

## High-Strength SMC Manhole Operation Wells | Underground Fuel Tank Safety & Maintenance



**HBSMC-1465-1** SMC Manhole Operation Well with load-bearing Manhole Cover with 1 piece of connecting ring



**HBSMC-1465-2** SMC Manhole Operation Well with non-load-bearing Manhole Cover with 4 pieces of connecting rings

### Product Definition:

HBMOW Series SMC Manhole Operation Wells are a series of products designed for providing underground space for installing equipment to facilitate the delivery and management of oil at gas stations. This equipment includes liquid level gauges, oil transfer pumps, and manhole covers. It belongs to the category of concealed underground engineering products.

**Application Occasion:** The application takes place in a first-level explosion-proof zone, and hot work during operation is strictly prohibited.

**Preconditions:** As a concealed engineering product in a first-level explosion-proof zone, its design service life should exceed 30 years. The safety and explosion-proof performance need to be certified or tested by a third-party independent institution.

**Applicable Projects:** New construction and expansion projects of gas stations, for use in load-bearing tank areas and non-load-bearing tank areas.

**Depth of Burial:** The distance from the bottom sealing flange face to the gas station ground in load-bearing and non-load-bearing tank areas is  $\geq 1000\text{mm}$ .

### Specifications:

Item No.	Flange Hole to Hole Distance	Material	Manhole Cover Type and Qty of Ring
HBSMC-1465-0	1350 mm	SMC	Without Manhole Cover Without Ring
HBSMC-1465-1	1350 mm	SMC	With load-bearing Manhole Cover Without Ring
HBSMC-1465-2	1350 mm	SMC	With non-load-bearing Manhole Cover Without Ring

**Product Structural Type:** The product is with an outward-flanged connection surface at the bottom. The assembly and connection of various components are done using a building block joint method. The product has a wall thickness of 10mm, a **maximum outer diameter of  $\Phi 1500\text{mm}$** , an **operable internal space diameter of  $\Phi 1350\text{mm}$** , and an **operable space height of 880mm**. **The overall height of the product can be adjusted according to the burial depth.**

**Product Structure Composition:** The product consists of SMC manhole operation well - cavity, shoulder, neck ring, sub-cover, pipe wall sealing components, leak-proof sealing components, and stainless steel connectors.

**Product Material Composition:** The SMC manhole operation well cavity, shoulder, neck ring, and sub-cover are all made of thermosetting SMC composite materials. The pipe wall sealing components and leak-proof sealing components are made of EPDM rubber, and all components are connected using 304 stainless steel bolts and nuts.

**Product Bearing Capacity:**  $>20T$  (load-bearing type);  $>1.5T$  (non-load-bearing type)

**Operating Temperature Range:**  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ .

**Execution Standard:** Corporate Standard Q/ZRS07-2013.

**Execution Explosion-proof Standard:** GB 25286.1-2010, Explosion-proof Type: Ex IIAT3