UV RESISTANT

Pb-Free

QUALITY GUARANTEED

IDEAL FOR COLD WATER APPLICATIONS

UV RESISTANT

Pb Pb-Free

QA


Flowtite
2"
ASTM

ABOUT FLOWKEM

Flowkem started the journey from manufacturing Ball– valves and was incorporated in 2014 with a vision to provide best quality pipes and fittings across the country. Today we are an ISO 9001:2015 certified organisation whose aim is to make quality products available to every household and industry at best prices in the country.

Our manufacturing facility located at Ahmedabad (Gujarat) is equipped with modern and state of art machinery and infrastructure, covering a total area of 16 acres of which 22000 square meters of constructed area with 05 extrusion machines and 55 Injection moulding machines. Our products are produced in accordance with the Indian standards set by Bureau of Indian Standards (BIS) and other approving agencies.

We manufacture CPVC, UPVC, SWR pipes and fittings & Agriculture Pipes and Moulded fittings. The pipes and fittings are available in various sizes, pressure classes and diameters fit for diversified applications in both agricultural as well as non-agricultural sectors including housing, industrial and construction.

Under the leadership of Mr. Shailesh Patel, Managing Director, Flowkem has expanded into the plumbing industry. He is a person of great vision, exemplary talents and many achievements. His energy and enthusiasm have brought the Company to achieve many milestones. Beginning the journey from manufacturing Ball-valves in 2002 to venturing into plumbing and drainage systems, Flowkem has grown to be one of the popular brands in many markets in India.

We are growing at a fast pace and working with numerous channel partners across India which help us in reaching customers effectively. We also have an efficient marketing & sales infrastructure supported by professional team.

FLOWKEM aims to create its niche in plumbing and other water solution products. The customers' satisfaction is the most important goal for FLOWKEM.

