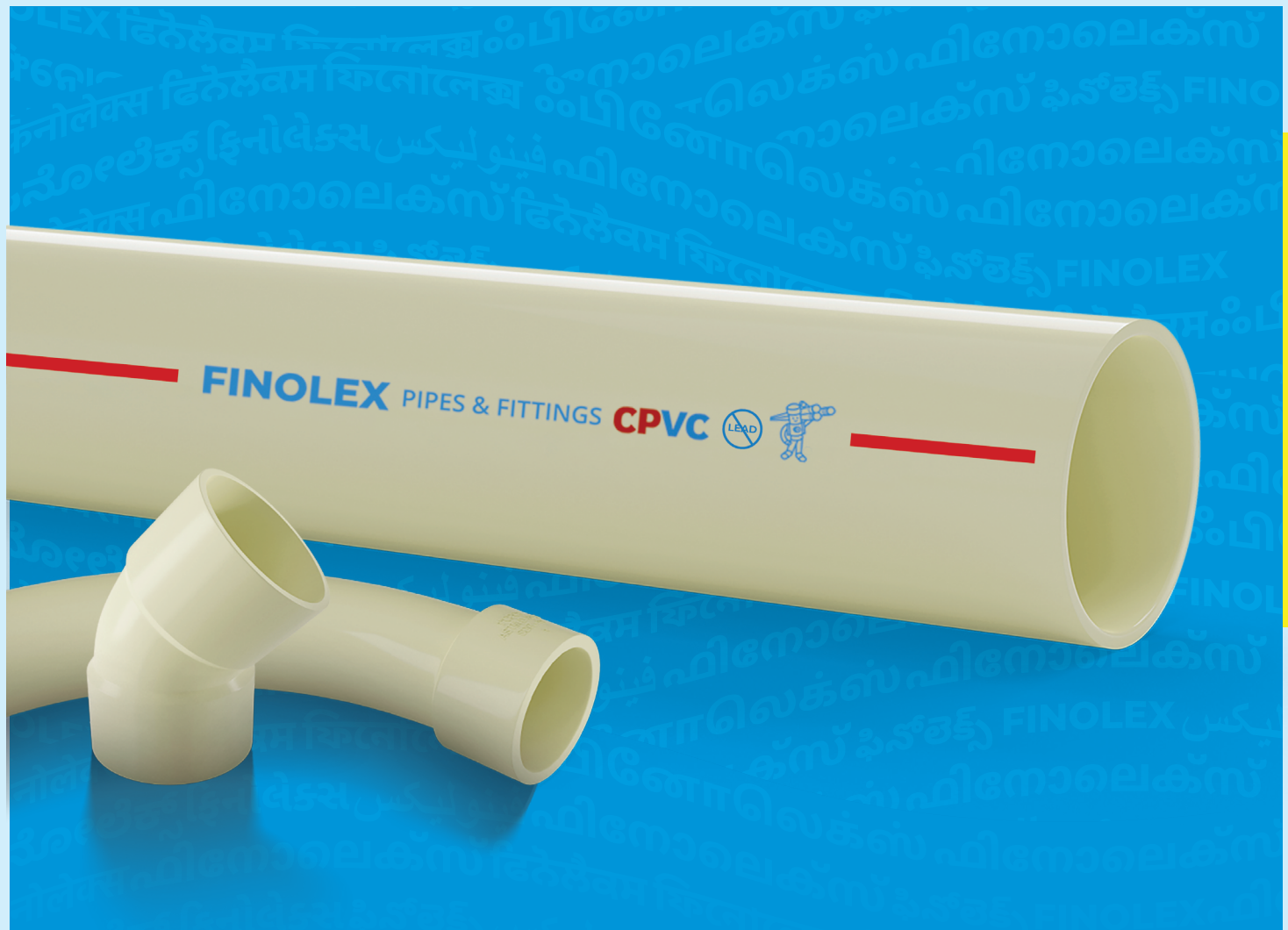


FINOLEX
PIPES & FITTINGS



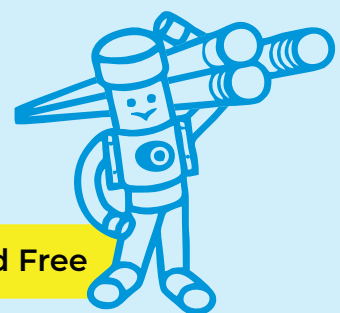
CPVC PIPES & FITTINGS

IDEAL FOR HOT AND COLD WATER APPLICATIONS

PRODUCT CATALOGUE



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Our Entire Product Range of Pipes & Fittings is now 100% Lead Free



CPVC PIPES & FITTINGS

CPVC

PIPES & FITTINGS



FINOLEX PIPES & FITTINGS CPVC

A PREMIUM SOLUTION

Finolex CPVC Pipes are a premium offering, manufactured using high-grade raw materials and the latest technology, making them ideal for hot and cold-water applications. These pipes can withstand higher temperatures compared to other plastic piping systems. The use of CPVC pipes is recommended for water supply and distribution in both domestic and industrial applications, as well as for solar and electric water heaters. The lightweight, non-corrosive and long-lasting nature of Finolex CPVC pipes, makes them an excellent substitute for GI and conventional pipes. Additionally, these pipes are manufactured using lead-free compounds, adhering to regulations for safe plumbing and drinking water quality.

