

1. Intended use / product description

Medium:

Potable water

Max. operating pressure:

Potable water: 16 bar

Material:

Hydrant head: saltwater-proof aluminium alloy, coating as specified by GSK (Quality Association for Heavy-Duty

Corrosion Protection) (at least 250µm) RAL3003, and UV-resistant paint.

Pillar: thick-walled tube of stainless steel Operating rod/spindle: stainless steel

Ring cylinder: stainless steel with cured-on EPDM

Standards applied:

Hydrant DIN EN 14384 and DIN EN 1074

Drainage acc. to DIN EN 1074-6

Fixed couplings: 2 x B acc. to DIN 14318

Pillar: alternatively 1 x A or 2 x fixed coupling A acc. to DIN 14319

Outlet: flange acc. to DIN EN 1092-2

Description:

The shut-off function of the R1 hydrant is performed by a ring cylinder of stainless steel with cured-on sealing. This ensures extremely low operating forces on opening and closing the hydrant even in case of high line pressure. The R1 hydrant head features a defined stop for opening and closing.

When the R1 hydrant is opened, the ring cylinder moves downward, thus closing the drainage bores first and opening the opening area afterwards. Water rises and flows upward through the ring cylinder.

During closing, the ring cylinder is moved to the upper stop position until the opening area is closed completely. After 15 revolutions, the residual water which is still inside the hydrant after closing can run off into the soil via the drain holes and through the drainage element.

The stone trap integrated in the housing of the R1 hydrant prevents damage caused by stones and other foreign matter at the ring cylinder, thus permanently ensuring a reliable shut-off function.

By loosening the screws, the standpipe and hydrant head can be turned by 360° even after installation.

The R1 hydrant is provided with a predetermined breaking point as a standard feature. The predetermined breaking point ensures that the closed hydrant remains tightly closed after being knocked over. In this case, four spare screws in the hydrant head allow a quick and easy repair.

The R1 hydrant is corrosion-resistant to disinfectants permitted in the field of potable water.

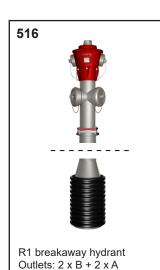
During installation and maintenance operations, the applicable standards and guidelines, accident prevention regulations and the regulations of professional associations are to be observed and complied with.

Installation and maintenance operations should only be carried out by qualified personnel.

CE mark

		KV values	
C € 1085	Туре	Outlet	Flow [m³/h]
Hawle Armaturen GmbH, 83395 Freilassing 17 1085-CPR-0300	R1	1xB 2xB 1xA 2xA	133 231 269 -
EN 14384 Above ground hydrant , DN 100, PN 16 Closing direction clockwise Number of revolutions 3 /12 Torque (MOT, mST) range 1 (80, 250) Inlet flange DN 100	R1 drop- down cover	1xB 2xB 1xA 2xA	106 188 269

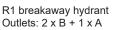
C € 1085	KV Values		
	Туре	Outlet	Flow [m³/h]
Hawle Armaturen GmbH, 83395 Freilassing 14 1085-CPR-0300	R1	1xB 2xB 1xA	139 250 290
EN 14384 Above ground hydrant , DN 150, PN 16 Closing direction clockwise Number of revolutions 3 /12 Torque (MOT, mST) range 1 (80, 250) Inlet flange DN 150	R1 drop- down coverl	2xA 1xB 2xB 1xA 2xA	392 121 188 290 392







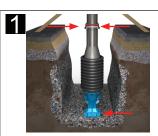






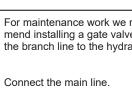
drop-down cover Outlets: 2 x B + 1 x A

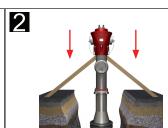
2. Installation 2.1 Mounting



Establish a foundation for the hydrant base in the trench.

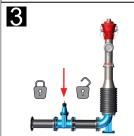
Put the hydrant on the foundation and align it vertically. Acc. to DVGW W386, the predetermined breaking point should be at a height of approx. 120 mm (+/-80 mm) above terrain level.



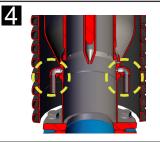


Support the hydrant base sufficiently against the soil.

Important: If the soil is too soft, the breakaway hydrant may be displaced before the predetermined breaking point yields!



For maintenance work we recommend installing a gate valve into the branch line to the hydrant.



The hydrant is surrounded by a seeping water drain packing.

Loose gravel suitable for drainage must be installed around the drainage element. In case of extremely cohesive soils (loam) we recommend additionally wrapping the drainage element in fleece. Drainage is effected via four drain pipes:



Before starting the filling work, please double-check the correct fit of the drainage element.

Make sure that the material suitable for drainage (grain size at least 5 mm) is filled in evenly. Then compact the soil.

Below the predetermined breaking point, support the hydrant sufficiently against the soil.



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

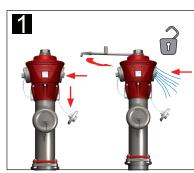
Important: When working at the hydrant head in the supply line, make sure that the hydrant shut-off device or gate valve is closed! For turning the hydrant head, loosen the hexagon socket screws below the head. Turn the head to the desired po-

Retighten the hexagon socket screws (tightening torque: max. 55 Nm)

On commissioning the hydrant, please check the drain-off function as well.

