

First  
time in  
INDIA

3 LAYERS TECHNOLOGY



Market Leader in PPR Pipes & Fittings  
For the last 15 Years

PPR PIPES



SWR RANGE



AGRICULTURE  
RANGE



PLUMBING  
RANGE



FLOWLIFE

CPVC PIPES AND FITTINGS

CPVC PIPES



bolan

SANITARYWARE/  
FAUCETS



MONOBLOCK PUMP



PTFE THREADED SEAL TAPE



AN ISO 9001:2008 CERTIFIED

**SFMC**  
AN ISO 9001:2008 CERTIFIED

**FLOWLIFE**  
CPVC PIPES AND FITTINGS  
BY SFMC

**bolan**  
BATH COLLECTION  
BY SFMC

**Pavitra**  
Water Tank  
BY SFMC



# PPR PIPES & FITTINGS



The raw material of SFMC Pipes and fittings is polypropylene random copolymer (PP-R). This material due to high quality, is the most reliable system to be employed in hot & cold water plumbing and water supply application.

## Good Properties

- No calcification.
- Non corrosive.
- Leak proof and frost proof.
- Non decaying and non-deforming.
- Non contracting diameter.
- Around 50 years service life.
- High chemical resistance.
- No bacteria and moss reproduction with in the pipes.
- Resistance to high temperature (95°C).
- Heat preservative and energy saving (no need for insulation)
- Taste and odour neutral.
- No reaction with salts and acids.
- UV stable from sizes 25mm and above.
- Available in different pressure ratings for diversified usage from economy to premium range coverage.
- Recyclable - for the benefit of environment.

## 3 Layer PP-R Pipes

Light and Oxygen induce degradation reactants in plastic that may not only harm them visually but also exert a Detrimental influence on mechanical and physical properties. Thus the life of plastic product reduces drastically. Moreover, the environmental factors like humidity, temperature and pressure accelerates process. Thus the stabilization of polymers from UV ( Ultra Violet Rays from sun) becomes very important

## Advantages:

- UV Stabilizers contains various chemical properties, which gives the protection against UV light by various chemical mechanisms.
- Colors like Black, Green already have good resistance to UV rays, but addition of UV stabilizers further enhance the light and thermal stability of product.
- UV stabilizers impart long term durability and enhance life to the product.
- It helps to maintain the properties of polymers.

## Anti Microbial PP-R Layer:

- Anti - Microbial layer prevents the growth of bacteria/ microbes / algae etc. and preserves the pipes from them. This Anti Microbial additive is very low migrating which makes it last for the entire life of product. This Anti Microbial Layer is stable upto 270° C temperature.

## Benefits:

- Anti Microbial Layer is highly food grade .
- Water storability increases tremendously i.e. even for the water lying stagnant in the pipe, It remains hygienic without any bacterial formation for a long period of time .
- Bad odour can be avoided.



# SWR PIPES & FITTINGS

(SWR DRAINAGE SYSTEM)



SFMC Manufacturers Plain and Socket end Pipes with nominal Out side Diameter from 75,90,110 & 160 mm. These Pipes are used in soil and waste discharge system inside the building including ventilating and rain water applications.

AS PER IS (13592:1992 SWR TYPE A)

AS PER IS (13592:1992 SWR TYPE B)

Nominal Out Side Diameter	Mean Out Side Diameter		Wall Thickness Type - A	
	Min	Max	Min	Max
In mm				
75	75.00	75.30	1.80	2.20
90	90.00	90.30	1.90	2.30
110	110.00	110.40	2.20	2.70
160	160.00	160.50	3.20	3.80

Nominal Out Side Diameter	Mean Out Side Diameter		Wall Thickness Type - B	
	Min	Max	Min	Max
In mm				
75	75.00	75.30	3.20	3.80
90	90.00	90.30	3.20	3.80
110	110.00	110.40	3.20	3.80
160	160.00	160.50	4.00	4.60

