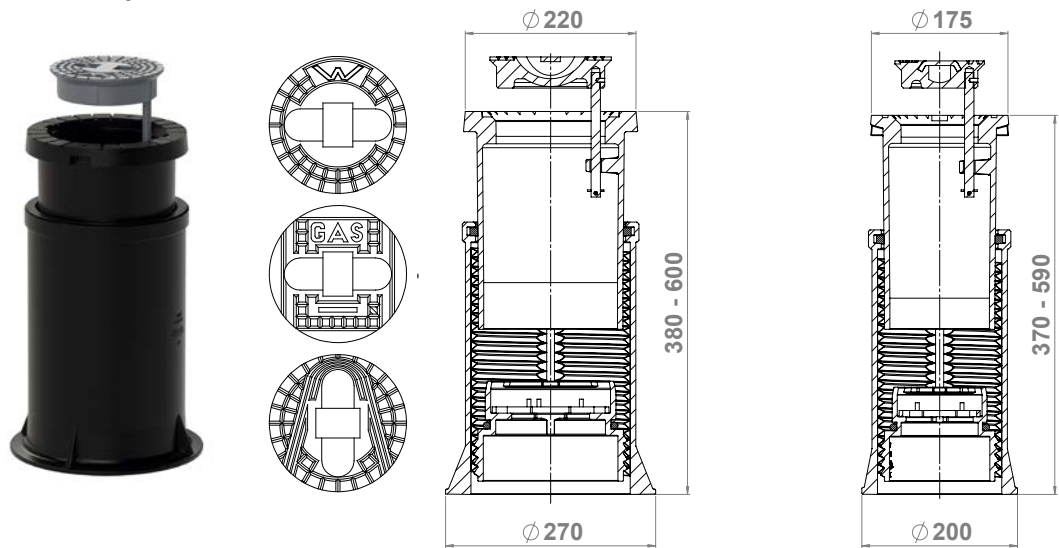


Operating and maintenance instructions for  
**Heavy-Duty Surface Box for Valves and Gate Valves**  
**for Busy Roads Exposed to Heavy Loads**  
Ord. No. 187-02, 207-02



**1. Intended use / Product description**



**Medium:**

Potable water / gas / sewage water

**Material:**

Box / drawing ring: GJS-400, black bituminized  
Threaded ring / cover: GJS-400, Hawle epoxy powder coated  
Positioning pin: stainless steel  
Wiper / O-ring: elastomer  
Insertable plate / clips: PE

**Description:**

The Hawle heavy-duty surface box for valves and gate valves is to be used for installation in bituminous traffic areas exposed to high loads. The drawing ring of the heavy-duty surface box permits a large adjusting range.

During rolling in a bond is created between the drawing ring and the asphalt.

Due to the integrated threaded ring, which can be adjusted individually on site, a form-locked connection is established between the drawing ring and the threaded ring, which ensures that load is discharged from the drawing ring to the threaded ring.

Subsequently, the traffic load is distributed to the base box via the threaded connection of the threaded ring and the base box. Therefore, the load is evenly transferred to the base plate and then discharged into the subgrade of the road. Thus, this surface box design combines the advantages of boxes for rolling in with those of rigid surface boxes. Moreover, the slanted seat at the cover and the box reduces the rattling noise tendency of the cover compared to conventional surface boxes.

The cover is epoxy powder-coated to avoid contact corrosion between the cover and the box, on the one hand, and to ensure that the cover can be loosened easily.