QUALITY ASSURANCE & RELIABILITY

Finolex CPVC pipes undergo stringent quality tests at all stages of manufacturing, ensuring a high degree of reliability. This quality and durability have made Finolex CPVC one of the preferred choices of leading MEP consultants, architects, builders, plumbers and quality-conscious individuals across the country. It has been approved by various institutes such as CFTR & CIPET.

PIPE SPECIFICATIONS & AVAILABILITY

Finolex CPVC plumbing pipes are available in Copper Tube sizes ranging from 15mm (1/2") to 50mm (2"), conforming to IS 15778 in SDR 11 & 13.5 classes. Additionally, Finolex CPVC pipes are available in Iron Pipe size (IPS) between a 65mm (2 1/2") and 150mm (6") range, in Schedule 40 and Schedule 80 series, meeting the requirements of ASTM F 441. These pipes are plain-ended and are available in standard lengths of 3 meters and 5 meters with various pressure ratings. It's important to note that although these pipes have similar physical properties, the classes differ in wall thickness; therefore, at any given temperature, their pressure ratings also differ. Finolex CPVC pipes are recommended for water temperatures up to 82°C.

CPVC FITTINGS

CPVC fittings are available in sizes ranging from 15mm (1/2") to 50mm (2") and meet the requirements of ASTM D 2846 in SDR 11. Additionally, CPVC fittings, between a range of 65mm (2 1/2") to 150mm (6") in Schedule 40 and Schedule 80, are manufactured as per ASTM F 438 and ASTM F 439 respectively.

PRESSURE DE-RATING FACTORS AT WORKING TEMPERATURES

Working Temperature		Pipe Derating Factor
In°F	In°C	Finolex CPVC Pipes
73 - 80	23 - 27	1.00
90	32	0.91
100	38	0.82
120	49	0.65
140	60	0.50
160	71	0.40
180	82	0.25

DIMENSIONS & PRESSURE RATING OF CTS SERIES CPVC PIPES

Conforming to IS 15778

Nominal Pipe Size in mm (inch)	SDR 11				SDR 13.5				Standard Pipe Length in Meters
	Outside Diameter in mm	Tolerance of OD in mm	Pressure Rating (kg/cm²)		Outside Diameter in mm	Tolerance of OD in mm	Pressure Rating (kg/cm²)		
			27°C	82°C			27°C	82°C	
			28.14	6.93			22.22	5.60	
			Wall Thickness in mm				Wall Thickness in mm		
			Min	Max			Min	Max	
15 (½")	15.9	+/- 0.1	1.7	2.2	15.9	+/- 0.1	1.4	1.9	3, 5
20 (¾")	22.2	+/- 0.1	2.0	2.5	22.2	+/- 0.1	1.7	2.2	3, 5
25 (1")	28.6	+/- 0.1	2.6	3.1	28.6	+/- 0.1	2.1	2.6	3, 5
32 (1¼")	34.9	+/- 0.1	3.2	3.7	34.9	+/- 0.1	2.6	3.1	3, 5
40 (1½")	41.3	+/- 0.1	3.8	4.3	41.3	+/- 0.1	3.1	3.6	3, 5
50 (2")	54.0	+/- 0.1	4.9	5.5	54.0	+/- 0.1	4.0	4.6	3, 5

BATCH NUMBER LOGIC:

Year	Month	Day	Mc.No.	Shift	Die No.	Location
XXXX	XX	XX	XXX	X	XX	X/XX

For example, the batch number of pipes produced on Mc. no. 20 on 1st June 2021 in the 1st shift will be 202106010201 U

DIMENSIONS & PRESSURE RATING OF IPS SERIES CPVC PIPES

As per ASTM F 441

Nominal Pipe Size in mm (inch)	SCH 40						SCH 80						Standard Pipe Length in Meters
	Outside Diameter in mm	Tolerance of OD in mm	Wall Thickness in mm		Pressure Rating at 23°C (kg/cm²)	Pressure Rating at 82°C (kg/cm²)	Outside Diameter in mm	Tolerance of OD in mm	Wall Thickness in mm		Pressure Rating at 23°C (kg/cm²)	Pressure Rating at 82°C (kg/cm²)	
			Min	Max					Min	Max			
65 (2½")	73.00	+/- 0.18	5.16	5.77	21.09	5.27	73.00	+/- 0.18	7.01	7.85	29.52	7.38	3, 5
80 (3")	88.90	+/- 0.18	5.49	6.15	18.27	4.56	88.90	+/- 0.18	7.62	8.53	26.01	6.32	3, 5
100 (4")	114.30	+/- 0.20	6.02	6.73	15.46	3.87	114.30	+/- 0.20	8.56	9.58	22.49	5.62	3, 5
150 (6")	168.30	+/- 0.28	7.11	7.97	12.65	3.16	168.30	+/- 0.28	10.97	12.29	19.68	4.92	3, 5

