 mm

Reference Standards

Pipes			Fittings		
Size (mm)	Ref. Standard	End Connection	Size (mm)	Ref. Standard	End Connection
40, 50, 63, 75, 110, 160	IS 13592	Solvent & Rubber Ring joint	40 to 160	IS 14735	Solvent & Rubber Ring joint



Residential and Commercial buildings that require a high level of noise protection (hospitals, educational institutes, offices, business premises & high-rise buildings etc.) Where high level of noise protection is required.

Features and benefits

- Silent operation
- Compatible with other drainage products
- Sockets with rubber sealing rings allow for thermal expansion & contraction of the pipeline
- The jointing and installation procedures are similar to a regular UPVC SWR piping system
- Self-extinguishing. Does not support combustion.
- Rubber sealing rings ensure firm insertion joints, zero leakage and prevent noise transmission
- Long life

Dimensions

Nominal Size (Outside Diameter)	Mean Outside Diameter		Wall Thickness	
	Minimum	Maximum	Minimum	Maximum
(mm)	(mm)	(mm)	(mm)	(mm)
40	40.00	40.20	3.20	3.40
50	50.00	50.20	3.20	3.40
63	63.00	63.30	3.20	3.50
75	75.00	75.30	3.20	3.50
110	110.00	110.30	3.40	3.80
160	160.00	160.40	4.20	4.60

SWR

ULTRAFIT®

SWR Systems
With World Class Seals

LEAK-PROOF SEWAGE FOR SEEPAGE-PROOF STRUCTURES.

Pipes as per
IS 13592

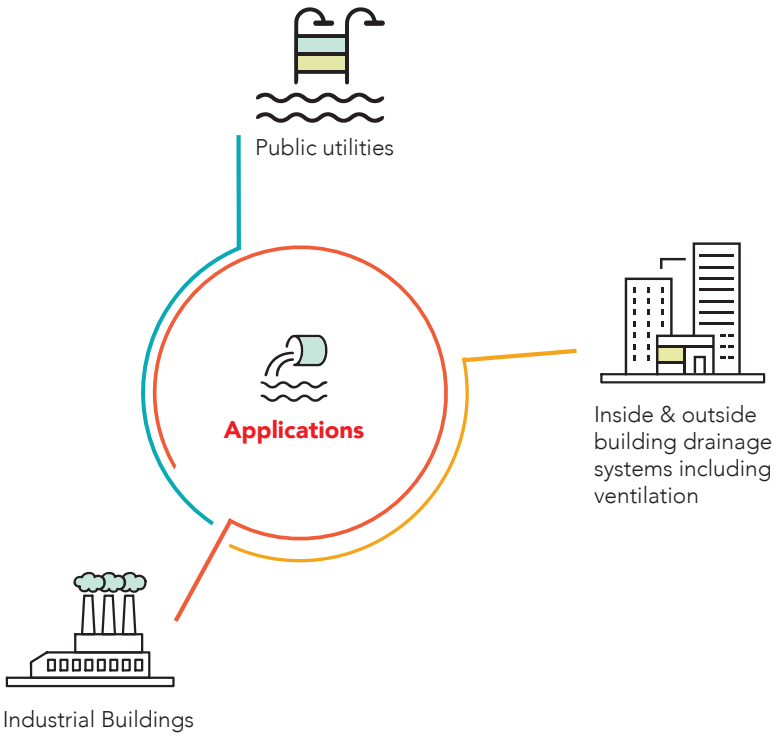
Fittings as per
IS 14735

Product range

- **Pipes:**
  - **Rubber Ring Joint:** 75 to 160 mm
  - **Solvent Joint:** 40 to 200 mm
- **Fittings:**
  - **Rubber Ring Joint:** 75, 90, 110 & 160 mm
  - **Solvent Joint:** 40 to 160 mm

Standards

Pipes				Fittings		
Size (mm)	**Standard**	**Type**	**End Connection**	**Size (mm)**	**Standard**	**End Connection**
40 to 200	IS 13592	**Type A** For ventilation pipe work, rain water discharge and harvesting.	Rubber Ring & Solvent Joint	75, 90, 110, 160	IS 14735	Rubber Ring Joint
		Type B For soil and waste discharge system.		40 to 160		Solvent Joint



Features and benefits

- Lighter but strong
- Compatible with other drainage products
- Easy to install with low assembly force
- Smooth bore
- Cost-efficient
- World-class seals ensure long term sealing performance against leakage.

AERATOR

SOLVENT JOINT I RUBBER RING JOINT
FOR SINGLE STACK SYSTEM

NOW M.C.G.M. APPROVED

Technical details

Nominal Size (Outside Diameter)	Mean Outside Diameter		Wall Thickness			
			Type A		Type B	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
40	40.00	40.30	1.80	2.20	3.20	3.80
50	50.00	50.30	1.80	2.20	3.20	3.80
63	63.00	63.30	1.80	2.20	3.20	3.80
75	75.00	75.30	1.80	2.20	3.20	3.80
90	90.00	90.30	1.90	2.30	3.20	3.80
110	110.00	110.40	2.20	2.70	3.20	3.80
160	160.00	160.50	3.20	3.80	4.00	4.60
200	200.00	200.60	-	-	4.90	5.60

SWR

RAINFIT®

Roofwater Systems

EFFICIENT FOR RAIN WATER COLLECTION AND CONVEYANCE

RAINFIT®
Roofwater Systems

Overview

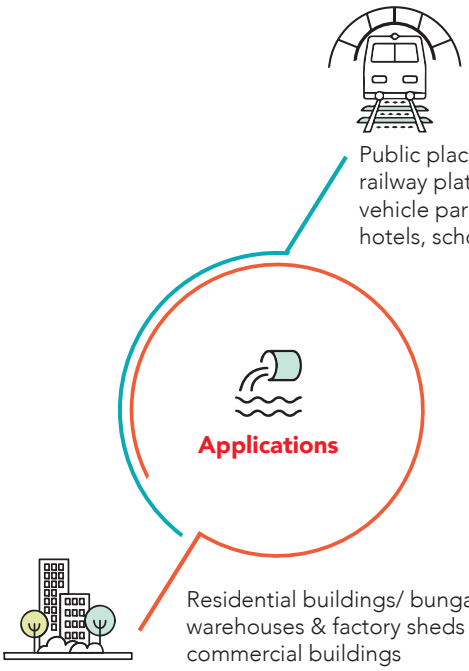
Rainfit Roofwater Systems are broadly used for collection and conveyance of rainwater. These specifically include storage in tanks and pits, recharging borewells, shafts and wells; and augmenting the underground water table through a proper mechanism to percolate soil.

Product range

- **Pipes:**
  - **Half Round Pipes** (uPVC): 140, 180, 250 mm
  - **Downtake Pipes** (uPVC): 75, 110 mm
- **Fittings:** (PP)
  75, 110, 140, 160, 180, 250 mm