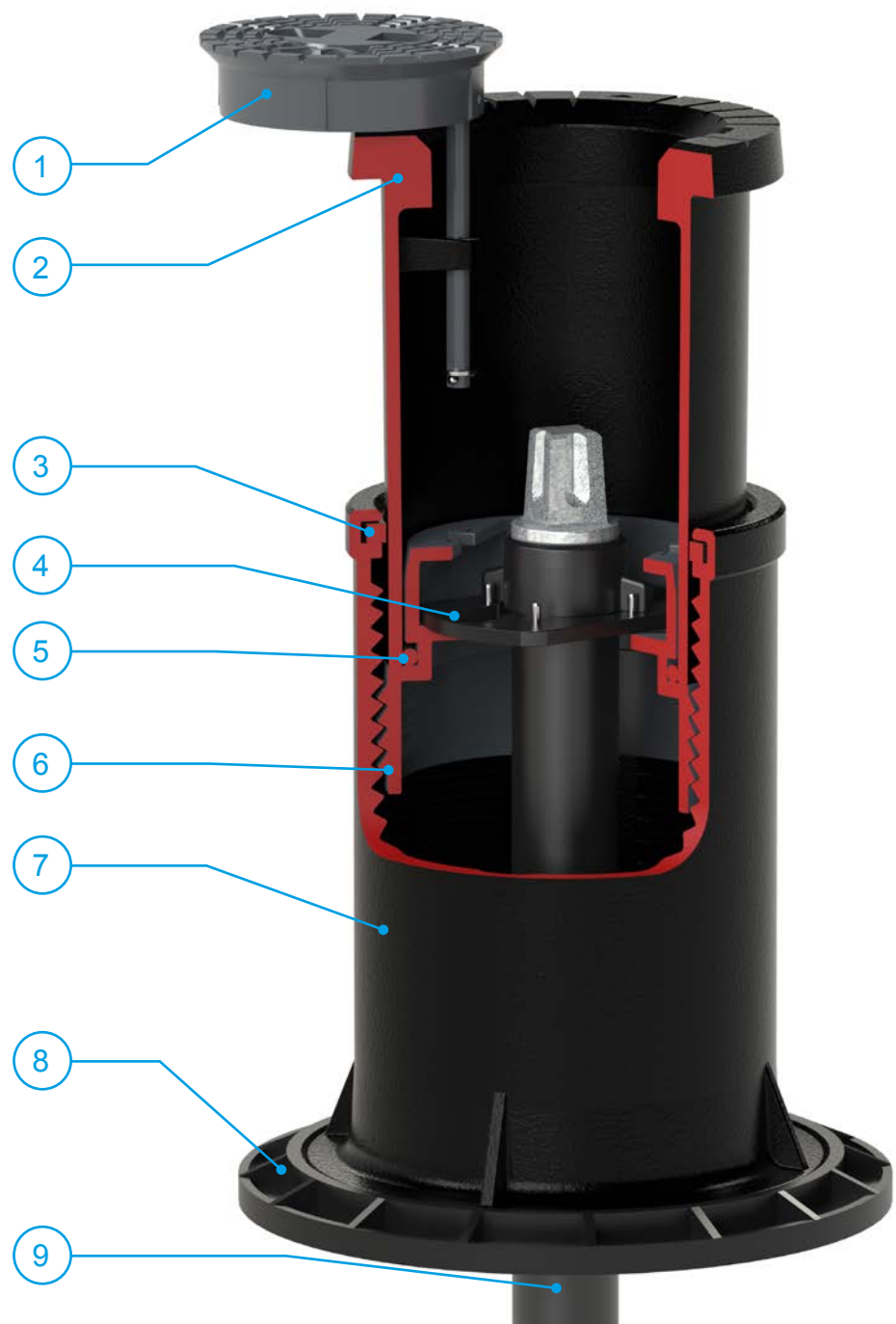
The cover is connected to the box via a positioning pin with a cotter and a shim. The drawing ring is provided with a directional arrow.

Size: following DIN 4057 (valve surface box) and DIN 4056 (gate valve surface box)

During installation, assembly, and maintenance, the applicable standards and regulations, accident prevention regulations, as well as the trade associations' provisions shall be observed and complied with. Installation, assembly, and maintenance shall be performed by skilled personnel only.

