

1. Intended use / product description



Medium:	Potable water / gas / municipal sewage
Max. operating temperature:	Potable water / municipal sewage: 0° to 40° Gas: -10° to 40°
Max. operating pressure:	Potable water / municipal sewage: 16 bar Gas: 1 bar (PVC pipes only)
Material:	Body: GJS-400 Hawle epoxy powder coating Gaskets: water/sewage: EPDM acc. to UBA-KTW-BWGL, gas: NBR Screws, washers: stainless steel

HAKU pipe saddles with ZAK® socket outlet are to be used for installation on PE pipes PE80/100 acc. to DIN 8074/ DIN EN 12201 and PVC pipes acc. to DIN 8062/DIN EN ISO 1452-2. The two saddle halves are exactly calibrated to the respective outside diameter. When connecting the saddle halves, an inadmissible deformation of the pipe is prevented by metal stops.

The ZAK® socket outlet serves the purpose of establishing a form-locked connection with valves and fittings featuring ZAK® spigot ends.


Version ZAK69: consisting of HAKU pipe saddle and factory-fixed fitting with ZAK 69 connection.

In combination with shut-off adaptor Ord. No. 372-01 and a pipe drilling device (e.g. Hawle drilling device HAWLO-MAT, Ord. No. 830-00) the main line can be drilled without difficulty, even with the line in service.

IMPORTANT: Drilling is only possible for potable water and municipal sewage!

During installation and maintenance operations, the applicable standards and guidelines, accident prevention regulations and the regulations of professional associations are to be observed and complied with.
Installation and maintenance operations may be performed by qualified personnel only.

Accessories:

	
   372-01 Shut-off adaptor with ZAK® outlets	  830-00 Pipe drilling device „Hawloamat“

2. Installation

	Open-ended wrench, torque wrench
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1. The surface of the pipe must be free from dirt, soil, or grease, and the pipe has to be cleaned accordingly.
2. Place the HAKU shut-off saddle at the desired position.
3. Fix the HAKU top and bottom halves by means of the four screws included in the scope of supply, observing following torques:
M10: max. torque 50 Nm
M12: max. torque 70 Nm

Standard installation:

Tighten the hexagon head screws evenly and crosswise until the two parts get in contact and the maximum torque is reached.

IMPORTANT: Do not use any extensions!

Installation on old pipes:

When the pipe saddle is to be installed on existing PE lines (old pipes), the outside diameter may be beyond the standard tolerance. Pretighten the HAKU with two longer screws, if necessary.
After final assembly of the saddle, check the maximum torque twice after 15 minutes, each!

4. Drill the pipe using the HAWLE drilling device.
IMPORTANT: Drilling is only possible for potable water and municipal sewage!
Observe the relevant operating instructions.

IMPORTANT: When drilling over a service valve, the drilling spindle extension Ord.No. 831 200 1050 is necessary.

3. Commissioning and pressure-testing

After the successful installation, the device has to be subjected to pressure testing in the open trench considering the maximum operating pressures as specified in the DVGW regulations.

4. Servicing and maintenance

Hawle HAKU pipe saddles do not require any maintenance.

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

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