



Rigid PVC Pressure pipes and fittings

The Supreme Industries Ltd., has evolved to become an undisputed leader in India's plastic industry, with valuable experience in providing innovative and cost effective piping solution. Supreme is the name synonymous with quality, innovation and service. Supreme is trend setters in plastic piping system in India. Company's objective is to meet the growing needs of the customers in water, waste management and infrastructure sector through specially developed high performance piping range. The Supreme comprehensive and exclusive range of plastic pipe systems are designed and manufactured to meet the highest standards set across the world. Supreme has no doubt, brought about a revolution in the Indian plastics piping industry.

Supreme PVC pressure piping system with wide spectrum of pipes and fittings in different sizes and pressure class is perfect and ideal solution for water supply and irrigation. It's portfolio today consists of more than 5000 variety of products and caters to various piping applications. Due to its innovative range of products coupled with meticulous quality assurance, Supreme is referred to as **"People who know plastics best."** As a result, Supreme piping systems are prime choice of farmers, water supply bodies, architects, builders, government bodies and have successfully replaced conventional piping products.



IS:4985-2000



CM/L 1235335

THE SYSTEM

Supreme offers an exhaustive range of uPVC pressure pipes and fittings. Pressure pipes are manufactured as per IS 4985: 2000 standard and are available in 20 mm to 450 mm sizes in different pressure class. Pipes with both types of joints i.e. solvent cement type and rubber seal type are available. Varieties of moulded fittings and wide range of handmade fittings are also available. Moulded fittings are manufactured as per IS 7834 and fabricated fittings are manufactured as per IS 10124 as well as company standards. These pipes and fittings are used for variety of applications like, agriculture, irrigation, water supply, industrial process lines, swimming pools and fire fighting mains, etc. These pipes are superior to C.I., D.I. or R.C.C. pipes and offers number of advantages like- lightweight, easy and fast installation, excellent corrosion and chemical resistance, high flow rates, long life and economy.

ADVANTAGES OF SUPREME RIGID PVC PIPES:

Odourless and hygienic: These pipes are most ideal for carrying drinking water as they do not subject to contamination.

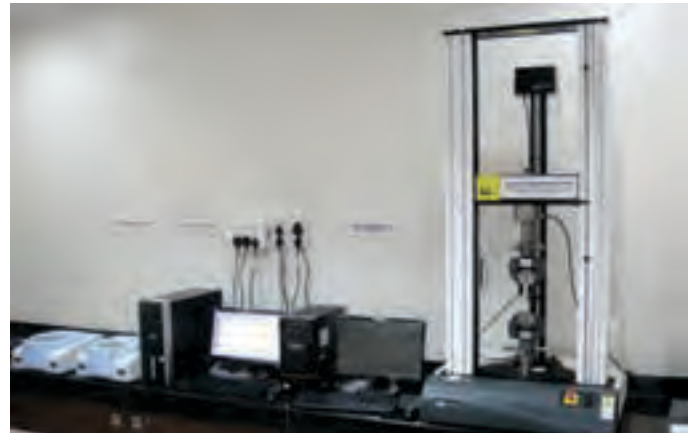
High corrosion resistance : Being immune to chemical, electrolytic and galvanic action, these pipes are free from corrosion.

High chemical resistance : Pipes offer excellent resistance to acids, oxidizing agents, alkalis, oils and domestic effluents.

Smooth bore : Pipes have mirror smooth inside surface and hence better flow characteristics in comparison to AC, CI and GI pipes.

Self extinguishing quality : This eliminates need for fire resistant coatings.

Maintenance free : Corrosion resistance property of the PVC pipes, eliminates the need for painting or coating.



Longer lasting : As these pipes are free from weakness caused by scale formation, rusting, weathering and chemical action, they lasts for a life time.

Economical : Apart from superiority over conventional pipes, Supreme PVC pipes are light in weight and hence they offer total economy in handling, transportation and installation.