CPVC FITTINGS AT A GLANCE

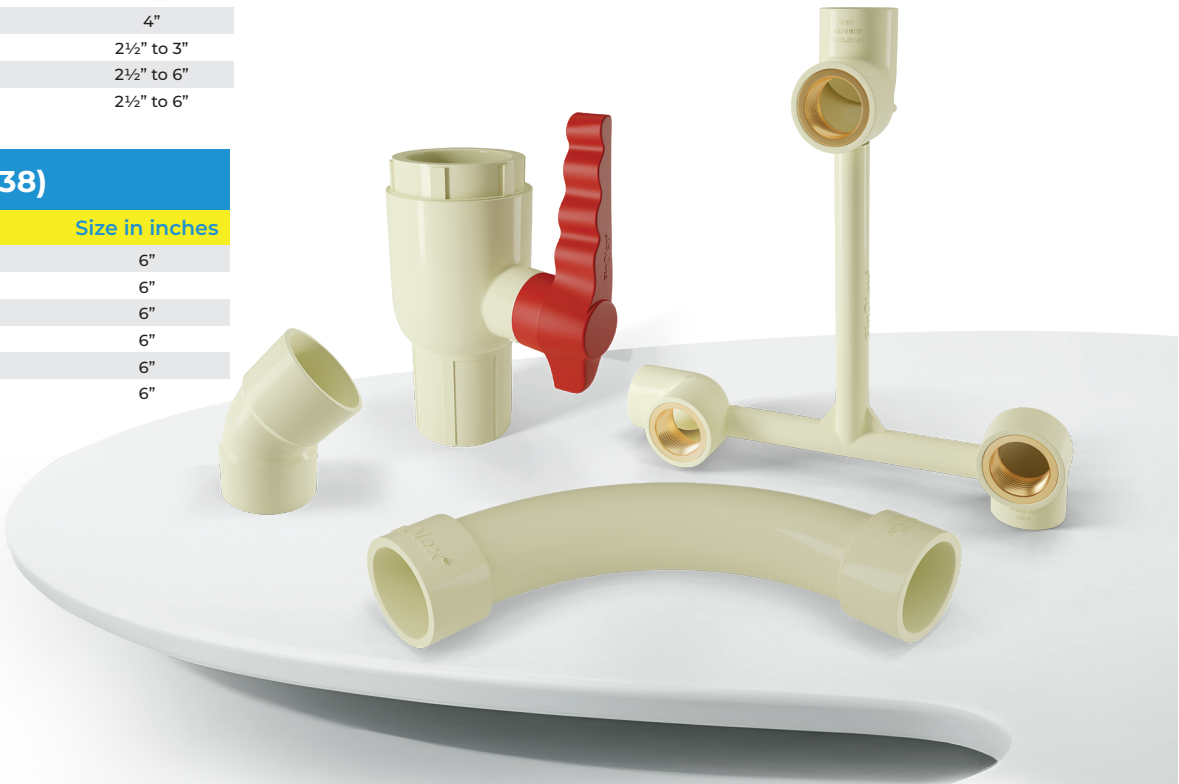
SDR 11 (As per ASTM-D 2846)	
Type of Fittings	Size in inches
Coupler	½" to 2"
Elbow 90°	½" to 2"
Elbow 90° - Brass Insert	½" to 1½"
Elbow 45°	½" to 2"
3 Way Elbow	¾" to 1"
Tee	½" to 2"
Cross Tee	½" to 2"
Tee - Brass Insert	½" to 1½"
End Cap	½" to 2"
Male Threaded Adapter (M.T.A.)	½" to 2"
Male Threaded Adapter (M.T.A.) - Brass Insert	½" to 2"
Female Threaded Adapter (F.T.A.)	½" to 2"
Female Threaded Adapter (F.T.A.) - Brass Insert	½" to 2"
Union	½" to 2"
Step Over Bend	½" to 2"
Tank Nipple	½" to 2"
Tank Nipple Socket	½" to 2"
Transition Bush	½" to 2"
Sweep Bend	¾" to 1¼"
Pipe Clip	½" to 2"

SCH-80 (As per ASTM F-439)	
Type of Fittings	Size in inches
Coupler	2½" to 4"
Elbow 90°	2½" to 4"
Elbow 45°	2½" to 4"
Tee	2½" to 4"
End Cap	2½" to 4"
Male Threaded Adapter (M.T.A.)	2½" to 4"
Female Threaded Adapter (F.T.A.)	2½" to 4"
Reducer	2½" to 4"
Reducing Bush	4"
Reducing Tee	2½" to 3"
Flange with Gasket Open	2½" to 6"
Flange with Gasket Close	2½" to 6"

SCH-40 (As per ASTM F-438)	
Type of Fittings	Size in inches
Coupler	6"
Elbow 90°	6"
Elbow 45°	6"
Tee	6"
End Cap	6"
Reducing Bush	6"

SDR 11 (As per ASTM-D 2846)	
Type of Fittings	Size in inches
Powder Coated Metal Clamp for CPVC Pipe	½" to 2"
CPVC Ball Valve	½" to 4"
Ball Valve Accessories - Red Handle	½" to 2"
Reducer	¾" to 2"
Reducing Bush	¾" to 2"
Reducing Elbow 90°	¾" to 2"
Reducing Elbow 90° - Brass Insert	½" to 1"
Reducing Tee	¾" to 2"
Reducing Male Threaded Adapter (M.T.A.)	¾" to 1"
Reducing Male Threaded Adapter (M.T.A.) - Brass Insert	¾" to 1"
Reducing Female Threaded Adapter (F.T.A.)	¾"
Reducing Female Threaded Adapter (F.T.A.) - Brass Insert	¾" to 1¼"
Tee Holder	½" to ¾"
Hex Nipple	½" to 1½"
Non Return Valve	¾" to 1"
Flange with Gasket Open	1" to 2"
Flange with Gasket Close	1" to 2"
Mixer 6" & 7"	¾" to ½"
Concealed Valve (Long & Short)	¾" to 1"

Type of Fittings	Size in inches
Brass Thread Ball Valve	¾"



CPVC FITTINGS IN SDR 11

As per ASTM D 2846

Finolex offers an extensive range of superior quality CPVC fittings. These products provide unmatched installation options with excellent finish, high dimensional accuracy and are suitable for all types of domestic and commercial installations.



