



RIGID PVC PRESSURE PIPES AND FITTING

... Most comprehensive range with wide spectrum of fittings

Supreme[®]
People who know plastics best

**uPVC Pressure
Pipes**



The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has valuable experience in providing innovative and cost effective piping solution. Company's objective is to meet the growing needs of its clientele in water, waste management and infrastructure sector through specially developed high performance range of piping products. The innovative product portfolio offered by Supreme is extensive in range and application and comprises a variety of pipes and a vast spectrum of fittings totaling around 7000 diverse products. Together these constitute the most comprehensive range in the industry that caters almost every conceivable need and application. Company has been a torch bearer in transition from conventional products to advance plastics piping products in the country and has been termed as "Trend Setters of Plastic Piping Products".

Supreme uPVC pressure piping system with wide spectrum of pipes and fittings in different sizes and pressure class is a perfect and ideal solution for water supply and irrigation. Supreme pressure piping system is a prime choice of farmers, water supply bodies, different government institutes and have successfully replaced the conventional piping products.

Jeevan bhar ka saath...

Rigid PVC Pressure Pipes and Fittings

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 to 450 mm sizes in different pressure class. Pipes with both types of joints i.e. solvent cement type and rubber seal type joints 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. These pipe are approved by MJP.

Features and Benefits :

Odorless 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 : 5.4×10^{-5} mm / m / °C

Combined flexural and compressive strength : 600 - 650 kgf/cm²

Impact strength at 20°C : 3 Kgf/cm²

Modulus of elasticity : $3 - 3.8 \times 10^4$ Kgf/cm²

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 I 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 63 mm to 315 mm 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.
- Different working pressure rating up to 16 kgf/cm² for different sizes.


	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)
 <p>Coupler</p>	20	10, 16
	25	10, 16
	32	10, 16
	40	6, 10
	50	*3, 6, 10, 16
	63	1, 6, 10, 16
	75	1, 6, 10, 16
	90	1, 6, 10, 16
	110	1, 6, 10, 16
	140	*3, 6
	160	6, 10
	200	6
	250	6


Application/Special note: These are used for joining of two uPVC pipes. Fabricated couplers are also available in 20 to 400 mm sizes in different pressure class.

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)
 <p>Elbow 90° (Plain)</p>	20	3, 10, 16
	25	3, 10, 12.5, 16
	32	3, 10, 16
	40	3, 6, 10, 16
	50	3, 4, 6, 10, 16
	63	1, 2, 3, 4, 6, 10, 16
	75	1, 2, 3, 4, 6, 10, 16
	90	1, 2, 3, 4, 6, 10, 16
	110	1, 2, 3, 4, 6, 10, 16
	140	4, 6
	160	*3, 4, 6, 10
	180	6
	200	4, 6
	250	6
	315	4


Application/Special note: These are used for short turns of 90°. These are not advisable on large pipeline involving high pressure.


	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)
 <p>Elbow 45°</p>	20	16
	25	16
	32	16
	40	6, 16
	50	6, 16
	63	6, 16
	75	6, 16
	90	6, 16
	110	4, 6, 16
	140	4
	160	4, 6
	200	4, 6
250	6	


	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)
 <p>Reducing Elbow (H.W.)</p>	32 x 25	10
	75 x 63	6
	90 x 50	6
	90 x 63	6
	*90 x 75	6
	110 x 63	6
	110 x 75	6
110 x 90	6	

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)
 <p>Elbow 90° One side threaded</p>	20 x 15 (1/2")	10
	25 x 15 (1/2")	10
	25 x 20 (3/4")	10
	*32x15 (1/2")	10
	50 x 40 (1 1/2")	16
	63 x 50 (2")	6, 16
	75 x 50 (2")	6
	75 x 65 (2 1/2")	6
	90 x 80 (3")	6
	110 x 100 (4")	6


Application/Special note: These are used for short turns of 90°. These are not advisable on large pipe lines.