PROPERTIES:

Hazen Williams constant	: 150 (remains constant)
Specific gravity	: 1.41 -1.46
Coefficient of linear expansion	: $5.4 \times 10^{-5} \text{ mm / m / } ^\circ\text{C}$
Combined flexural and compressive strength	: 600 - 650 kgf/cm ²
Impact strength at 20°C	: 3 Kgf/cm ²
Modulus of elasticity	: $3 - 3.8 \times 10^4 \text{ Kgf/cm}^2$
Vicat softening point	: 80°C
Electrical resistance	: 10^{14} ohm, cm

Dimensions of uPVC Pressure Pipes as per : IS 4985:2000

Nominal Outside Diameter (D)	Tolerance on Outside Diameter	Wall Thickness (t) mm													
		Class 1(PN) 2.5 kgf/cm ²		Class 2(PN) 4 kgf/cm ²		Class 3(PN) 6 kgf/cm ²		Class 4(PN) 8 kgf/cm ²		Class 5(PN) 10 kgf/cm ²		Class 6(PN) 12.5 kgf/cm ²		Plumbing Pipes	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	+ 0.3	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	2.8	3.3
25	+ 0.3	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	2.9	3.4
32	+ 0.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	3.4	3.9
40	+ 0.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	3.6	4.2
50	+ 0.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	3.7	4.3
63	+ 0.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0		
75	+ 0.3	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9		
90	+ 0.3	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1		
110	+ 0.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7		
125	+ 0.4	-	-	2.9	3.4	4.3	5.0	-	-	-	-	-	-		
140	+ 0.5	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0		
160	+ 0.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6		
180	+ 0.6	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1		
200	+ 0.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	13.6	15.7		
225	+ 0.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6		
250	+ 0.8	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6		
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	-	-		
355	+ 1.1	5.1	5.9	8.1	9.4	12.0	13.8	15.8	18.2	-	-	-	-		
400	+ 1.2	5.8	6.7	9.1	10.5	13.5	15.6	-	-	-	-	-	-		
450	+ 1.4	6.5	7.5	10.3	11.9	15.2	17.5	-	-	-	-	-	-		

Note : 1) Pipes are offered in Light Grey (LG) and/or Dark Grey (DG) colour in standard lengths of 6 meter. Pipes are offered either plain or socketed, based on diameter and class of pipe. 2) Ringtight pipes with integral rubber ring socket (Elastomeric joint) are available in 63mm to 315mm in 4,6 and 10 kgf/cm² pressure class. 3) Non standard wall thickness, lengths and colour can also be offered, if desired. 4) Prefix "PN" indicates Nominal Pressure i.e. working pressure .

SALIENT FEATURES:





General dimensions are conforming to IS 7834 - 87.




Wall thickness is designed to meet required working pressure.

Made to close dimensional tolerance.







Higher working pressure rating of 10 kgf/cm² for 20, 25 and 32 mm and 6 kgf/cm² for 40 mm and above sizes.






Availability of PN16 fittings.

	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
	20	1/2	10
	25	3/4	10
	32	1	10
	40	1 1/4	6
	50	1 1/2	6, 16
	63	2	1, 6, 10, 16
	75	2 1/2	1, 6, 10, 16
	90	3	1, 6, 10, 16
	110	4	1, 6, 10, 16
	140	5	6
	160	6	6
	200	8	6
COUPLER	Application/Special note : These are used for joining of two uPVC pipes. Fabricated couplers are also available in 20 to 400mm sizes in different pressure class.		
	20	1/2	3, 10
	25	3/4	3, 10, 16
	32	1	3, 10, 16
	40	1 1/4	3, 6, 16
	50	1 1/2	3, 4, 6, 16
	63	2	1, 2, 3, 4, 6, 10, 16
	75	2 1/2	1, 2, 3, 4, 6, 10, 16
	90	3	1, 2, 3, 4, 6, 10, 16
	110	4	1, 2, 3, 4, 6, 10, 16
	140	5	4, 6
	160	6	4, 6
	180	7	6
200	8	4, 6	
250	10	6	
ELBOW 90° (Plain)	Application/Special note : These are used for short turns of 90°. These are not advisable on large pipeline involving high pressure.		
	32x25	1x3/4	10
REDUCING ELBOW (H.W.)			
	20x1/2"	1/2	10
	25x1/2"	3/4	10
	25x3/4"	3/4	10
	50x1 1/2"	1 1/2	16
	63x2"	2	6, 16
	75x2"	2	6
	75x2 1/2"	2 1/2	6
	90x3"	3	6
ELBOW 90° One side threaded	Application/Special note : These are used for short turns of 90°. These are not advisable on large pipe lines.		





