Since 1942

Supreme®
People who know plastics best

Total Piping Solution

Rigid PVC Pressure Pipes and Fittings

IS:4985-2000
CM/L 1235335

... The most comprehensive range with a wide spectrum of fittings

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path-breaking products and has been a torch bearer in the transition from conventional to advanced plastic piping products in the country. Its customer-centric approach fuels its research for designing unmatched quality products to meet the aspirations of its quality conscious customers. The innovative product portfolio offered by Supreme is extensive in range and application and comprises variety of pipes and vast spectrum of fittings totaling around 9000 diverse products.

Supreme uPVC pressure piping system with a wide spectrum of pipes and fittings in different sizes and pressure classes is an ideal solution for water supply and irrigation. Due to superior quality, the Supreme pressure piping system has become the prime choice of farmers, water supply bodies and different government institutions.

Unique Features

- **Strong and reliable**
- **Odorless and hygienic**
- **High corrosion and chemical resistance**
- **Smooth bore**
- **Self extinguishing quality**
- **Maintenance free**
- **Long lasting**
- **Economical**

Jeevan bhar ka saath...

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Rigid PVC Pressure Pipes and Fittings

Supreme offers an exhaustive range of uPVC pressure pipes and fittings. Pressure pipes are manufactured as per IS:4985-2000 standards and are made available in 20 to 450mm sizes in different pressure classes. 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 and company standards. These pipes and fittings are used for a variety of applications like irrigation, water supply, industrial process lines, swimming pools, firefighting mains etc. These pipes are superior to CI, DI or RCC pipes as they are lighter in weight, easy and quick to install, have excellent corrosion and chemical resistance, higher flow rates, longer life and economy. These pipes have the approval of MJP.

Features and benefits

Strong and reliable - Supreme uPVC Pressure pipes and fittings are manufactured using best quality virgin raw material and state of the art equipments and hence they are very strong, durable and reliable.

Odorless and hygienic - These pipes are an excellent choice for carrying potable water as they do not allow contamination.

High corrosion resistance - Being immune to chemical, electrolytic and galvanic action, these pipes are free from corrosion which ensures a much longer and useful life.

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

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

Self extinguishing quality – This feature eliminates the need for fire resistant coatings.

Maintenance free - Corrosion resistant property of the PVC pipes eliminates the need for repeated painting or coating like in the case of GI pipes.

Economical - Despite being superior to conventional pipes, Supreme PVC pipes are very light in weight and last much longer than older piping systems offering a great economy in handling, transportation, installation and replacement.

Salient features

- General dimensions conform to IS:7834-87.
- Wall thickness is designed to meet required working pressure.
- Close to dimensional tolerance.
- Different working pressure ratings up to 16 kgf/cm^2 for different sizes

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/cm^2
- Impact strength at 20°C : 3 Kgf/cm^2
- Modulus of elasticity : $3 - 3.8 \times 10^4$ 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 (mm)	Tolerance on Outside Diameter	Wall Thickness (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) colours in standard lengths of 6m. Pipes are offered plain or socketed, based on diameter and class of pipe. 2) Ring tight pipes with integral rubber ring socket (Elastomeric joint) are available from 63mm to 315mm in 4, 6 and 10 kgf/cm^2 pressure class. 3) Prefix "PN" indicates Nominal Pressure, i.e., working pressure.

Coupler

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20	10, 16
25	10, 16
32	10, 16
40	6, 10, 16
50	3, 6, 10, 16
63	1, 4, 6, 10, 16
75	1, 4, 6, 10, 16
90	1, 4, 6, 10, 16
110	1, 4, 6, 10, 16
140	3, 4, 6
160	4, 6, 10
180	4
200	4, 6
250	6

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.

Elbow 90°

Size in mm	Available Pressure Rating in kgf/cm² (PN)
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.

Elbow 45°

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20	16
25	16
32	16
40	6, 16
50	6, 16
63	6, 16
75	4, 6, 16
90	6, 16
110	4, 6, 16
140	4
160	4, 6
200	4, 6
250	6

Reducing Elbow

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25 x 20	10
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	4, 6

Elbow 90°
One side threaded

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20 x 15	10
25 x 15	10
25 x 20	10
50 x 40	16
63 x 50	6, 16
75 x 50	6
75 x 65	6, 16
90 x 80	6, 16
110 x 100	6, 16

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

Size in mm	Available Pressure Rating in kgf/cm² (PN)
75	10
90	10

Elbow 90°
Both side Threaded

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20 x 15	10
25 x 15	10
25 x 20	10
63 x 50	6
75 x 65	6, 16
90 x 80	6, 16
110 x 50	6
110 x 65	6
110 x 80	6
110 x 100	6, 16

One Side Threaded Tee

Size in mm	Available Pressure Rating in kgf/cm² (PN)
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°.

