Operating and maintenance instructions for

Above ground hydrants for potable water
Order No. 514-00, 515-00, 517-00, 519-00

1. Intended use

Hawle above ground hydrants can be used for drinking water applications according to EN 14384 up to a max. operating pressure of 16 bar.
During installation and maintenance work, in addition to the assembly instructions, the applicable standards and regulations, accident prevention regulations and the regulations of the employers‘ liability insurance associations as well as CE marking must be observed.

2. Product description

Hawle above ground hydrants are manufactured exclusively from high-quality stainless materials. The choice of materials guarantees high functionality and a consistently good appearance in all environmental situations (salt spreading, industrial areas, coastal regions).

The hydrant head offers a further benefit. This can be brought into any intermediate position from 0° to 360° to align the connections, even when installed.

The predetermined break away area ensures that the closed hydrant remains tightly closed incase of an accident. Replacement screws for quick repair are located under the operating cap.
There are also benefits for storage, transport and installation. The materials used have a comparatively much lower weight than conventional cast iron above ground hydrants.

2.1 Types of construction:

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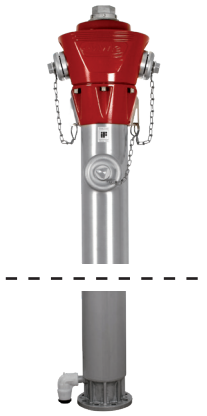
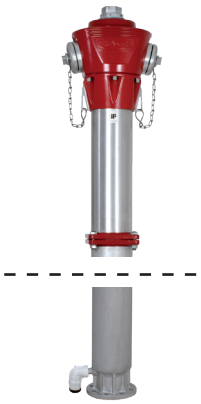
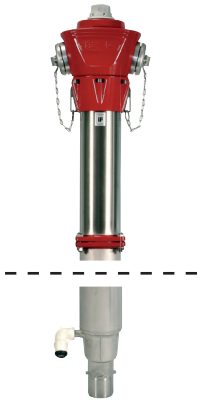
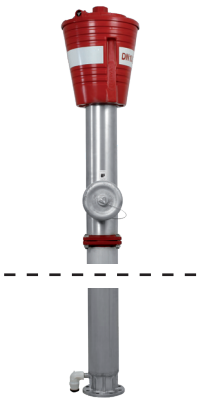
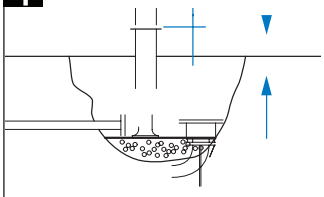
			
Above ground hydrant with A-, B- or C-connections, rigid	Above ground hydrant break away with A-, B- or C-connections	Above ground hydrant with BAIO®-spigot end, DN 80, B-connections	Above ground hydrant with drop jacket technology, with A- or B-connections, break-away version

3. Assembly

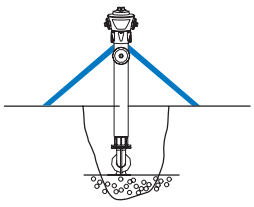
3.1 Installation

1



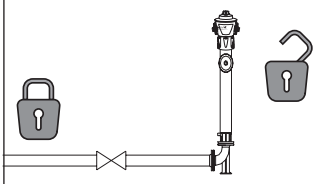
A footprint for the hydrant base is to be constructed in the excavation pit. Place the hydrant on the footprint and set it vertically. The height of the break away area should be in accordance with DVGW-VP 325: 01-2008 approx. 120 mm (+ - 80) above the level of the ground.

2



Support the hydrant base sufficiently against the soil.
<u>Caution:</u> If the soil is too flexible, the above ground hydrant break away may be displaced before the break away area gives way!

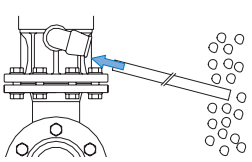
3



For maintenance work, we recommend installing a gate valve in the tap line to the hydrant.

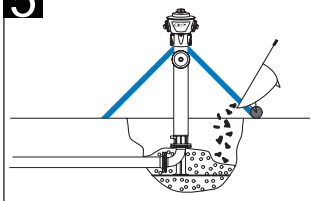
Connect main line.

