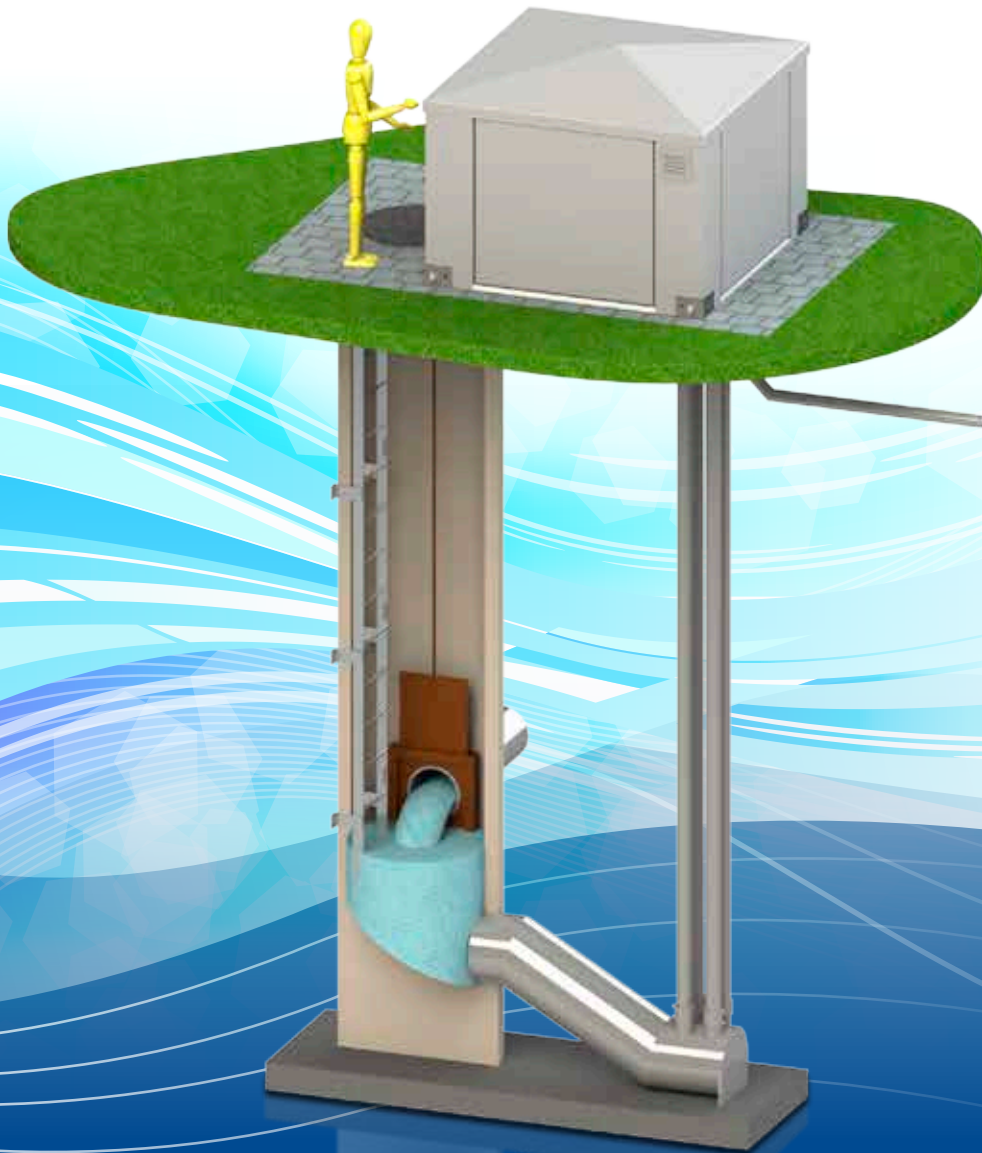


SCS SYSTEM[®]