Equal Tee

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25 x 20	10
32 x 20	10
32 x 25	10
40 x 20	6
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.

Reducing Tee

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63 x 75	6

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

Enlarging Tee

Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. 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.

Cross Tee

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25	10
32	10
63	6
75	6
90	6
110	6

Application/Special note: These are used for by pass and taking equal size service line on both side of main line.

Reducing Cross Tee

Size in mm	Available Pressure Rating in kgf/cm² (PN)
40x20	6
63x20	4
63x25	4
63x32	4
63x40	6
75x25	4

Male Threaded Adapter (M.T.A.)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20	10, 16
25	10, 16
32	10, 16
40	6, 16
50	6, 16
63	6, 10, 16
75	6, 10, 16
90	6, 10, 16
110	6, 10, 16
140	6
160	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.)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
75 x 50	6
90 x 50	6
90 x 65	6

Application/Special note: These are used to connect a uPVC pipeline directly to a female threaded metal pipe.

Female Threaded Adapter (F.T.A.)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20	3, 10, 16
25	10, 16
32	10, 16
40	6, 16
50	6, 16
63	6, 10, 16
75	6, 10, 16
90	6, 10, 16
110	6, 10, 16
160	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.)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25 x 15	10, 16
32 x 15	10, 16
32 x 20	10
40 x 25	6
50 x 32	6
63 x 32	6
63 x 40	6
75 x 50	6
90 x 50	6
90 x 65	6
110 x 50	6
110 x 80	6

Application/Special note: These are used to connect a uPVC pipeline directly to a metal pipe of over diameter or vice - versa.

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25 x 20	10
32 x 20	10
32 x 25	10, 16
40 x 25	6
40 x 32	6, 16
50 x 25	6
50 x 32	6
50 x 40	6, 16
63 x 32	6
63 x 40	6
63 x 50	6, 16
75 x 40	6
75 x 50	6
75 x 63	6
90 x 50	6
90 x 63	6
90 x 75	6
110 x 50	6
110 x 63	6
110 x 75	6
110 x 90	6
140 x 75	4
140 x 90	4
140 x 110	4, 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

Application/Special note: These are used to convert the service line into small or extra small lines.

Reducer

Size in mm	Available Pressure Rating in kgf/cm² (PN)
25 x 20	10
32 x 20	10, 16
32 x 25	10, 16
40 x 25	16
40 x 32	6, 16
50 x 25	16
50 x 32	6
50 x 40	6, 16
63 x 32	16
63 x 40	6
63 x 50	6, 16
75 x 40	6
75 x 50	6, 16
75 x 63	6, 16
90 x 50	6
90 x 63	6
90 x 75	6, 16
110 x 63	6
110 x 75	6
110 x 90	6, 16
140 x 75	6
140 x 90	6
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.

Reducing Bush

Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. 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.

Threaded Reducing Bush

Size in mm	Available Pressure Rating in kgf/cm² (PN)
75 x 50	6
90 x 65	6

Tail Piece

Size in mm	Available Pressure Rating in kgf/cm² (PN)
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 (CI/MS etc.) and any other flanged fitting (like strainer) Non-return valve, pumps etc with the pipe.

Flange

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63	6
75	6
90	6
110	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

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63	10
75	6
90	6
110	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

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63	10
75	10
90	10
110	10

Application/Special note: These are used for to close the end of pipeline for various application.

Service Saddle

Size in mm	Available Pressure Rating in kgf/cm² (PN)
40 x 15	6
50 x 15	6
50 x 20	6
50 x 25	6
63 x 15	6
63 x 20	6
63 x 25	6
75 x 15	6
75 x 20	6
75 x 25	6
90 x 15	6
90 x 20	6
90 x 25	6
110 x 15	6
110 x 20	6
110 x 25	6
140 x 15	6
140 x 20	6
140 x 25	6
160 x 15	6
160 x 20	6
160 x 25	6
200 x 25	6
200 x 32	6
200 x 40	6
200 x 50	6

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63 x 15	10
63 x 20	10
63 x 25	10
75 x 15	10
75 x 20	10
75 x 25	10
90 x 15	10
90 x 20	10
90 x 25	10
110 x 15	10
110 x 20	10
110 x 25	10

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.