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)	
 <p>Elbow 90° Both side Threaded</p>	75 (2 1/2")	10	
	90 (3")	10	

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)	
 <p>One Side Threaded Tee</p>	20 x 15 (1/2")	10	
	25 x 15 (1/2")	10	
	25 x 20 (3/4")	10	
	*32 x 15 (1/2")	10	
	63 x 50 (2")	6	
	75 x 65 (2 1/2")	6	
	90 x 80 (3")	6	
	110 x 50 (2")	6	
	110 x 65 (2 1/2")	6	
	110 x 80 (3")	6	
110 x 100 (4")	6		

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)	
 <p>Equal Tee</p>	20	3, 10, 16	
	25	3, 10, 16	
	32	3, 10, 16	
	40	3, 6, 10, 16	
	50	3, 4, 6, 10, 16	
	63	1, 2, 3, 4, 6, 10, 16	
	75	1, 2, 3, 4, 6, 10, 16	
	90	1, 2, 3, 4, 6, 10, 16	
	110	1, 2, 3, 4, 6, 10, 16	
	140	4, 6	
	160	*3, 4, 6, 10	
	180	6	
	200	4, 6	
	250	6	
	315	4	











Application/Special note: These are used for bypass and taking equal size service line out of main line at 90°.

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)	
 <p>Reducing Tee</p>	25 x 20	10	
	32 x 20	10	
	32 x 25	10	
	40 x 25	10	
	50 x 25	10	
	50 x 32	6	
	63 x 25	10	
	63 x 32	10	
	*63 x 40	6	
	63 x 50	6, 10	
	*75 x 40	6	
	75 x 50	6	
	75 x 63	4, 6	
	90 x 63	4, 6	
	90 x 75	4, 6	
	110 x 50	6	
	110 x 63	6	
	110 x 75	4, 6	
	110 x 90	4, 6	
	140 x 110	6	
160 x 75	4		
160 x 110	4, 6		
*200 x 110	6		
200 x 160	6		

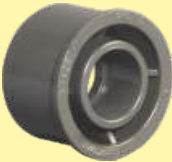





Application/Special note: These are used for by pass and taking lower diameter service line out of main line.





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

Rigid PVC Pressure Pipes and Fittings

	Size in mm (ID)	Available Pressure Rating in kgf /cm ² (PN)		Size in mm (ID)	Available Pressure Rating in kgf /cm ² (PN)		
	63 x 75	6	Application/Special note : These are used for by pass and taking higher diameter service line out of main line.	90 x 65 (2½")	6		
Enlarging Tee				110 x 50 (2")	6		110 x 80 (3")
	63 75 90 110	6 6 6 6	Application/Special note : These are used for by pass and taking equal size service line on both side of main line.	Application/Special note : These are used to connect a uPVC pipeline directly to a metal pipe of over diameter or vice-versa.			
Cross Tee				25 x 20	10	32 x 20	
	20 25 32 40 50 63 75 90 110 140 160	10, 16 10, 16 10, 16 6, 16 6, 16 6, 10, 16 6, 10, 16 6, 10, 16 6, 10, 16 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.	32 x 25	10, 16		
Male Threaded Adapter (M.T.A.)				40 x 25	6		40 x 32
	75 x 50 (2") 90 x 50 (2") 90 x 65 (2½")	6 6 6	Application/Special note : These are used to connect a uPVC pipeline directly to a female threaded metal pipe.	*50 x 25	6		
Reducing Male Threaded Adaptor (R.M.T.A.)				50 x 32	6		50 x 40
	20 25 32 40 50 63 75 90 110 160	10, 16 10, 16 10, 16 6, 16 6, 16 6, 10, 16 6, 10, 16 6, 10, 16 6, 10, 16 6	Application/Special note : These are used to connect a uPVC pipeline directly to a male threaded metal pipe.	50 x 40	6, 16	Application/Special note : These are used to convert the service line into small or extra small lines.	
Female Threaded Adapter (F.T.A.)				63 x 32	6		63 x 32
	25 x 15 (½") 32 x 15 (½") 32 x 20 (¾") 40 x 25 (1") 50 x 32 (1¼") 63 x 40 (1½") 75 x 50 (2") 90 x 50 (2")	10, 16 10, 16 10 6 6 6 6 6		63 x 40	6	25 x 20	10
Reducing Female Threaded Adaptor (R.F.T.A.)				63 x 50	6, 16	32 x 20	10, 16
				*75 x 40	6	32 x 25	10, 16
				75 x 50	6, 16	40 x 25	16
				75 x 63	6, 16	40 x 32	6, 16
				90 x 50	6	50 x 25	16
				90 x 63	6	50 x 32	6
				90 x 75	6, 16	50 x 40	6, 16
				110 x 63	6	63 x 32	16
				110 x 75	6	63 x 40	6
				110 x 90	6, 16	63 x 50	6, 16
				*140 x 75	6	200 x 110	4, 6
				*140 x 90	6	160 x 90	4
						160 x 110	4, 6
						160 x 140	4
						180 x 110	6
						200 x 110	4, 6
						200 x 160	4, 6
						200 x 180	6
						250 x 200	6
