Self-Cleaning Sump System



The self-cleaning in-line
pumping solution



EUROPE

1. The sloped collector

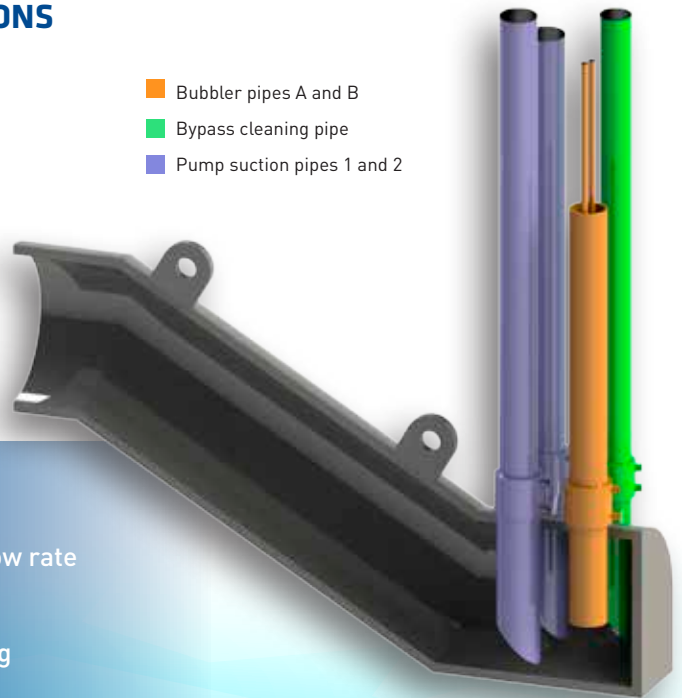
The sloped collector is the key innovation in the SCS SYSTEM®, designed and developed by Gorman-Rupp. It is supplied in kit form for easy on-site installation.

INSTALLING AN SCS SYSTEM® GUARANTEES SIGNIFICANT OPERATING COST REDUCTIONS

ADVANTAGES:

- **Self-cleaning** pumping station
- **Easy installation** and **integration of connections**: pump suction pipes, level regulators (air bubblers) and bypass cleaning pipes
- **Removal of main sump**

- Bubbler pipes A and B
- Bypass cleaning pipe
- Pump suction pipes 1 and 2



TECHNICAL SPECIFICATIONS:

- Materials: HDPE or stainless steel
- Diameter: DN400 to DN1200, depending on the flow rate
- Length: 1.5 to 3 m
- Recommended slope: 30°
- Installation: welding, clamping or sealing coupling

2. The inspection chamber

It is optional, but recommended, to install an inspection chamber with a sloping bottom, upstream of the SCS SYSTEM®. It allows easy inspection and effluents can be removed from the various inlet collectors.

It can also hold various things - several wall mounted valves, a basket strainer or a grinder, and a ladder for cleaning and to access the sloped collector.

RECOMMENDED TECHNICAL SPECIFICATIONS:

- Materials: HDPE, concrete or polyester
- Format: square or circular, with a bottom sloping at 30°
- Dimensions / diameter: 1.2 m
- Access *via* a manhole

