



AQUAGUARD is a patented solution, designed to allow you to safely cross zones of high pressure and high flow groundwater, while maintaining good core recovery during drilling operations. When inserted into the rods, the AquaGuard check valve partially limits the water from the pressurized in-flow zone making drilling operations safer and more efficient.



Benefits

Safety

- Prevents the inner tube assembly from over-running the wireline while retrieving the core.
- Improves safety when recovering core tubes in zones of high pressure/flow water.
- Improves working conditions for operators.
- Improves drill site and mine water management.

Core recovery

- Allows for increased recovery of core samples across groundwater in-flow zones.
- Once the high pressure zone has been crossed, drilling operations can return to drilling the original core size.

Time & Cost saving

- Reduces operating time by up to 30%. Using this system is much safer and more efficient when adding rods and changing the inner tube due to limited water in-flow into the open string.
- Productivity is increased, while keeping operational costs down.

AQUAGUARD | Equipment required illustrated

OWL Standard **HWL** and **AQUAGUARD HWL**



- OWL head assembly lower zone **NWL**
- AQUAGUARD adaptor
- OWL head assembly upper zone **HWL**

AQUAGUARD | How does it work?

Before reaching the anticipated depth of the flow zone

1. Rods are tripped out of the hole
2. System replaces the standard HWL drilling system (still using HWL rods)
3. Rods are tripped back into hole
4. Drilling resumes through high in-flow zone

NWL
AQUAGUARD in is position,
replaces the Brass stabilizer ring



AQUAGUARD | Options after high-flow zone crossing

OPTION 1 Use your rods as casing to reduce to one size smaller

Rods become casing. Drill through landing ring with reduced diameter equipment. Continue drilling.

OPTION 2 Resume drilling with original size

Trip rods, change to regular equipment. Continue drilling

AQUAGUARD | Solution kit

Kit includes:

- 1 x AQUAGUARD valve
- 2 x AQUAGUARD standard adaptors

PLUS the following spare parts:

- 1 x set of closure flaps (qty of 6)
- 1 x set of pins and screws (qty of 6)

AQUAGUARD kit does not include core bit. Choose your matrix according to ground type.

	NWL/BWL 10S-N10-200	HWL/NWL 10S-H10-200	HWL/NWL2 10S-H10-201
HERO™ 7	B-N83-HE7-13-MY	B-H50-HE7-13-BP	B-H47-HE7-13-BP
T-Xtreme 9-11	B-N83-TX9-12-MY	B-H50-TX9-12-BP	B-H47-TX9-13-BP

Other matrices also available.