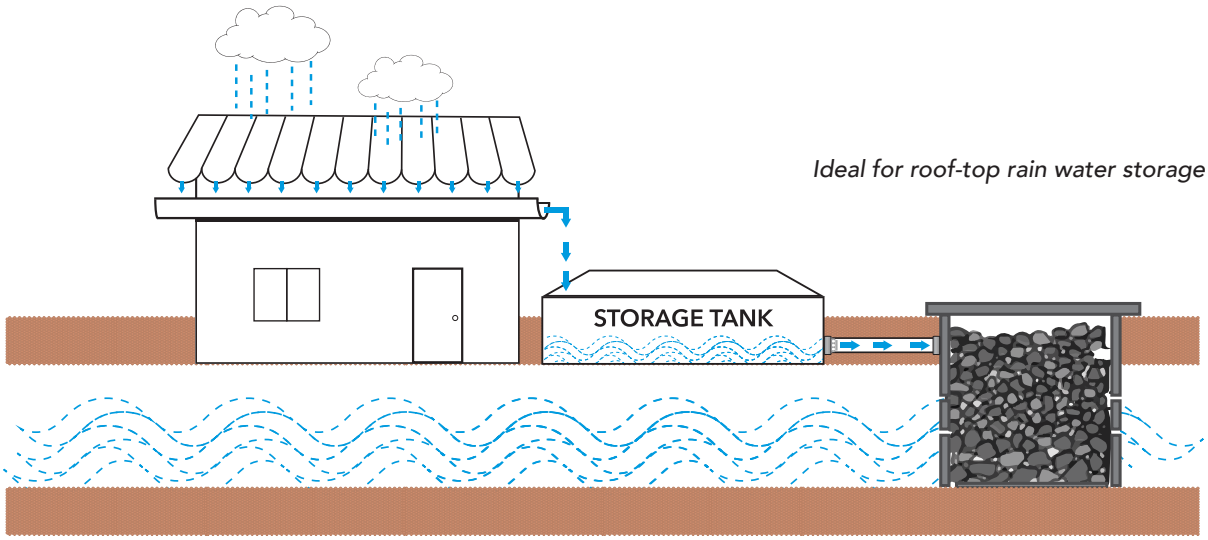
Standards

Pipes		Fittings	
Size (mm)	**End Connection**	**Size (mm)**	**End Connection**
Half Round Pipes - 140, 180, 250 Downtake Pipes - 75, 110	• Elastomeric rubber seal with clamps for half round pipes. • Solvent Joint & Rubber ring Joint for Down take pipes	75, 110, 140, 160, 180, 250	Elastomeric rubber seal with clamps



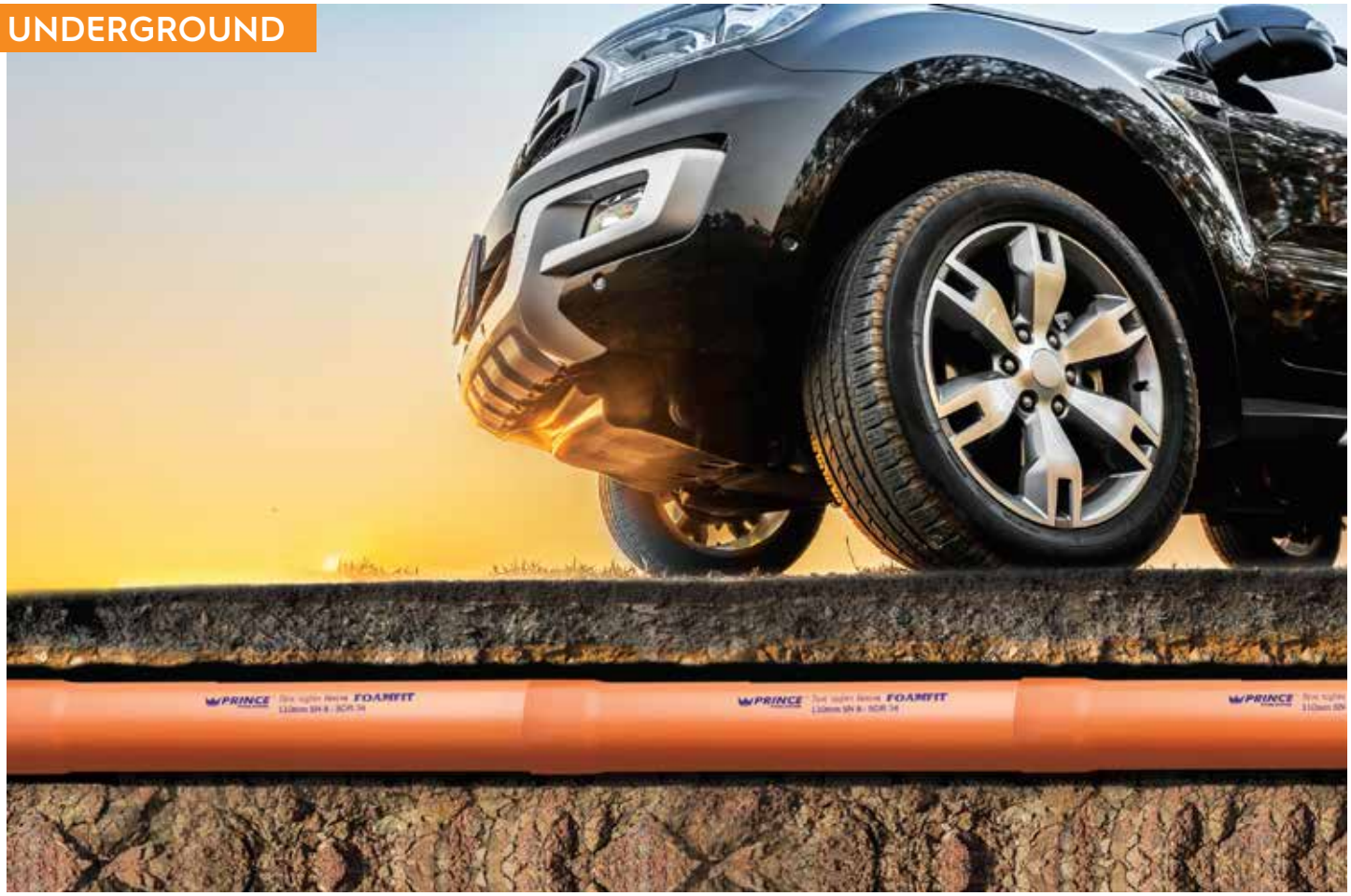
Features and benefits

- Advanced system design ensures effective collection of roof water and efficient discharge
- High mechanical and chemical strength can withstand aggressive environment
- Light weight, easy to handle, store and transport
- Easy to install Saves cost
- Long service life
- UV stabilized - can be installed in areas directly exposed to sunlight
- Smooth and glossy appearance gives it an attractive look



Ideal for roof-top rain water storage

UNDERGROUND



FOAMFIT®

Underground Drainage Piping Systems

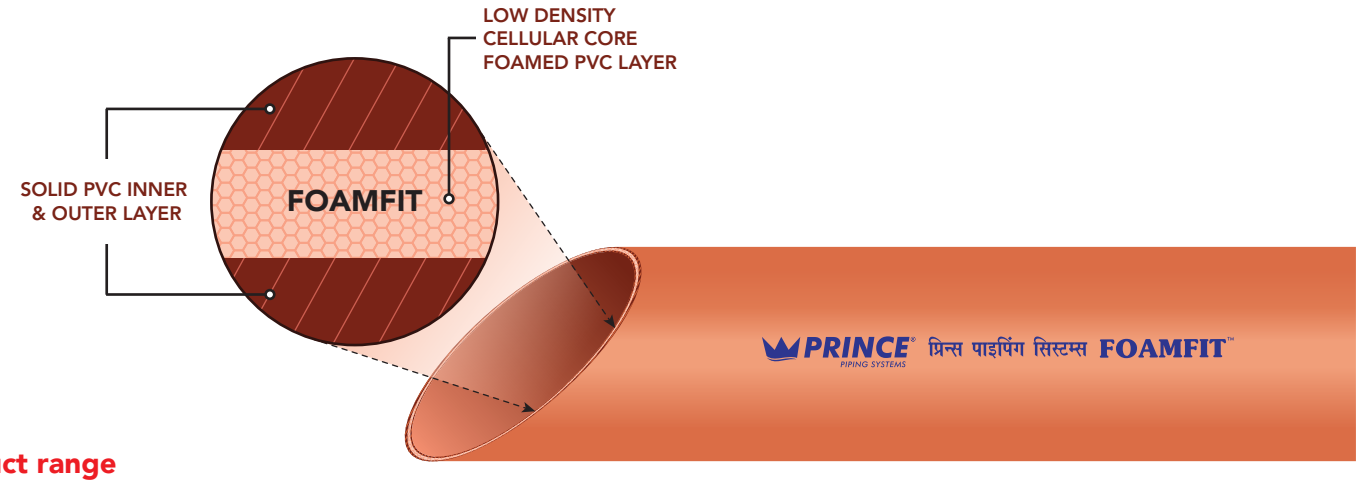
LIGHT WEIGHT SOLUTION FOR LONG LASTING DRAINAGE APPLICATION

Pipes as per IS 16098 (Part 1)

FOAMFIT®
Underground Drainage Piping Systems

Overview

An advanced drainage and sewerage solution, these multi-layer pipes are ideal for housing and government developments. While the outer and innermost layers give the pipe a great load bearing capacity, the middle layer provides firmness to the overall pipe structure. In short, better strength with a lighter weight as compared to solid wall PVC pipes.