4



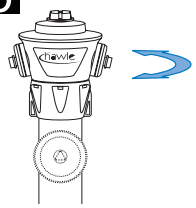
The hydrant should be surrounded by a drainage water absorber. To avoid flushing under the hydrant base area, it is recommended to extend the drain line with 3/4“ PE pipe. This PE pipe can, for example, be extended up to a seepage chamber in cohesive soils.

5



Fill up the excavation pit and compact the soil. Support the hydrant below the break away area sufficiently against the soil.

6



If necessary, turn the hydrant head to the desired position.

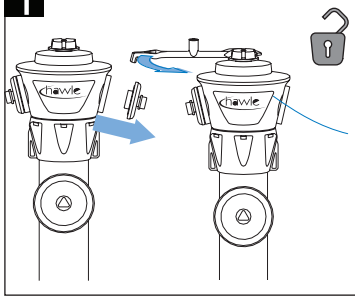
Caution: Only handle the hydrant head when the hydrant shut-off or the gate valve in the supply line is closed! To turn the hydrant head, loosen the hexagon socket screw below the head.

Turn the head to the desired position. Tighten the Allen screw again (tightening torque max. 55 Nm).

Rinse out the hydrant and check that it can move.

3.2 Anual inspection

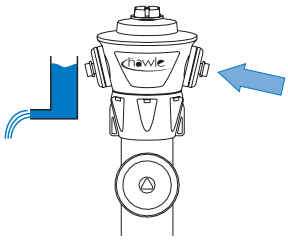
1



Detach cap for B- or A-coupling. Then open and flush the hydrant or

connect the hose. Completely open the hydrant by turning the actuating cap to the left. The quantity to be withdrawn may only be regulated by connected shut-off valves.

2

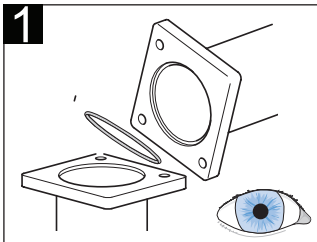


Close hydrant after use. Disconnect the A- or B- hose. Check drainage function. If the hydrant does not drain after a waiting period of two to three minutes, the blocked draining bore must be flushed free, e.g. with a hand pump.

Assemble cover caps for A- or B-coupling

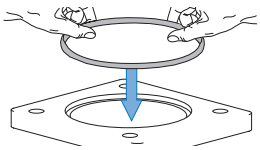
3.3 Break of the break away area (with Order No. 517 and 519):

1



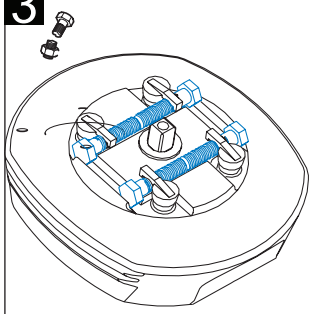
Visual inspection for damage or dirt on or in the hydrant. Dispose of opened or broken break away bolts.

2



If necessary, insert the centring seal again.

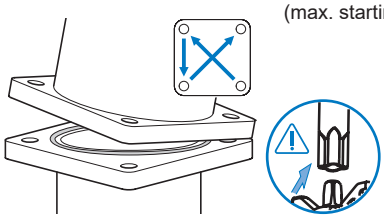
3



Remove spare screws from the screw holder under the bonnet of the hydrant head.

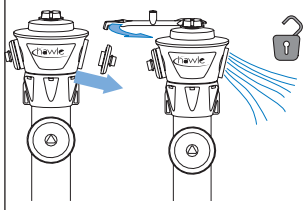
Obtain spare screws from the manufacturer and deposit them in the hydrant head.

4



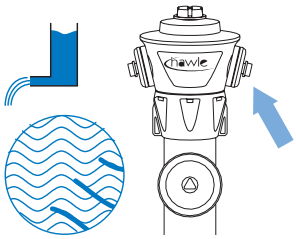
Put on the hydrant column. Crosswise Tighten the break away bolts (max. starting torque 60 Nm).

5



Detach cap for B- or A-coupling. Then open and flush the hydrant.

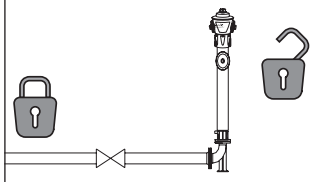
6



Check drainage function.
Assemble cap for B- or A-coupling.

