Now

IS : 15778

CM/L-3808568

The Most Dependable Hot & Cold Water Plumbing Solution for the Next Generation

DUTRON

CPVC Pipes & Fittings

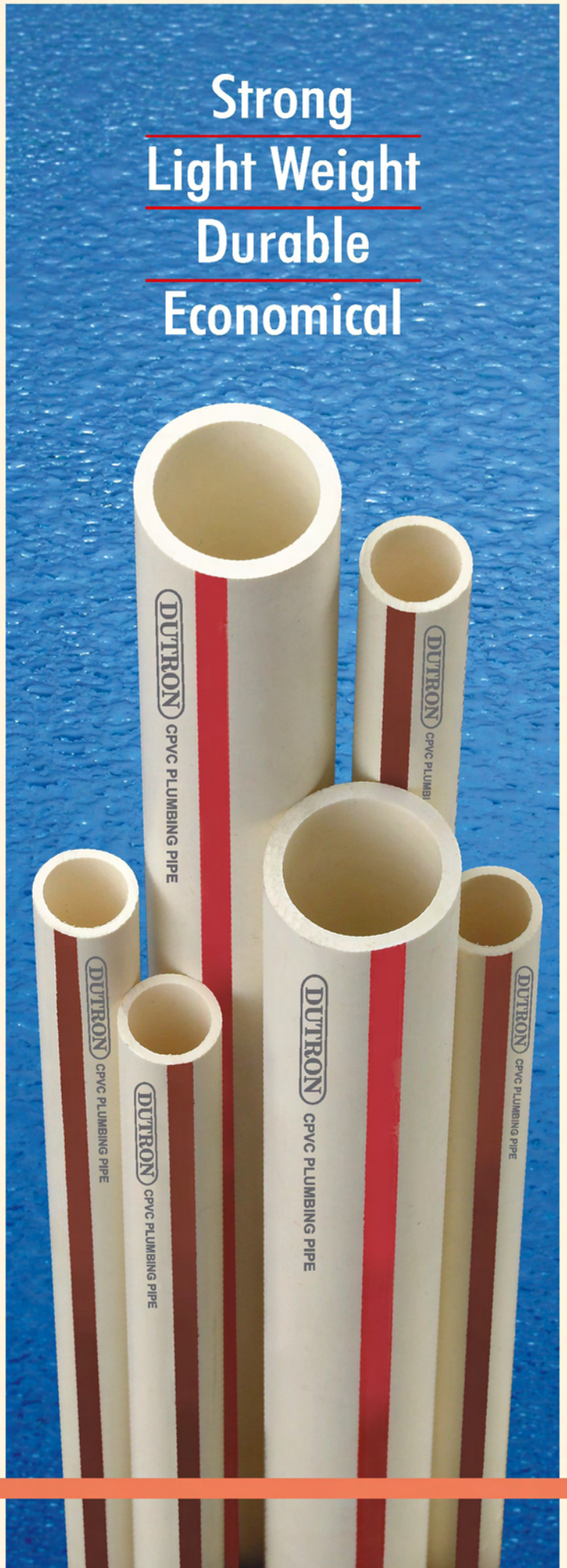
SAVE WATER, SECURE FUTURE

ISO 9001:2008 CERTIFIED COMPANY

SYMBOL OF TRUST & QUALITY SINCE 40 YEARS

A QUALITY PRODUCT FROM THE MFR. OF

DUTRON Kanaflex



Why Dutron CPVC

Dutron CPVC Hot and Cold Water Plumbing System is an attractive alternative to conventional plumbing system made of G.I. and copper pipes. Dutron Hot and Cold Water Plumbing system uses pipes and fittings made of technically advanced plastic material. These pipes and fittings are produced from a specialty blend of Chlorinated Polyvinyl Chloride (CPVC) material with unique physical properties desirable for Hot and Cold Water applications. Dutron CPVC pipes and fittings are manufactured in sizes ½" to 2" Copper Tube Size (CTS) dimensions, in accordance with ASTM D - 2846 specifications.