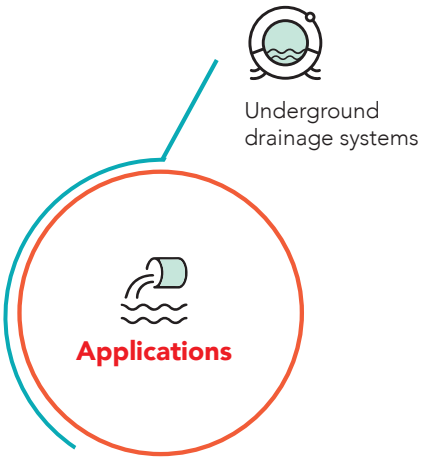


Product range

- **Pipes:** 110, 160, 200, 250 & 315 mm
- **Fittings:** 110, 160 & 200 mm

Standards

Pipes			Fittings	
Size (mm)	**Standard**	**End Connection**	**Size (mm)**	**End Connection**
SN 2 - 160, 200, 250, 315 **SN 4** - 110, 160, 200, 250, 315 **SN 8** - 110, 160, 200, 250, 315	IS 16098 (part 1)	Elastomeric Sealing Ring Joint & Solvent Joint	110, 160 & 200	Elastomeric Sealing Ring Joint & Solvent Joint



Features and benefits

- Lighter than solid wall UPVC pipe yet strong
- Easy for underground installations
- Available in long length of 6 meter so minimum joints ensuring less chances of leakage
- Compatible with other drainage & sewerage products
- Long life due to improved strength
- Cost saving
- Easy to install
- Anti rodent

Dimensions

Nominal Size (Outside Diameter)	Mean Outside Diameter		Wall Thickness					
			SN2 (SDR 51)		SN4 (SDR 41)		SN8 (SDR 34)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
110	110.00	110.40	-	-	2.80	3.30	3.20	3.70
160	160.00	160.50	3.20	3.70	4.00	4.60	4.70	5.40
200	200.00	200.60	3.90	4.50	4.90	5.60	5.90	6.70
250	250.00	250.80	4.90	5.60	6.20	7.00	7.30	8.30
315	315.00	316.00	6.20	7.00	7.70	8.70	9.20	10.40

UNDERGROUND

DRAINFIT™

UPVC Underground Drainage Piping Systems

FOR UNDERGROUND DRAINAGE APPLICATION

Pipes as per IS 15328

Fittings as per EN-1401-1

Overview

Drainfit Pipes are noticeably lighter and less expensive than existing PVC pipes/ concrete pipes. These pipes are interchangeable with solid wall pipes and are compatible with regular PVC fittings. We have introduced rubber and solvent fittings to offer a complete range of drainage piping systems.

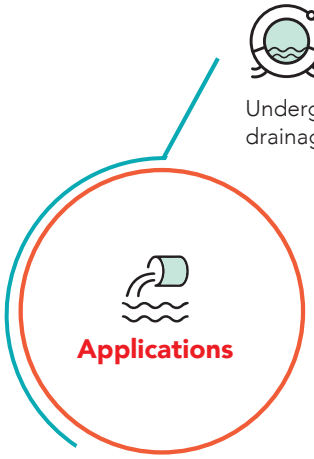
Product range

- **Pipes:** 63 to 400 mm
- **Fittings:** 110 & 160 mm

- **Inspection Chamber:**
  - **Blanking Plug:** 110 mm
  - **Straight Through:** 315 x 110 mm
  - **Left or Right 90° Bend:** 315 x 110 mm
  - **Left Hand 90° Junction:** 315 x 110 mm
  - **Right Hand 90° Junction:** 315 x 110 mm
  - **Left Hand 45° & 90° Junction:** 315 x 110 mm
  - **Right Hand 45° & 90° Junction** (Moulded): 315 x 110 mm
  - **5 Way Junction (NEW):** 315 x 110 mm
  - **Riser** (200mm Long): 315 mm

Standards

Pipes			Fittings		
Size (mm)	Standard	End Connection	Size (mm)	Standard	End Connection
SN 2 - 160 to 400 **SN 4** - 125 to 400 **SN 8** - 63 to 400	IS 15328	Elastomeric Sealing Ring & Solvent Joint	110 & 160	EN-1401-1	Elastomeric Sealing Ring & Solvent Joint



Features and benefits

- Leak proof
- Long life
- Anti-rodent
- Easy transportation, light in weight and easy in wet condition
- Fast and easy installation, even in wet conditions
- Resistance to abrasion, smooth bore pipes reduces the risk of blockage
- Good Impact resistance

Inspection Chamber

Inspection Chamber		
Size (mm)	Combination	Invert Depth (mm)
315	1. Base 2. Base with 01 no. riser 3. Base with 02 no. riser 4. Riser with 03 no. riser	195 355 515 675

Dimensions

Nominal Size (Outside Diameter)	Mean Outside Diameter		Wall Thickness					
			SN2 (SDR 51)		SN4 (SDR 41)		SN8 (SDR 34)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	63.00	63.30	-	-	-	-	2.70	3.10
75	75.00	75.30	-	-	-	-	2.80	3.30
90	90.00	90.30	-	-	-	-	2.90	3.40
110	110.00	110.40	-	-	-	-	3.20	3.70
125	125.00	125.40	-	-	3.20	3.70	3.70	4.40
160	160.00	160.50	3.20	3.70	4.00	4.60	4.70	5.40
200	200.00	200.60	3.90	4.50	4.90	5.60	5.90	6.70
250	250.00	250.80	4.90	5.60	6.20	7.00	7.30	8.30
315	315.00	316.00	6.20	7.00	7.70	8.70	9.20	10.40
400	400.00	401.20	7.90	8.90	9.80	11.00	11.70	13.10

UNDERGROUND

CORFIT®

Underground Double Wall Corrugated Pipes

A REVOLUTION TODAY FOR A CLEANER INDIA TOMORROW

Pipes as per IS 16098-2

Overview

Corfit DWC* Pipes and fittings are manufactured using HDPE polymer. These pipes are resistant to various types of gases & chemicals which are generated due to putrefaction of various ingredients flowing in the system.