## Salient Features

- High flow rate & Non - Conductive
- Low Priced
- Resilient and resistant to most of the chemicals
- UV Stabilized
- Non-Corrosive
- Durable and long lasting
- Fast and convenient installation



Nominal Out Side Diameter (D) mm	Tolerance on outside diameter mm	Wall Thickness-Type-A (t) mm		Wall Thickness-Type-B (t) mm	
		Min.	Max.	Min.	Max.
75	+0.3	1.8	2.2	3.2	3.8
90	+0.4	1.9	2.3	3.2	3.8
110	+0.4	2.2	2.7	3.2	3.8
160	+0.5	3.2	3.8	4.0	4.6

- **High flow rate & Non - Conductive**  
SFMC uPVC Pipes have smooth inner surface. uPVC SWR Pipes & Fittings are non-conductive and galvanic or electrolytic action does not affect in working. Thus flow rate will be more.
- **Low Priced**  
Due to light weight and simple jointing techniques, saving can be affected in the cost of material, transportation and installation. Cost of SFMC uPVC SWR Pipes & Fittings are therefore more cost effective than conventional drainage pipes.
- **Resilient and resistant to most of the chemicals**  
SFMC uPVC SWR Pipes & Fittings are resistant to alcohol, fats, oil, aromatic & chlorinated hydrocarbons. Also they are more reliable and do not support any fungal growth.
- **UV Stabilized**  
SFMC SWR Pipes & Fittings usable for drainage system is UV Stabilized which eliminates the adverse effect of sunlight and weather. Therefore the system can be used for outdoor applications.
- **Non-Corrosive**  
Pipes do not support any formation of rust on pipes.
- **Durable and long lasting**  
It has very good tensile and impact strength, hence, site breaking is totally eliminated.
- **Fast and convenient installation**  
As the SFMC uPVC SWR Pipes & Fittings are extremely light in weight and provided with special rubber jointing technique, installation will be easier. Jointing can be done within seconds with special rubber rings which eliminate leakages. Cleaning is also very easy.



SFMC 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 mm to 400 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 fittings are also available.

### Dimensions of uPVC Pressure Pipes (IS 4985:2000 Extract)

Nominal outside diameter (D)	Tolerance on outside diameter	wall Thickness (t)mm									
		Class 1 (PN) 2.5 kgf/cm <sup>2</sup>		Class 2 (PN) 4kgf/cm <sup>2</sup>		Class 3 (PN) 6kgf/cm <sup>2</sup>		Class 4 (PN) 8kgf/cm <sup>2</sup>		Class 5 (PN) 10kgf/cm <sup>2</sup>	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	+ 0.3	-	-	-	-	-	-	-	-	1.1	1.5
25	+ 0.3	-	-	-	-	-	-	1.2	1.6	1.4	1.8
32	- 0.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2
40	+ 0.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7
50	+ 0.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3
63	+ 0.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1
75	+ 0.3	-	-	1.8	2.2	2.6	3.1	3.4	4	4.2	4.9
90	+ 0.3	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5	5.7
110	+ 0.4	1.6	2.4	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1
125	+ 0.4	1.8	2.2	2.9	3.4	4.3	5	5.6	6.4	6.9	8
140	+ 0.5	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9
160	+ 0.5	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2
180	+ 0.6	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4
200	+ 0.6	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11	12.7
225	+ 0.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3
250	+ 0.8	3.6	4.2	5.7	6.5	8.5	9.1	11.2	12.9	13.8	15.9
280	+ 0.9	4.1	4.8	6.4	7.4	9.5	11	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	19.6	22.6
400	+ 1.2	5.8	6.7	9.1	10.5	13.5	15.6	17.8	20.5	20	25.3

### Benefits of SFMC Rigid PVC pipes

- Economy** : Being cheaper than conventional cement and steel pipes, SFMC RIGID PVC PIPES are very economical.
- Light weight** : PVC pipes are 1/6<sup>th</sup> the weight of steel pipe. This makes them easy to carry and install, doing away with heavy material handling equipment. This reduces labour cost as well, as the process of installation is faster.
- Rugged and Durable** : Manufactured out of the best PVC material, SFMC RIGID PVC PIPES do not get rusted and are not affected by most chemicals. Hence, they last longer, render trouble - free service and require less maintenance.
- More Flow** : Frictional losses in SFMC RIGID PVC PIPES are 40% lower than conventional pipes. Hence there is approximately 25% more flow than from pipes of the same size conventional pipes and pipes of other companies.

