



## Plastic Manhole and Inspection Chambers

Introducing the JOJO Manholes, the most advanced solution in underground inspection chambers today. Never revamp, rehabilitate, or restore manhole systems again. From improving urban environments to providing reliable alternatives, Jojo is transforming the world under your feet.

The Jojo plastic manholes are a great improvement over the old standard. They save on installation costs, they don't need any rehabilitation this century and they are the best sustainable product around than those of concrete manholes.\*

This has been due to multiple advantages that the plastic manholes provide: smaller excavation footprints, fast and straightforward assembly, easy connections, and no waiting for curing before stacking....and cost saving (22% labor and equipment) is achieved.\*

**STRENGTH • QUALITY • DURABILITY**

## FREQUENTLY ASKED QUESTIONS

### What benefit can be derived from the use of plastics manholes?

Small and medium size plastics manholes have low weight and can easily and quickly be transported, handled and installed without any special equipment.

### What is the chemical resistance of plastic manholes in sewer pipelines?

Plastic manholes can withstand all chemicals which normally occur in sewers, and therefore are regarded as very durable.

- They are more durable than concrete manholes as there can be no chemical attack of biogenic sulphuric acid in the form of corrosion.

### How does water temperature and ambient climate affect the durability of Plastic Manholes?

Plastic Manholes are resistant to a wide range of temperatures from -20°C to 45°C. No water is absorbed which can freeze in winter destroying the structure. It is well known that water freezing between concrete elements can destroy them, whereas plastic parts are not affected by the same conditions.

### How can plastics manholes withstand traffic loads?

Traffic loads onto the top cover are not supported by the plastic manhole but by the compacted soil around the manhole.

### Are plastic manholes water tight?

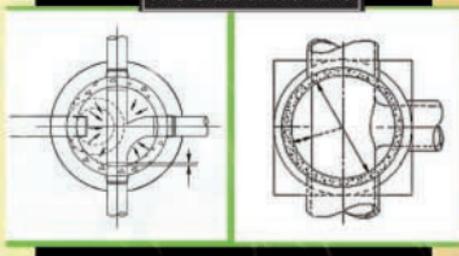
Similar to plastic sewerage piping systems, plastic manholes show no leakage which results in no contamination of the soil by ex-filtration and no infiltration of the ground water into the manhole.

### What are the differences during installation of plastic manholes compared to manholes of other materials?

Plastic manholes can be installed much easier due to their light weight, needing a smaller trench and providing huge flexibility of connections.

- The installation of plastic manholes is more cost saving because of the light weight and easy handling.
- The outside dimensions of a plastic manhole are smaller.
- The width in the trench beside the plastic manhole can therefore be smaller even allowing for sufficient space (150 mm) around the manhole to allow compaction equipment to compact the pipe zone with backfill material in the trench.
- A large choice of prefabricated parts and connections diameters / angles gives full flexibility ensuring a fast installation

#### PLASTIC MANHOLE PROPERTIES



Below is a clear comparison between the ordinary concrete manholes and Jojo's Polyethylene Manholes.

PROBLEM	POLYETHYLENE MANHOLES	CONCRETE MANHOLES
Chemical Resistance	Excellent. Highly resistant to chemicals, No degradation.	Quite poor
Water Tightness	Excellent. No leaking, No infiltrations, screw able lid.	Quite poor
Weight	Excellent. Lightweight manholes.	Very poor
Durability	Excellent Heavyduty.	Quite Poor
Installation	Fast.	Very slow

NB: It is recommended that heavy equipment should not be operated over any manhole. The area should also be adequately protected to prevent potential accidents or unauthorized interference.