Contents

Thermoplastics – An Alphabet Soup

Distillation of Petroleum

Crude Benzene

Propylene

Ethylene

$+Cl_2$

VCM

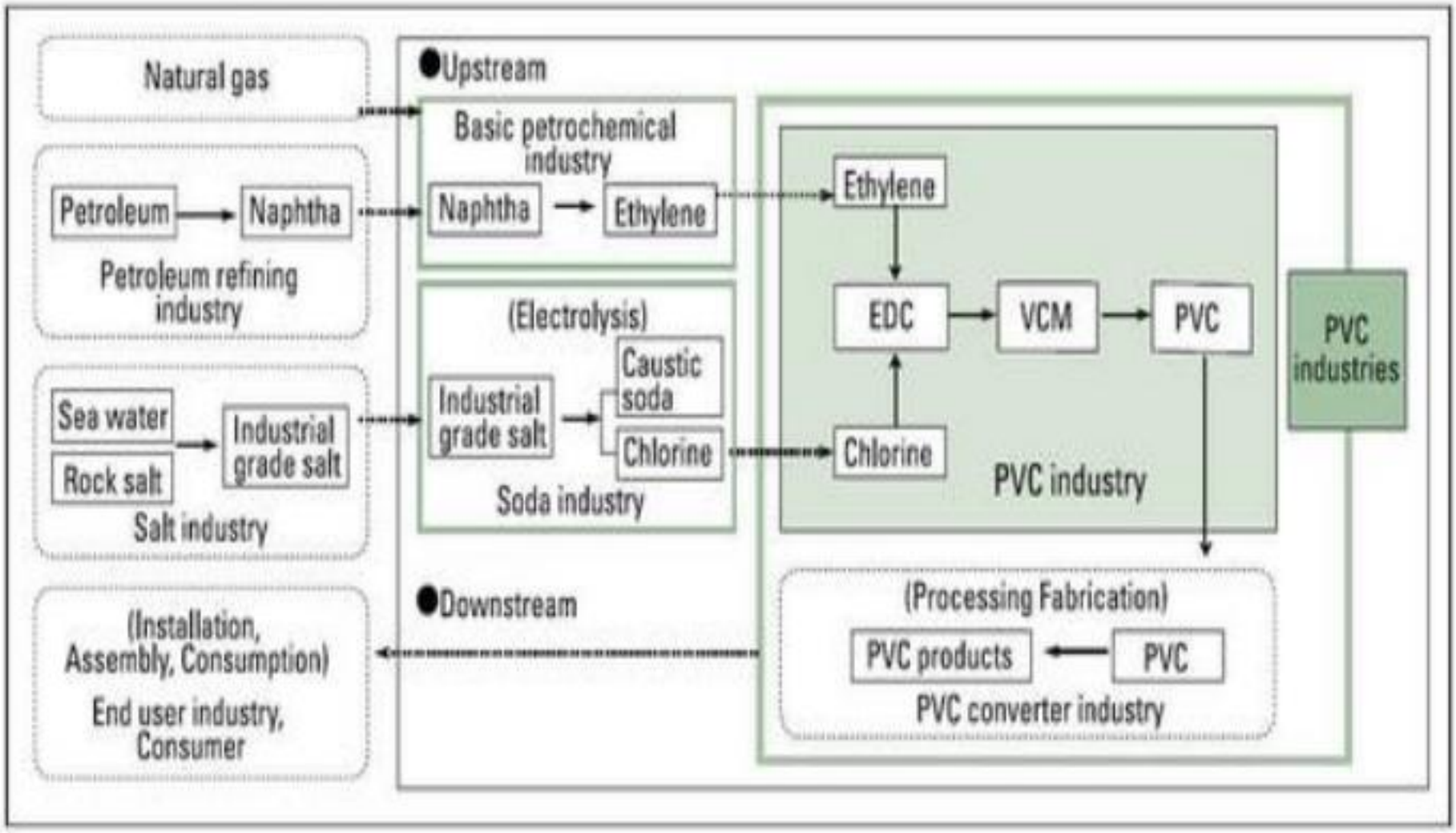
PVC

$+Cl_2$

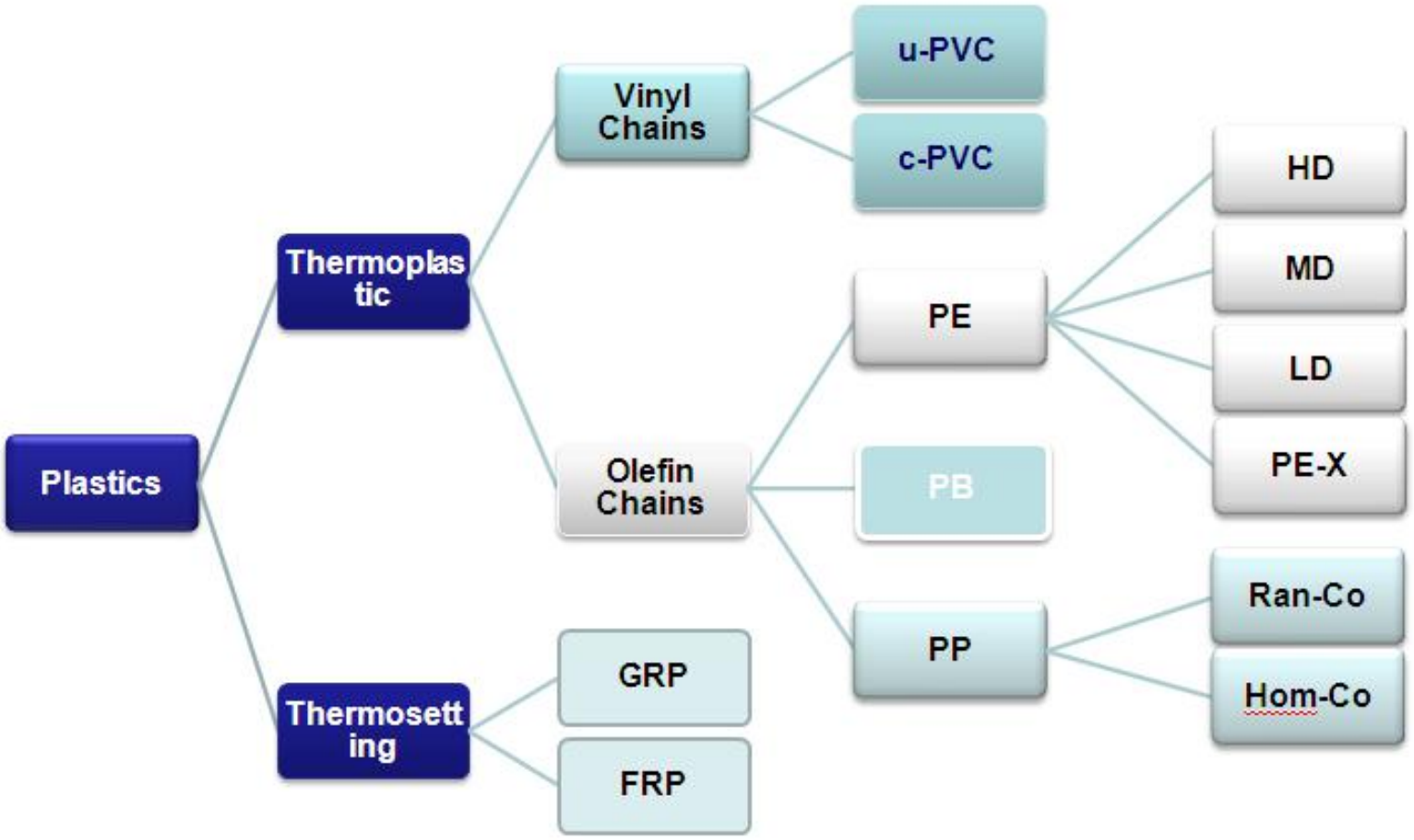
PP

PE

CPVC


Natural gas
Upstream
Basic petrochemical industry
Naphtha
Ethylene
Petroleum
Naphtha
Petroleum refining industry
Ethylene
EDC
VCM
PVC
PVC industries
(Electrolysis)
Caustic soda
Industrial grade salt
Chlorine
Sea water
Rock salt
Industrial grade salt
Salt industry
Soda industry
Chlorine
PVC industry
Downstream
(Processing Fabrication)
PVC products
PVC
PVC converter industry
(Installation, Assembly, Consumption)
End user industry, Consumer

Polymers in Piping



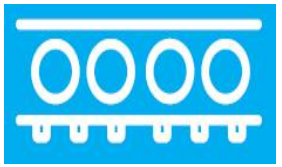
BASIC PROPERTIES OF UPVC ARE AS BELOW			
Sr. No.	Property	Units	Specified Value
1	Density	g/cm3	1.3-1.45
2	Thermal conductivity	w/(m.k)	0.14 - 0.28
3	Yield strength	MPa	31 - 60
4	Young's modulus	psi	4,90,000
5	Flexural strength (yield)	psi	10,500
6	Compression strength	psi	9500
7	Coefficient of thermal expansion (linear)	mm(mm"c)	5 x 10-5
8	Vicat B	°c	65-100
9	Resistivity	Qm	10^{16}
10	Surface resistivity	Q	10^{13} - 10^{14}