Dutron's expertise in PVC Processing helps produce highest quality CPVC pipes and fittings with latest technology and equipments for CPVC processing. As always, Dutron provides unmatched combination of Trust & Quality to its customers.

Dutron Hot and Cold Water Plumping System is dependable, cost - effective and long- lasting. It is indeed, for the Next Generation.

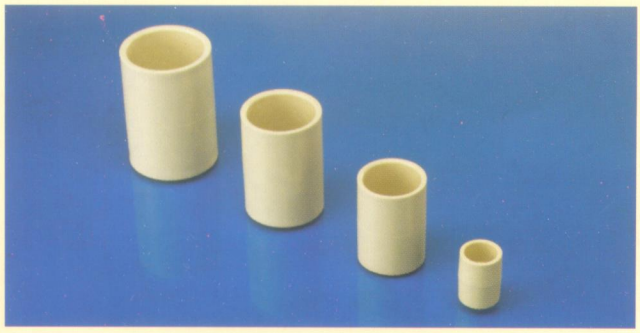
Applications

- Hot and Cold potable water distribution in buildings of all types - residential (low rise & high rise), commercial complexes & institutes
- Can be used in fire suppression systems (sprinklers etc.) due to its fire resistance
- Corrosive Fluid handling in industries

Designed to meet NSF (National Sanitation Foundation, USA) and most of the worldwide health and safety standards

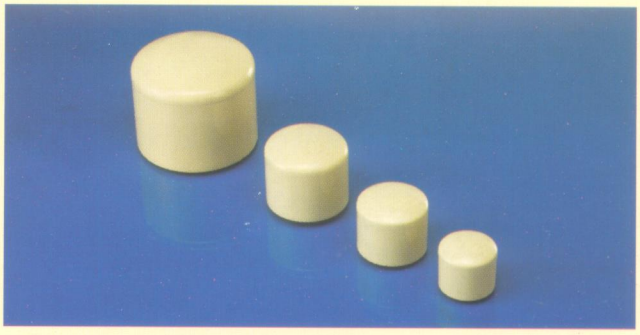
COUPLER

Size : ½", ¾", 1", 1¼", 1½", 2"



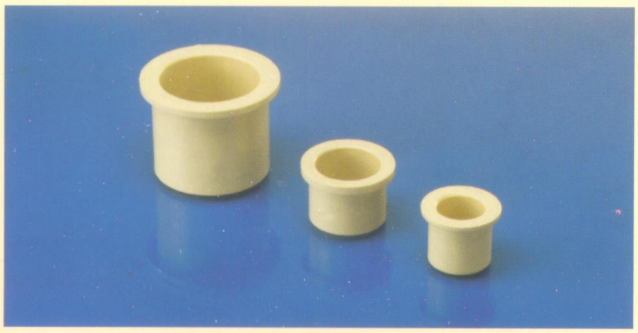
END CAP

Size : ½", ¾", 1", 1¼", 1½", 2"



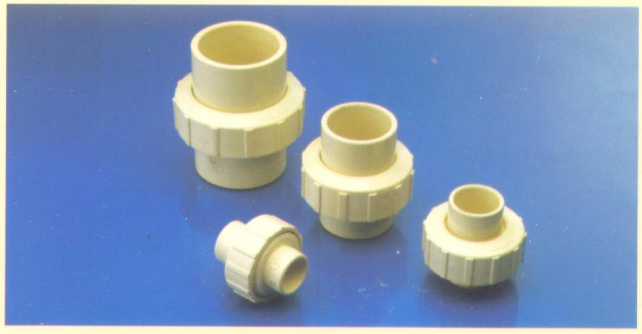
TRANSITION BUSH

Size : ½", ¾", 1", 1¼", 1½", 2"



UNION

Size : ½", ¾", 1", 1¼", 1½", 2"