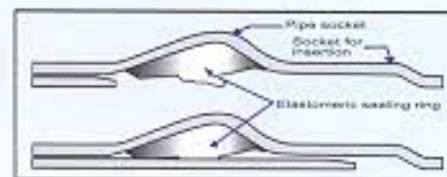


# ELASTOMERIC RIGID UPVC PIPES



## SFMC Elastomeric Rigid uPVC Pipes

SFMC" UPVC Elastomeric Sealing Ring Joint Pressure Pipes are manufactured in the range of 63 mm to 315 mm diameters with 4, 6, 8 and 10 kgf/cm<sup>2</sup> working pressures. The pipes have one end sealing ring and other end plain with 15° chamfer which fit snugly without couplers. We are manufacturing "SFMC" UPVC ring fit pipes for potable water supply as per IS: 4985:2000 standard. "SFMC" ring fit pipes are supplied in standard length of 6 mtrs. exclusive of socket portion in grey colour, however we have flexibility to supply in different length and colour as per the customer requirements. We are manufacturing the "SFMC" UPVC Ring fit Pipes with latest technology fully automatic Machines. We are having full fledged and well equipped Laboratory to do inspections as per on the various standards before dispatches.



## Salient Features

- Jointing can be done under any weather conditions and at any time of the day.
- Convenient push fit joint saves manpower.
- Faster installation, immediate pressure testing and commissioning possible.
- Joints accommodate expansion and contraction.
- Joints are resistant to soil movement due to earthquake effects.

## Applications

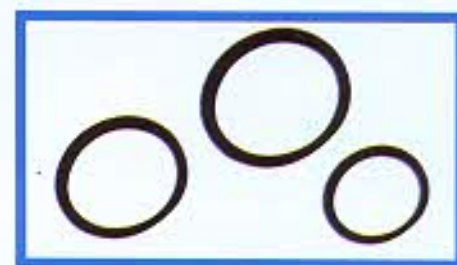
- Potable water supply system
- Agriculture and irrigation schemes
- Urban and rural areas drinking water supply schemes
- Industrial/Chemical effluent disposal system
- Bio-gas and oil distribution lines
- Acid and slurries transportation
- Subsoil drainage systems



## SFMC 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.

1. Very low assembly force is required for joint.
2. It has good operational life.
3. These rings give greater reliability and joint tightness.
4. Specially suitable for under ground application.
5. It is resistant to salt water, organic vegetable oils, dilute acids and alkalis normally found in waste water. It is also resistant to ozone, ultra violet radiation, bacteria, fungus and termites





# LEAD FREE HIGH PRESSURE

## upvc threaded pipes

These pipes are manufacture as per ASTM D-1785 standard and fittings are made as per ASTM D-2466, which are available in SCH 40 and 80 pressure class. These pipes are generally used for plumbing, water supply and jet pumps. ASTM threaded pipes are 30-40% cheaper to G.I. pipes. These pipes are very easy to install and functionally most suitable for plumbing application like terrace looping, down-take and up-take lines in building industry.