10 ASSURANCES

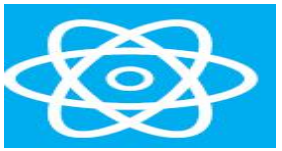
- STATE OF ART MANUFACTURING FACILITIES

- ADVANCED MACHINERY FOR CONDESCENDING QUALITY

- ADVANCED MATERIAL HANDLING SYSTEMS

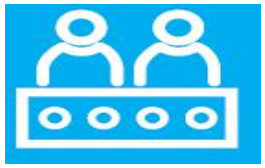


- 100% INCOMING RAW &PACKING MATERIALS INSPECTIONS



- HIGH DIMENSIONAL ACCURACY TO MAINTAIN QUALITY OF EACH PIECE, TO ENSURE A PRODUCT DEFFECT FREE

- STRICT QUALITY CHECKS AT EVERY STAGE OF PRODUCTION



- 100% FINISHED GOODS INSPECTION

- MULTIPLE QUALITY CHECKS FOR UPVC PIPE & MOULDED WITH OR WITHOUT BRASS FITTINGS THAT DISPATCHES FROM THE FLOWKEM FACTORY

- LAB TESTS PERFORMED FOR EVERY BATCH PRODUCED

- ROUTINE TEST CARRIED OUT AT EXTERNAL LAB LIKE CIPET

WHAT IS UPVC ASTM D PIPES AND FITTINGS ?

Polyvinyl polyvinyl chloride abbreviated: **PVC**) is the world's third-most widely produced synthetic plastic polymer (after polyethylene and polypropylene). About 40 million tons of PVC are produced each year. PVC comes in two basic forms: rigid (sometimes abbreviated as RPVC) and flexible. The rigid form of PVC is used in construction for pipe and in profile applications such as doors and windows.
Therefore, uPVC pipes are most commonly used for cold water applications in plumbing, water supply, underground drainage and sewage lines.

Due to the ability of uPVC pipe to withstand extreme movement and bending, it is also increasingly used in earthquake prone areas. It can withstand rigorous shaking of earth without experiencing any damages.

The smooth surface of the pipe is also resistant to bacterial contamination such as e.coli. Therefore, many water companies rely on uPVC pipes in their systems in order to keep them free of contamination.

WHY ONLY FLOWKEM UPVC ASTM D PIPE AND FITTINGS?

- Flowkem UPVC ASTM D pipes and fittings make ensure proper flow.
- High degree of accuracy at manufacturing ensures perfect dimensional control.
- UPVC ASTM D pipes and fittings are non-reactive to most acids, alkalis, effluents, salt, minerals etc.
- UPVC ASTM D pipes and fittings withstand high flow rates and due to smooth surface there is no scaling or depositions or chocking.
- UV Stabilized to protect from direct sunlight while being operational.
- Easy to installation and maintenance.
- UPVC ASTM D PIPE is a non-conductor of electricity, and therefore is not subject to galvanic or electrolytic action.
- Does not support fire and provides good resistance to combustion.
- Corrosion and rust proof which confirms longer durability of the product.
- Cost effective

STANDARDS AND CODES.

STANDARDS FOR PIPES AND FITTINGS

UPVC ASTM D PIPES AND FITTINGS ARE MANUFACTTURED IN SIZE ½" TO 2" IN CLASS SCH 40 & SCH 80

Class of pipes/ Fittings	Standard	Sizes available	Class of pipes/ Fittings	Standard	Sizes available
UPVC ASTM D PIPE SCH 40	ASTM D 1785	½" TO 2"	UPVC ASTM D PIPE SCH 80	ASTM D 1785	1/ 2" TO 2"
UPVC ASTM D PIPE SCH 80	ASTM D 2467	½" TO 2"			

TECHNICAL SPECIFICATION OF UPVC PIPE AS PER ASTM D1785

UPVC PIPE SCH 40 & SCH 80 TECHNICAL SPECIFICATION AS PER ASTM D1785							
				Wall thickness (mm)			
Nominal Pipe Size (Inch)	Outside Diameter (mm)	Tolerance (mm)	Out of Roundness (mm)	SCH 40		SCH 80	
				Min	Tolerance	Min	Tolerance
½"	21.34	± 0.10	± 0.20	2.77	+0.51	3.73	+0.51
¾"	26.67	± 0.10	± 0.25	2.87	+0.51	3.91	+0.51
1"	33.40	± 0.13	± 0.25	3.38	+0.51	4.55	+0.53
1 ¼"	42.16	± 0.13	± 0.30	3.56	+0.51	4.85	+0.58
1 ½"	48.26	± 0.15	± 0.30	3.68	+0.51	5.08	+0.61
2"	60.32	± 0.15	± 0.30	3.91	+0.51	5.54	+0.66