	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
	20	1/2	16
	25	3/4	16
	32	1	16
	40	1 1/4	16
	50	1 1/2	16
	63	2	16
	75	2 1/2	16
	90	3	16
	110	4	16
	140	5	4
	200	8	4
	ELBOW 45°		
	20	1/2	3, 10
	25	3/4	3, 10, 16
	32	1	3, 10, 16
	40	1 1/4	3, 6, 16
	50	1 1/2	3, 4, 6, 16
	63	2	1, 2, 3, 4, 6, 10, 16
	75	2 1/2	1, 2, 3, 4, 6, 10, 16
	90	3	1, 2, 3, 4, 6, 10, 16
	110	4	1, 2, 3, 4, 6, 10, 16
	140	5	4, 6
	160	6	4, 6
	180	7	6
200	8	4, 6	
250	10	6	
EQUAL TEE	Application/Special note : These are used for bypass and taking equal size service line out of main line at 90°.		
	25x20	3/4x1/2	10
	32x20	1x1/2	10
	32x25	1x3/4	10
	40x25	1 1/4x3/4	10
	50x25	1 1/2x3/4	10
	50x32	1 1/2x1	6
	63x25	2x3/4	10
	63x32	2x1	10
	63x50	2x1 1/2	6, 10
	75x63	2 1/2x2	4, 6
	90x63	3x2	4
	90x75	3x2 1/2	4, 6
110x63	4x2	6	
110x75	4x2 1/2	4, 6	
110x90	4x3	4	
160x75	6x2 1/2	4	
160x110	6x4	4, 6	
200x160	8x6	6	
REDUCING TEE	Application/Special note : These are used for bypass and taking lower diameter service line out of main line.		




Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colour. All the fittings shown in dark grey colour are in PN 16 pressure class. 2) Prefix "PN" indicates nominal Pressure i.e. working pressure. 3) 1kgf/cm² pressure class fittings are introduced as economical "Smart" range.

	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
 ONE SIDE THREADED TEE	20x1/2"	1/2	10
	25x1/2"	3/4x1/2	10
	25x3/4"	3/4	10
	63x2"	2	6
	75x2 1/2"	2 1/2	6
	90x3"	3	6
	Application/Special note : These are used for by pass and branch is threaded to connect male threaded pipe/fitting.		
 ENLARGING TEE	63x75	2x2 1/2	6
	Application/Special note : These are used for by pass and taking higher diameter service line out of main line.		
 CROSS TEE	63	2	6
	75	2 1/2	6
	90	3	6
	110	4	6
	Application/Special note : These are used for by pass and taking equal size service line on both side of main line.		
  MALE THREADED ADAPTER (M.T.A.)	20	1/2	10
	25	3/4	10, 16
	32	1	10, 16
	40	1 1/4	6, 16
	50	1 1/2	6, 16
	63	2	6, 10, 16
	75	2 1/2	6, 10, 16
	90	3	6, 10, 16
	110	4	6, 10, 16
	140	5	6
	160	6	6
Application/Special note : These are used to connect a uPVC pipeline directly to a female threaded metal pipe and all types of valves, taps, pumps etc. through a male portion.			
 REDUCING MALE THREADED ADAPTOR (R.M.T.A.)	75x2"	2 1/2x2	6
	90x2"	3x2	6
	90x2 1/2"	3x2 1/2	6
Application/Special note : These are used to connect a uPVC pipeline directly to a female threaded metal pipe.			