TEE - BRASS INSERT

To connect male threaded CP/metal fittings like taps, shower etc. to the pipeline

mm	15	20	25	32
inch	½"	¾"	1"	1¼"
mm	20x15	25x15	25x20	32x15
inch	¾" X ½"	1" X ½"	1" X ¾"	1¼" X ½"



COUPLER

To join two lengths of pipes

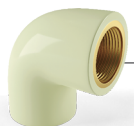
mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



ELBOW 90°

To give a 90° turn to a pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



ELBOW 90° - BRASS INSERT

To connect male threaded CP/metal fittings like taps, shower etc. to the pipeline

mm	15	20	25	32
inch	½"	¾"	1"	1¼"



ELBOW 45°

To give a 45° turn to a pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



END CAP

To plug the end of a pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



3 WAY ELBOW

To interconnect three pipes in different direction at 90°C

mm	20	25
inch	¾"	1"



TEE

To take a bypass or a service line from a main line

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



CROSS TEE

To take a double bypass or service line from a main line

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



MALE THREADED ADAPTER (M.T.A.)

To connect female threaded fittings to the pipeline

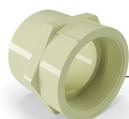
mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



MALE THREADED ADAPTER (M.T.A.) - BRASS INSERT

To connect female threaded CP/metal fittings like taps, showers, etc. to the pipeline

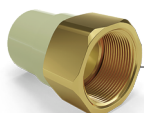
mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



FEMALE THREADED ADAPTER (F.T.A.)

To connect male threaded fittings to the pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



FEMALE THREADED ADAPTER (F.T.A.) - BRASS INSERT

To connect male threaded CP/metal fittings like taps, showers, etc. to the pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



UNION

To allow quick and convenient disconnection of pipes for maintenance or fixture replacement

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



STEP OVER BEND

To cross over an existing pipeline

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



TANK NIPPLE

To connect the pipeline to a tank

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



TANK NIPPLE SOCKET

To connect the pipeline to a tank. A socket is provided at one end of the tank nipple to connect with the pipe directly

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



TRANSITION BUSH

To connect ASTM PVC-U Pipeline (IPS) to CPVC Pipeline (CTS)

mm	15x15	20x20	25x25	32x32
inch	½"x½"	¾"x¾"	1"x1"	1¼"x1¼"
mm	40x40	50x50		
inch	1½"x1½"	2"x2"		



SWEEP BEND

To give 90° turn to a pipeline for smooth water flow

mm	20	25	32
inch	¾"	1"	1¼"



PIPE CLIP

To fix and secure the pipeline to a wall or a flat surface

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



POWDER COATED METAL CLAMP FOR CPVC PIPE

To fix and secure the pipeline to a wall or a flat surface

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



CPVC BALL VALVE

To allow a quick and convenient disconnection of water supply for flow control in water supply lines

mm	15	20	25	32	40	50	65	80
inch	½"	¾"	1"	1¼"	1½"	2"	2½"	3"



HANDLE FOR CPVC BALL VALVE

To use for on/off movement of Ball Valve

mm	15	20	25	32	40	50
inch	½"	¾"	1"	1¼"	1½"	2"



CPVC UNION BALL VALVE

To allow quick and convenient disconnection of water supply.

mm	100
inch	4"



CPVC BALL VALVE - BRASS

To allow quick and convenient disconnection of water supply.

mm	20
inch	¾"



REDUCER

To reduce the main line

mm	20x15	25x15	25x20	32x15
inch	¾"x½"	1"x½"	1"x½"	1¼"x½"
mm	32x20	32x25	40x15	40x20
inch	1¼"x¾"	1¼"x1"	1½"x½"	1½"x¾"
mm	40x25	40x32	50x15	50x20
inch	1½"x1"	1½"x1¼"	2"x½"	2"x¾"
mm	50x25	50x32	50x40	
inch	2"x1"	2"x1¼"	2"x1½"	



REDUCING BUSH

To reduce the internal diameter of fittings

mm	20x15	25x15	25x20	32x15
inch	¾"x½"	1"x½"	1"x¾"	1¼"x½"
mm	32x20	32x25	40x15	40x20
inch	1¼"x¾"	1¼"x1"	1½"x½"	1½"x¾"
mm	40x25	40x32	50x15	50x20
inch	1½"x1"	1½"x1¼"	2"x½"	2"x¾"
mm	50x25	50x32	50x40	
inch	2"x1"	2"x1¼"	2"x1½"	

