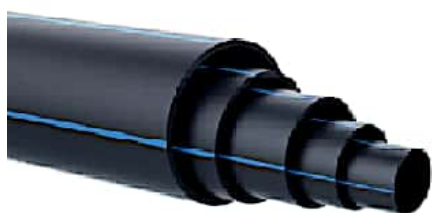


VODA HDPE PIPING SYSTEM



P
E

PIPE SYSTEM FOR WATER SUPPLY & SEVERAL APPLICATION



INTRODUCTION

HDPE pipe systems are designed for many pressure and non pressure applications such as water supply and distribution, compressed air, chemicals, hazardous wastes, utility, slurries, marine, mining, and agriculture.

HDPE pipe systems offered by VODA are manufactured from polyethylene (PE) compound.

That is why VODA provides professionals an option to choose the best system for the most demanding projects.

HDPE pipes have excellent abrasion resistance, superb impact resistance, and extraordinary toughness.

These pipes are resistant to a broad range of corrosive chemicals; they do not support biological growth, and resist the adherence of scale and deposits.

MATERIAL

VODA pipes are made from PE 100 black compound sourced from the finest manufactures.

PRODUCT RANGE

HDPE VODA pipe Dimensions:

HDPE VODA pipes are manufactured in nominal outside diameter of 20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200, 250, 280, 315, 355, 400, 450, 500, 560 and 630mm.

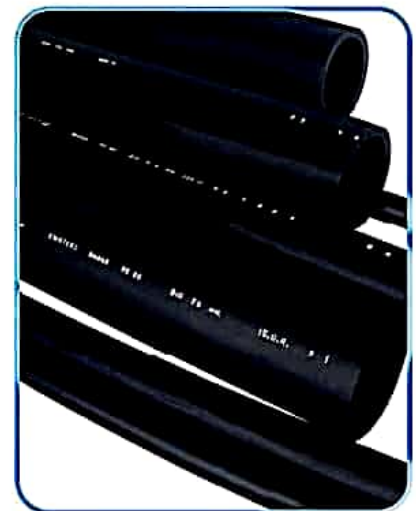
Standard Lengths:

Coils up to 50m and 100m lengths are available for sizes up to 90mm.

Pipes are available in straight lengths of 6m and 12m up to 630mm.

Identification Stripes and Colour:

HDPE pipes are commonly manufactured in black colour with blue/yellow coloured stripes or black colour only without stripes as per standard application. Standard VODA marking identify application (water, gas, cable duct, etc.)



TECHNICAL SPECIFICATIONS

Pressure Rating of HDPE Pipes

Max. working pressure of HDPE VODA pipes range from 6, 8, 10, 12.5 and PN 16 bar. The nominal pressure (PN) corresponds to the maximum allowable working pressure in bar for pipe at 20°C, including pressure surge.

Adequate Surge allowance must be taken into account by pipe line designer.

Max. Working Pressure of PP and PE Fittings:

10 bar (Compression Type)

8-16 bars (Butt Fusion Type)

Cold Bending Radii (CBR):

CBR in meters at 20°C = 22 x Outside Diameter of pipe.

VODA HDPE PIPING SYSTEM

STANDARDS

HDPE VODA pipes for potable water application are manufactured according to latest international standard ISO 4427-2(E):2007 PE pipes for water supply specification DIN 8074/8075 and PS – 3580:1997.

Fittings are compatible with ISO (or metric) dimension pipe and conform to the following specifications:

PP Compression fittings: ISO 3458, 3459, 3501, 3503, & BS:5114

PE Butt Fusion fittings: DIN 16963

FEATURES & BENEFITS

Flexibility and Toughness

VODA is flexible, allowing it to follow rolling terrain contours and reducing the need for fittings. It retains working flexibility even in harsh climates. Water within the pipe may freeze without damaging the pipe. Unstable soils and seasonal freeze/thaw conditions have little effect on this flexible, plastic pipe system. It also exhibits high stress/strain sustainability arising due to mechanical & thermal changes.



Sealed Joints

VODA pipes can be joined into long, continuous lengths by compression, butt fusion or electro fusion fittings. These jointing techniques provide leak-free joints that are as strong and chemically resistant as the pipe itself.



Non-contaminating (food grade material)

The purity of the fluids being conveyed is safeguarded by the absence of easily extractable substances. The raw material used for manufacturing VODA piping system for potable water has been evaluated and certified by authorities. Potable water products meet the requirements of standards such as ISO/DIN/EN.

Light Weight & Easy to Install

VODA is much lighter than ductile iron, steel and reinforced concrete. Thus it does not require heavy handling and laying equipment otherwise commonly used for conventional pipe systems this makes installation of pipes easier and quicker.



UV Resistant

VODA contains carbon black as UV stabilizer which is one of the most efficient and widely used UV absorbers. Carbon black converts harmful ultraviolet radiation into harmless infrared radiation or thermal energy, which dissipates through the polymer matrix neutralizing the harmful effect of UV. Thus, VODA is UV resistant and safe to use in exposed conditions.

FIELDS OF APPLICATION

- Acid / Caustic Lines
- Chilled Water Piping
- Crude oil
- Dredging
- Fertilizer
- Hazardous Waste
- Sea Water Effluents
- Slurries
- Utility Piping
- Compressed Air (buried)
- Brine
- Coal Slurry
- De-Watering Pipes
- Drilling Mud
- Fire Water Mains
- Out Fall Pipelines
- Sewage Treatment
- Storage tank piping
- Water Supply and Distribution
- Cable Conduits
- Cooling Water
- Drain Lines / Industrial Effluents
- Drip Irrigation / Sprinkle irrigation
- Fly ash
- Process Piping
- Sludge Piping
- Underground services
- Gas (manufactured as per ISO 4437)

IDEAL FOR INDUSTRIAL USE

VODA pipes offer better over-all resistance to corrosive acid, alkalis and salts. These pipes do not rust, rot or corrode.

VODA PIPES

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