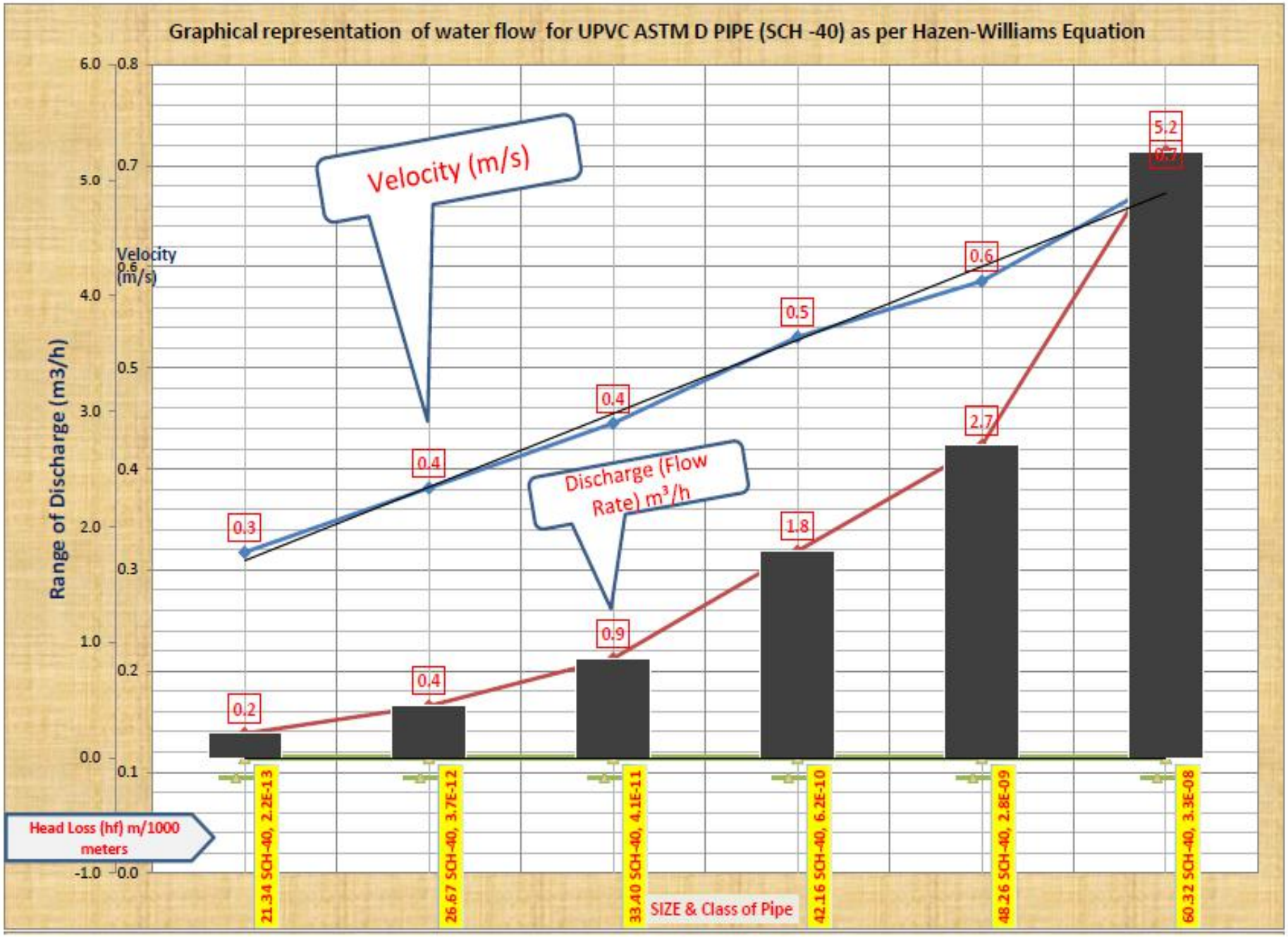
Pressure Rating - uPVC Pipes Schedule 40

Nominal (in)	Size (mm)	Average Outer Diameter (mm)	Min. wall thickness (mm)	Max. work pressure rating (kg/cm²) at 23°C	Burst Pressure (kg/cm²)
½	15	21.34	2.77	42.22	134.30
¾	20	26.67	2.87	33.75	108.29
1	25	33.40	3.38	31.61	101.26
1¼	32	42.16	3.56	26.00	83.00
1½	40	48.26	3.68	23.25	74.54
2	50	60.32	3.91	19.68	62.61