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	Size in mm (ID)	Available Pressure Rating in kgf /cm ² (PN)
 Reducing Bush	140 x 110	6
	*160 x 90	6
	160 x 110	6
	200 x 160	6
	250 x 160	6
	250 x 200	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	75 x 50 (2")	6
	90 x 65 (2½")	6
 Tail Piece	63	6, 16
	75	6, 16
	90	6, 16
	110	6, 16
	140	6
	160	6, 16
200	6, 16	
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	6
	75	6
	90	6
	110	6
	160	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.		
 Flange Adapter	63	10
	75	6
	90	6
	110	10
	160	10
	160	10
Application/Special note : These are used for connecting an air release valve, Non-return valve, pumps and metal pipes etc with the pipe.		
 Blind Flange	63	10
	75	10
	*90	10
	110	10
	110	10
Application/Special note : These are used for to close the end of pipeline for various application.		
Service Saddle	40 x 15 (½")	6
	50 x 15 (½")	6
	50 x 20 (¾")	6
	50 x 25 (1")	6
	50 x 25 (1")	6

Size in mm (ID)	Available Pressure Rating in kgf /cm ² (PN)	
63 x 15 (½")	6,10	 Service Saddle
63 x 20 (¾")	6,10	
63 x 25 (1")	6,10	
75 x 15 (½")	6,10	
75 x 20 (¾")	6,10	
75 x 25 (1")	6,10	
90 x 15 (½")	6,10	
90 x 20 (¾")	6,10	
90 x 25 (1")	6,10	
110 x 15 (½")	6,10	
110 x 20 (¾")	6,10	
110 x 25 (1")	6,10	
140 x 15 (½")	6	
140 x 20 (¾")	6	
140 x 25 (1")	6	
160 x 15 (½")	6	
160 x 20 (¾")	6	
160 x 25 (1")	6	
200x25 (1")	6	
200 x 32 (1¼")	6	
200 x 40 (1½")	6	
200 x 50 (2")	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	10	 End Cap (Plain)
25	10	
32	10	
40	6	
50	6	
63	4, 6	
75	4, 6	
90	4, 6	
110	4, 6	
140	4	
160	6	
180	4, 6	
200	6	
250	6	
315	6	
Application/Special note : These are used to close the end of pipe line.		
20 x 15 (½")	10	 End Cap (Threaded)
25 x 20 (¾")	10	
32 x 25 (1")	10	
40 x 32 (1¼")	6	
50 x 40 (1½")	6	
63 x 50 (2")	6	
75 x 65 (2½")	6	
90 x 80 (3")	6	
110 x 100 (4")	6	
*140 x 125 (5")	6	
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	6	 Single Y
75	6	
90	6	
110	6	
140	6	
160	6	
200	6	
250	4	
Application/Special note : These are used for by pass and taking equal size service line out of main line at 45°		

