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IS : 13592 : 2013



CM/L-9700009313

for Pipes

IS : 14735 : 1999



CM/L-9700032114

for Fittings

**SWR**  
PIPES & FITTINGS



## Introduction

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On behalf of **HB GROUP**, it gives us immense pleasure to take this opportunity to welcome all our respected partners to experience our exceptional, reliable and value driven range of **HB** Products & Services.

**HB** is capable of producing an extensive product portfolio at an annual capacity of 3000 metric tons, consisting of a variety of **Pipes & Fittings** made of **PVC | CPVC | UPVC** and conforms to ASTM, BIS amongst other standards, ranging from 15mm(½") to 250mm(10"). **HB** is accredited by international certifications such as the **ISO 9001 : 2015**.

Our top priority is to maintain Quality & Safety assurance to the maximum of both national and international standards. Our contemporary quality control laboratory monitors raw materials & products during all stages of production, the product life cycle and facilitates innovation through research and development facilities. Our well dedicated sales support staff & marketing team provides thorough plumbing solutions to our valued customers.

## Mission

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Our mission aims for persistent refined growth by positioning ourselves to offer customers the greatest breadth of products, the widest geographical reach, the most cost effective production operations, the highest capacity & the most comprehensive field sales support team in the industry.

## Vision

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To be the premier plastic pipe manufacturing company in the region, delivering superior-quality products which is made accurately to specific needs and standards. We are committed to :

- Make the most of our knowledge and expertise to improve our products, processes & services.
- Permanently monitor, meet & improve our performance against set target.
- Exercise every endeavor to prevent failure, eliminate defects, maintain & increase customer satisfaction.
- Proactively disclose & share knowledge with customers, suppliers, employees & staff.
- Deliver products of outstanding quality to achieve & maintain satisfaction, respect, trust & loyalty of customers.

## Quality Policy

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We are accredited with **ISO 9001 : 2015** certification. In all phases of **HB** operations accuracy is the key qualification for satisfying our customers whom we regard as partners. **HB** employees, management & staff are committed to the implementation, monitoring & maintenance of the quality policy at each stage of production & supply.



## HB SWR Pipes & Fittings

for Conventional Drainage System for Soil, Waste & Rain Water Discharge

**HB SWR Pipes & Fittings** are light weight, easy to install and are made for life time trouble Free service. **Pipes & Fittings** are available in full range. End of the pipe is self socketed with an integral groove to hold the co- molded rubber washer. When jointed with co-molded rubber washer ensures trouble free water tight joints with allowance to thermal expansion/contraction. The entire range is manufactured as per National as well as Internationally accepted Quality Standard & Specifications.

**HB SWR Pipes & Fittings** are fitted with advanced **co-moulded Yellow-Black Rings** which enables the joint to withstand high pressure and also compensates for the thermal expansion and contraction of the plastic.

### Pipe Dimensions Chart as per IS : 13592 : 2013

Nominal Outside Diameter	Tolerance on Outer Diameter	Wall Thickness			
		Type-A		Type-B	
mm	mm	min.	max.	min.	max.
40	+0.3	1.8	2.2	3.2	3.8
50	+0.3	1.8	2.2	3.2	3.8
63	+0.3	1.8	2.2	3.2	3.8
75	+0.3	1.8	2.2	3.2	3.8
90	+0.3	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

### Key Properties & Benefits

**Stronger, Resilient & Light Weight :** **HB SWR Pipes & Fittings** are highly resilient and tough with good mechanical strength and high impact resistance. **HB SWR Pipes & Fittings** having very light weight which gives highest benefits to the end user in terms of transportation, installation and long service life.

**Fire Resistance :** Due to presence of chlorine which is self extinguish in nature. Thus in air **HB SWR Pipes & Fittings** do not support combustion.

**No Scale, Pit or Leach Formation :** Even after years of use in the most aggressive conditions, **HB SWR Pipes & Fittings** won't corrode, standing up to low pH water, it maintains full water carrying capacity because its scale resistance means no build up to cause water pressure loss.

**Non Conductive :** **HB SWR Pipes & Fittings** are non conductor of electricity and is therefore not subject to galvanic or electrolytic action.

**Chemical Resistance :** **HB SWR Pipes & Fittings** are inert to most of the acids, alkalis, effluents, salts, minerals and aggressive soils.

**UV Stabilized :** **HB SWR Pipes & Fittings** are UV stabilized which gives protection to the system while being operational in direct sun light and for outdoor applications.

### Testing & Quality Control

**HB SWR Pipes & Fittings** are subjected to severe Testing and Quality Control checks both during and after production.

#### Tests carried out for Pipes are as per IS 13592 : 2013

- Reversion Test
- Vicat Softening Temperature Test
- Stress Relief Test
- Resistance to H<sub>2</sub>SO<sub>4</sub>
- Axial Shrinkage
- Water Tightness of Joints
- Tensile Strength
- Drop Impact Test
- Effect of Sunlight
- Resistance to Dichloromethane

#### Tests carried out for Fittings are as per IS 14735 : 1999

- Sulphate Ash Content
- Drop Impact Test
- Stress Relief Test
- Vicat Softening Temperature Test
- Resistance to H<sub>2</sub>SO<sub>4</sub>
- Water Tightness of Joints

The acceptance criteria of **HB** Quality Control is strictly in accordance to latest National and International standards.

**ISI Marked :** **HB SWR Pipes** are duly **ISI (IS 13592 : 2013)** & **Fittings ISI (IS 14735 : 1999)** Marked. Our products are tested and certified by Bureau of Indian Standards.

**Tested & Approved Product :** Apart from regular batch-wise testing of our finished products at our in-house Testing & Research Centre, we got our product tested from **CIPET** (Central Institute of Plastic Engineering & Technology) Lucknow, Bhopal & Amritsar. This helps us in maintaining consistent and regular improvement in the quality of our products.

### Fields of Applications

**HB SWR Pipes & Fittings** are used in Homes, Apartments, Hotels, Resorts, Hospitals, High & Low Rise Buildings, Corporate & Commercial Houses, Academic Institutes etc.