



Hydraguard International a division of POLYHOSE, a globally diversified industrial conglomerate with headquarters in Chennai, Polyhose has been focused on design, development, manufacturing and distribution of fluid conveyance products since 1996.

Polyhose has established global footprints with presence in North & South America, Europe, Middle East, Southeast Asia, South Africa and Australia in these 25 years and today engages more than 3000 employees in its worldwide operations with an aspiration to become the most preferred brand in the international market providing one stop solution for fluid transmission.

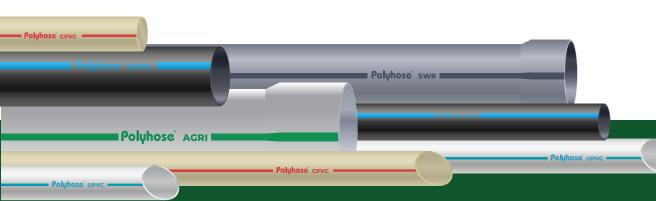
Polyhose, now recognized as a world class manufacturer of Thermoplastic, PTFE, Rubber Hydraulic, Industrial, Composite, Stainless Steel Flexible hoses and Fluid Connectors, has 7 manufacturing facilities in Chennai, 10 satellite plants across India and 8 plants situated across Europe, Africa, America and Australia. These state-of-the-art manufacturing facilities are accredited with ISO 9001-2015, ISO 14001-2015, ISO 13485-2016, TS16949-2016, AS9100-Rev D, NADCAP, thereby building a competitive advantage through robust processes and implementing operational excellence in each area of manufacturing to deliver world class Polyhose branded products.

Polyhose is always in search of new developments in high-quality, value-rich hoses for Hydraulic, Industrial, Automotive, Aerospace, Life Science and other niche applications. With a vision and commitment to expand product portfolio in fluid conveyance products it is now venturing into the Plumbing & Drainage industry incorporating the latest technology to deliver superior and innovative piping solutions.









POLYHOSE C-PVC





Polyhose C-PVC is a perfect solution for hot and cold water plumbing systems that is manufactured using world's best material sourced from internationally acclaimed Japanese company and manufactured using world-class technology.

This system is the best substitute for GI pipes as Polyhose C-PVC have excellent resistance to corrosion and external environmental conditions which makes them an ideal solution for potable cold & hot water systems. Entire C-PVC product range is manufactured to withstand the harshest of water conditions and does not deteriorate/contaminate the quality of water making it an ideal system for potable water. It's anti-corrosive, tough and rigid properties along with easy installation and high performance make Polyhose C-PVC a preferred choice for hot and cold water application in Apartments, Independent houses, Skyscrapers, Corporate & Commercial buildings, Hotels, Resorts and Hospitals all over the world.

STANDARDS & SPECIFICATIONS

IS:15778 - Standard Specification for CPVC pipes for Potable Hot and Cold Water Supplies - Specification

KEY FEATURES

LONG LIFE

Polyhose CPVC is ideal for Hot and cold water circulation. Manufactured using very high quality raw materials sourced from internationally acclaimed Japanese company gives it a long life.

CORROSION AND CHEMICAL RESISTANCE

Polyhose CPVC is completely free from corrosion and offers strong resistance to corrosive acids and bases.

ECONOMICAL

The System is highly cost effective than any other plumbing system in the long run.

IDEAL SYSTEM FOR POTABLE WATER

Polyhose CPVC does not let the quality of the water deteriorate due to its anti-corrosive properties and smooth internal surface ensures lower bacterial formation.

TOUGH & RIGID

CPVC has a much higher strength modulus than other thermoplastics used in plumbing applications. Being tough and rigid, Polyhose CPVC can withstand higher temperatures & pressures.

SUPERIOR INSULATION PROPERTIES

Due to very low thermal conductivity, Polyhose CPVC reduces heat loss and insulation costs.

MAINTENANCE FREE

No Scaling, Pitting, Corrosion and Leaching. Hence Polyhose CPVC is Maintenance free.

FIRE RESISTANCE

Polyhose CPVC does not support combustion.

AVAILABLE SIZE

SDR 11 & SDR 13.5 : 15 mm(1.5 cm) (1/2") to 50 mm (5.0 cm) (2") Pipes - conforming to IS:15778, Fitting as per ASTM D2846

POLYHOSE U-PVC

Polyhose U-PVC plumbing systems have a wide variety of applications that involve transportation and distribution of potable water that is both hygienic and economical.