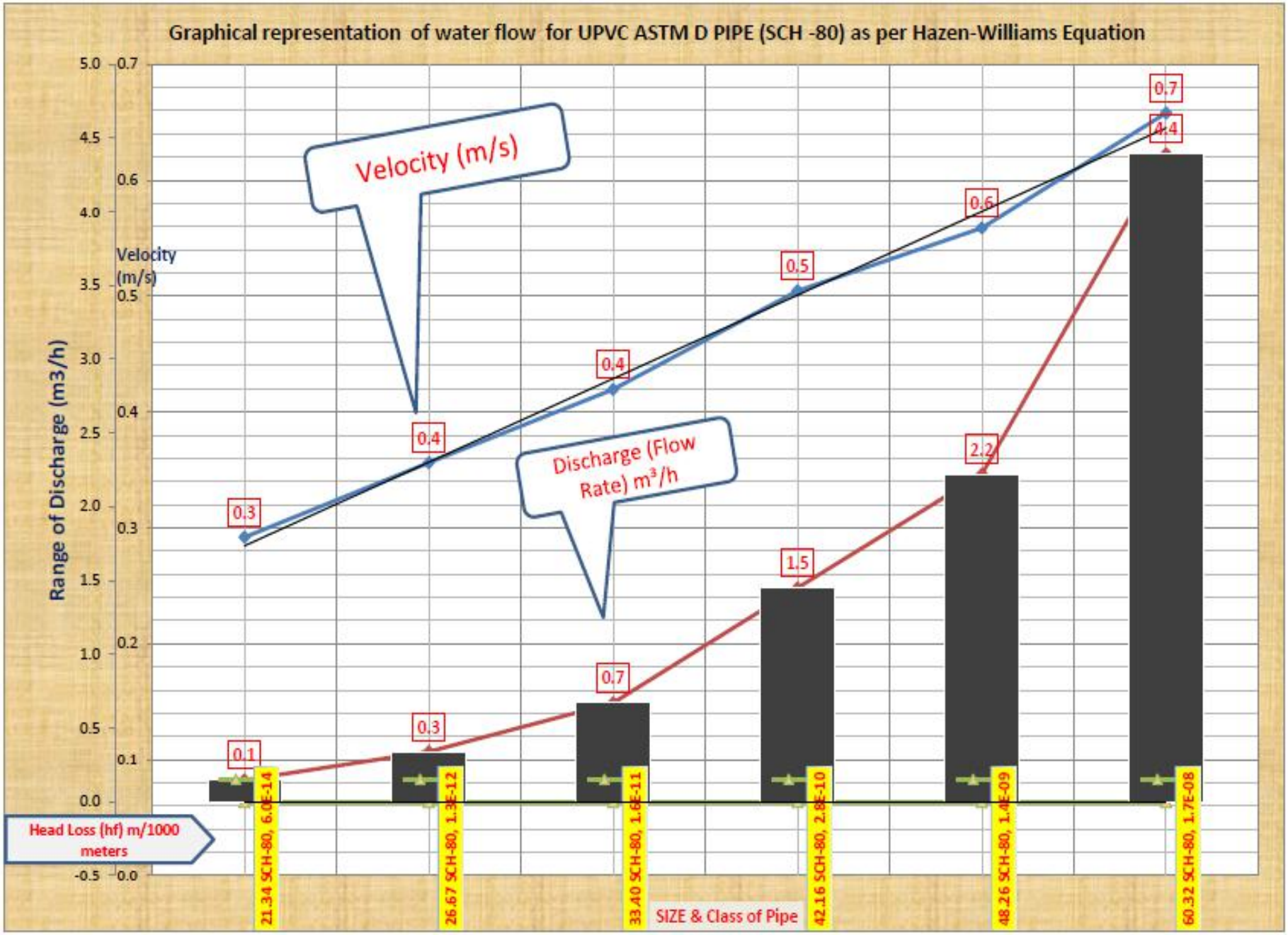
Pressure Rating - uPVC Pipes Schedule 80

Nominal (in)	Size (mm)	Average Outer Diameter (mm)	Min. wall thickness (mm)	Max. work pressure rating (kg/cm²) at 23°C	Burst Pressure (kg/cm²)
½	15	21.34	3.73	59.76	191.30
¾	20	26.67	3.91	48.54	154.69
1	25	33.40	4.55	44.26	142.05
1¼	32	42.16	4.85	36.61	116.76
1½	40	48.26	5.08	33.04	106.15
2	50	60.32	5.54	28.14	90.65

VELOCITY, DISCHARGE AND FRICTION LOSS FOR SCH-40 UPVC PIPES



VELOCITY, DISCHARGE AND FRICTION LOSS FOR SCH-80 UPVC PIPES



Note : For the calculation of Slope of Hydraulic Gradient (S), considered height(H) 1 meter. (Drop by length of pipe) and Pipe length (L) 100 meters.

For the calculated data of velocity, flow rates and head loss due to friction, please contact our technical Team.

QC Checks SOP at Flowkem

The pipes and fittings manufactured at Flowkem follow a stringent quality control process before being rolled out to the market, in order to supply a defect free system to its users.

❖ **Dimensions:** To ensure that all pipe dimensions particularly wall thickness and outer dimensions (roundness), confirm to the appropriate standards.

❖ **Flattening Test Samples:** are compressed so that opposite walls are brought together without pipe cracking, Good measure of correct extrusion techniques during production.

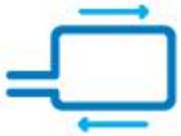
❖ **Drop Impact test:** Weights are dropped on the pipe to observe any crack or failure.

❖ **Heat reversion test:** How much the pipe changes in length when heated in an oven and left to cool this is a measure of residual stresses left in the pipe during production process.

❖ **Tensile Strength**: The maximum stress that a pipe can withstand while being stretched or pulled.

❖ **Density:** The **density** of an object is one of its most important and easily-measured physical properties. **Densities** are widely used to identify pure substances and to characterize and estimate the composition of many kinds of mixtures.

❖ **Burst Pressure**: Maximum pressure before pipes and fittings burst, again must be over three times normal pressure rating.



❖ **Hydrostatic pressure test**: System is to sustain up to 15 minutes a pressure of 1.5 times working pressure without leakage.

Fittings

❖ **Stress Relief Test**: To determine the level of internal stress by heating the fitting in an air circulated oven @ 150oC. There should not be any blisters, weld line splitting or any cracking.