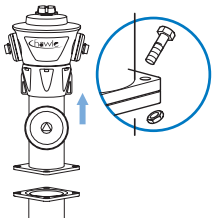
3.4 Replacement of the hydrant cone:

1



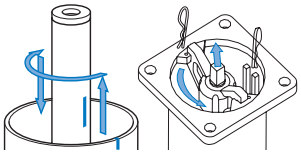
Shut off the supply line to the hydrant. Open the hydrant and turn it back approx. half a turn.

2



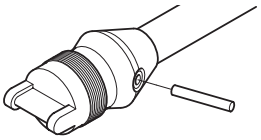
Unscrew the hydrant at the break away area (1). Remove the centring seal (2).

3



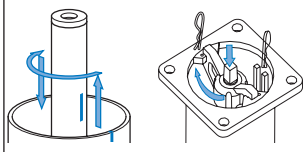
Pull out both spring cotter (3). The spindle holder (4) is released from the anchorage by turning to the left. Pull out the actuating set (5) upwards.

4



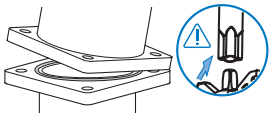
Knock out locking pin (6). Replace the old valve plug (7) with a new one. Knock in locking pin (6).

5



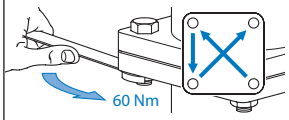
Insert the actuating assembly (5) into the hydrant standpipe, making sure that the guide pins of the spindle nut (9) slide into the guides. Turn the spindle holder (4) onto the anchorage. 13. Insert both spring cotters (15) into the holes provided for this purpose.

6



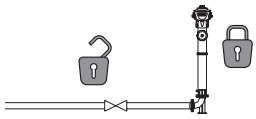
Place the column on the spindle, making sure that the spindle sleeve (10) slides over the spindle square of the spindle (4).

7



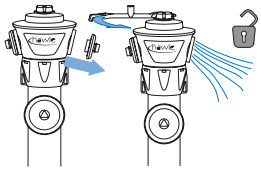
Tighten the break away bolts (11) crosswise. Tightening torque 60 Nm

8



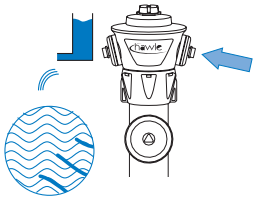
Close hydrant. Open supply line to the hydrant.

9



Detach cap for B- or A-coupling. Then open and flush the hydrant.