REDUCING ELBOW 90°

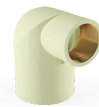
To give 90° turn to the pipeline and connect with a reduced pipeline

mm	20x15	25x15	25x20	32x15
inch	¾"x½"	1"x½"	1"x¾"	1¼"x½"
mm	32x20	32x25	40x20	40x25
inch	1¼"x¾"	1¼"x1"	1½"x¾"	1½"x1"
mm	50x25			
inch	2"x1"			

REDUCING ELBOW 90° - BRASS INSERT

To give 90° turn to the pipeline and connect with male threaded fittings

mm	20x15	25x15	25x20
inch	¾"x½"	1"x½"	1"x¾"



REDUCING TEE

To take a reducing bypass or service line from the main line

mm	20x15	25x15	25x20	32x15
inch	¾"x½"	1"x½"	1"x¾"	1¼"x½"
mm	32x20	32x25	40x15	40x20
inch	1¼"x¾"	1¼"x1"	1½"x½"	1½"x¾"
mm	40x25	40x32	50x20	50x25
inch	1½"x1"	1½"x1¼"	2"x¾"	2"x1"
mm	50x32	50x40		
inch	2"x1¼"	2"x1½"		



REDUCING MALE THREADED ADAPTER (M.T.A.)

To connect female threaded fittings to a bigger pipeline

mm	20x15	25x20
inch	¾"x½"	1"x¾"

REDUCING MALE THREADED ADAPTER (M.T.A.) - BRASS INSERT

To connect female threaded CP/metal fittings like taps, showers, etc. to a bigger pipeline

mm	20x15	25x15	25x20
inch	¾"x½"	1"x½"	1"x¾"



REDUCING FEMALE THREADED ADAPTER (F.T.A.)

To connect male threaded fittings to a bigger pipeline

mm	20x15
inch	¾"x½"



REDUCING FEMALE THREADED ADAPTER (F.T.A.) - BRASS INSERT

To connect male threaded CP/metal fittings like taps, showers, etc. to a bigger pipeline

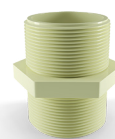
mm	20x15	25x15	25x20	32x15
inch	¾"x½"	1"x½"	1"x¾"	1¼"x½"



TEE HOLDER

To plug the end of a pipeline

mm	15x15	20x15
inch	½"x½"	¾"x½"



HEX NIPPLE

To connect two female threaded fittings on either side

mm	15	20	25	32	40
inch	½"	¾"	1"	1¼"	1½"



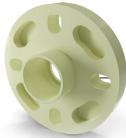
NON RETURN VALVE

To allow/control flow of water in only one direction

mm	20	25
inch	¾"	1"

FLANGE

A flange is method of connecting pipes, valves, pumps and other equipment to form a piping system. It provides easy access for cleaning, inspection or modification. Available in following options:



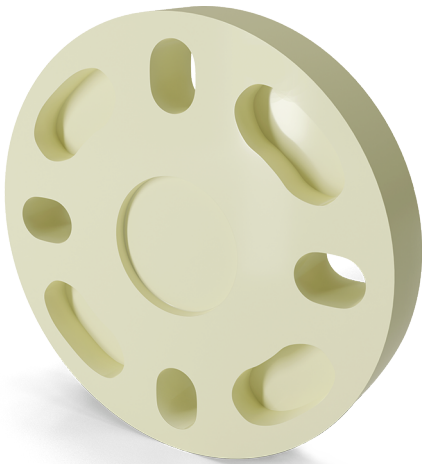
FLANGE WITH
GASKET-OPEN

mm	25	32	40	50
inch	1"	1¼"	1½"	2"



FLANGE WITH
GASKET-CLOSE

mm	25	32	40	50
inch	1"	1¼"	1½"	2"



WALL MIXER ADAPTERS

A wall mixer unit allows to draw water from both hot and cold sources and combine into a single flow. These mixers are available in 6" and 7" sizes in the following options:



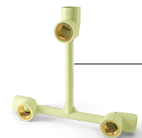
ALL TOP
6" & 7" MIXER

mm	20x15
inch	¾"x½"



TOP BOTTOM
6" & 7" MIXER

mm	20x15
inch	¾"x½"



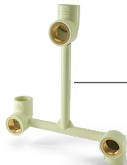
TOP SIDE
6" & 7" MIXER

mm	20x15
inch	¾"x½"



HOT UP COLD DOWN
6" & 7" MIXER

mm	20x15
inch	¾"x½"



HOT SIDE COLD DOWN
6" & 7" MIXER

mm	20x15
inch	¾"x½"

CONCEALED VALVES

A Concealed valve allows quick and convenient disconnection of concealed water supply lines. These concealed valves are available in full quarter turn variants.

