

**1. Intended use / product description**



Upper outlet: female thread 2 1/2"

Lower outlet: flange DN 80

Irrigation Hydrant, shortenable  
Ord.No. 984-01



Upper outlet: GEKA-Plus coupling  
 Franke coupling ( suitable for standard garden stand pipes DN25/1" )  
 Lower outlet: ZAK®46 socket - both ends

In connection with reconstruction fittings Ord. No. 616-02, a later integration into service lines of various sizes is possible via the lower outlet.

In connection with a ZAK® plug Ord. No. 249-00, the hydrant can also be used as end fitting.

Freeflow Garden Hydrant, shortenable  
Ord.No. 984-04



Version GEKA-Plus coupling



Version Franke coupling

- Medium:** Potable water
- Max. operating temperature:** 0°-40°
- Max. operating pressure:** 16 bar
- Material:** Cast iron components: GJS-400, Hawle epoxy powder-coated  
 Medium pipe: PE, protection jacket ESP: HDPE  
 Spindle/shut-off blade/shut-off blade driving mechanism: stainless steel  
 Female thread socket: stainless steel, GEKA-Plus/Franke coupling: brass \*  
 Gaskets: EPDM acc. to DVGW W 270  
 Connector clamp / body: PP  
 Connector clamp / grip rings - clamping nut: POM

The freeflow garden hydrant and the irrigation hydrant are used for irrigating parks/gardens. Due to the straight-through bore, high flow rates are achieved.

The medium pipe is divided in two parts and connected via a connector clamp. This has the advantage that the hydrant can be quickly and easily adapted to the desired length on site.

Shutting off is effected via a shut-off blade of stainless steel with fixed stops in opened/closed position (**IMPORTANT:** 1/2 turn).

Actuation is effected via a telescopic extension spindle and valve key Ord. No. 341-00. Due to the drain-off function, the hydrant is protected from damage by frost.

**IMPORTANT:** For daily use, suitable tapping standpipes with isolation valves shall be used. Tapping shall be regulated via the valves at the standpipe instead of via the main isolation valve at the garden hydrant proper.

When tapping drinking water, the seal of the GEKA-Plus coupling must be replaced on site.

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:**

		
 <p><b>212-00</b> Surface box with cover, rectangular</p>	 <p><b>204-05</b> Base plate of concrete for surface box</p>	 <p><b>985-05</b> Drainage element for irrigation hydrant and garden hydrant</p>
		
 <p><b>341-00</b> Operating key acc. to DIN 3223</p>	 <p><b>212-02</b> Transition adaptor for surface box Ord.No. 212-00</p>	

**2. Assembly**

**ATTENTION:** For Freeflow Garden Hydrant, shortenable and Irrigation Hydrant, shortenable, we recommend the model without drainage when used in areas with a high groundwater level (at the level of the drain hole or higher) and to prevent the ingress of dirt. It should be noted, however, that the service pipe must be drained after use. ( danger of frost ).

**ZAK-connection:**

During the assembly of the Irrigation Hydrant or Garden Hydrant in the pipe, the ZAK®-operating and maintenance instructions are given.

**Flange-connection:**

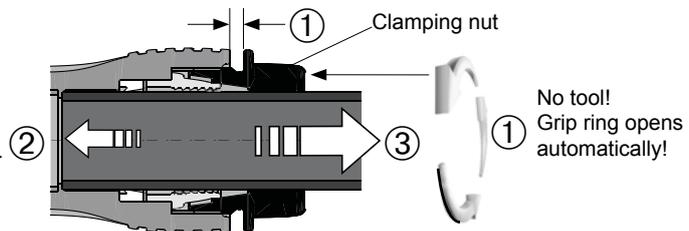
During the assembly of the Irrigation Hydrant or Garden Hydrant in the pipe, the corresponding DVGW-regulations for the establishing of a flange connection are given.

## 2.1 Shortening



Open the pipe clip at the telescopic extension spindle.

Loosen the connector clamp at the long PE end.  
Loosen the clamping nut (1) by turning it counterclockwise, relieve the pipe (2), and pull it out (3).  
Shorten the medium pipe to the required length.



Reconnect the medium pipe with the connector clamp. There is no need to exchange the grip ring.

Observe the following procedure:

<p>Measure the push-in depth.</p>	<p>Deburr or chamfer the pipe (chamfering tool Ord. No. 598).</p>	<p>Push in the pipe as far as it will go.</p>
<p>Screw in the clamping nut clockwise as far as it will go.</p>		

### 2.1 Drainage element Ord.No. 985-05

The drainage element for the freeflow garden hydrant and the irrigation hydrant serves the purpose of receiving and slowly draining of the residual water accumulating during closing. Moreover, the drainage element protects the drainage opening from roots growing in.

#### Assembly:

1. Loosen the screws of one cover part of the drainage element and remove the cover part.
2. Put the drainage element over the garden hydrant from above and push it down until it stops.
3. Refit the cover part and fasten it with the screws.
4. Surround the drainage element with permeable backfilling.  
Optionally, the drainage element can be prevented from clogging with fleece wrap strips Ord.No. 490 080 0500.

### 2.2 Transition adaptor for surface box Ord.No. 212-00 - Ord.No. 212-02 and Operating key / valve key Ord.No. 341-00

**Material:** Stainless steel / steel galvanised

The transition adaptor is used to operate the square of the surface box Ord.No. 212-00 in combination with the operating key/valve key Ord.No. 341-00/341 001 0000.

## 3. Commissioning and pressure-testing

After the successful installation, the hydrant has to be subjected to pressure testing in the open trench considering the maximum operating pressures as specified in the DVGW regulations.  
After the leakage test, a function check has to be performed.

#### **4. Servicing and maintenance**

Hawle freeflow garden hydrants and irrigation hydrants do not require any maintenance. Inspection acc. to DVGW sheet W400-3.

\* Brass/red brass components > 0.1% lead acc. to Regulation (EU) No. 1907/2006 (REACH Regulation)

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

Hawle Armaturen GmbH  
- Application Engineering -  
Liegnitzer Str. 6  
83395 Freilassing  
Telephone: +49 (0)8654 6303-0  
Telefax: +49 (0)8654 6303-222  
E-Mail: [info@hawle.de](mailto:info@hawle.de)  
Internet: [www.hawle.de](http://www.hawle.de)