Polyhose UPVC systems offer additional advantages over conventional GI systems such as long life, easy maintenance & installation, lightweight and is best suited for plumbing applications such as concealed pipe work, terrace looping, down-take and up-take lines etc. Low cost and longer life span makes this the best suited UPVC system in the market and a preferred choice among industrial process lines, water distribution mains, plumbing applications, swimming pools, dye houses, paper, distillery, sugar and tanning industry.

AVAILABLE SIZE

SCH 40 : 15 mm(1.5 cm) (1/2") to 110 mm (11.0 cm)

As per ASTM D1785

SCH 80 : 15 mm(1.5 cm) (1/2") to 110 mm (11.0 cm)

As per ASTM D1785, D2467







AT 23°C AS PER ASTM D-1785

KEY FEATURES

STRONG & RESILIENT WITH LONG LIFE

Polyhose UPVC system is highly durable, resilient and tough with high tensile & impact strength.

MECHANICAL PROPERTIES

Polyhose UPVC pipes are relatively more flexible than conventional piping systems. They have adequate tensile strength and burst strength to withstand the operating pressures encountered in most service conditions within the acceptable temperature range for the system.

OPTIMUM FLOW RATES

A mirror-smooth surface with C-value of 150 ensures a high flow rate with least frictional loss.

EASY TO INSTALL

Polyhose UPVC lead-free pipes can be cut, shaped and joined easily.

DURABLE

Polyhose UPVC lead-free system has a service life spanning more than 50 years since it is free from weaknesses caused from rusting, weathering and chemical reactions.

SAFE FOR DRINKING WATER

Polyhose UPVC is a lead-free system hence safe for drinking water as it is non toxic.

LIGHT WEIGHT

Polyhose UPVC system is very lightweight hence easy to handle when compared to metal pipes.

UV STABILIZED

Polyhose UPVC systems can be used outdoors in sunlight and exposed conditions as it is UV Stabilized.



POLYHOSE SWR



Polyhose SWR is an ideal drainage system for soil, waste and rainwater, enabling fast and efficient removal of waste without leaks or blockage. The system is highly resilient, tough and durable with adequate tensile and impact strength with an expected service life of more than 50 years. Polyhose SWR systems' high impact strength, chemical and corrosion resistance, long life and virtually zero maintenance have made it a preferred drainage and rainwater system among architects, builders and plumbing contractors of residences, commercial complexes, resorts, hospitals, academic institutes and industries.

SPECIFICATIONS

Pipes are available from 75mm to 160mm conforming to
IS13592 & Fittings conforming to IS 14735. Polyhose SWR
system is available as Rubber Ring type and Pasted type.

AVAILABLE SIZE

RINGFIT:

Type A - 75 mm (7.5 cm), 90 mm (9.0 cm), 110 mm (11.0 cm) & 160 mm (16.0 cm)

Type B - 75 mm (7.5 cm), 90 mm (9.0 cm), 110 mm (11.0 cm) & 160 mm (16.0 cm)

SELFIT:

Type A - 75 mm (7.5 cm), 90 mm (9.0 cm), 110 mm (11.0 cm) & 160 mm (16.0 cm)

Type B - 75 mm (7.5 cm), 90 mm (9.0 cm), 110 mm (11.0 cm) & 160 mm (16.0 cm), 200 mm (20.0 cm), 250 mm (25.0 cm) & 315 mm (31.5 cm)

KEY FEATURES

STRONG AND LONG LIFE

The system is both tough and durable with high tensile strength. Free from scaling, weathering and chemical action.

CORROSION RESISTANCE

Since Polyhose SWR system is non metallic the system is free from corrosion and offers very good resistance to a wide range of chemicals.

UV RESISTANT

Can be safely used in outdoor conditions.

MINIMUM MAINTENANCE

Polyhose SWR system requires very minimal to no maintenance once installed.

COST EFFECTIVE

Polyhose SWR drainage system is more cost effective than any other drainage system.

POLYHOSE AGRI

Polyhose Agri Pipes are manufactured as per IS:4985-2000 standards and are available from 20mm to 160mm in different pressure classes. Moulded fittings are in accordance with IS: 7834. These pipes and fittings available in different sizes and pressure classes are ideal for use in a variety of applications like irrigation, water supply, fire fighting main, industrial process lines, swimming pools etc.

Polyhose Agri pipes are superior to various metal & RCC pipes due to its lightweight, easy installation and high chemical & corrosion resistance properties. These properties make the Polyhose Agri piping system the preferred choice among farmers, water supply bodies and other government institutions.

AVAILABLE SIZE: 20MM TO 160MM

KEY FEATURES

CONTAMINATION FREE

Due to Polyhose Agri pipes anti-contamination properties they are an excellent choice for carrying potable water as they are odorless and hygienic.