LOWER OPERATING COSTS

SCS SYSTEM®

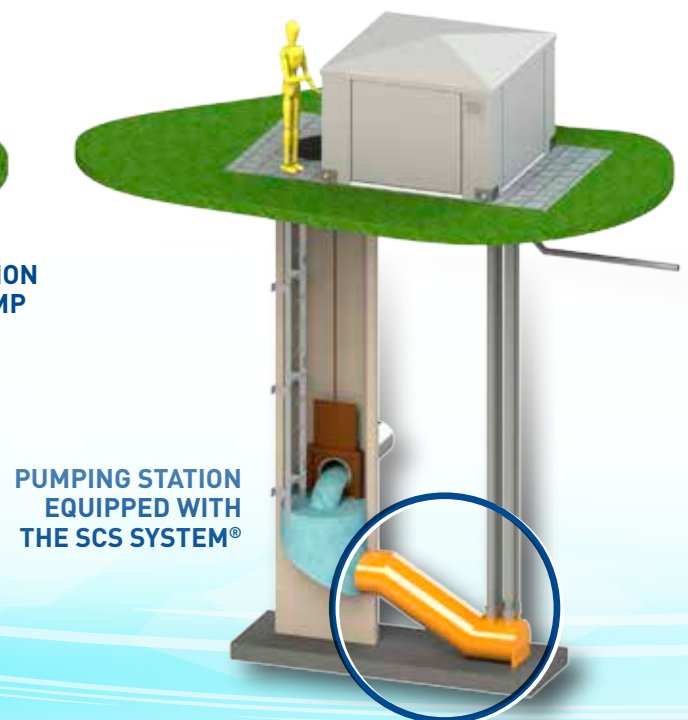
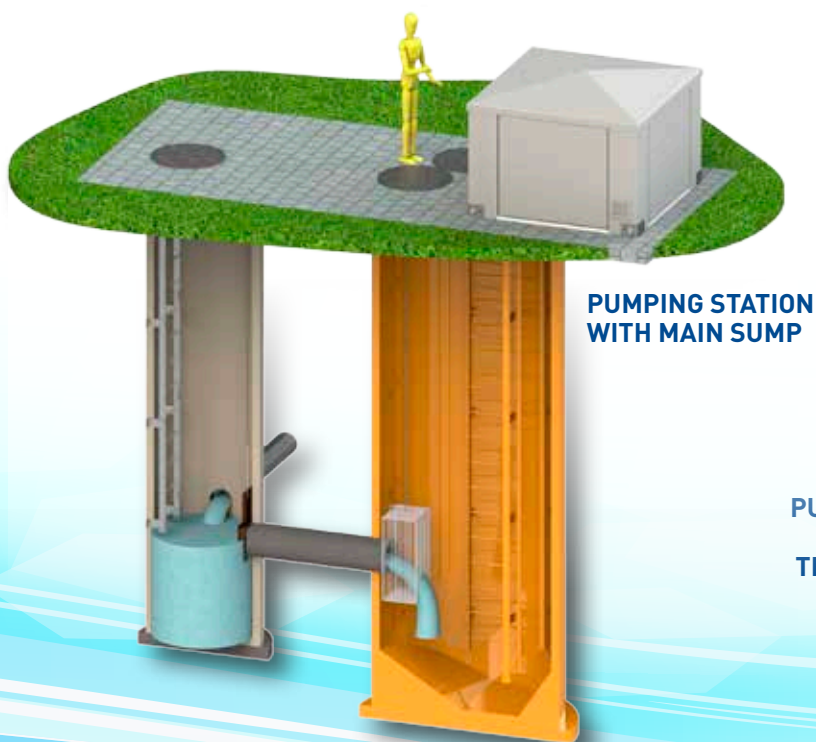
A unique innovative concept

All 3 types of pumping stations currently available on the market (dry pit, submersible or above-ground pumps) involve construction of a main sump. This is an expensive system to install and maintain.

The integrated technology of the SCS SYSTEM® solution includes a sloped mini-collector which makes installing a sump unnecessary. At each pumping cycle floating debris and sediment (sands and solid particles) are passed without risk of build-up or clogging. This means our in-line pumping station is actually self-cleaning.

**Civil engineering is radically simplified, with considerable savings in energy needs.
Capital outlay and operating costs are significantly reduced.**

Our unique, innovative system is highly flexible and adapts to any type of terrain, configuration or effluent.