	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
  FEMALE THREADED ADAPTER (F.T.A.)	20	1/2	10
	25	3/4	10, 16
	32	1	10, 16
	40	1 1/4	6, 16
	50	1 1/2	6, 16
	63	2	6, 10, 16
	75	2 1/2	6, 10, 16
	90	3	6, 10, 16
	110	4	6, 10, 16
	160	6	6
	Application/Special note : These are used to connect a uPVC pipeline directly to a male threaded metal pipe.		
 REDUCING FEMALE THREADED ADAPTOR (R.F.T.A.)	25x1/2"	3/4x1/2	10, 16
	32x1/2"	1x1/2	10, 16
	32x3/4"	1x3/4	10
	63x1 1/2"	2x1 1/2	6
	75x2"	2 1/2x2	6
	90x2"	3x2	6
90x2 1/2"	3x2 1/2	6	
Application/Special note : These are used to connect a uPVC pipeline directly to a metal pipe of over diameter or vice-versa.			
  REDUCER	25x20	3/4x1/2	10
	32x20	1x1/2	10
	32x25	1x3/4	10, 16
	40x25	1 1/4x3/4	6
	40x32	1 1/4x1	6, 16
	50x32	1 1/2x1	6
	50x40	1 1/2x1 1/4	6, 16
	63x32	2x1	6
	63x40	2x1 1/4	6
	63x50	2x1 1/2	6, 16
	75x40	2 1/2x1 1/4	6
	75x50	2 1/2x1 1/2	6
	75x63	2 1/2x2	6
	90x50	3x1 1/2	6
	90x63	3x2	6
	90x75	3x2 1/2	6
	110x63	4x2	6
	110x75	4x2 1/2	6
	110x90	4x3	6
	140x75	5x2 1/2	4
140x90	5x3	4	
140x110	5x4	4, 6	
160x90	6x3	4	
160x110	6x4	4, 6	
160x140	6x5	4	
200x110	8x4	4, 6	
200x160	8x6	4, 6	
Application/Special note : These are used to convert the service line into small or extra small lines.			




Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colour. All the fittings shown in dark grey colour are in PN 16 pressure class. 2) Prefix "PN" indicates nominal Pressure i.e. working pressure. 3) 1kg/cm² pressure class fittings are introduced as economical "Smart" range.

	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
 REDUCING BUSH	25x20	¾x½	10
	32x20	1x½	10
	32x25	1x¾	10, 16
	40x25	1¼x¾	16
	40x32	1¼x1	6, 16
	50x25	1½x¾	16
	50x32	1½x1	6
	50x40	1½x1¼	6, 16
	63x32	2x1	16
	63x40	2x1¼	6
	63x50	2x1½	6, 16
	75x50	2½x1½	6, 16
	75x63	2½x2	6, 16
	90x50	3x1½	6
	90x63	3x2	6
	90x75	3x2½	6, 16
	110x63	4x2	6
	110x75	4x2½	6
110x90	4x3	6, 16	
140x110	5x4	6	
160x110	6x4	6	
Application/Special note : These are used along with Coupler, Elbow, Tee, MTA, FTA to convert service line or fitting to smaller line.			
 THREADED REDUCING BUSH	75x2"	2½x2	6
	90x2½"	3x2½	6
 TAIL PEACE	63	2	6
	75	2½	6
	90	3	6
	110	4	6
	140	5	6
	160	6	6
	200	8	6
Application/Special note : These are used for connecting an air release valve / water fill way valve (C.I./M.S. etc.) and any other flanged fitting (like strainer) Non-return valve, pumps etc with the pipe.			
 FLANGE	63	2	6
	75	2½	6
	90	3	6
	110	4	6
	Application/Special note : These are used along with Tail piece for connecting an air release valve, Non-return valve, pumps and metal pipes etc with the pipe.		

Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)	
75	2½	6	 FLANGE ADAPTER
90	3	6	
110	4	6	
Application/Special note : These are used for connecting an air release valve, Non-return valve, pumps and metal pipes etc with the pipe.			
40x½"	1¼x½	6	 SERVICE SADDLE
50x½"	1½x½	6	
50x¾"	1½x¾	6	
50x1"	1½x1	6	
63x½"	2x½	6,10	
63x¾"	2x¾	6,10	
63x1"	2x1	6,10	
75x½"	2½x½	6,10	
75x¾"	2½x¾	6,10	
75x1"	2½x1	6,10	
90x½"	3x½	6,10	
90x¾"	3x¾	6,10	
90x1"	3x1	6,10	
110x½"	4x½	6,10	
110x¾"	4x¾	6,10	
110x1"	4x1	6,10	
140x½"	5x½	6	
140x¾"	5x¾	6	
110x1"	5x1	6	
140x½"	6x½	6	
160x¾"	6x¾	6	
160x1"	6x1	6	
200x1"	8x1	6	
200x1¼"	8x1¼	6	
200x1½"	8x1½	6	
200x2"	8x2	6	
Application/Special note : These are used for taping the large service main line into small feeder line for house hold purpose and for connecting air release valves.			
20	½	10	 END CAP (Plain)
25	¾	10	
32	1	10	
40	1¼	6	
50	1½	6	
63	2	4, 6	
75	2½	4, 6	
90	3	4, 6	
110	4	4, 6	
140	5	4	
160	6	6	
180	7	6	
200	8	6	
Application/Special note : These are used to close the end of pipe line.			

Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colour. All the fittings shown in dark grey colour are in PN 16 pressure class. 2) Prefix "PN" indicates nominal Pressure i.e. working pressure. 3) 1kgf/cm² pressure class fittings are introduced as economical "Smart" range.

	Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)
	20x1/2	1/2	10
	25x3/4	3/4	10
	32x1	1	10
	40x1 1/4	1 1/4	6
	50x1 1/2	1 1/2	6
	63x2	2	6
	75x2 1/2	2 1/2	6
	90x3	3	6
	110x4	4	6
	END CAP (THREADED)	Application/Special note : Threaded end cap with inside threads (BSP threads) are used to close the end of pipe line. NOTE : In case of threaded fittings avoid overtightening the joint with wrench as it may damage the uPVC threads.	
	63	2	6
	75	2 1/2	6
	90	3	6
	110	4	6
	SINGLE Y	Application/Special note : These are used for by pass and taking equal size service line out of main line at 45°	
	25x1/2"	3/4x1/2	16
FEMALE THREADED TEE			
	25x1/2"	3/4x1/2	16
FEMALE THREADED ELBOW			
	25x1/2"	3/4x1/2	16
FEMALE THREADED JOINT			
	25x3/4"	3/4x3/4	16
MALE THREADED JOINT			

Size in mm (ID)	Inch equivalent	Available Pressure Rating (PN)	
63	2	6	
75	2 1/2	6	
90	3	6	
110	4	6	
140	5	6	
160	6	6	
180	7	6	
200	8	6	
Special note : All the leakage couplers are available in 6", 9" and 12" standard length.			
75	2 1/2	4	
90	3	4	
110	4	4	
140	5	4	
160	6	4	
180	7	4	
200	8	4	
63	2	6	
75	2 1/2	6	
90	3	6	
110	4	6	
140	5	6	
160	6	6	
180	7	6	
200	8	6	
63	2	10	
75	2 1/2	10	
90	3	10	
110	4	10	
140	5	10	
160	6	10	
180	7	10	
200	8	10	
225	9	10	
250	10	10	
280	11	10	
Regular : Recommended for smaller sizes and lower pressure class - upto 75mm size - any pressure class, upto 110mm size in 4 and 6 kgf/cm ² , upto 200mm size - 2.5 kgf/cm ²			
Heavy Duty : Recommended for larger sizes and higher pressure class - 90mm and 110mm in 10 and 12.5 kgf/cm ² , 140mm and above sizes in 4,6,10 and 12.5 kgf/cm ²			
SOLVENT CEMENT			