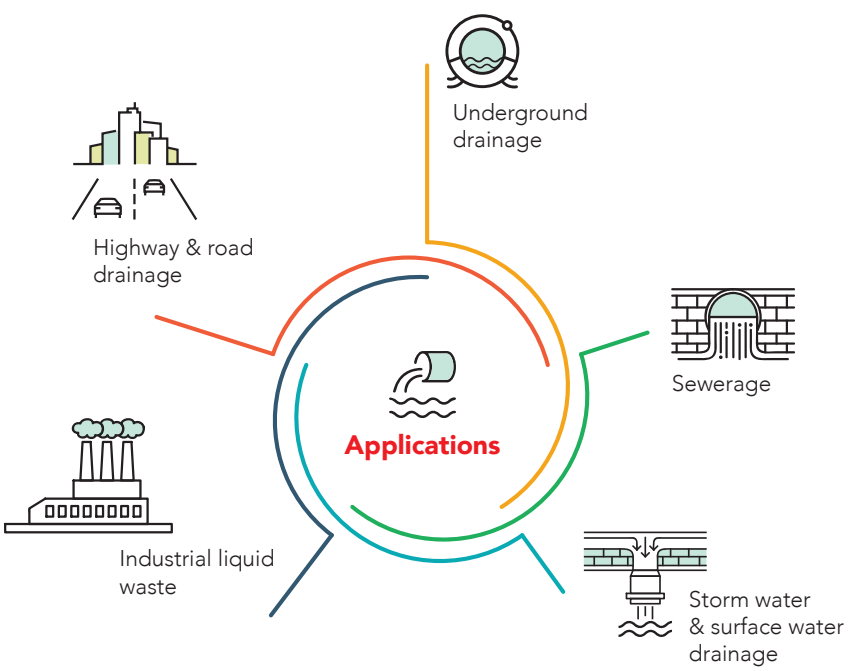
Corfit DWC* Pipes are manufactured as per IS 16098 (Part-2), have a smooth internal surface and corrugated external surface. The corrugated external surface provides greater stiffness, withstands soil movements & takes higher loads (static & dynamic), whereas the internal surface helps in smooth flow of sewerage.

Product range

- **Pipes:** 100 to 1000 mm nominal diameter
- **Fittings:** 100 to 500 mm
- **Inspection Chamber** (PVC & DWC End Connection)**:**
  PVC: 600 X 600, 600 X 750, 600 X 850, 600 X 1000, 600 X 1250 & 600 X 1350 mm
  DWC: 315 X 200, 315 X 350, 315 X 600, 315 X 750, 600 X 600, 600 X 750, 600 X 850, 600 X 1000, 600 X 1250 & 600 X 1350 mm
- **Manhole Chamber:** 600 X 500, 600 X 750, 600 X 1000 & 600 X 1250 mm

Standards

Pipes				Fittings		
Size (mm)	Class	Standard	End Connection	Size (mm)	Standard	End Connection
100 to 1000	SN4 & SN8	IS 16098 - Part 2	Rubber Ring Joint	100 to 500	-	Rubber Ring Joint



Features and benefits

- Easy to handle, transport and store
- Easy to install
- Superior performance than RCC Pipes
- Long life
- Available in long length of 6 meter so minimum joints ensuring less chances of leakage
- Corrosion & abrasion resistant
- Anti-rodent material

Dimensions

Pipe Sizes (mm)	Socket Length (min) (mm)
100	32
150	43
170	48
200	54
250	59
300	64
400	74
500	85
600	96
800	118
1000	140

**DWC - Double Wall Corrugated*

Inspection Chamber

315mm Inspection Chamber

600mm Inspection Chamber with closed side inlets

600mm Inspection Chamber with open side inlets

Note: Open & closed side inlet is available in 600mm. As per site requirement, the required size and side to be cut before installation.

UNDERGROUND

DURAFIT™

FRP Manhole & Chamber Covers

CORROSION-FREE. SKID-FREE.

Overview

Durafit FRP Manhole & Chamber Covers with frames are light weight & are superior to the conventional cast iron, ductile iron & RCC covers. The covers are available in various standard sizes with load bearing capacity from 1.5 to 40 tons.

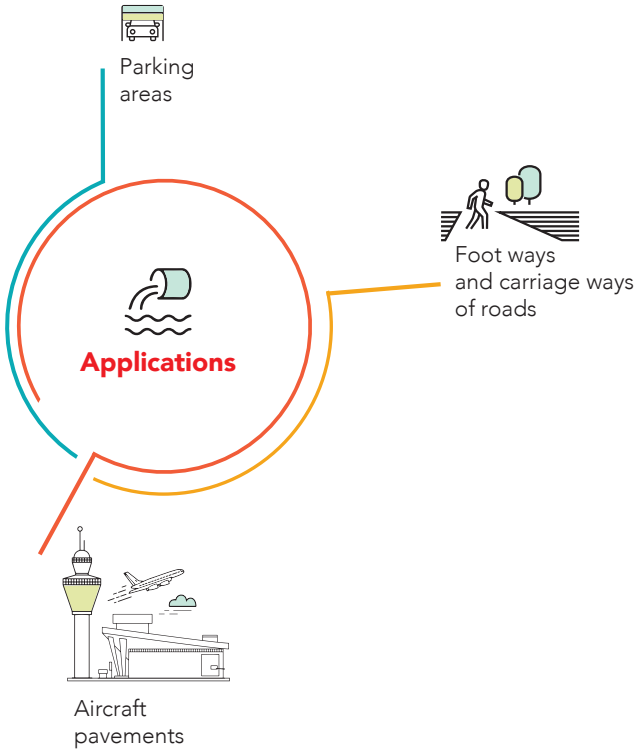
Product range

- **Chamber Cover**
  - **Circular:** 315 mm
  - **Square:** 10 X 10, 12 X 12, 18 X 18 inch
  - **Rectangular:** 18 X 24 inch
- **Gully Cover:** 450 X 450, 500 X 600, 600 X 600 900 X 600, 900 X 900 mm
- **Manhole Covers**
  - **Circular:** 530, 600 & 900 mm
  - **Square:** 300, 450, 600, 900, 1000, & 1200 mm
  - **Rectangular:** 600 X 450, 900 X 450, 900 X 600, 900 X 1200 & 1200 X 900 mm
- **Recessed Manhole Cover:** 300 X 300, 450 X 450, 450 X 900, 600 X 600 750 X 750, 900 X 900, 1000 X 1000 mm

Standards

Durafit Manhole covers are tested as per **BS EN 124 1994** for gully tops & manhole tops for vehicular & pedestrian areas.
Load & permanent set testing for following classes:

A-15kN (1.5 ton)	Areas which can only be used by pedestrians and pedal cyclists.
B-125kN (12.5 ton)	Carriage ways of roads (including pedestrian streets), hard shoulders and parking decks.
C-250kN (25.0 ton)	For gully tops installed in the area of kerbside channels of roads.
D-400kN (40.0 ton)	Carriage ways of roads (including pedestrian sheets), hard shoulders and parking areas for all types of road vehicles



Features and benefits

1. **Protection against theft with greater safety options**
   - Zero theft value, reducing potential accident and maintenance cost further caused by thieves
   - Locks are available as an option molded into the cover to improve security rate
   - Surface anti-slip thread guarantees safe road conditions even in extreme weather
2. **Light-weight**
   - 50% lighter compared to cast iron manhole covers
   - Its lighter weight allows more loading per vehicle and convenient transportation thus saving freight
   - Allows safer working conditions - a single worker is enough during installation without a risk of injury
3. **Durable service life**
   - Anti-corrosion, well-sealed, prevents poisonous gases, water, dust and pests from leaking out
   - Withstands temperatures from - 40°C to 200°C
4. **High Load Rating & Strength**
   - Similar hard property as cast iron, while having an overwhelming advantage on stretch recovery
   - Designed to meet and exceed A15/B125/C250/D400 load rating, according to En124:1994
   - Less noise & lower vibration transmissions

AGRI

AQUAFIT®

Agri Pressure & Non Pressure Piping Systems

AN EVERGREEN SOLUTION.

Pb LEAD-FREE

#Lead free pipes & fittings*

Pipes as per IS 4985

Fittings as per IS 7834

*except brass fittings

Overview

Pressure & Non-Pressure Pipes are manufactured in accordance with IS:4985 covering a complete range from 20 mm to 400 mm. They are available in pressure rating 2.5 Kg/cm², 4 Kg/cm², 6 Kg/cm², 8 Kg/cm², 10 Kg/cm², 12.5 Kg/cm² & 16 Kg/cm² as defined in IS:4985. The pipes are provided with plain socket and suitable for solvent cement jointing.