LONG CONCEALED VALVE

SQUARE CONCEALED VALVE



Long Quarter Turn

mm	15	20	25
inch	½"	¾"	1"

Long Full Turn

mm	15	20	25
inch	½"	¾"	1"



TRIANGLE KNOB TYPE



Long Quarter Turn

mm	15	20	25
inch	½"	¾"	1"

Long Full Turn

mm	15	20	25
inch	½"	¾"	1"

ROUND KNOB TYPE



Long Quarter Turn

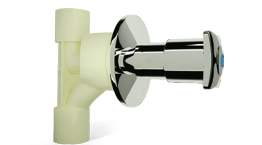
mm	15	20	25
inch	½"	¾"	1"

Long Full Turn

mm	15	20	25
inch	½"	¾"	1"

SHORT CONCEALED VALVE

SQUARE CONCEALED VALVE



Short Quarter Turn

mm	15	20	25
inch	½"	¾"	1"

Short Full Turn

mm	15	20	25
inch	½"	¾"	1"

TRIANGLE KNOB TYPE



Short Quarter Turn

mm	15	20	25
inch	½"	¾"	1"

Short Full Turn

mm	15	20	25
inch	½"	¾"	1"

ROUND KNOB TYPE



Short Quarter Turn

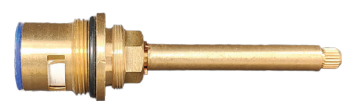
mm	15	20	25
inch	½"	¾"	1"

Short Full Turn

mm	15	20	25
inch	½"	¾"	1"

BRASS SPINDLES

BRASS SPINDLE, LONG QTR

	Size in mm (inch)	15 (½")	20 (¾")	25 (1")
	Ref. size in (mm)	15.90	22.20	28.60

BRASS SPINDLE, LONG FULL

	Size in mm (inch)	15 (½")	20 (¾")	25 (1")
	Ref. size in (mm)	15.90	22.20	28.60

BRASS SPINDLE, Short

	Size in mm (inch)	15 (½")	20 (¾")	25 (1")
	Ref. size in (mm)	15.90	22.20	28.60

BRASS SPINDLE, Short

	Size in mm (inch)	15 (½")	20 (¾")	25 (1")
	Ref. size in (mm)	15.90	22.20	28.60

CPVC FITTINGS IN SCH 40

As per ASTM F 438



SCH - COUPLER

To join two length of pipes

mm	150
inch	6"



SCH 40 - ELBOW 90°

To give a 90° turn to a pipeline

mm	150
inch	6"



SCH 40 - ELBOW 45°

To give a 45° turn to a pipeline

mm	150
inch	6"



SCH 40 - TEE

To take a bypass or a service line from the main line

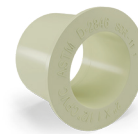
mm	150
inch	6"



SCH 40 - END CAP

To plug the end of a pipeline

mm	150
inch	6"



SCH 40 - REDUCER BUSH

To reduce the internal diameter of fittings

mm	150x50	150x65	150x80	150x100
inch	6"x2"	6"x2½"	6"x3"	6"x4"

CPVC FITTINGS IN SCH 80

As per ASTM F 439



SCH 80 - COUPLER

To join two length of pipes

mm	65	80	100
inch	2½"	3"	4"



SCH 80 - ELBOW 90°

To give a 90° turn to a pipeline

mm	65	80	100
inch	2½"	3"	4"



SCH 80 - ELBOW 45°

To give a 45° turn to a pipeline

mm	65	80	100
inch	2½"	3"	4"



SCH 80 - TEE

To take a bypass or a service line from the main line

mm	65	80	100
inch	2½"	3"	4"





SCH 80 - END CAP

To plug the end of pipeline

mm	65	80	100
inch	2½"	3"	4"



SCH 80 - REDUCER BUSH

To reduce the internal diameter of fittings

mm	100x40	100x50	100x65	100x80
inch	4"x1½"	4"x2"	4"x2½"	4"x3"



SCH 80 - MALE THREADED ADAPTER (M.T.A.)

To connect female threaded fittings to the pipeline

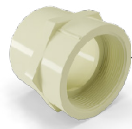
mm	65	80	100
inch	2½"	3"	4"



SCH - REDUCING TEE

To take a reducing bypass or service line from the main line

mm	65x15	65x20	65x25	65x32
inch	2½"x½"	2½"x¾"	2½"x1"	2½"x1¼"
mm	65x40	65x50	80x15	80x20
inch	2½"x1½"	2½"x2"	3"x½"	3"x¾"
mm	80x25	80x32	80x40	80x50
inch	3"x1"	3"x1¼"	3"x1½"	3"x2"
mm	80x65			
inch	3"x2½"			



SCH 80 - FEMALE THREADED ADAPTER (F.T.A.)

To connect male threaded fittings to the pipeline

mm	65	80	100
inch	2½"	3"	4"



SCH 80 - REDUCER

To reduce the main line

mm	65x15	65x20	65x25	65x32
inch	2½"x½"	2½"x¾"	2½"x1"	2½"x1¼"
mm	65x40	65x50	80x15	80x20
inch	2½"x1½"	2½"x2"	3"x½"	3"x¾"
mm	80x25	80x32	80x40	80x50
inch	3"x1"	3"x1¼"	3"x1½"	3"x2"
mm	80x65	100x15	100x20	100x25
inch	3"x2½"	4"x½"	4"x¾"	4"x1"
mm	100x32	100x40	100x50	100x65
inch	4"x1¼"	4"x1½"	4"x2"	4"x2½"
mm	100x80			
inch	4"x3"			