Service Saddle

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20	10
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

End Cap
(Plain)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
110	4

Application/Special note: These are used to close the end of pipe line.

End Cap
(without collar)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
20 x 15	10
25 x 20	10
32 x 25	10
40 x 32	6
50 x 40	6
63 x 50	6
75 x 65	6
90 x 80	6
110 x 100	6
140 x 125	6

Application/Special note: Threaded end cap with inside threads (BSP threads) are used to close the end of pipe line.

Note: Incase of threaded fittings avoid overtightening the joint with wrench as it may damage the uPVC threads.

End Cap
(Threaded)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63	6
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°.

Single Y

Size in mm	Available Pressure Rating in kgf/cm² (PN)
110 x 63	6
160 x 110	6
200 x 110	4
200 x 160	4

Reducing Y

Note : 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. 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.

	Size in mm	Available Pressure Rating in kgf/cm² (PN)
 **Female Threaded Tee**	25 x 15 32 x 15	10, 16 10
 **Female Threaded Elbow**	25 x 15 32 x 15	10, 16 10
 **Female Threaded Joint**	25 x 15 32 x 15	16 10
 **Male Threaded Joint**	25 x 15 25 x 20	10 16
 **Ball Valve**	20 25 32 40 50 63 75	10 10 10 6 6 6 6
  **Ball Valve**	25 32 40 50 63 75 90 110	16 16 16 16 16 10 10 10
 **Threaded Ball Valve** (Union Type)	25	16
 **Non Return Valve** (NRV)	63 75 90 110	16 10 10 10
 **Non Return Valve** (Female Threaded)	63 75 90 110	16 10 10 10

Size in mm	Available Pressure Rating in kgf/cm² (PN)	
¾" 1" 1¼" 1½" 2"	10 10 10 10 10	 **Air Release Valve**
75 90 110 160	10 10 10 10	 **Butterfly Valve**
25 32 40 50 63	10 10 10 10 10	 **Union**
25 32 40 50 63 75 90	10 10 6 6 6 6 6	 **Bend (1D)**
63 75 90	4, 6, 10 4, 6, 10 4, 6, 10	 **Bend 90°**
63 75 90 110 140 160 180 200	6 6 6 6 6 6 6 6	 **Leakage Coupler** (F)
Special note: All the leakage couplers are available in 6", 9" and 12" standard length.		
63 75 90 110 140 160 180 200 225 250 280 315	6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10 4, 6, 10	 **Repair Coupler Long** (with elastromeric rubber seal)
Note: 63 to 160mm Repair Coupler Short (with elastromeric rubber seal) is also made available in 4 & 6 kgf/cm².		

Note: 1) Fittings are offered in Light Grey (LG) and Dark Grey (DG) colours. 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.● All the dimensions unless otherwise specified are in mm

Repair Coupler (F)

Size in mm	Available Pressure Rating in kgf/cm² (PN)
63	10
75	10
90	10
110	10
140	10
160	10
180	10
200	10
225	10
250	10
280	10

Solvent Cement

50 ml	100
100 ml	50
250 ml	80
500 ml	50
1000 ml	24
5000 ml	4

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

Solvent Cement Heavy Duty

100 ml	24
250 ml	24
500 ml	24
1000 ml	6
5000 ml	4

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

Size	Box
100 ml	24
250 ml	24
500 ml	24
1000 ml	6
5000 ml	4

Solvent Cement Super Heavy Duty

110-175x15
110-175x20
110-175x40
200-300x40
200-300x50
300-400x50

Strap Saddle

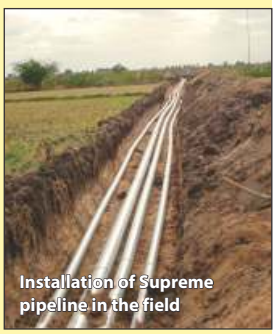
Handmade Fittings:

Besides a vast range of moulded fittings, an exhaustive range of handmade fittings are also made available by the company. This includes couplers, bends, short bends, tee's, reducing tee's, cross tee's, tail pieces, reducers, single or reducing Y's, end caps, leakage couplers etc. in 20 to 450mm sizes in different pressure classes. The handmade division of the company is equipped to make any tailor-made product as per customer requirements. This implies a complete system solution made of the same material, eliminating the dependence of the customer on any other conventional product or material.