Their main application is in agriculture for water supply, drip irrigation & sprinkler lines etc. as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipe lines & slurry lines etc.

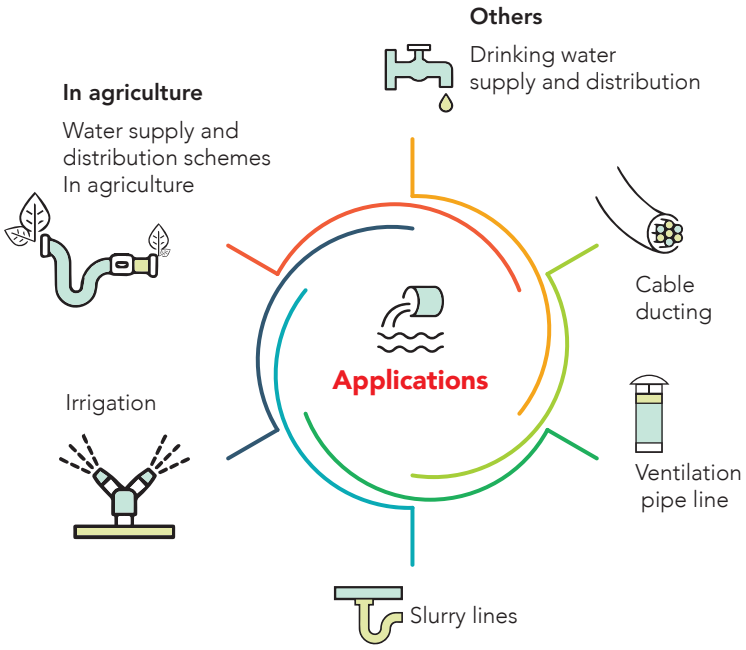
They are available in light grey colour and nominal length of 6 mtrs.

Product range

• **Pipes:** 20 to 400 mm • **Fittings:** 20 to 250 mm

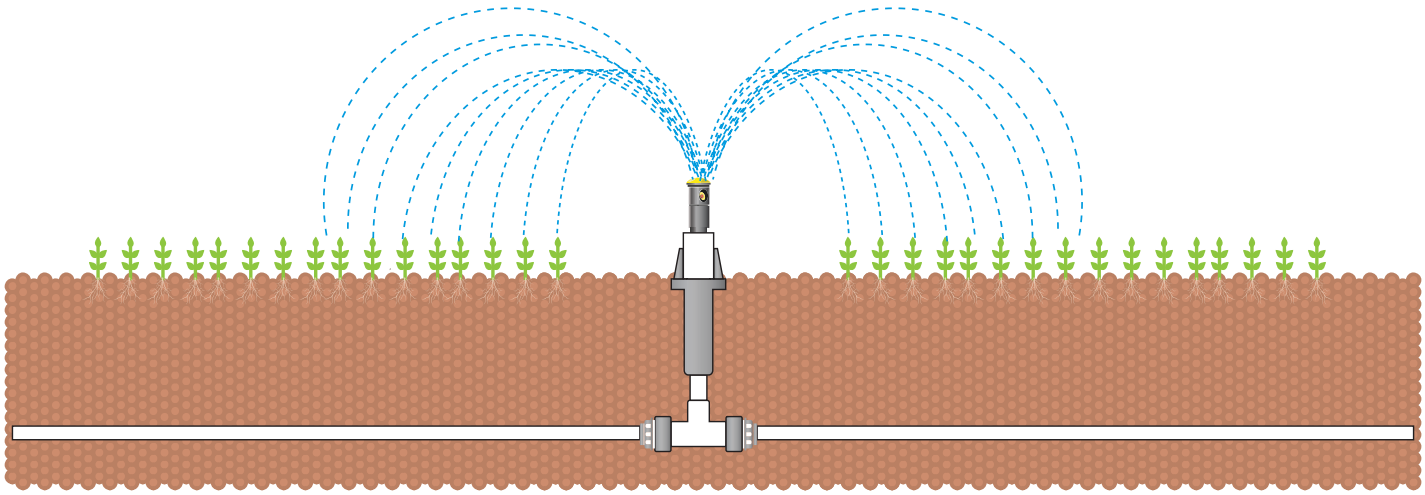
Standards

Pipes				Fittings			
Size (mm)	Working Pressure (Kg/cm²)	Standard	End Connection	Size (mm)	Working Pressure (Kg/cm²)	Standard	End Connection
20 to 400	2.5, 4, 6, 8, & 12.5	IS 4985	Solvent Joint	20 to 250	4, 6, 10 & 16	IS 7834	Solvent Joint, Threads (For transition fittings)



Features and benefits

- Light weight, easy to transport, store, handle and install. Saves labour
- Smooth bore ensures higher flow compared to G.I pipes and fittings of the same size. No clogging. Saves operational cost
- Solvent cement joint therefore quick installation
- Corrosion resistance, UPVC is rustproof material therefore bore diameter remains constant, ensuring constant flow over a lifetime
- Long working life (if operated under normal/ recommended working conditions)
- Cost effective. Added value for your money



Dimensions for Aquafit pipes

Nominal Outside Diameter (Nominal Size)	Mean Outside Diameter		Wall Thickness												Mean Socket Internal Diameter of Mid Point of Socket Length	
			Class 1 0.25 MPa 2.5 Kg/cm²		Class 2 0.40 MPa 4.0 Kg/cm²		Class 3 0.60 MPa 6.0 Kg/cm²		Class 4 0.80 MPa 8.0 Kg/cm²		Class 5 1.00 MPa 10.0 Kg/cm²		Class 6 1.25 MPa 12.5 Kg/cm²			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	20.0	20.3	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	20.1	20.3
25	25.0	25.0	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	25.1	25.3
32	32.0	32.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	32.1	32.3
40	40.0	40.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	40.1	40.3
50	50.0	50.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	50.1	50.3
63	63.0	63.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0	63.1	63.3
75	75.0	75.3	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9	75.1	75.3
90	90.0	90.3	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1	90.1	90.3
110	110.0	110.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7	110.1	110.4
125	125.0	125.4	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0	8.5	9.8	125.1	125.4
140	140.0	140.5	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0	140.2	140.5
160	160.0	160.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6	160.2	160.5
180	180.0	180.6	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1	180.2	180.5
200	200.0	200.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	13.6	15.7	200.3	200.6
225	225.0	225.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6	225.3	225.7
250	250.0	250.8	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6	250.4	250.8
280	280.0	280.9	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	19.0	21.9	280.4	280.9
315	315.0	316.0	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	21.4	24.7	315.4	316.0
355	355.0	356.1	5.1	5.9	8.1	9.4	12.0	13.8	15.8	18.2	19.6	22.6	24.1	27.8	355.4	356.0
400	400.0	401.2	5.8	6.7	9.1	10.5	13.5	15.6	17.8	20.5	22.0	25.3	27.2	31.3	400.4	401.0

Note: Pipes available with ISI mark except 400 mm.