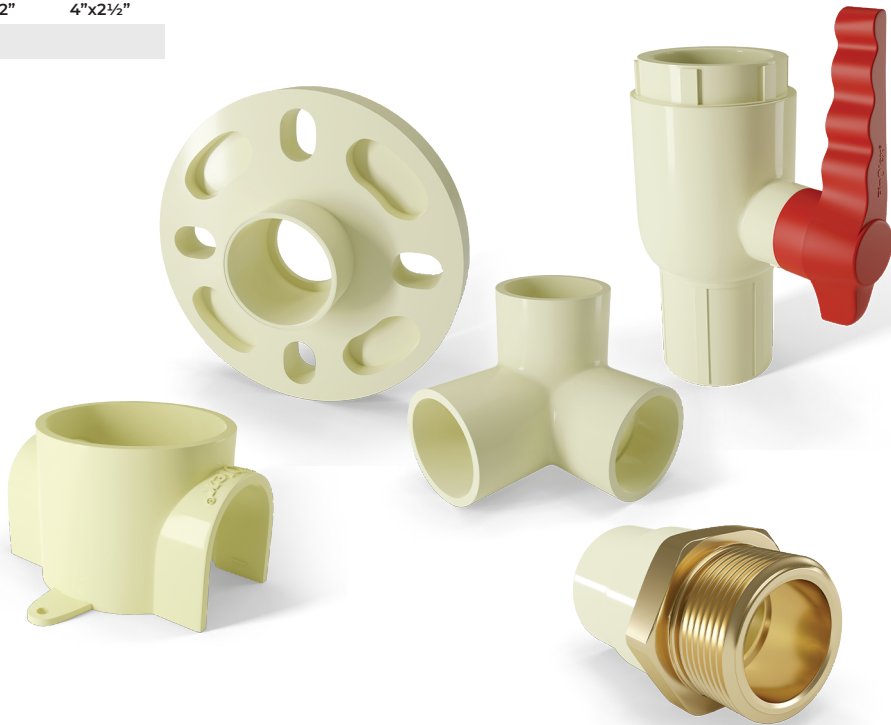
SCH 80 - FLANGE WITH GASKET-OPEN

mm	65	80	100	150
inch	2½"	3"	4"	6"



SCH 80 - FLANGE WITH GASKET-CLOSE

mm	65	80	100	150
inch	2½"	3"	4"	6"



FINOLEX SOLVENT CEMENTS & PRIMER

CPVC SOLVENT CEMENT



CPVC Solvent Cement for Hot and Cold Water plumbing applications. Yellow Medium Bodied Upto 2" (50mm) (As per ASTM F 493)

ml	10	25	59	118	237	473	946
Container	Tube	Tube	Tin	Tin	Tin	Tin	Tin



CPVC Solvent Cement for Hot and Cold Water plumbing applications. Orange Heavy Bodied Above 2" (50mm) (As per ASTM F 493)

ml	118	237	473	946
Container	Tin	Tin	Tin	Tin



PRIMER



Primer for PVC-U and CPVC plumbing applications (As per ASTM F 656)

ml	237
Container	Tin

PRECAUTIONS

Use CPVC solvent cement only

The system should be pressure-tested before it is concealed

The cement should be used within the expiry period mentioned on the container

Keep the cement away from all sources of ignition, heat, spark and open flame

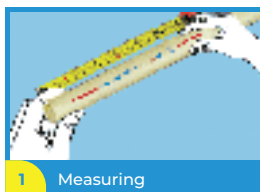
Ensure that the brush is clean and dry before commencing the solvent cement jointing

Do not attempt cementing in rainy or in moist conditions

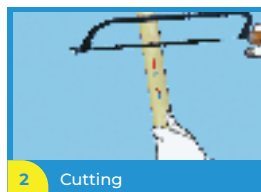
Use of primer before the solvent cement joint is essential for pipe sizes 65mm (2½") and above. This will increase the joint strength

After use, tightly close solvent cement and primer containers

JOINTING



1 Measuring



2 Cutting



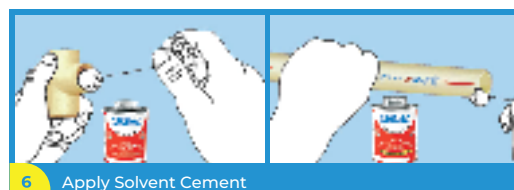
3 Deburring & Chamfering



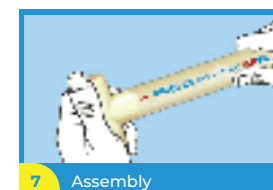
4 Cleaning



5 Check Dry Fitment



6 Apply Solvent Cement



7 Assembly



SOLVENT SET AND CURE SCHEDULE GUIDELINES

AVERAGE INITIAL SET SCHEDULE FOR CPVC SOLVENT CEMENT

The set schedule refers to the necessary time required before the joint can be safely handled.
(In damp or humid weather, allow 50% more set time than recommended)

Temperature Range	Pipe Size		
	½" to 1¼"	1¼" to 2"	2½" to 6"
16°C to 38°C	2 Minutes	5 Minutes	30 Minutes
5°C to 16°C	5 Minutes	10 Minutes	2 Hours
-18°C to 5°C	10 Minutes	15 Minutes	12 Hours

AVERAGE JOINT CURE SCHEDULE FOR CPVC SOLVENT CEMENT

The joint cure schedule refers to the necessary time required before pressurizing the system.
(Allow 50% more time for curing in damp or humid weather)