HANDMADE FITTINGS :

Besides, vast range of moulded fittings, an exhaustive range of handmade fitting is also offered. This includes Couplers, Bends, Short bends, Tee's Reducing tee's Cross tee's, Tail pieces, Reducers, Wye's, End caps, Leakage couplers etc. in 20 to 450mm sizes in different pressure class.

Handmade division of the company is capable of making any tailor-made item as per customer standards and requirements. This implies a complete system solution made of the same material and hence customer need not to depend on any conventional product.

Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colour. All the fittings shown in dark grey colour are in PN 16 pressure class. 2) Prefix "PN" indicates nominal Pressure i.e. working pressure. 3) 1kgf/cm² pressure class fittings are introduced as economical "Smart" range.

• All the dimensions unless otherwise specified are in mm

HANDLING INSTRUCTIONS:

Pipes should be kept on an even surface while storing. They should be properly supported and should not be stacked for heights more than 1.5m for longer durations.

While laying big pipelines provision should be made for expansion joints, airvents and proper anchorage.

Pipes or fittings should not be cleaned with solvent cement.

Quality of solvent cement plays an important role and hence it is recommended to use good quality solvent cement only.

For large diameter and higher class pipes (6 Kgf/cm² and above) always use heavy duty solvent cement. Very old, hard, semi-fluid solvent cement should not be used.



Installation of Supreme pipeline in the field

FRICITION LOSS CALCULATION:

Following Hazen William formula should be used for friction loss calculation.

$$\frac{hf}{L} = \frac{1.213 \times 10^{10} \times Q^{1.852}}{D^{4.87} \times C^{1.852}}$$

Where

hf - Head loss in m

L - Length of pipe section in m

Q - Discharge in litres / sec

D - Internal diameter of pipe in mm

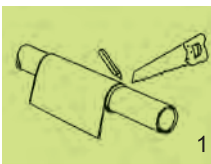
C - Hazen William constant 150

(For design purpose consider 140)

CONSUMPTION OF SOLVENT CEMENT :

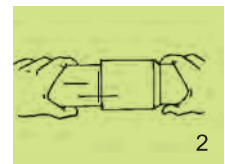
Diameter of pipe (mm)	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	355	400	450
Appx. no. of joints which can be made per liter of solvent cement	324	270	225	180	130	125	103	79	54	36	27	25	15	12	9	7	5	3	2	2

JOINING INSTRUCTIONS :



Cut the pipe as square as possible. Please ensure that fitment of pipe with socket of fitting is correct.

Total length of insertion of socket shall be marked on pipe (for most of the cases the pipe inserted should be up to the marked line and in no case shall be less than 2/3rd of the pipe end up to the marked line.)



The pipe and the socket should be clean and dry. Dust, oil, water, grease etc. should be wiped out with dry cloth or cleaner from the surfaces to be coated with solvent cement.



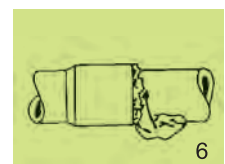
Roughen the outside of the pipe and the inside of the socket using sand paper or piece of hacksaw blade up to the entry mark. Stir adhesive i.e. solvent cement thoroughly.



Apply a thick coat of solvent cement using a flat clean brush evenly on the inside of the socket mouth for full length of insertion and then on outside of the pipe end up to the marked line.