THE MAIN SUMP SYSTEM:

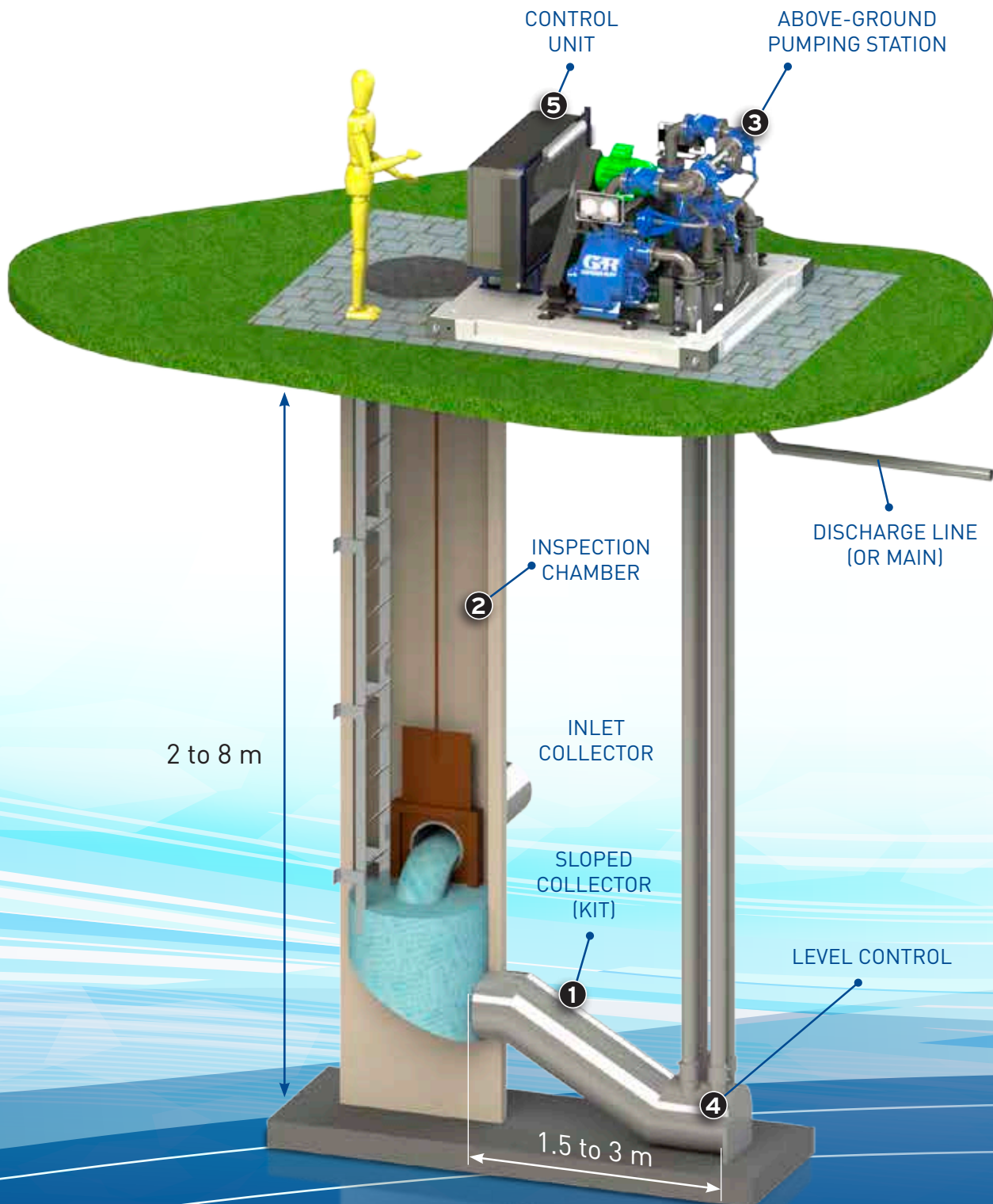
- Ensures the useful volume is adequate to limit the number of starts
- Enables level control installation
- Allows for submersible pump installation if required

THE SCS SYSTEM®:

- Allows frequency inverters to be used to limit the useful volume and the number of starts
- Allows a bubbling system directly connected to the sloped collector to be installed for level control management
- Allows for self-priming, above-ground pump installation

**SIMPLIFIED CIVIL ENGINEERING
REDUCED CAPITAL OUTLAY**

Overview of the components of a pumping station equipped with the SCS SYSTEM®



3. The Gorman-Rupp above-ground pumping enclosure*

Above-ground pumping stations offer **significant capital outlay savings** thanks to simplified civil engineering and direct on-site installation of the electromechanics.