## Design


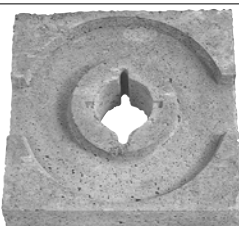


No.	Short description	Material
1	Cover	Cast iron
2	Drawing ring	Cast iron
3	Wiper (dirt gasket)	Elastomer
4	Insertable plates / clips	PE
5	O-ring	Elastomer
6	Threaded ring	Cast iron
7	Base box	Cast iron
8	Base plate (not included in the scope of supply)	
9	Hawle extension spindle (not included in the scope of supply)	



There are the following options for positioning the extension spindle:

<b>Insertable plate for standard threaded ring</b> (included in scope of supply)	<b>Clip for extension spindle</b> Accessories for various third-party products on request. Suitability must be checked individually from case to case.
	

**Accessories:**

	<b>Universal base plate for gate valve and service valve surface box</b> Ord. No. 204-00	<b>Base plate of concrete for gate valve surface box</b> Ord. No. 204-02	<b>Drawing tool</b> Ord. No. 597-00	<b>Tool for heavy-duty surface box 597-02</b> Ord. no. 597 187 9000 V Ord. no. 597 207 9000 S
				
<b>Material</b>	Glass fibre reinforced polyamide	Concrete	Steel	Stainless steel
<b>Description</b>	The universal base plate for service valve surface boxes (acc. to DIN 4057) and gate valve surfaces boxes (acc. to DIN 4056) serves the purpose of centering the surface box, on the one hand, and of securely fixing the Hawle telescopic extension spindles, on the other hand. Due to the round shape, the base plate can also be used in confined space installation situations.	The base plate for gate valve surface boxes (acc. to DIN 4056) serves the purpose of centering the boxes, on the one hand, and of securely fixing the Hawle telescopic extension spindles, on the other hand.  Installation height: 55 mm	The drawing device is used for adjusting the height of the surface box.	The adjusting tool is used for adjusting the height of the threaded ring in the Hawle heavy-duty surface box. The adjustable box for rolling in is turned into a rigid surface box.

**3. Assembly**

**General information:**

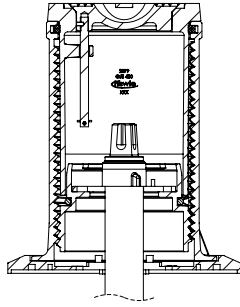
- The surface box and base plate must be placed sufficiently deep.
- The upper edge of the surface box must be placed such that it can be pulled through all layers any time, depending on the installation situation.  
For height adjustment, drawing tool ord. no. 597-00 can be used (see accessories above).
- Observe the total dimensions of the box and base plate:

<b>Service valve surface box</b> Ord. No. 187-02	<b>Gate valve surface box</b> Ord. No. 207-02
370mm + 20mm	380 mm + 20 mm

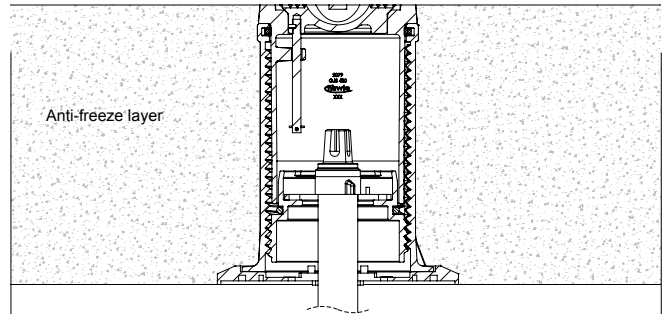
- Make sure to sufficiently compact the planum around the surface box and/or below the base plate.
- Insert the base layer, binder layer, and top layer around the surface box as specified in the installation instructions. Loosen the drawing ring, pull it up, backfill it with asphalt (approx. 1 - 2 cm above upper edge of layer) and roll it in.
- If the layers are installed at different times, clear the surface box from the previous layer to be able to pull up the drawing ring. Then roll in the box in each layer as described.