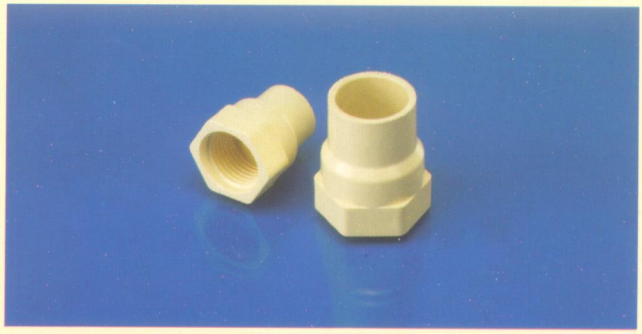


MTA

Size : ½", ¾", 1", 1¼", 1½", 2"

FTA

Size : ½", ¾", 1", 1¼", 1½", 2"

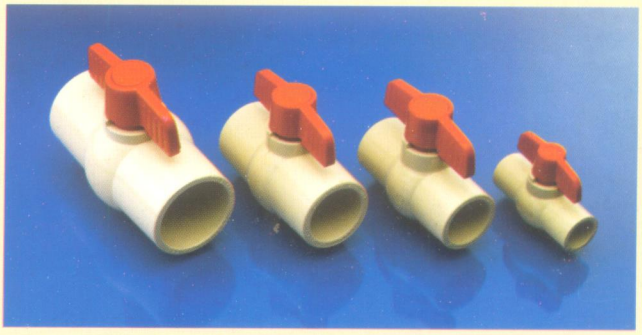


STEPOVER BEND

Size : ½", ¾"

BALL VALVE

Size : ½", ¾", 1", 1¼", 1½", 2"

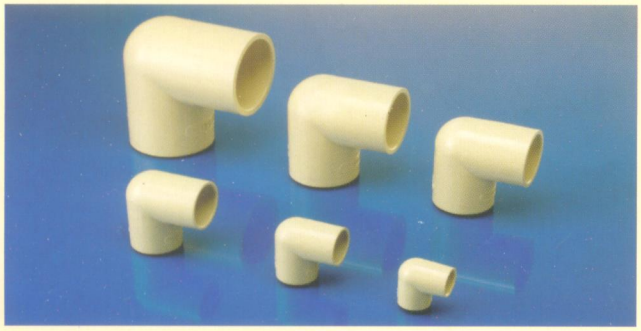


All Dutron CPVC Fittings are as per ASTM D-2846, SDR 11 Copper Tube Size

The Complete Range of CPVC Fittings

ELBOW 90°

Size : ½", ¾", 1", 1¼", 1½", 2"



ELBOW 45°

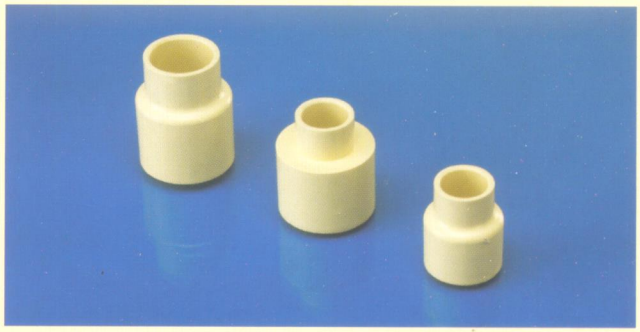
Size : ½", ¾", 1", 1¼", 1½", 2"

REDUCING BUSH

Size : ¾"x½", 1"x½", 1"x¾", 1¼"x½", 1¼"x¾", 1¼"x1", 1½"x½", 1½"x¾", 1½"x1", 1½"x1¼", 2"x½", 2"x¾", 2"x1", 2"x1½"

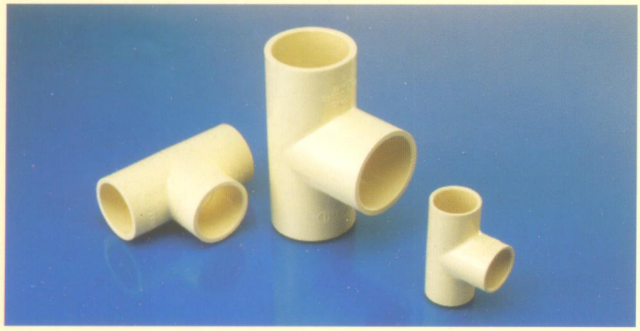
REDUCER

Size : ¾"x½", 1"x½", 1x¾", 1¼"x1", 1½"x1", 1½"x1¼", 1½"x¾", 2"x¾", 2"x1", 2"x1¼"