Pipes & Fittings

❖ **Visual Appearance**: To ensure that all pipes and fittings are uniform in colour and free visual effects such as black dots, scratches, burn marks, etc.

❖ **Dimensions**: To ensure that all pipes and fittings conform to the appropriate Standards particularly wall thickness, socket diameters and socket depth.

Handling of Pipes

❖ The pipes should be checked for any forms of transport damage due to shift in loads or improper handling/treatment. Visually examine the end of pipes for any cracks or damage.

❖ The tendency to throw or drop the pipes to the floor should be avoided. Do not drag or push the pipes from a truck bed. Contact of the pipes with any sharp object should be totally avoided.

Storage of Pipes

❖ The Pipes should be stored indoors or below the shadow and dry area.

❖ Protect the pipes from sun light, to reduce the effect of UV rays.

❖ If pipes of same diameter but different classes are being stacked together, place the thicker pipes below. i.e., stack SCH 80 under SCH 40.

Solvent Cementing Instructions

When using solvent cement on the pipe, there are some basic safety point should be kept in your mind.

- After use of solvent cement on the pipe / fitting ensure to put the lid back on the solvent cement can and tighten the lid slightly to avoid evaporation or escape and dryness of solvent.

- Avoid prolonged breathing of solvent cement vapours. when joint together pipes and fittings

- Keep away from all sources of ignition, such as heat, sparks and open flame.

- Avoid eye and skin contact. In case of eye contact, flush with plenty of water for 15 minutes and call a doctor.

Note: Practice for Safe Handling of Solvent Cements is refer to ASTM F402

Installation Guidelines of UPVC Pipe and fittings

❖ **Cutting**: Take the measurement of pipe length accurately as per requirement & Ensure that the pipe and fittings are proper in size, then cut the pipe with a plywood cutting saw/ratchet cutter or a wheel cutter. Cutting of pipe should be square (as 90°) to provides proper bonding within joint area. Inspect pipe ends thoroughly prior to making a joint. If a crack or splintering is noticed cut-off a minimum of 25 mm beyond the visible crack before proceeding.

❖ **Deburring**：Burrs in and on pipe end can obstruct flow/proper contact between the pipe and socket of the fitting during assembly and should be removed from both in and outside of the pipe. A 15 mm dia half round file/a pen knife or a deburring tool are suitable for this purpose. A slight bevel on the end of the pipe will ease entry of the pipe into the socket of the fitting socket.

❖ **Fitting Preparation**: Using a clean dry rag, wipe the dirt and moisture from the fitting sockets and pipe end. Dry fit the pipe to ensure total entry into the bottom of the fittings socket and make a visible marking using a felt tip pen.

PRODUCT PORTFOLIO OF UPVC ASTM D FITTINGS

M. T. A.

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22MTA150	100	1200
20	3/4"	22MTA200	100	500
25	1"	22MTA250	50	300
32	1 1/4"	22MTA320	25	150
40	1 1/2"	22MTA400	20	120
50	2"	22MTA500	10	60

Brass FTA

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15*15	1/2"*1/2"	22BF1515	100	900
20*20	3/4"*3/4"	22BF2020	80	400
25*25	1"*1"	22BF2525	50	250
20*15	3/4"*1/2"	22BF2015	25	150
25*15	1"*1/2"	22BF2515	15	90
25*20	1"* 3/4"	22BF2520	15	150
32*32	1 1/4" * 11/4"	22BF3232	10	80
40*40	1 1/2" * 1 1/2"	22BF4040	08	64
50*50	2" * 2"	22BF5050	06	36

Brass MTA

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15*15	1/2"*1/2"	22BM1515	30	300
20*20	3/4"*3/4"	22BM2020	20	200
25*25	1"*1"	22BM2525	10	120
20*15	3/4"*1/2"	22BM2015	25	250
25*15	1"*1/2"	22BM2515	15	180
25*20	1"* 3/4"	22BM2520	15	150
32*32	1 1/4" * 11/4"	22BM3232	08	64
40*40	1 1/2" * 1 1/2"	22BM4040	-	-
50*50	2" * 2"	22BM5050	-	27

Brass Elbow

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15*15	1/2"*1/2"	22BE1515	30	300
20*20	3/4"*3/4"	22BE2020	15	180
25*25	1"*1"	22BE2525	8	80
20*15	3/4"*1/2"	22BE2015	20	200
25*15	1"*1/2"	22BE2515	10	120
25*20	1"*3/4"	22BE2520	10	100

Long Plug

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22LP1500	100	500

SOLVENT

Size (mm)	Size (In.)		Part No.	Quantity Bag	Quantity Box
59	ML	Tube	22SC5900	24	288
118	ML	Can	22SC1180	24	144
237	ML	Can	22SC2370	12	96
473	ML	Can	22SC4730	12	48
946	ML	Can	22SC9460	6	24

LONG BEND 90°

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	½"	22LB1500	-	-
20	¾"	22LB2000	-	-
25	1"	22LB2500	-	-
32	1 ¼"	22LB3200	-	-

uPVC Long Handle Ball Valve (Union Type)

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22UBV150	20	100
20	3/4"	22UBV200	10	80
25	1"	22UBV250	10	50
32	1 1/4"	22UBV320	5	25
40	1 1/2"	22UBV400	4	20
50	2"	22UBV500	2	12