Properties of UPVC Pipes

Mechanical

Tensile Strength	:	415 - 525 Kg/cm^2
Compression Strength	:	550 - 910 Kg/cm^2
Flexural Strength	:	680 - 1100 Kg/cm^2
Izod Impact Strength	:	4 - 5 Kg/cm^2
Shore Hardness	:	D 65 - 85

Thermal

Co-efficient of Linear Expansion	:	0.08 mm/M°C
Vicat Softening Temperature	:	>78°C
Max. Operating Temperature	:	60°C

Standards, Quality Control and Testing

The manufacturing and testing is done for pipes in accordance with IS: 4985
All the above pipes, except non-pressure pipes are tested for potable water supplies in accordance with their relevant standards and as per the test methods given in IS: 12235

Hazen - William's Flow Co-efficient Comparison

Pipe Material	PVC	A. C.	G. I.	C. I.
Flow Co-efficient	150	130	110	100

Pressure Rating vs Temperature Derating Factor

Temp Deg (C)	Derating factor
0-25	1
27	0.95
30	0.89
35	0.79
40	0.71
45	0.63
50	0.42
55	0.34
60	0.25

As the temperature of fluid flowing through installation increases, the pressure withstanding capacity of installation wall decreases. So to find out the pressure rating of PVC Pipes & Fittings at required temperature, multiply, the pressure rating of Pipes & Fittings by derating factor given in table.

Example:

Rated pressure of installed system 10 Kg,

Up to 25°C, the system can stand 10 Kg pressure,

If Temperature is 40°C, derating factor is 0.71,

Therefore 10 x 0.71 = 7.1 Kg.

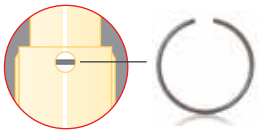
So, the system can withstand 7.1 Kg.

AGRI

SAFEFIT®

Borewell Systems

LIGHT WEIGHT.
LOW MAINTENANCE.
HIGH RESISTANCE.



CIRCLIP INSIDE
Patent Pending

Pipes as per
IS 12818

Overview

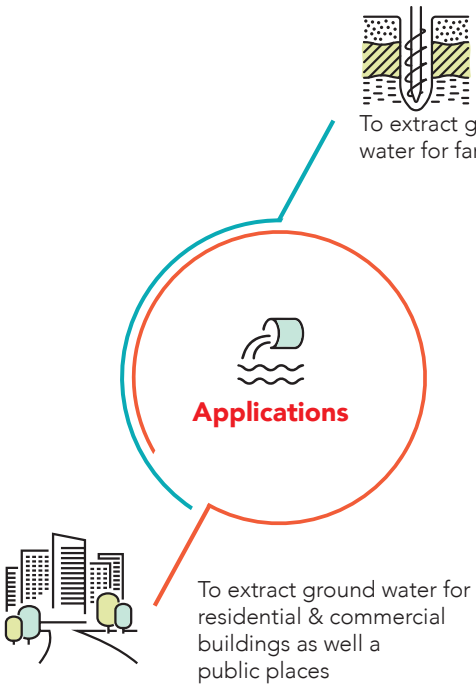
Designed to be used in borewell applications, these piping systems are made from a high-quality PVC compound that ensures they have high tensile strength, can withstand high impact and have minimum water friction. What makes them even more unique is the CIRCLIP locking system designed specially to withstand pressure during underground water extraction.

Product range

- **Screen Pipes:**
  40 to 250 mm (1½" to 10")
- **Casing Pipes:**
  40 to 250 mm (1½" to 10")
- **Rising Main Pipes:**
  25 to 100 mm (1" to 4")
- **Bell Form Pipes - V4:**
  25, 32, 40 mm (1", 1¼", 1½")

Standards

Pipes				
Pipes	**Type**	**Size (mm)**	**Standard**	**End Connection**
Screen Pipes	Ribbed Screen	40 to 250 (1½" to 10")	IS 12818	Threaded Joint
	Plain Screen - CM	200 to 250 (8" to 10")		
	Plain Screen - CS	200 to 250 (8" to 10")		
Casing Pipes	Casing Pipes - CM	40 to 250 (1½" to 10")		
	Casing Pipes - CS	150 to 250 (6" to 10")		
	Casing Pipes - CD	100 to 250 (4" to 10")		
Rising Main Pipes	V4 - Pipes	25 to 40 (1" to 1½")		
	Medium, Standard	25 to 100 (1" to 4")		
	Heavy Duty Pipes	32 to 100 (1¼" to 4")		
Bell Form Pipes	V4	25 ,32 ,40 (1", 1¼", 1½")	-	-



Features and benefits

- Easy to transport, store, handle and install
- Saves labour & installation cost
- Smooth bore ensures no clogging and higher flow compared to G.I. pipeline of the same size
- Bore diameter remains constant, ensuring constant flow over lifetime
- Superior resistance to most of the chemicals - no scaling makes the system almost maintenance-free
- Long life

Dimensions of Medium Well Screen (RMS) & Deep Well Screen (RDS) Pipes with Ribs / Ribbed Screen Pipes

Nominal Diameter (DN)		Mean Outer Diameter of the Pipe (d) (mm)		Medium Well Screen (RMS)			Deep Well Screen (RDS)		
				Mean Outer Diameter over Connection, ($d_{s'}$)	Wall Thickness 'e' (under ribs) (mm)		Mean Outer Diameter over Connection, ($d_{s'}$)	Wall Thickness, 'e' (mm)	
mm	inches	Min	Max	Max	Min	Max	Max	Min	Max
40.0	1½	52.00	52.20	56.00	3.50	4.00	--	--	--
50.0	2	64.00	64.20	69.00	4.00	4.60	--	--	--
80.0	3	92.00	92.30	98.00	4.00	4.60	--	--	--
100.0	4	117.00	117.30	124.00	5.00	5.70	129.00	7.00	7.90
115.0	4½	129.00	129.30	--	--	--	141.00	7.50	8.50
125.0	5	144.00	144.40	154.00	6.50	7.30	156.00	8.00	9.00
150.0	6	169.00	169.40	182.00	7.50	8.50	184.00	9.50	10.70
175.0	7	204.00	204.50	219.00	8.80	9.80	221.00	11.80	13.60
200.0	8	229.00	229.50	247.00	10.00	11.20	251.00	13.00	14.80
250.0	10	284.00	284.50	302.00	12.50	14.00	309.00	16.00	17.60
300.0	12	334.00	334.60	356.00	14.50	16.20	363.00	19.00	21.00
350.0	14	404.00	404.70	432.00	17.50	19.50	437.00	21.50	23.90
400.0	16	454.00	454.80	483.00	19.50	21.70	494.00	23.50	26.10

Dimensions of Plain Medium Well Screen (PMS) & Plain Deep Well Screen (PDS) Pipes

Nominal Diameter (DN)		Mean Outer Diameter of the Pipe (d) (mm)		Plain Medium Well Screen (PMS)			Plain Deep Well Screen (PDS)				
				Mean Outer Diameter over Connection, ($d_{s'}$)	Wall Thickness 'e' (mm)		Outer Diameter at any point $d_{e'}$ (mm)		Mean Outer Diameter over Connection, ($d_{s'}$)	Wall Thickness, 'e' (mm)	
mm	inches	Min	Max	Max	Min	Max	Min	Max	Max	Min	Max
200.0	8	225.00	225.50	243.00	10.00	11.20	224.50	225.80	247.00	13.00	14.80
250.0	10	280.0	280.50	298.00	12.50	14.00	279.40	280.80	304.00	16.00	17.60
300.0	12	330.00	330.60	352.00	14.50	16.20	329.30	331.00	359.00	19.00	21.00
350.0	14	400.0	400.70	428.00	17.50	19.50	399.20	401.20	433.00	21.50	23.90
400.0	16	450.00	450.80	479.00	19.50	21.70	449.10	451.30	490.00	23.50	26.10

Dimensions of Medium Well Casing (CM) & Shallow Well Casing (CS) Pipes

Nominal Diameter (DN)		Mean Outer Diameter of the Pipe (d) (mm)		Medium Well Casing (CM) Pipes			Shallow Well Casing (CS) Pipes		
				Mean Outer Diameter over Connection, ($d_{'s'}$)	Wall Thickness $_{'e'}$ (under ribs) (mm)		Mean Outer Diameter over Connection, ($d_{'s'}$)	Wall Thickness, $_{'e'}$ (mm)	
mm	inches	Min	Max	Max	Min	Max	Max	Min	Max
40.0	1½	48.00	48.20	52.00	3.50	4.00	--	--	--
50.0	2	60.00	60.20	65.00	4.00	4.60	--	--	--
80.0	3	88.00	88.30	94.00	4.00	4.60	--	--	--
100.0	4	113.00	113.30	120.00	5.00	5.70	--	--	--
125.0	5	140.00	140.40	150.00	6.50	7.30	--	--	--
150.0	6	165.00	165.40	178.00	7.50	8.50	174.00	5.70	6.50
175.0	7	200.00	200.50	215.00	8.80	9.80	211.00	7.00	7.80
200.0	8	225.00	225.50	243.00	10.00	11.20	238.00	7.60	8.80
250.0	10	280.00	280.50	298.00	12.50	14.00	292.00	9.60	11.00
300.0	12	330.00	330.60	352.00	14.50	16.20	--	--	--

Note: 32 mm (1¼") Nominal Diameter pipes are available on special request.