Handling Instructions: Pipes should be kept on an even surface while storing. They should be properly supported and should not be stacked for more than 1.5 m height for a long duration. While laying big size pipelines, provisions should be made for the expansion of joints, air venting, and proper anchoring.

Pipes or fittings should not be cleaned with solvent cement. Quality of solvent cement plays an important role. It is, therefore, recommended that good quality solvent cement supplied by the company.

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.

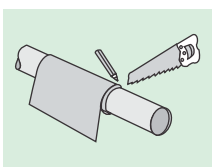


Installation of Supreme pipeline in the field

Consumption of Solvent Cement

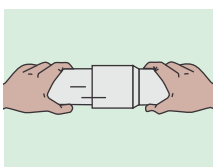
Diameter of pipe (mm)	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	355	400	450
Approx no of joints which can be made per litre of solvent cement	354	270	225	180	130	125	103	79	54	36	27	25	15	12	9	7	5	3	2	2

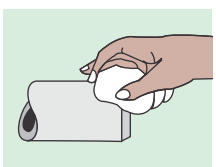
Jointing Instructions:



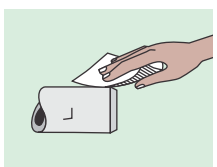
Cut the pipe as square as possible. Ensure that fitting of the pipe with socket of fitting is correct.

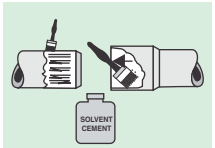
Total length of socket should be marked on pipe. In most cases, the pipe inserted should be up to the marked line and in any circumstances, it should not be less than the 2/3 of the pipe end.





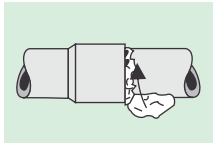
The pipe and the socket should be clean and dry. Dust, oil, water, grease etc. should be wiped off with dry cloth or a cleaner from the surfaces to be coated with solvent cement. Roughen the outer surface of the pipe end and the inner surface of the socket end using sand paper or piece of hacksaw blade up to the entry mark. Stir solvent cement thoroughly. Apply a thick coat of solvent cement using a flat clean brush evenly on the inner surface of the socket for full length of insertion and then on the outer surface of the pipe end up to the marked line.





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

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

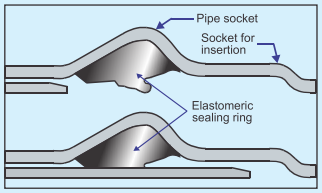


Ringtight Rigid PVC Pipes with Sealing Rings

Ringtight advantages

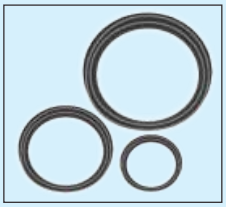
These pipes are specially designed and suitable to overcome difficulties experienced while jointing higher diameter pipes using solvent cement and offer the following advantages:-

- Elastomeric sealing rings are used to eliminate the problems associated with the solvent type joints like quality and quantity of the solvent cement.
- Unlike solvent type joints, curing period is not required which allows the pipelines to be tested and brought in use immediately after jointing.
- Pipe laying and jointing is very easy, quicker and more reliable. Pipes up to 140mm size can be jointed manually, 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 joints as required in solvent type joints.
- Joints can be made in any climatic condition.

About Elastomeric sealing rings



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

- Very low assembling force is required for joint.
- It has large operational life (minimum life is about 50 years).
- These rings give greater reliability and joint tightness and can withstand pressures beyond that of specified testing pressure of the pipes.
- Specially suitable for underground applications.
- It is resistant to salt water, organic vegetable oils, dilute acids and alkalies normally found in waste water. It is also resistant to ultra violet radiations, bacteria, fungus and termites. In short, Supreme ringtight pipes are designed to give long term satisfaction to the customers.

Jointing instructions

1. Clean the inside surface of the socket. Remove all traces of mud, dirt, grease, gravel and clean the elastomeric sealing ring.
2. Shape the ring into a heart shape by pinching a portion of ring from inside. Insert it into the socket and release to seat it into the groove.
3. Factory supplied pipes are provided with a 15° chamfer. Mark the insertion depth on spigot of pipe. Clean and apply lubricant to the pipe insertion depth before pushing it into the socket.
4. If pipe needs to be cut, it should be cut perpendicular to the axis of the pipe after which 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 a wooden block. Insertion of spigot end inside the socket should be at the correct angle.
7. In case of large diameter pipes, if the crow bar does not give sufficient leverage, use of a jointing jack may be helpful.

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