Brass Tee

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15*15	1/2"*1/2"	22BT1515	20	160
20*20	3/4"*3/4"	22BT2020	10	100
25*25	1"*1"	22BT2525	8	64
20*15	3/4"*1/2"	22BT2015	15	120
25*15	1"*1/2"	22BT2515	10	80
25*20	1"*3/4"	22BT2520	8	80

REDUCER BUSH

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
20*15	3/4" * 1/2"	22RB2015	100	1400
25*15	1" * 1/2"	22RB2515	100	600
25*20	1"*3/4"	22RB2520	100	700
32*15	1 1/4" * 1/2"	22RB3215	60	360
32*20	1 1/4" * 3/4"	22RB3220	60	360
32*25	1 1/4" * 1"	22RB3225	70	350
40*15	1 1/2" * 1/2"	22RB4015	30	210
40*20	1 1/2" * 3/4"	22RB4020	30	210
40*25	1 1/2" * 1"	22RB4025	30	210
40*32	1 1/2" * 1 1/4"	22RB4032	30	210
50*15	2" * 1/2"	22RB5015	20	140
50*20	2" * 3/4"	22RB5020	20	140
50*25	2" * 1"	22RB5025	20	140
50*32	2" * 1 1/4"	22RB5032	20	140
50*40	2" * 1 1/2"	22RB5040	20	140

REDUCER TEE

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
20*15	3/4" * 1/2"	22RT2015	30	270
25*15	1" * 1/2"	22RT2515	25	125
25*20	1"*3/4"	22RT2520	25	125
32*15	1 1/4" * 1/2"	22RT3215	12	96
32*20	1 1/4" * 3/4"	22RT3220	15	75
32*25	1 1/4" *1"	22RT3225	10	70
40*15	1 1/2" * 1/2"	22RT4015	08	48
40*20	1 1/2" * 3/4"	22RT4020	08	48
40*25	1 1/2" * 1"	22RT4025	08	48
40*32	1 1/2" * 1 1/4"	22RT4032	08	48
50*15	2" * 1/2"	22RT5015	05	25
50*20	2" * 3/4"	22RT5020	05	25
50*25	2" * 1"	22RT5025	05	25
50*32	2" * 1 1/4"	22RT5032	05	25
50*40	2" * 1 1/2"	22RT5040	05	25

uPVC Ball Valve

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22BV1500	-	200
20	3/4"	22BV2000	-	128
25	1"	22BV2500	-	78
32	1 1/4"	22BV3200	-	54
40	1 1/2"	22BV4000	-	36
50	2"	22BV5000	-	22
63	2 1/2"	22BV6500	-	30

ELBOW 90°

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22E15000	100	400
20	3/4"	22E20000	50	300
25	1"	22E25000	30	150
32	1 1/4"	22E32000	15	90
40	1 1/2"	22E40000	10	70
50	2"	22E50000	6	36

COUPLIN (COUPLER)

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22CUP150	100	800
20	3/4"	22CUP200	50	500
25	1"	22CUP250	50	300
32	1 1/4"	22CUP320	25	150
40	1 1/2"	22CUP400	15	135
50	2"	22CUP500	10	60

uPVC Long Handle Ball Valve

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22TBV150	15	90
20	3/4"	22TBV200	10	70
25	1"	22TBV250	8	40
32	1 1/4"	22TBV320	5	30
40	1 1/2"	22TBV400	4	20
50	2"	22TBV500	2	14

ELBOW 45°

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22E451500	100	600
20	3/4"	22E452000	50	300
25	1"	22E452500	40	200
32	1 1/4"	22E453200	20	120
40	1 1/2"	22E454000	15	75
50	2"	22E455000	8	48

TANK NIPPLE

Size (mm)	Size (In.)	Part No.	Quantity	
			Bag	Box
15	1/2"	22TN1500	20	360
20	3/4"	22TN2000	15	240
25	1"	22TN2500	12	144
32	1 1/4"	22TN3200	12	84
40	1 1/2"	22TN4000	12	72
50	2"	22TN5000	10	50

F. T. A.

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22FTA150	100	900
20	3/4"	22FTA200	80	400
25	1"	22FTA250	50	250
32	1 1/4"	22FTA320	25	150
40	1 1/2"	22FTA400	15	90
50	2"	22FTA500	10	50

EQUAL TEE

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22T15000	40	400
20	3/4"	22T20000	30	240
25	1"	22T25000	20	140
32	1 1/4"	22T32000	10	70
40	1 1/2"	22T40000	8	48
50	2"	22T50000	5	25

uPVC TO CPVC CONVERTER - COUPLER

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
20	¾" IPS x ¾" CTS	22UTC200	50	500
25	1" IPS x 1" CTS	22UTC250	50	300

END CAP

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22EC1500	100	1200
20	3/4"	22EC2000	100	800
25	1"	22EC2500	50	400
32	1 1/4"	22EC3200	40	240
40	1 1/2"	22EC4000	30	180
50	2"	22EC5000	15	90

UNION

Size (mm)	Size (In.)	Part No.	Quantity Bag	Quantity Box
15	1/2"	22UN1500	240	240
20	3/4"	22UN2000	15	180
25	1"	22UN2500	12	144
32	1 1/4"	22UN3200	15	75
40	1 1/2"	22UN4000	8	40
50	2"	22UN5000	5	25