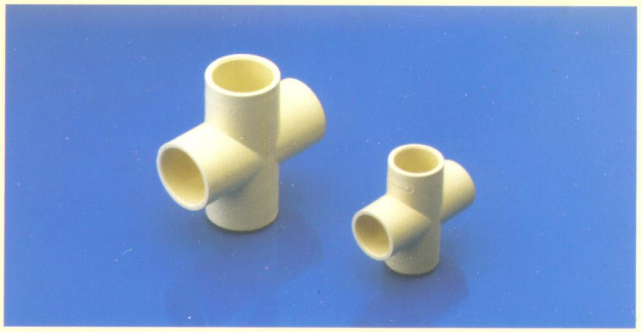
EQUAL TEE

Size : ½", ¾", 1", 1¼", 1½", 2"



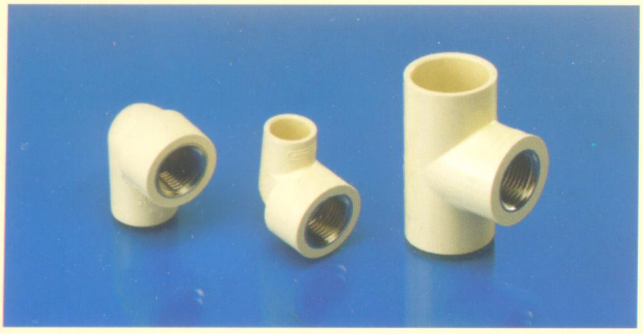
CROSS TEE

Size : ½", ¾"



METAL INSERT ELBOW / TEE

Size : ½", ¾", 1", ¾" x ½", 1"x ½"



METAL INSERT FTA & MTA

Size : ½", ¾", 1", 1¼", 1½", 2", ¾" x ½"

Advantages

- Hot and Cold water distribution systems made from Dutron CPVC pipes and fittings can withstand high temperatures
- Dutron CPVC pipe systems are resistant to many everyday household chemicals
- Dutron CPVC piping materials provide long, maintenance free service life due to corrosion resistance
- Dutron CPVC pipes are available in two pressure classes SDR 11 and SDR 13.5
- CPVC materials do not support combustion; therefore they cannot burn without external fuel source
- Dutron CPVC piping systems can handle most of the temperature/pressure requirements of today's typical process plants
- Dutron CPVC pipes and fittings are easy to install using solvent cement
- Dutron CPVC piping system is economical and long lasting
- Dutron CPVC pipes and fittings are produced using clean, energy efficient processes; they are light weight and having low friction. Thus, such systems save energy in manufacturing, transportation, installation & during usage

DIMENSIONS AND PRESSURE RATING CHART FOR PIPES

Nominal Pipe Size		Outer Diameter in. (mm)		SDR 11				SDR 13.5			
				Wall Thickness in. (mm)		Working pressure at		Wall Thickness in. (mm)		Working pressure at	
						23°C	82°C			23°C	82°C
inch	mm	Average	Tolerance	Minimum	Tolerance	Kg/cm²		Minimum	Tolerance	Kg/cm²	
½	15	0.625 (15.90)	±0.003 (±0.08)	0.068 (1.73)	+0.020 (+0.51)	28.1	7.0	0.055 (1.40)	+0.020 (+0.51)	22.5	5.6
¾	20	0.875 (22.20)	±0.003 (±0.08)	0.080 (2.03)	+0.020 (+0.51)	28.1	7.0	0.065 (1.65)	+0.020 (+0.51)	22.5	5.6
1	25	1.125 (28.60)	±0.003 (±0.08)	0.102 (2.59)	+0.020 (+0.51)	28.1	7.0	0.083 (2.12)	+0.020 (+0.51)	22.5	5.6
1¼	32	1.375 (34.90)	±0.003 (±0.08)	0.125 (3.18)	+0.020 (+0.51)	28.1	7.0	0.102 (2.59)	+0.020 (+0.51)	22.5	5.6
1½	40	1.625 (41.30)	±0.004 (±0.010)	0.148 (3.76)	+0.020 (+0.51)	28.1	7.0	0.120 (3.06)	+0.020 (+0.51)	22.5	5.6
2	50	2.125 (54)	±0.004 (±0.010)	0.193 (4.90)	+0.023 (+0.58)	28.1	7.0	0.157 (4.00)	+0.023 (+0.58)	22.5	5.6