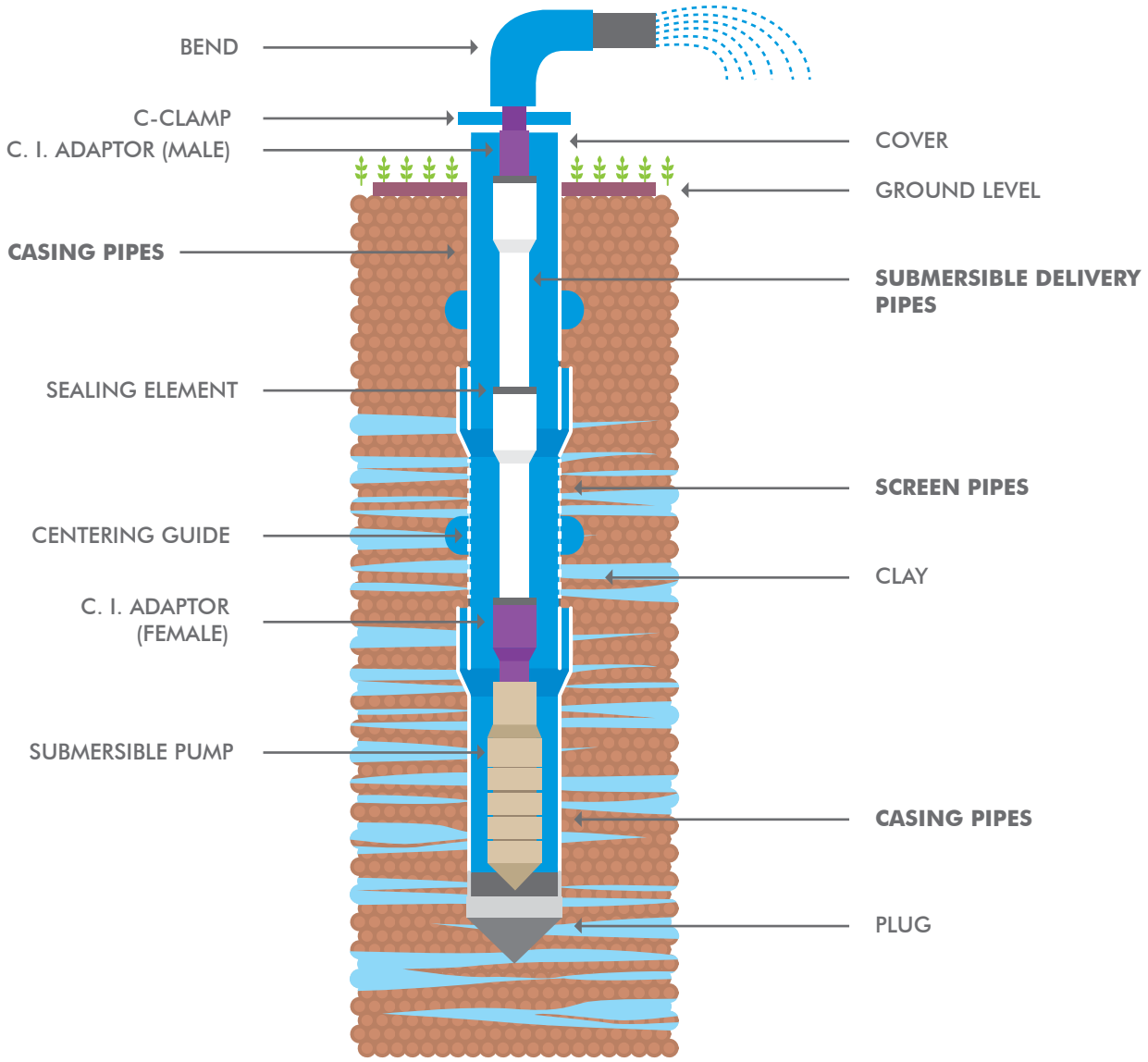
Dimensions of Deep Well Casing (CD) Pipes

Nominal Diameter (DN)		Mean Outer Diameter of the Pipe d $_{'em'}$ (mm)		Outer Diameter at any point $d_{'e'}$ (mm)		Mean Outer Diameter over Connection, ($d_{'s'}$)	Wall Thickness, $_{'e'}$ (mm)	
mm	inches	Min	Max	Min	Max	Max	Min	Max
100.0	4	113.00	113.30	112.80	113.40	125.00	7.00	7.90
115.0	4½	125.00	125.30	124.90	125.40	137.00	7.50	8.50
125.0	5	140.00	140.40	139.70	140.50	152.00	8.00	9.00
150.0	6	165.00	165.40	164.60	165.60	180.00	9.50	10.70
175.0	7	200.00	200.50	199.60	200.60	217.00	11.80	13.60
200.0	8	225.00	225.50	224.50	225.80	247.00	13.00	14.80
250.0	10	280.00	280.50	279.40	280.80	304.00	16.00	17.60
300.0	12	330.00	330.60	329.30	331.00	359.00	19.00	21.00
350.0	14	400.00	400.70	399.20	401.20	433.00	21.50	23.90
400.0	16	150.00	450.80	449.10	451.30	490.00	23.50	26.10

