



AQUAGUARD | Water Pressure Limiter

Cross zones of high pressure and high flow groundwater during drilling operations and still obtain good core recovery with Fordia's AquaGuard.

When drilling operations have stopped or slowed down because of a high-pressure water inflow zone or other large amounts of water, the AquaGuard is inserted into the core barrel to allow drilling activity to resume. The product's valve, similar to a check valve, partially limits water from the pressurized in-flow zone, making drilling operations more efficient.

- Permits drilling operations to continue in zones with high-pressure water inflow where core recovery would be otherwise impossible.
- Dramatically improves working conditions and improves drill site and mine water management.
- Can be used with all standard drilling equipment.
- In zones with high-pressure water inflow, can reduce operating time by up to 30%, increasing productivity while keeping operational costs down.



AQUAGUARD | Solution kit

The following elements are included in the solution kit:

AQUAGUARD SOLUTION KIT	SPARE PARTS INCLUDED IN THE KIT
AquaGuard valve (1)	AquaGuard closure flaps (set of 6)
AquaGuard inner tube cap assy (2)	AquaGuard pins and screws (set of 6)

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

Note: To use the AquaGuard with two outer tubes, an AquaGuard inner tube coupling and AquaGuard inner tube stabilizer must be ordered separately.

AQUAGUARD | Equipment required illustrated



■ AQUAGUARD inner tube cap assy

■ OWL head assembly

■ AQUAGUARD in it's position, replaces the brass stabilizer ring



AQUAGUARD | How does it work?

1. Before reaching the anticipated depth of the flow zone, rods are tripped out of the hole.
2. AQUAGUARD system replaces the standard drilling system (using the same rods).
3. Rods are tripped back into hole.
4. Drilling resumes through high in-flow zone.
5. After high-flow zone crossing, two options are available.

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 back to regular equipment. Continue drilling.

AQUAGUARD | Part numbers

<i>Description</i>	<i>Quantity</i>	<i>NWL/BWL</i>	<i>HWL/NWL</i>	<i>HWL/NWL2</i>
AquaGuard valve	1	9469705438	9469705271	9469705272
AquaGuard inner tube cap assy	2	9469705442	9469705276	9469705277
AquaGuard core bit (HERO™ 7)*	2	9469703320	9469701777	9469701767
AquaGuard core bit (T Xtreme 9-11)*	2	9469703326	9469701778	9469701769

AquaGuard valve spare parts

AquaGuard closure flaps (6)	1 (set of 6)	9469705439	9469705273	9469705273
AquaGuard pins and screws (6)	1 (set of 6)	9469705440	9469705274	9469705274
AquaGuard valve body	1	9469706699	9469706572	9469706572

Optional parts

AquaGuard standard adapter	1	9469705441	9469705275	9469705275
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**Contact your sales representative for more information on all options and matrices available.*

AQUAGUARD | System limitations

After pulling the tube, pieces of core may limit the valve from closing properly. Due to gravity, while drilling uphole, rocks can fall behind the closed valve, limiting valve movement.



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