Nominal Bore (inch)	Outside Diameter (D) (mm)	Schedule 40			Schedule 80		
		Wall thickness (t) (mm)	Working Pressure		Wall thickness (t)(mm)	Working Pressure	
			Mpa	psi		Mpa	psi
½	21.34 ± 0.10	2.77 + 0.51	2.07	300	3.73 + 0.51	2.90	420
¾	26.67 ± 0.10	2.87 + 0.51	1.65	240	3.91 + 0.51	2.34	340
1	33.40 ± 0.13	3.38 + 0.51	1.55	225	4.55 + 0.53	2.21	320
1¼	42.16 ± 0.13	3.56 + 0.51	1.27	185	4.85 + 0.58	2.79	260
1½	48.26 ± 0.15	3.68 + 0.51	1.17	165	5.08 + 0.61	1.65	240
2	60.32 ± 0.15	3.91 + 0.51	0.96	140	5.54 + 0.66	1.38	200
2½	75.20 ± 0.15	5.16 + 0.61	1.03	150	7.01 + 0.48	1.45	210
3	88.90 ± 0.20	5.49 + 0.66	0.89	130	7.69 + 0.91	1.31	190
4	114.30 ± 0.23	6.02 + 0.71	0.76	110	8.56 + 1.02	1.10	160
5	141.30 ± 0.25	6.55 + 0.79	0.65	90	9.52 + 1.04	0.97	120
6	168.28 ± 0.28	7.11 + 0.86	0.65	90	10.97 + 1.32	0.97	120

ASTM Pipes are produced strictly as per ASTM D 1785 and they offer the following advantages over conventional pipes like cement and cast pipes.

## FEAUTES AND ADVANTAGES

- ASTM pipes are lighter in weight & easy for installation.
- Non-corrosive, Non-toxic & Chemical resistant in nature.
- Uniform pipe dimensions & threading with smooth inner diameter.
- ASTM pipe diameters are equivalent to GI pipe & fittings.
- Better resistance of water hammer & Surge pressure.
- ASTM pipes are good strength and better quality ensuring durability. These pipes are priced at affordable rates.

## SALIENT FEATURES

- Safe for drinking water supply system.
- Light in weight, easy to handle and install.
- Rust and leak proof and have high resistance to heat, fire etc.
- Economical- compared to G.I. pipes and pipes of other companies.



## DIMENSIONS OF PLUMBING PIPES (AS PER IS : 4985 - 2000)

Nominal Bore	Tolerance on Outside Diameter	Class 1 2.5kgf/cm <sup>2</sup>		Class 2 4kgf/cm <sup>2</sup>		Class 3 6kgf/cm <sup>2</sup>		Class 4 8kgf/cm <sup>2</sup>		Class 5 10kgf/cm <sup>2</sup>		Class 6 12kgf/cm <sup>2</sup>		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	4.7	4.3

# CPVC PIPES & FITTINGS

## for Hot & Cold Water Applications

### Advantages

- High and low rise residential buildings, complexes, societies and hotels
- Office complexes
- Commercial and Industrial Installations
- Villas, Farm-houses and Individual homes
- Solar water heaters and Geysers
- Hot and cold water distribution in residential, industrial and public projects.
- Carrying drinking water and liquid foods
- Water and waste water treatment systems
- Transportation of chemical and hot corrosive fluids, which includes a wide variety of inorganic acids, bases used in chemical processing
- Use in industries like metal finishing, plating and treatment, pulp and paper, air pollution control, mining, aerospace, textile, food and beverage processing, fire sprinkler piping and municipal projects.
- Solar heating, central heating and radiant floor heating application
- Trouble-free Proven Performance.
- Smooth Bore and 100% Water carrying capacity.
- Low Thermal Expansion.
- Very low thermal conductivity ensures hot water maintaining its temperature for a long duration.
- High Impact strength even in low temperature conditions.
- Can be installed and operated in all weather conditions.
- Pressure and temperature bearing capacity remains unaffected even after long solar and UV radiation exposure.
- Excellent resistance from corrosion.
- Bacteria growth in CPVC is far lower than Copper, GI, MS and other alternate piping systems.
- Resistance to chlorine present in water.
- CPVC uses a simple solvent cement jointing method.
- CPVC is compatible with Hot & Cold water. It is safe to use the pipe in hot water upto 93°C.
- CPVC has a limiting oxygen index (LOI) of 60. Thus in air CPVC does not support combustion.