SPECIFICATION OF SAFEFIT SUBMERSIBLE DELIVERY PIPES / RISING MAIN PIPES

Product OD - Outside Dia. ND - Nominal Dia. in mm			Pressure Kg/cm²	Safe total Pump Delivery Head (m)	Ultimate Breaking Load (Kg)	Safe Pulling Load (Kg)	Screen Colour	Pump's	STD Packing
Size in mm	Type	Category							
25 (1″) OD-33.30 ND-25.00	Coupler	V4	12.5	125	850	500	Orange	V-3 & V-4	28
		V4	17	170	950	600	Purple	V-3 & V-4	
		Medium	22	220	1250	750	Green	V-4 & V-6	
		Std	30	300	1380	820	Red	V-4 & V-6	
		Std	38	380	1750	1100	Red	V-4 & V-6	
		Strong	8	80	550	320	Black	V-3 & V-4	
	Bell Form Coupler	V4	12.5	125	850	500	Orange	V-3 & V-4	28
		V4	17	170	950	600	Purple	V-3 & V-4	
		Strong	8	80	550	320	Black	V-3 & V-4	
32 (1¼″) OD-42.10 ND-32.00	Coupler	V4	12.5	125	1350	800	Orange	V- 3 & V-4	20
		V4	17	170	1500	900	Purple	V- 3 & V-4	
		Medium	21	210	1725	1000	Green	V-4 & V-6	
		Std	30	300	2350	1400	Red	V-4 & V-6	
		Heavy	39	390	2900	1750	Blue	V-4 & V-6	
		Heavy +	48	480	3550	2130	Black	V-4 & V-6	
	Bell Form Coupler	V4	12.5	125	1350	800	Orange	V-4 & V-6	20
		V4	17	170	1500	900	Purple	V-3 & V-4	
		Std	30	300	2350	1400	Red	V-3 & V-4	
40 (1½″) OD-48.20 ND-40.00	Coupler	V4	16	160	1850	1100	Purple	V-4 & V-6	16
		Medium	22	220	2400	1450	Green	V-4 & V-6	
		Std	26	260	2750	1650	Red	V-4 & V-6	
		Heavy	39	390	3700	2250	Blue	V-4 & V-6	
		Heavy +	48	480	3550	2130	Black	V-4 & V-6	
	Bell Form Coupler	V4	17	170	1965	1180	Purple	V-4 & V-6	
50 (2″) OD-60.20 ND-50.00	Coupler	Medium	10	100	1750	1050	Green	V-4 & V-6	12
		Medium	14	140	2450	1450	Green	V-4 & V-6	
		Std	20	200	3500	2100	Red	V-4 & V-6	
		Heavy	27	270	4600	2800	Blue	V-4 & V-6	
		Heavy +	36	360	5700	3420	Black	V-4 & V-6	
65 (2½″) OD-75.00 ND-65.00	Coupler	Medium	11	110	3100	1800	Green	V-6 & V-8	8
		Std	16	160	4500	2700	Red	V-6 & V-8	
		Heavy	26	260	6450	3900	Blue	V-6 & V-8	
80 (3″) OD-88.00 ND-80.00	Coupler	Medium	11	110	4100	2450	Green	V-6 & V-8	6
		Std	17	170	6400	3800	Red	V-6 & V-8	
		Heavy	26	260	8900	5300	Blue	V-6 & V-8	
100 (4″) OD-113.00 ND-100.00	Coupler	Medium	10	100	6500	3900	Green	V-6 & V-8	4
		Std	15	150	9250	5550	Red	V-6 & V-8	
		Heavy	26	260	14450	8700	Blue	V-6 & V-8	

Typical layout of Borewell



Casing Pipes

Screen Pipes

Submersible Delivery Pipes

Bell Form Coupler

STOREFIT™
Paani Ka Bank

THE QUALITY YOU LOVE IN PRINCE PIPES, NOW IN A WATER TANK!

Upto 10% EXTRA* STORAGE CAPACITY

Pb LEAD FREE

As per IS 12701:1996 *

CM/L- 7700161513

*T & C Apply

Overview

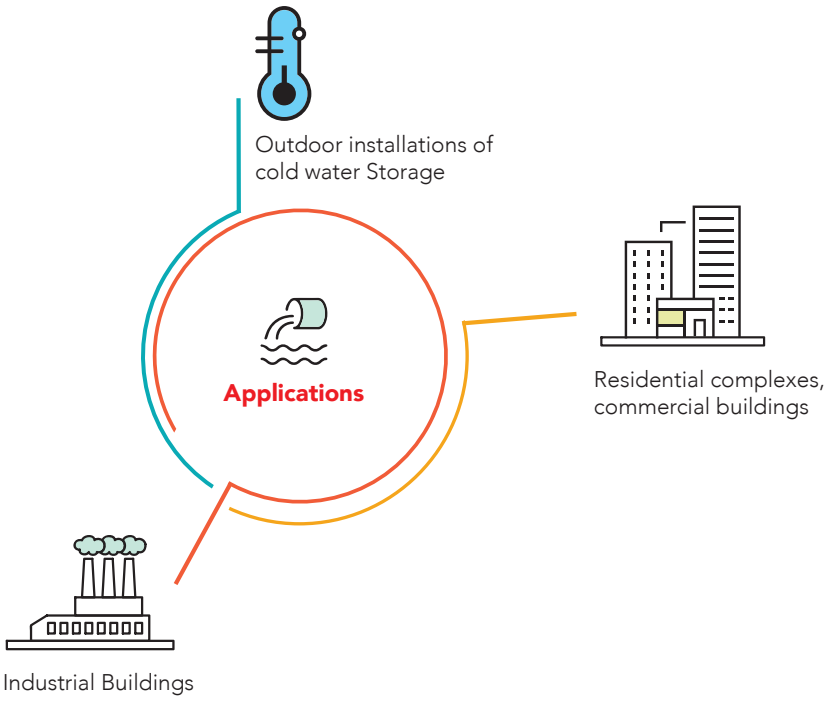
Pipes brings its mastery of PVC to a new segment: Prince Storefit Water Tanks as part of the company's introductory range of overhead water storage solutions. The products are manufactured using the roto moulding process and finds extensive use for installation at home, offices, factories, commercial places and hospitals that need large volumes of hygienic water storages. Designed with 3 layer insulation- Outer white layer for UV resistance, Insulated black middle layer: maintains water temperature lower than ambient temperature, Inner food grade polymer layer: prevents water contamination. Storefit - Paani Ka Bank comes with a 5 year warranty.

Product range

- **Tanks:** 500 to 10,000 Litres

Standards

Tanks		
Size (Capacity in Litres)	**Standard**	**Compatible Products**
500, 750, 1000, 1500, 2000, 3000, 5000 & 10,000	IS 12701:1996*	• FlowGuard CPVC Pipes • Easyfit UPVC Pipes • Ball Valves • CPVC & UPVC Fittings • Solvents



Features and benefits

- **UV Stabilization:** UV stabilized material prevents degradation and ensures no environmental stress, cracking, chalking or loss in the physical properties of the tank.
- **Food Grade:** Safe for drinking
- **Built Stronger:** Extra ribs for enhanced durability. Reduced bulging with full tank. Minimized chances of bursting under pressure.
- **Easy Installation:** Provision of multiple plumbing inlets and outlets for the ease of connection.
- **Threaded Lid**: Enhances the life of cover. Keeps water free from dust and flies.
- **Air Ventilator**: Built-in ventilator allows water to breathe (to natural oxygen level) and stay fresh. They also help to avoid deformations.
- **UV Protection Cover**: Additional black cover below the lid to prevent entering of UV rays from the top opening of tank.
- **Antimicrobial**: Inner layer added with silver based antimicrobial agent which prevents bacterial growth and keeps water fresh.

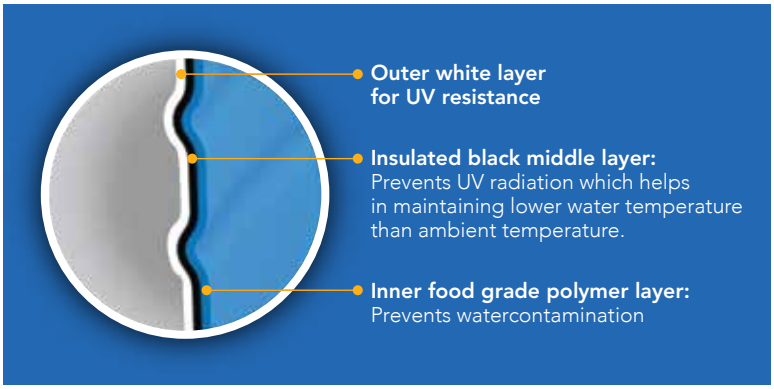
Dimensions

Storefit water tanks come in a wide range of sizes to cater to your specific needs.

Size (Capacity in Litres)	Diameter	Height	Lid
	(inches)	(inches)	(inches)
500	35	40	18
750	40	44	18
1000	42	52	18
1500	49	58	18
2000	54	62	18
3000	63	69	18
5000	75	81	18
10000	86	122	18

Note: Upto 10,000 litres available only at Dadra Plant
**ISI approval tanks are available at Dadra plant upto 3000 litres (two layer)*

Designed With 3-layer Insulation



Prince Zero Defect Network

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GeM Government e Marketplace

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All Product Booklet/PPF/EL/Rev. No. 06/December 2021
Printed in December 2021

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