**Installation instructions:**

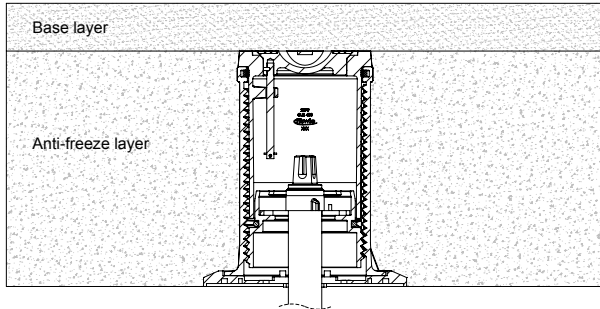
1. Mount the extension spindle in the plate / the clip in the threaded ring



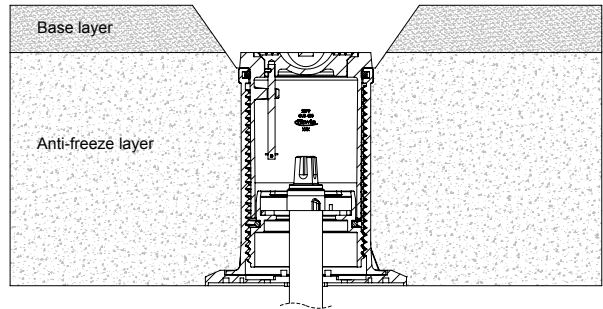
2. Installation of the box in the anti-freeze layer



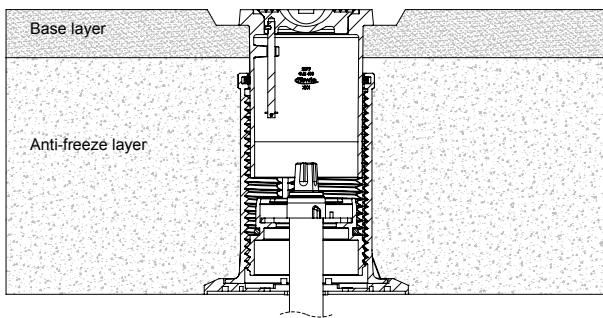
3. Box with base layer



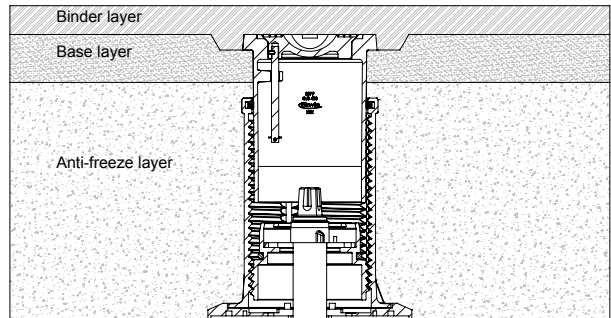
4. Box with base layer cleared



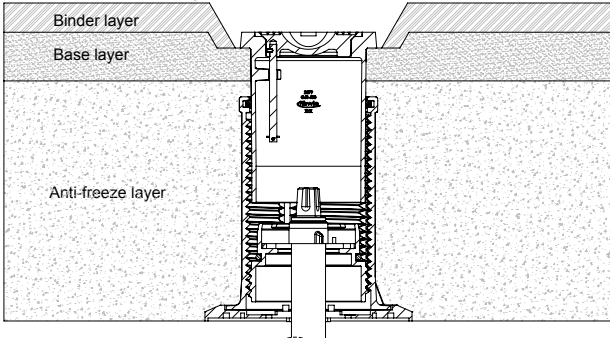
5. Box placed on base layer level and cleared



