

Locking Well Caps Data Sheet

ENVIROCAPS - Well Caps

EnviroCap locking well caps are attached to the top of well casing and serve the dual functions of preventing surface water from entering the well through the top of the casing and restricting access by unauthorized persons.

EnviroCaps feature an exclusive built in locking system that is completely sealed from the outside environment to eliminate replacement cost of failed locks due to rust, corrosion, and debris. Unlike conventional caps, EnviroCap does not come loose in the casing.

FEATURES

Maximum Seal-to-Casing contact

Our 32 mm (1¼ inch) wide seal prevents leakage and adds friction for intruder resistance. The wider contact surface spreads the outward force over more pipe area, reducing the "bellling out" effect that makes conventional caps come loose.

Slide On Retaining Sleeve

The sleeve prevents casing deformation caused by the outward force of the expanded donut on the casing. EnviroCaps cannot be pulled out of the casing.

Extra Leak Protection

The top cap overlaps the casing to create an extra air seal, much like an upside down cup in water.

Sealed Lock

Save Money!! Our built in lock never needs replacing.

Utility Ring

Hang tools or samplers from the bottom of the cap.

Flat Profile

Conserve space in well covers with only 6 mm (¼ inch) stick up over the well casing.

Optional Venting

Caps can be vented by the addition of a 2mm vent hole to prevent pressurisation of the borehole during use. With dataloggers or other similar devices. Please request venting at time of order. Please be aware this does provide a small potential inlet for water if the borehole cap becomes flooded and vented caps should not be relied on for permanently sealing a borehole.



OPERATION

The cap consists of two rigid disks that are separated by a flexible, squeezable donut of hydrocarbon resistant material. A special bolt threads through the centre of the assembly so as to compress the outer disks against the flexible donut when tightened. To use, the lower portion of the cap is inserted into the well casing and the bolt is rotated using a special key that matches the pattern in the bolt head

As the key tightens the bolt, the two disks compress the flexible donut causing it to expand outward at its circumference, pressing tightly against the inside of the well casing forming a liquid tight seal and producing enough friction to make it virtually impossible to remove without loosening the bolt.

The special bolt has a working mechanism inside that allows the threads to turn only when the special, magnetic, EnviroKey is used. If an unauthorized user attempts to rotate the bolt without the special key, the bolt head turns without engaging the threads, so the two disks do not loosen and the cap cannot be removed

Ordering Information		
Code	Description	Nominal Size
S3001/SWH2	EnviroCap - 48 mm	48 mm (2 inch)
S3001/SWH4	EnviroCap - 96 mm	96 mm (4 inch)
S3001/WHKey	EnviroCap Key	Universal