### DIMENSIONAL CHART OF CPVC PIPES AS PER 15778 : 2007

All dimensions are in 'mm'							
Nominal Diameter In Inch	Mean outside Diameter in mm		Class - 1 (SDR 11)		Class - 2 (SDR 13.5)		
	Min	Max	Min	Max	Min	Max	
1/2	15.8	16.0	1.7	2.2	1.4	1.9	
3/4	22.1	22.3	2.0	2.5	1.7	2.2	
1	28.5	28.7	2.6	3.1	2.1	2.6	
1 1/4	34.8	35.0	3.2	3.7	2.6	3.1	
1 1/2	41.2	41.4	3.8	4.3	3.1	3.6	
2	53.9	54.1	4.9	5.5	4.0	4.6	

Operating Temp vs Working Pressure (SDR 11)								
Operating Temp. °C	27	32	38	49	60	71	82	93
Working Pressure (kg/cm <sup>2</sup> )	28	25	22.4	18.2	14	11.2	7	5.6

Note:

- 1) The minimum wall thickness of 15mm pipes are not a function of SDR which is the ratio of minimum outside
- 2) The Class - 1 (SDR 11) pipes of this chart are similar to that of pipes as per ASTM D 2846 are commonly marketed as per this standard
- 3) CPVC 4120 is the recommended grade of material in ASTM D 1784 & 2846 having a Hydrostatic Design stress of 14 Mpa (or 2000 psi).

Class of Pipe	Standard	Sizes	Class of Fittings	Standard	Sizes
SDR 13.5 Pipe	IS 15778 ASTM D 2846	1/2" - 2"	SDR 11 Fittings	ASTM D 2846	1/2" - 2"



# bolan®

ITALIAN COLLECTION  
BY SFMC

Wall Hung Closets Series



Cosita



Single Piece Closet Series



Wall Hung Closets Series



Floor Mounting EWCs



Pedestal Basin Series



Pedestal Basin Series



Carvell Cat.



Table Top Basin



Wall Hung Half Pedestal Basin



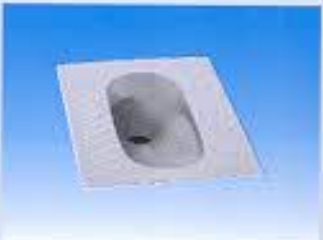
Art Basin Colored



Wall Hung Basin



Squatting Pans



Concealed Cistern





**bolan**<sup>®</sup>  
 BATH COLLECTION  
 BY SFMC  
*Faucets for ever*



Solo



Square



Sharp



Spin



Shield



Snob



Special



Stream



Safe



Spear



Solid



Slim



Sleek



Pulse



Pride



Promo

WORLD-CLASS  
*Performance*

Bolan has been a pathbreaker in the faucet and shower industry. Innovation and the functionality of our products are expressed in perfect design.

We are constantly motivated by the standards we set ourselves and are recognised for the development of trailblazing technologies.

We don't just want our ideas to revolutionise the way we use water; we also want to set new standards in ease of use and control.

There is one thing Bolan developments should be above all else: they should be fun. This claim goes with every single deliberation we make, and every line drawn by our designers.

To us, design is not a matter of taste; it is an attitude – even a passion. Design is never an end in itself, but is always the expression of equality between form and function. In the search for the most intelligent solutions, we create products of an exceptional quality that provides lasting pleasure.

# SHOWER SERIES

best form of rejuvenation that relaxes your body, calms your nerves and invigorates your senses