REDUCER COUPLER

20*15	3/4" * 1/2"	22RC2015	100	600
25*15	1" *1/2"	22RC2515	60	420
25*20	1"*3/4"	22RC2520	50	400
32*15	1 1/4" * 1/2"	22RC3215	40	200
32*20	1 1/4" * 3/4"	22RC3220	40	200
32*25	1 1/4" * 1"	22RC3225	30	180
40*15	1 1/2" * 1/2"	22RC4015	20	140
40*20	1 1/2" * 3/4"	22RC4020	20	140
40*25	1 1/2" * 1"	22RC4025	20	120
40*32	1 1/2" * 1 1/4"	22RC4032	20	120
50*15	2" * 1/2"	22RC5015	15	90
50*20	2" * 3/4"	22RC5020	15	90
50*25	2" * 1"	22RC5025	15	90
50*32	2" * 1 1/4"	22RC5032	15	60
50*40	2" * 1 1/2"	22RC5040	15	60

TECHNICAL SPECIFICATION OF UPVC FITTING AS PER ASTM D2467

Tapered Sockets for PVC Pipe Fittings, Schedule 80, in. (mm)[A]

Nominal size	Socket Entrance Diameter (mm)	Tolerance	Socket Bottom Diameter (mm)	Tolerance (INCH AND MM)	Socket Length in mm	Inside diameter (mm)	Wall Thickness (mm)	
							Socket Entrance (mm)	Socket Bottom (mm)
½	0.852 (21.64)	±0.004 (±0.10)	0.840 (21.34)	±0.004 (±0.10)	0.875 (22.22)	0.542 (13.77)	0.147 (3.73)	0.185 (4.70)
¼	1.062 (26.97)	±0.004 (±0.10)	1.050 (26.67)	±0.004 (±0.10)	1.000 (25.40)	0.738 (18.75)	0.154 (3.91)	0.195 (4.95)
1	1.330 (33.78)	±0.005 (±0.13)	1.315 (33.40)	±0.005 (±0.13)	1.125 (28.58)	0.952 (24.18)	0.179 (4.55)	0.225 (5.72)
1¼	1.675 (42.55)	±0.005 (±0.13)	1.660 (42.18)	±0.005 (±0.13)	1.250 (31.75)	1.273 (32.33)	0.191 (4.85)	0.240 (6.10)
1½	1.918 (48.72)	±0.006 (±0.15)	1.900 (48.26)	±0.006 (±0.15)	1.375 (34.93)	1.494 (37.95)	0.200 (5.08)	0.250 (6.99)
2	2.393 (60.78)	±0.006 (±0.15)	2.375 (60.325)	±0.006 (±0.15)	1.500 (38.10)	1.933 (49.10)	0.218 (5.54)	0.275 (6.99)

Burst pressure requirement for uPVC fittings Schedule 80 are same as burst pressure of uPVC schedule 80 pipes.

PRESSURE RATING -UPVC FITTINGS SCH-80 AS PER ASTTM D 2467

Nominal (in)	Size (mm)	Max. work pressure rating (kg/cm²) at 23°C	Burst Pressure (kg/cm²)
½	15	59.76	191.30
¾	20	48.54	154.69
1	25	44.26	142.05
1¼	32	36.61	116.76
1½	40	33.04	106.15
2	50	28.14	90.65

FIELD OF APPLICATION

In simple terms they are the most suitable and economical solution for distributing potable water. These pipes are lead free, UV stabilised and light weight which makes them easy to transport & install. Flowkem ASTM pipes are functionally most suitable for all plumbing applications and are primarily white in colour.

- **WATER PLUMBING APPLICATION IN BUILDING.**
- **INDUSTRIAL PROCESS LINES.**
- **SWIMMING POOLS.**
- **CORROSSIVE FLUID TRANSPORTATION.**
- **DIFFERENT TYPE PLANTING APPLICATIONS.**
- **PAPER AND DISTILLARY INDUSTRIES.**
- **SALT WATER LINES Etc.**

Note: Not suitable for compressed air and gases.

FAQs

What is Lead Free?

Lead free means the pipes don not contain lead . Lead is a toxic element.
Lead free pipes are hence 100% hygienic for transportation of drinking water .

WHY U.V. RESISTANT?

Due to Vltra-Violet Rays from the Sun , pipes decolourise and degrade fast .
In order to protect from UV radiation, PVC is compounded with UV resistant chemicals.
Hence discoloration and degradation of material is avoided and the remain unaffected in prolonged use in outdoor applications.

What about health, safety and fire toxicity issues?

Flowkem UPVC pipes is manufactured from a compound which
is lead free and hence most favoured system in terms of health and safety,
LOI of UPVC is 45, which means UPVC is not reality burnable in atmosphere.
Once the burning source is removed, it stops burning.

What is the recommended joint curing time?

Recommended Initial Set Time

Temperature range	Pipe size 1/2" to 1-1/4"	Pipe size 1-1/2" to 3"	Pipe size 4" to 6"
15.5°C - 37.7°C	15 min	30 min	1hr.
4.4°C - 15.5°C	1hr.	2hrs	4hrs

Recommended Initial Cure Time

Temperature range	Pipe size 1/2" to 1-1/4"	Pipe size 1-1/2" to 3"	Pipe size 4" to 6"
15.5°C - 37.7°C	6hrs	12hrs	24hrs
4.4°C - 15.5°C	12hrs	24hrs	48hrs