Solvent Cement

We recommend to use only specially Formulated Solvent cement supplied by the company for leak free system as quality of solvent cement plays very important role and influences the joints.

Available Unit : 118 ml, 237 ml, 473 ml, 946 ml

Consumption of solvent cement:

Pipe Size, Inch (mm)	½ (15)	¾ (20)	1 (25)	1¼ (32)	1½ (40)	2 (50)
Approx. no. of fittings per liter	1200	750	500	450	325	225

Method of Jointing

Cutting the pipe:- Either a pipe Cutter or Hacksaw Blade can be used for cutting the pipe. Measure the length of the pipe and ensure that pipe & fittings are size compatible. Cut the pipe as squarely as possible for getting maximum bonding area within a joint.

Joints:- Remove the burr from outside and inside by a pocket knife or chamfer approximately at 10° - 15°. Wipe out the dirt and moisture from the pipes and sockets, by using a clean dry rag.

Test Fitting :- insert the pipe into the socket and check that the interference occurs about 1/3rd to 2/3rd of the socket depth. Do not over tight or keep too loose as it may lead to leakage.

Applying Solvent Cement:- Use only CPVC Cement for jointing. Apply cement lightly and evenly to inside of sockets and outside of pipe end with a natural bristle nylon brush or suitable applicator. A second coat of cement may be applied to the pipe quickly to prevent it from drying. Excessive coating of cement may cause clogged water ways.

Assembly of Joints:- Insert the pipe into the fitting socket immediately (within 10-20 seconds). Rotate the pipe to 1/4th turn to distribute cement evenly. Hold the assembly for 10 seconds, allowing the joint to set-up.

Curing Time :- Allow cement to cure for about 10 to 20 minutes before applying water pressure. Curing time varies with temperature, humidity etc. Please refer to curing time chart for details.

Recommended curing time for operating / test pressure up to 12kg/cm²

Ambient Temp.	Pipe size from ½" to 1¼"	Pipe size 1½" to 2"
17°C to 48°C	1 hrs.	2 hrs.
5°C to 17°C	3 hrs.	4 hrs.
Up to 5°C	8 hrs.	16 hrs.

Please conduct pressure testing before concealing the pipe line.

Horizontal & Vertical Supports

Clamps may be used for fixing the system to protect the pipes against excessive buckling and to prevent possible vibrations and transmission of noise. Please refer to the below chart for details.

Horizontal and Vertical Support Spacing

Nominal pipe size		21°C		49°C		71°C		82°C	
inch	mm	ft	cm	ft	cm	ft	cm	ft	cm
½	15	5.5	167.70	4.5	137.16	3.0	91.44	2.5	76.20
¾	20	5.5	167.70	5.0	152.40	3.0	91.44	2.5	76.20
1	25	6.0	182.88	5.5	167.70	3.5	106.68	3.5	91.44
1¼	32	6.5	198.12	6.0	182.88	3.5	106.88	3.5	106.68
1½	40	7.0	213.36	6.0	182.88	3.5	106.88	3.5	106.68
2	50	7.0	213.36	6.5	198.12	4.0	121.92	3.5	106.68

Pl. Note : Due to constant Research & Development, specifications may change without prior notice.

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CPVC 09/2008