

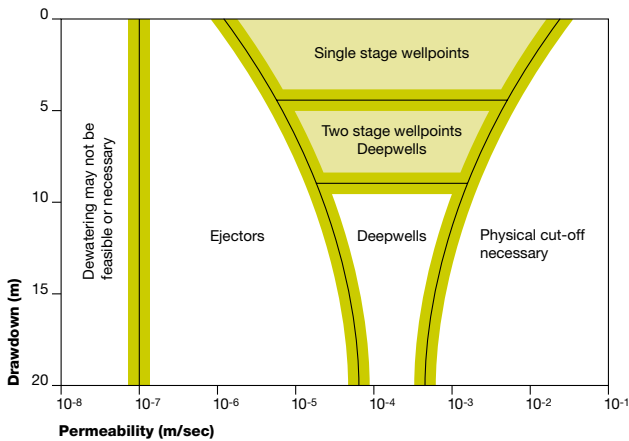
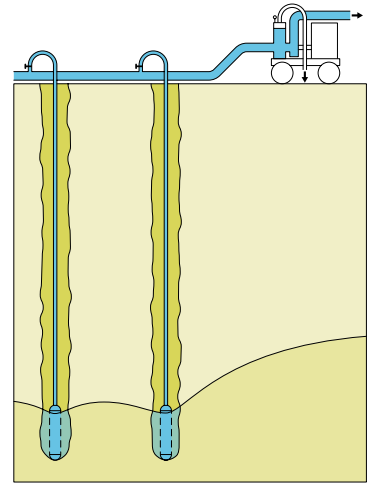


Wellpoint systems are employed primarily to lower groundwater levels around foundations to provide stable working conditions. The technique may also be used to recover contaminated groundwater or to provide a water supply for irrigation. WJ's comprehensive sub-contract service covers the design, provision of equipment, installation and operation of wellpoint systems for any purpose.

#### Application

Wellpoint systems are effective in a wide range of soils from gravel through to silty fine sand. In favourable ground a single stage of wellpoints can be used to lower groundwater levels by up to 6 m or more. Rapid and cost effective installation may be achieved by jetting using high pressure water. Jetting promotes good hydraulic connection and allows the placement of a granular filter pack which may enhance performance in stratified fine soils. Wellpoint systems are particularly suited to control of groundwater levels for shallow foundations and trench works in water bearing granular soils.

t +44(0)20 8950 7256  
w [www.wjgl.com](http://www.wjgl.com)



**Principles of wellpoint systems**

A wellpoint system consists of a closely spaced series of small diameter shallow wells. The wellpoints are connected to a common headermain. One high efficiency vacuum dewatering pump can operate up to fifty or more wellpoints. For drawdowns in excess of 6 m further stages of wellpoints are required. Installed at successively lower levels as excavation proceeds.

**Equipment specification**

- Wellpoints: PVC disposable, steel self jetting
- Headermain: uPVC, galvanised steel
- Headermain size: 100 mm, 150 mm, 200 mm
- Pump discharge size: 76 mm to 200 mm
- Pump type: self priming centrifugal, piston
- Prime mover: diesel, silenced diesel, electric
- Jetting pumps: 76 mm to 100 mm

**Installation methods**

- Self jetting wellpoints
- Jetting tube
- Hydraulic auger
- Hole puncher with hammer action
- Cable percussion drill
- Rotary drill

**Design capability**

WJ has a proven record of innovative design solutions based on many years of practical and technical experience of small and large scale projects. The service includes assessment of site investigation data, followed by provision of layout drawings, method statements and design calculations as requested.