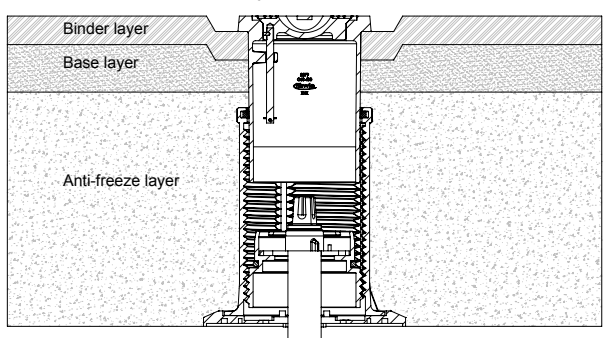
6. Box with binder layer



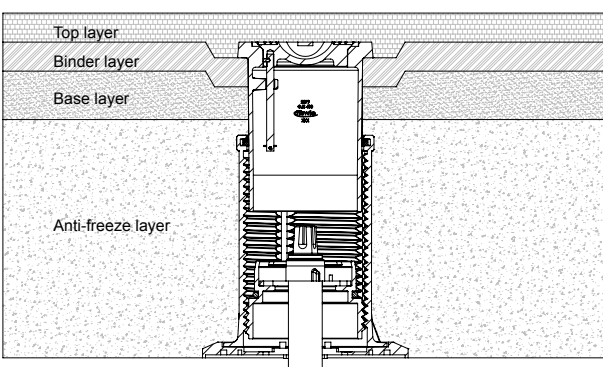
7. Box with binder layer cleared



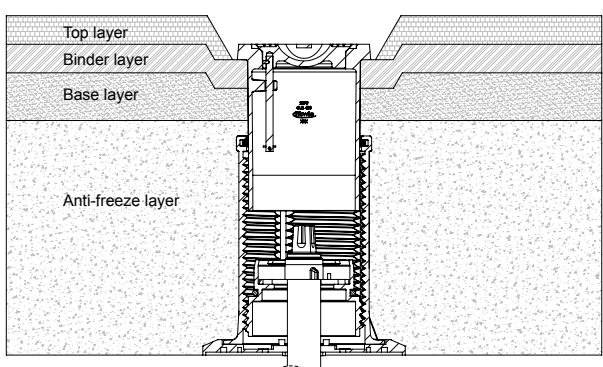
8. Box placed on binder layer level and cleared



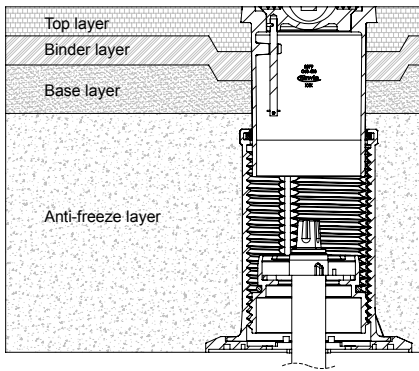
9. Box with top layer



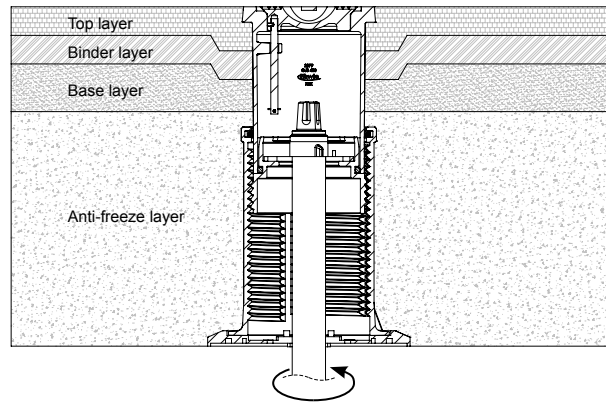
10. Box with top layer cleared



11. Box placed on top layer level



12. Screw threaded ring upward using the tool



**IMPORTANT: This is imperative!**

After a setting time of 2 - 4 months and the completion of asphalt coating, the threaded ring is screwed up as far as it will go by means of tool ord. no. 597-02 (see accessories).

The threaded ring is on top. The adjustable surface box for rolling in is turned into a rigid surface box.



**If you have any other questions or if you need more information please contact:**

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