BUDGET FRIENDLY

Polyhose Agri pipes are very light in weight and last much longer than old piping systems hence offer great economy in handling, transportation, installation and replacement.

HIGH RESISTANCE TO CORROSION & CHEMICAL

Being immune to chemicals (acids, oils, alkalis, domestic effluents), electrolytic and galvanic action, these pipes are free from corrosion which ensures a much longer and useful life.

ZERO MAINTENANCE

Anti-Corrosive nature of the Polyhose Agri pipes eliminates the need for repeated painting or coating like in the case of GI pipes.

LONG SERVICE LIFE

As Polyhose Agri pipes are free from weaknesses caused by scale formation, rusting, weathering and chemical action, they have a better and longer life.

SMOOTH FLOW

Polyhose Agri Pipes have a mirror smooth inner surface offering much better flow characteristics in comparison to other pipes.







POLYHOSE HDPE

Polyhose HDPE Pipes are made from thermo-alkathene plastic polymers that enable resilient, durable, and cost-effective solutions for the conveyance of potable water, irrigation, and bore-well applications. HDPE pipes are manufactured from virgin superior grade HDPE (High-Density Polyethylene) as per BIS specifications – IS 4984 & available in raw material grades PE-63, PE 80, and PE 100 in various pressure rating classes in a state of the art manufacturing facility at Gummidipoondi.

PE PIPES

PE Pipes are one of the two largest thermoplastic pipelines available and by far the most versatile. Polyethylene is a wax like thermoplastic with a density varying from a range of 934 Kg/m' to 960 Kg/m' Which is less then that of water. The only two additives that are added to polyethylene are Carbon black with a limit of 23°F to add some reinforcing effect to increase its weathering properties and some Anti-Oxidant to a limit of 0.3%. We mostly use black pre-compounded PE material. HDPE having comparatively high molecular weightv and high in abrasive resistance and has low creep rupture properties.

RAW MATERIAL

Hydraguard PE Pipes are manufactured from virgin material. The wide varieties of materials such as PE-63,PE-80 and PE- 1 00 have varied MRS (Minimum Required Strength) values. Both excellent weathering ability and resistance to UV light can be obtained by utilizing the correct material configuration available in the market.



WIDEST RANGE: 16MM - 630MM

KEY FEATURES

LIGHT WEIGHT

The inherent light weight of HDPE pipes provides the many cost saving benefits related to handling, storage, hauling, unloading, joining and installation.

TOUGH & STRONG

HDPE pipes are strong as well as resilient to with stand both internal pressure as well as external loads (Soil / traffic). Excellent even water hammer condition to absorb surge pressure as well as thermal stresses.

FLEXIBILITY

Extremely flexible and coilable pipes available in continuous length of 50 Mtrs upto 1000 Mtrs in coil length for sizes 16mm to 110mm OD. Pipes can be laid on undulating lands with maximum radius curvature / bending up to 25 times of diameter (OD).

QUICK AND EASY JOINTING

The Butt welding jointing techniques provides absolutely leak proof joints. Being available coils upto certain diameter, the quick and easy installation is possible.

SMOOTH INTERNAL SURFACE

By virtue of being extremely smooth, offers considerably low frictional resistance to the flowing medium. 'C' factor for HDPE pipes is minimum "150" and remains constant all throughout its anticipated life.

RESISTANCE TO CHEMICALS

Totally inert to chemicals from PH 0-14, for almost all fluids (acid / alkali) thereby making it compatible to use even in the most hostile environmental conditions.

WEAR AND ABRASION RESISTANCE

HDPE pipes have excellent resistance to wear / abrasion. HDPE pipes have replaced conventional pipes in slurry - transport systems with excellent performance in flowing even with highly abrasive slurries like iron ore, sand, fly ash etc.

WIDE RANGE OF CHOICE

HDPE and MDPE pipes are available in sizes from 16mm to 630mm OD and are available in 2.5Kg/cm² to 20Kg/Cm² pressure classes providing a wide option to the designer for optimization of cost.

Other Silent features of HDPE piping system over other systems includes no cathodic protection, very less maintenance, easy repair & cleaning if required, availability of wide range of fittings and provision for joining with other piping systems etc.









E-mail: info@hydraguardinternational.com

Phone: + 91 89259 96333

Hydraguard International Pvt. Limited

Polyhose Towers 3rd Floor, West Wing, #86, Mount Road, Guindy, Chennai – 600 032.

Authorised Dealer / Distributor