After application of solvent cement, insert the pipe within one minute into the socket. Hold the joint for few seconds and ensure that pipe does not come out of the fitting. Wipe off extra cement. Let it dry. Within 24 hours, your Supreme rigid PVC pipes are ready for use.



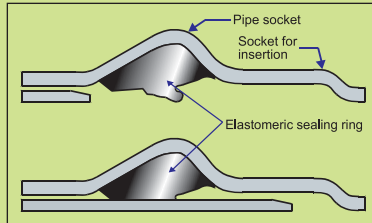
In case of big pipeline projects, it is recommended to refer our installation guide.

RINGTIGHT RIGID PVC PIPES WITH SEALING RING

RINGTIGHT ADVANTAGES:

These pipes are specially designed and suitable to overcome difficulties experienced while joining solvent type pipes in higher diameter and offers following advantages.

- As elastomeric sealing rings are used, requirements and precautions associated with quality and quantity of solvent cement are avoided.
- Unlike solvent type joints, curing, periods are not required and hence pipelines can be tested and brought in use immediately after jointing.
- Pipe laying and jointing is very easy, quicker and more reliable. Pipes up to 140 mm size can be jointed by hand force but large diameter pipes requires a jack.
- Joints are stable, watertight and can resist loads from horizontal and vertical tractive forces.
- Joints can accommodate angular deflection up to 2° and axial displacement resulting from thermal expansion and contraction, which eliminates the need of expansion joint as required in solvent type joints.



- Joints can be made in any climatic condition.

ABOUT ELASTOMERIC SEALING RING :

Unique design of sealing ring supplied with the pipe is made from high quality EPDM rubber to meet the practical requirements of sites, which add major contribution to installation efficiency. This seal can be safely and easily fitted in wet, cold and muddy conditions. These sealing rings offer following advantages.

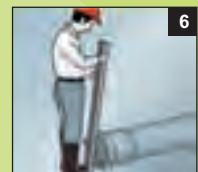


1. Very low assembly force is required for joint.
2. It has big operational life. (As per manufacturer minimum life is about 50 years.)
3. These rings give greater reliability and joint tightness and can withstand pressures beyond that of specified testing pressure of the pipe.
4. Specially suitable for under ground application.
5. It is resistant to salt water, organic vegetable oils, dilute acids and alkalis normally found in waste water. It is also resistant to ozone, ultra violet radiation, bacteria, fungus and termites. In short Supreme ringtight pipes are designed to give long term satisfaction to the customer.



JOINTING INSTRUCTIONS:

1. Clean the inside of socket. Remove all traces of mud, dirt, grease, gravel and clean elastomeric sealing ring.
2. Form the ring into a heart shape by pinching a portion of ring from inside. Insert into the socket and release to seat into the groove.
3. Factory supplied pipes are provided with a 15° chamfer. Mark the insertion depth on spigot portion of pipe. Clean and apply lubricant to insertion depth before pushing into the socket.
4. If pipe need to be cut, it should be cut perpendicular to the axis of the pipe. Then it should be chamfered properly.
5. Align the socket and spigot correctly in the horizontal and vertical planes (before insertion, ensure that no sand or dirt adheres to the lubricated surface of the pipe). Care should be taken that the spigot end is inserted in the socket at the correct angle.
6. Push the spigot into the socket until it reaches the depth of entry mark, do not over insert. This must be done manually. Use a steel crow bar if necessary. Protect the pipe with wooden block. Insertion of spigot end inside the socket should be at the correct angle.
7. In case of large diameter pipes, if crow bar does not give sufficient leverage, use of a jointing jack may be helpful.



• Any specification can change without prior notice. • All information contained in this literature is given in good faith and believed to be accurate and reliable. But because of many factors which may be outside our knowledge and control and affect the use of the product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against patent infringement. No responsibility can be accepted for any error, omissions or incorrect assumptions.

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