10



Check drainage function.
Assemble cap for B- or A-coupling

4. Commissioning and pressure testing

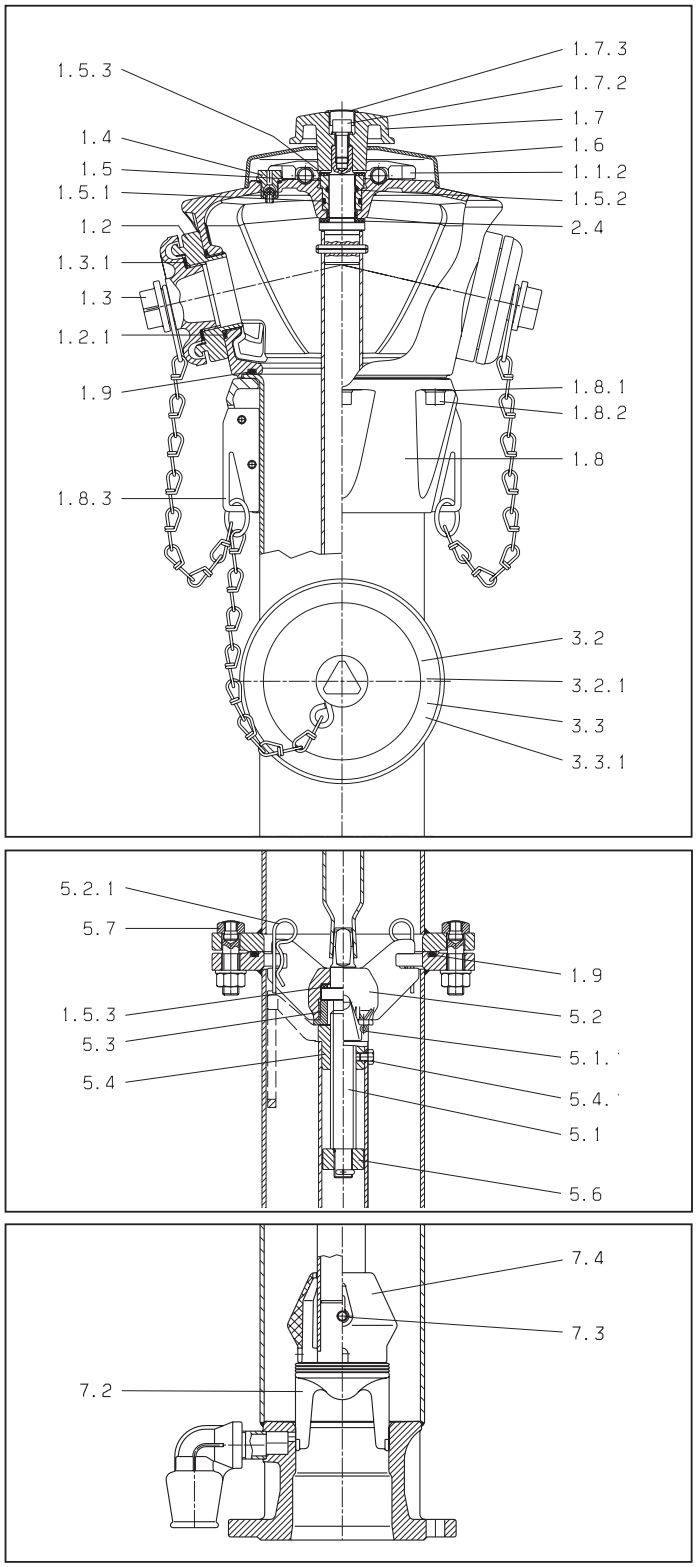
After the hydrant has been connected to the water supply network, pressure testing must be carried out in an open pipe trench in accordance with DVGW regulations. The hydrant must be anchored in the pipe trench.

Following the pressure testing, a functional check must be carried out.

5. Service and maintenance

Hawle above ground hydrants are maintenance-free.
According to DVGW Code of Practice W331 (Selection, installation and operation of hydrants), January 2006, visual and functional checks and the resulting maintenance work on hydrants must be carried out at regular intervals only by trained personnel and is to be documented.
Information on inspection and maintenance work can also be found in DVGW Worksheet W392-2.

Explosionszeichnung Überflurhydrant, Best.-Nr. 514-00, 515-00, 519-00



Item	Position
1.1.2	Screw holder
1.2	B fixed coupling
1.2	C-coupling
1.2.1	O-ring for B-coupling
1.2.1	O-ring for C-coupling
1.3	Cap for B-coupling
1.3	Cap for C-coupling
1.3.1	Seal for B cap
1.3.1	Seal for B cap
1.4	Air release valve
1.5	O-ring brush
1.5.1	O-ring
1.5.2	O-ring
1.5.3	Friction washer
1.6	Bonnet
1.7	Actuating cap
1.7.2	Hex-cap screw
1.7.3	Plug
1.8	Lock ring
1.8.1	Washer
1.8.2	Hex-cap screw
1.8.3	Mounting lug
1.9	O-ring
2.4	Flange friction washer
3.2	A fixed coupling
3.2	B fixed coupling
3.2.1	O-ring for A-coupling
3.2.1	O-ring for B-coupling
3.3	Cap for A-coupling
3.3	Cap for B-coupling
3.3.1	Seal for A cap
3.3.1	Seal for B cap
5.1	Spindle
5.1.1	Cotter pin
5.2	Spindle holder
5.2.1	Spring cotter
5.3	Lock screw
5.4	Spindle nut
5.4.1	Hexagonal bolt
5.6	Stop nut
5.7	Hexagonal bolt with break away area
7.2	Valve plug
7.3	Locking pin
7.4	Flow indicator

Required information for ordering spare parts see badge!

Should you have questions or need further information, please contact:

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