## ABS SHOWERS



**BN-400**  
ABS 4" Round(Air Function)  
Single Flow



**BN-410**  
ABS 4" Round(Air Function)  
Single Flow

## TOP SHOWERS



**BN-2910**  
Material: ABS  
Single Settings

## HAND SHOWERS



**BN-2911**  
Material: ABS  
Single Settings

## TOUCH SHOWERS



**BN-25400**  
Material: ABS  
Size: 5" Touch Shower 3 Functions



## SANDWICH SHOWER

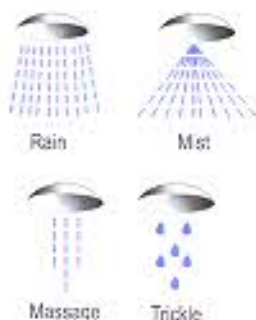


**BN-6001**  
SS 304 Spa Shower 2 Functions (Single Inlet)  
12"x12"  
Rain + Mist Flow

## ABS HAND SHOWERS



**BN-9000**  
4 Functions



## TELEPHONIC SHOWER



**BN-2855**  
Material: ABS  
Single-Setting



**BN-F28**  
Material: ABS  
Single-Setting

## RAIN SHOWERS



**BN-108**  
Material: ABS  
Size 10"x8"



**BN-128**  
Material: ABS  
Size 6"x12 Rectangle"

## WASTE COUPLING POP UP



**-A4**  
1 1/4"x7 Full Brass

## BATH SET SQUARE



**BN-9259**  
Soap Dish

## FLOOR DRAIN POP UP



5"x5" Square Anti Fall



# PTFE THREADED SEAL TAPE



## FEATURES & BENEFITS

- It's a Novel & Ideal Sealing Material
- Corrosion Resistance
- Chemically Inert, Non-Toxic
- Excellent Sealant
- Economical, Odorless & Durable
- No Dripping
- Never Dries Out
- Lubricates Threads for Easy Assembly
- Easy to Apply & Handle with no Mess

SFMC PTFE tape is manufactured from the highest quality resins. This universal thread sealant can be used on all types of metal or plastic pipes connections and effectively seals a vast array of chemicals.

### Precaution

- Keep the PTFE tape clean
- Replace the cover on spool after use.
- Clean the male and female threads thoroughly
- Wrap the tape around male thread Keep the tape under tension while wrapping

## ENGINEERING EXCELLENCE



### SELF PRIMING PUMPS

MODEL	POWER RATING		PIPE SIZE (mm)	TOTAL HEAD (M)											
	KW	HP		6	9	12	15	18	21	24	27	30	33	36	39
DISCHARGE IN LPH															
STAR 1	0.37	0.5	25*25	2050	1750	1500	1200	900	700	400	0				
STAR 2	0.37	0.5	25*25	2100	1850	1700	1500	1250	1050	850	550	200	0		
STAR 3	0.37	0.5	25*25	3000	2800	2650	2400	2100	1850	1600	1300	1000	700	350	0

MODEL	POWER RATING		PIPE SIZE (mm)	TOTAL HEAD (M)											
	KW	HP		5	10	15	20	25	30	35	40	45	50	55	60
DISCHARGE IN LPH															
SPEED 1	0.75	1.0	25*25	3000	2550	2100	1700	1350	950	400	0				
SPEED 2	0.75	1.0	25*25	3100	3000	2850	2700	2400	2000	1650	1350	900	450	0	
POWER 1	1.1	1.5	25*25	3200	3050	2900	2800	2500	2100	1800	1500	1100	700	400	0

### NON SELF PRIMING PUMPS

MODEL	POWER RATING		PIPE SIZE (mm)	TOTAL HEAD (M)											
	KW	HP		6	9	12	15	18	21	24	27	30	33		
DISCHARGE IN LPH															
MINI PRO	0.37	0.5	25*25	1800	1650	1400	1250	1050	900	600	250				
PRO	0.37	0.5	25*25	2100	1950	1700	1500	1250	1050	850	550	200	0		

### FEATURES

- Brass Forged Impeller
- High Quality Mechanical Seal
- High Quality Enameled Copper Wire
- Suitable for Wide Voltage Operation
- Double Shielded Ball Bearings
- Fitted with T.O.P & TEFC Capacitor

### APPLICATIONS

- Booster Applications
- Hotels/Restaurants
- Solar Heater Systems
- Lawn Sprinklers, Small Farms
- Car Washing
- Gardening and Small Plants

# MONOBLOCK PUMPS