The pumps can be housed in **prefabricated enclosures** made of **concrete** or **fibreglass**. Acoustic insulation is optional.

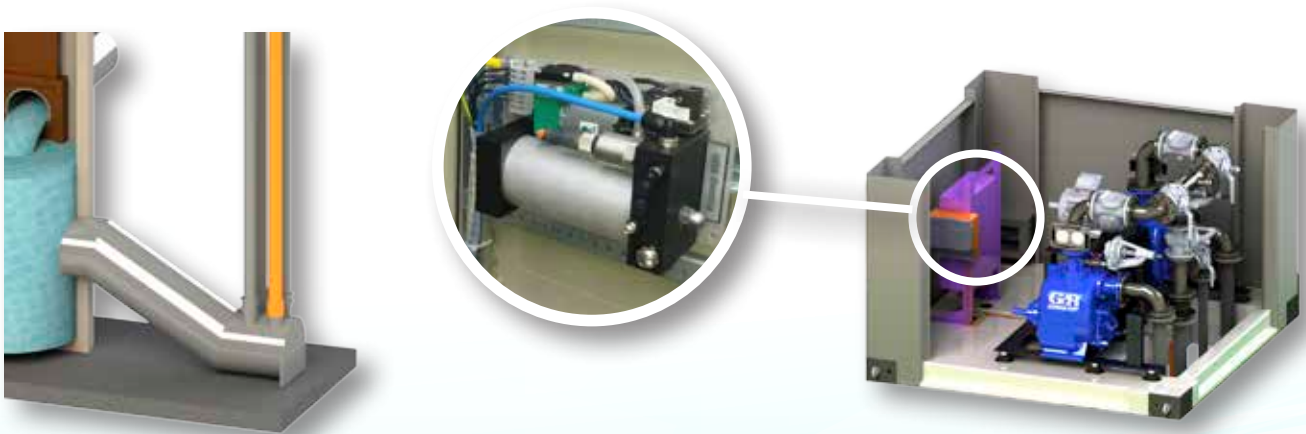
The SCS SYSTEM® is compatible with all pumping stations equipped with self-priming pumps.

** Brochure available on request*

4. Level control

For level control, we recommend a counter-pressure bubbling system of HABS 2000*. Level measurement is carried out at the bottom of the sloped collector. No electrical component enters into contact with liquids.

** Brochure available on request*



Level control can be done *via* any other traditional system installed in the inspection chamber: bubbler, hydrostatic probe, laser, ultrasound, floats, etc.

5. Control unit



The control unit houses the pumping station protection, regulation and control instruments, as well as the frequency inverters to control the pump(s). The 2 air bubblers used for level control are also integrated in this unit.

Pump stops and starts and alarm control are managed through the touch interface.

To ensure optimum equipment performance, adequate pipe fluid flow velocity and a good re-priming capacity, we recommend setting the minimum and maximum acceptable frequencies for the pump and the system before starting the installation.

SIGNIFICANT ENERGY SAVINGS

SCS SYSTEM®

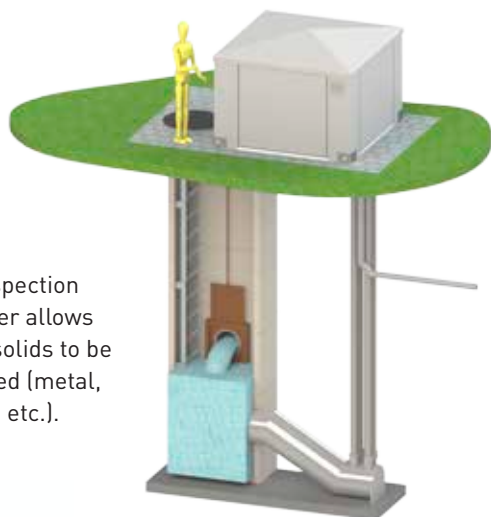
A modular, flexible solution

The integrated technology of the SCS SYSTEM® means the solution can not only adapt to the site and the type of effluent, but also to end user needs, constraints and specific preferences.