Temperature Range	Pipe Size					
	½" to 1¼"		1¼" to 2"		2½" to 6"	
Temperature Range during assembly and cure period	Up to 11 kg/cm²	Up to 22 kg/cm²	Up to 11 kg/cm²	Up to 22 kg/cm²	Up to 11 kg/cm²	Up to 22 kg/cm²
16°C to 38°C	15 Minutes	6 Hours	30 Minutes	12 Hours	1 - 1½ Hours	24 Hours
5°C to 16°C	20 Minutes	12 Hours	45 Minutes	24 Hours	4 Hours	48 Hours
-18°C to 5°C	30 Minutes	48 Hours	1 Hours	96 Hours	72 Hours	8 Days

INSTALLATION OF CPVC PIPES WITH SOLAR WATER HEATERS

- CPVC SDR 11 pipes are recommended for use with solar water heaters in the main line
- Based on the height of the building, it is very important to provide expansion and contraction loops for exposed pipes used in solar water heater installations
- It is strongly recommended that solar water heaters must be installed with thermo-regulating valves. However, if thermo-regulating valves are unavailable, air-venting on the hot water outlet side must be provided
- Only brass transition fittings must be used for all connections with solar water heaters
- Ensure proper pipe clamp support is provided
- When used with gas water heaters, CPVC pipes and fittings should not be directly connected to the heater. At least 150mm (6") clearance from the flame is recommended. For the initial portion a long metal nipple must be used
- Finolex CPVC pipes can be directly connected to the electrical water heater with special metal-to-CPVC transition fittings. Don't thread, groove or drill CPVC pipes



DO'S AND DON'TS

DO'S

- Use pipes, fittings and solvent cements manufactured by Finolex Industries for best results
- Installation should be completed as per instructions and recommended safe practices must be followed
- Clean the pipe and fittings with a clean dry cloth to remove any dirt
- Keep pipe and fittings in the original packaging until needed
- In case any crack is found in the pipe, cut a minimum of 25mm length beyond the edge of the crack
- Cut the pipe as square or perpendicular as possible before making a joint
- Ensure no sharp edges are in contact with the fittings surface while inserting the pipe
- Ensure proper alignment of pipe and fittings to avoid stress on the joints
- Ensure installation is done in such a way that there are no chances of air entrapment
- Use only teflon tape as a thread sealant
- Always conduct hydraulic pressure testing after installation to detect any leaks and faults
- Wait for the appropriate cure time before pressure testing. Fill lines slowly and allow air to escape from the system prior to pressure testing
- Paint pipes exposed to sunlight with a water-based paint
- Provide additional support to the brass side of CPVC/brass transition or other for keeping any heavy object to support the weight of the metal system

DON'TS

- Don't use metal hooks or nails to support/hold or put pressure on the pipes
- Don't use straps and hangers with rough or sharp edges. Do not tighten the straps over the pipes
- Never expose the pipe to open flame while trying to bend it
- Don't drop pipes on edges from heights. Do not drop heavy objects on pipes or walk on pipes
- Don't use air or gases for pressure testing
- Don't use any other petroleum or solvent-based sealant, adhesive, lubricant or fire-stop material on CPVC pipes & fittings
- Don't use CPVC pipes and fittings for pneumatic applications
- Don't use the CPVC piping system to support any metallic components
- Don't use CPVC solvent cement that exceeds its shelf life, has become discoloured or has gelled

CERTIFICATIONS AND APPROVALS



Tested and approved by
Central Institute of Plastics
Engineering & Technology
(CIPET)



Approved and tested
by SGS laboratory

Recommended by
leading plumbing
consultants pan India

CERTIFICATIONS & APPROVALS

All the product quality is continuously monitored in our in-house laboratory as per standards and released. Pipes, Fittings and Solvent Cement comply with IS 15778, ASTM D 2846, ASTM F 441, ASTM F 439, ASTM F 438, ASTM F 493 and ASTM F 656



Pipes are manufactured conforming to IS 15778 (Bureau of Indian Standards)



Tested and approved by Central Institute of Plastics Engineering & Technology (CIPET)



Certified by the Shriram Institute for Industrial Research (SIIR)



Tested and approved by the Department of Metallurgical Engineering and Material Science, Indian Institute of Technology Mumbai (IIT Mumbai)



Certified by the Central Food Technological Research Institute, Mysore (CFTRI)

FEATURES & BENEFITS



Cost effective



No corrosion resulting in uncompromised water quality



Easy installation



Ideal for hot and cold water applications



Leak-proof joints



Unaffected by chlorine in water



UV stabilised



Safe for potable water systems



High impact strength



Low thermal expansion



Manufactured from high grade raw material



Outstanding fire safety profile



No scaling, pitting or leach formation



Insulating properties result in high energy saving



Manufactured using lead-free material

APPLICATIONS

Finolex CPVC Pipes are ideal for hot and cold water distribution systems for indoor and outdoor applications. This system is widely used with solar and electric water heaters in:



High-rise buildings as well as independent houses



Manufacturing plants



Commercial establishments



Hospitals



Swimming pools

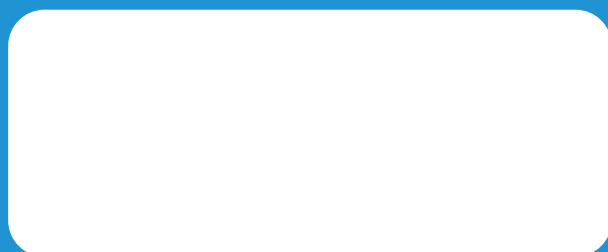


Hotels and resorts



Note: Not suitable for compressed air and gases.

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