Flush the hydrant and check free movement.

2.2 Annual inspection



Remove the cap for coupling B and/or A.

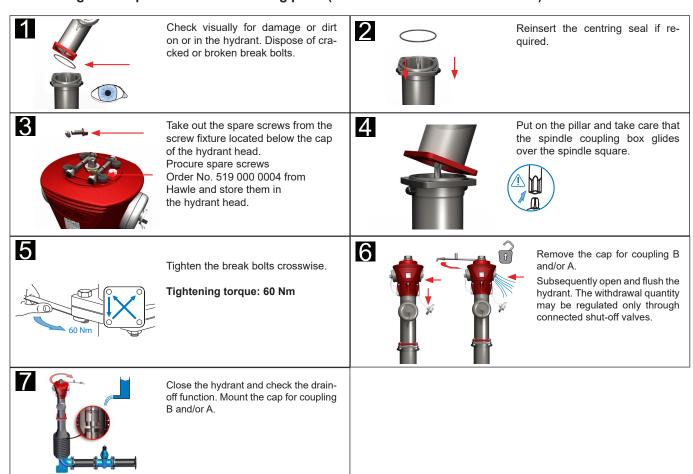
Subsequently open and flush the hydrant.

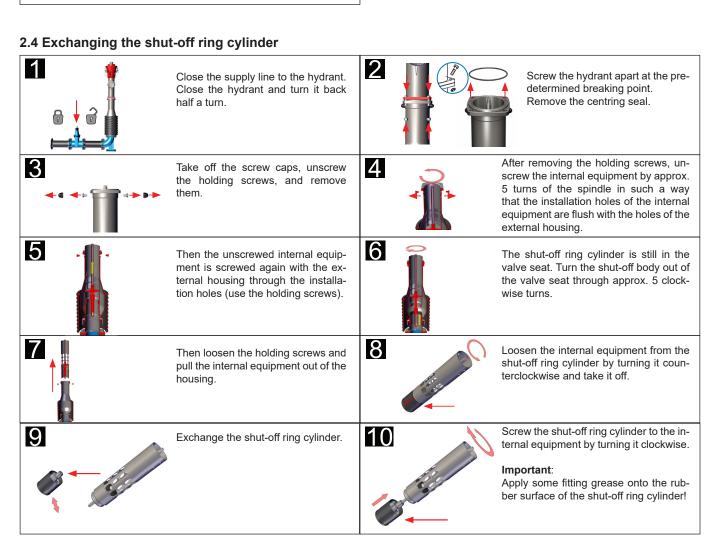
Open the hydrant completely by turning the operating cap counterclockwise. The withdrawal quantity may be regulated only through connected shut-off valves.

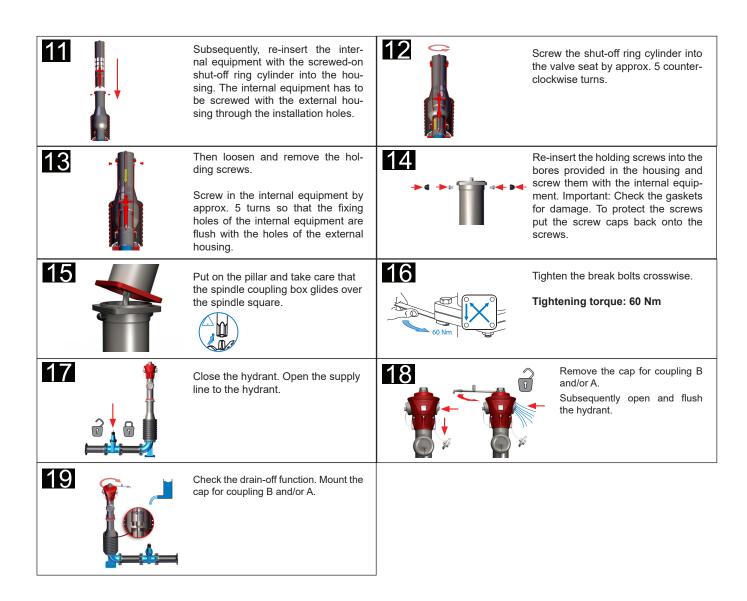


Close the hydrant after operation. Check the drain-off function. If the hydrant is not drained after a waiting period of four to five minutes, the clogged drain-off bore has to be flushed free, for example by means of a hand pump. Mount the cap for coupling A and/or B.

2.3 Breakage of the predetermined breaking point (in case of Order No. 517 and 519)







3. Commissioning and pressure-testing

After connecting the hydrant to the water network, a leakage test shall be performed in the open trench as specified in the DVGW regulations. During this process, the hydrant must be fixed in the trench.

After the leakage test, a function check has to be performed.

4. Servicing and maintenance

Hawle above ground hydrants require little maintenance.

Acc. to DVGW sheet W331 (selection, installation, and operation of hydrants), visual and functional checks and the resulting maintenance work at hydrants shall be performed at regular intervals.

For information on inspection and maintenance work please refer also to DVGW sheets W392-2 and W400-3 B1.

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

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