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

Rigid PVC Pressure Pipes and Fittings

	Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)		Size in mm (ID)	Available Pressure Rating in kgf/cm ² (PN)	
	110 x 63 160 x 110 *200 x 110 *200 x 160	6 6 6 6		63 75 90 110	10 10 10 10	 Non Return Valve (NRV)
Reducing Y						
	25 x 15 (1/2") *32 x 15 (1/2")	10, 16 10		3/4" *1" *1 1/4" *1 1/2" *2"		 Air Release Valve
Female Threaded Tee						
	25 x 15 (1/2") *32 x 15 (1/2")	10, 16 10		75 90 110 *160	10 10 10 10	 Butterfly Valve
Female Threaded Elbow						
	25 x 15 (1/2")	16		*32 *50 *90	6 6 6	 Bend
Female Threaded Joint						
	25 x 15 (1/2") 25 x 20 (3/4")	10 16		63 75 90 110 140 160 180 200	6 6 6 6 6 6 6 6	 Leakage Coupler (F)
Male Threaded Joint						
	25 32 40 50 63	10 10 10 10 10				
Union						
	25 32 40 50 63 75 90 110	16 16 16 16 16 10 10 10				 Repair Coupler Long (with elastomeric rubber seal)
Ball Valve						
	25 (3/4")	16		63 75 90 110 140 160 180 200 225 250 280	10 10 10 10 10 10 10 10 10 10 10	 Repair Coupler (F)
Threaded Ball Valve (Union Type)						

Special note : All the leakage couplers are available in 6", 9" and 12" standard length.

Note : 63 to 160mm Repair Coupler Short (with elastomeric rubber seal) is also made available in 4 & 6 kgf/cm².

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Solvent Cement - Regular duty and heavy duty solvent cements are provided for different sizes and pressure class as given below

Regular Duty : Recommended for smaller sizes and lower pressure class - upto 75 mm size - any pressure class, upto 110 mm size in 4 and 6 kgf/cm², upto 200 mm size - 2.5 kgf/cm².

Heavy Duty : Recommended for larger sizes and higher pressure class - 90mm and 110 mm in 10 and 12.5 kgf/cm², 140 mm and above sizes in 4,6,10 and 12.5 kgf/cm².

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 450 mm 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.

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 1.5 m for longer durations.

While laying big pipelines provision should be made for expansion joints, air vents 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

Friction Loss Calculation:

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

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

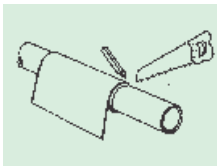
Where

- hf - Heads 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 :

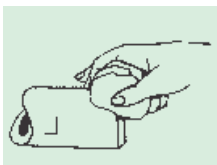
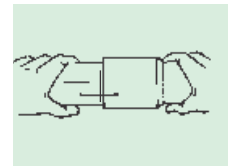
Diameter of pipe (mm)	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	355	400	450
Appx. no. of joints which can be made per liter of solvent cement	354	270	225	180	130	125	103	79	54	36	27	25	15	12	9	7	5	3	2	2

Joining Instructions :



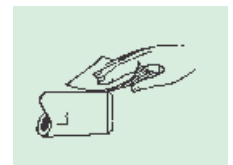
Cut the pipe as square as possible. Please ensure that fitment of pipe with socket of fitting is correct

Total length of 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 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

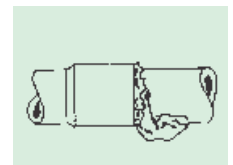
Roughen the outside of the pipe and the inside of the socket using sand paper or piece of hacksaw blade up to the entry mark. Stir adhesive i.e. solvent cement thoroughly.



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 the fitting. Wipe off extra cement. Let it dry. Within 24 hours, your Supreme rigid PVC pipes are ready for use.



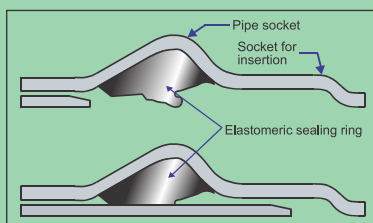
In case of big pipeline projects, it is recommended to refer our installation guide.

Ringtight Rigid PVC Pipes with Sealing Rings

Ringtight Advantages:

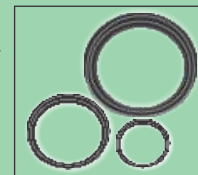
These pipes are specially designed and suitable to overcome difficulties experienced while joining solvent type pipes in higher diameter and offers following advantages.

- 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 underground application.
5. It is resistant to salt water, organic vegetable oils, dilute acids and alkalies 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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