All the different versions of the SCS SYSTEM® provide self-cleaning pumping stations and full access to the electromechanical group, plus a significant reduction in capital outlay.

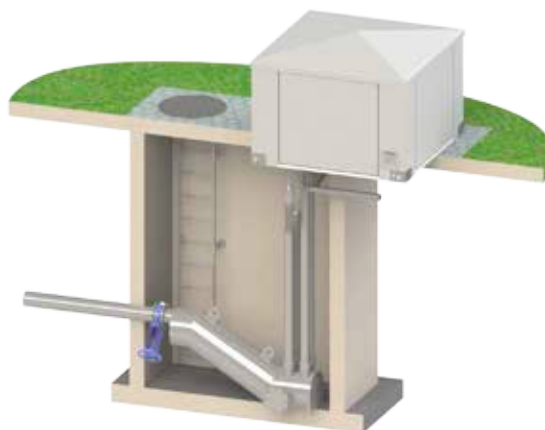
A few examples of pumping stations equipped with an SCS SYSTEM®:

IN-LINE PUMP HOUSE WITH STONE TRAP PIT



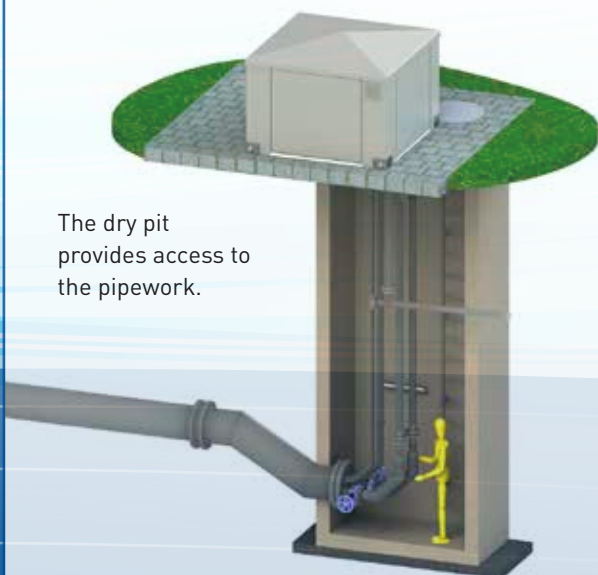
The inspection chamber allows heavy solids to be collected (metal, stones, etc.).

RENOVATION OF SUBMERSIBLE OR DRY PIT STATION



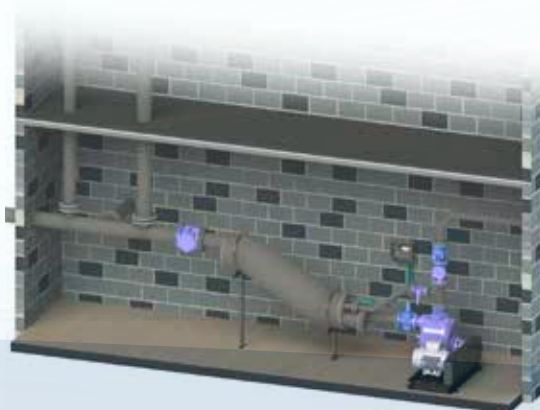
When renovating a pumping station, the SCS System® can be installed, replacing existing submersible or dry pit pumps.

IN-LINE PUMP HOUSE WITH PIPEWORK IN DRY PIT



The dry pit provides access to the pipework.

BASEMENT IN-LINE PUMP HOUSE



This type of installation allows you to avoid constructing an additional sump (hospitals, hotels, car parks, etc.)