

WELL LIFT HYDRO JET PUMP

SERIES - E2900

In drilling application, the ejectors are placed on a riser at the bottom of the small diameter of the well. . The jet operates the supply pressure of greater than 7 bar to produce a vacuum which draws in the ground water to be returned to the low pressure surface collector pipe.

Ejectors will operate satisfactorily to dewater soil and control pore water pressure at a practical maximum depth of 50m. Suitable for removing small quantities of water from low to medium permeability ($k = 10^{-7}$ to 10^{-5} m/s) fine grained soils.

TYPES:

- A single pipe ejector installed in a well or well point above the intake screen with the well liner acting as the return pipe from the ejector nozzle.
- A two-pipe system with separate high pressure injection pipe to, and low-pressure return from the ejector placed above the intake screen in a 100-200mm diameter well.



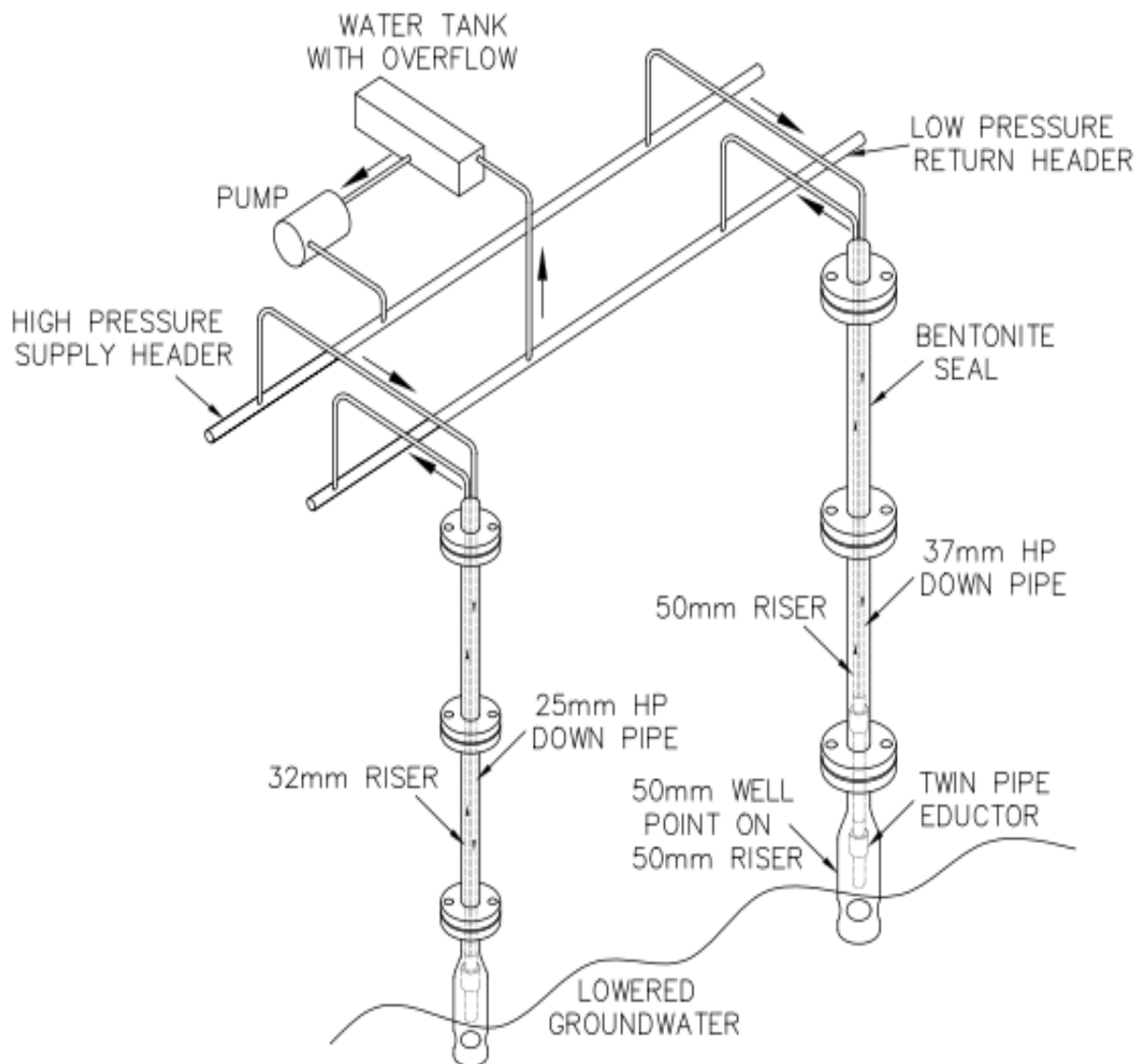
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SCHEMATIC LAYOUT OF EDUCTOR SYSTEMS:



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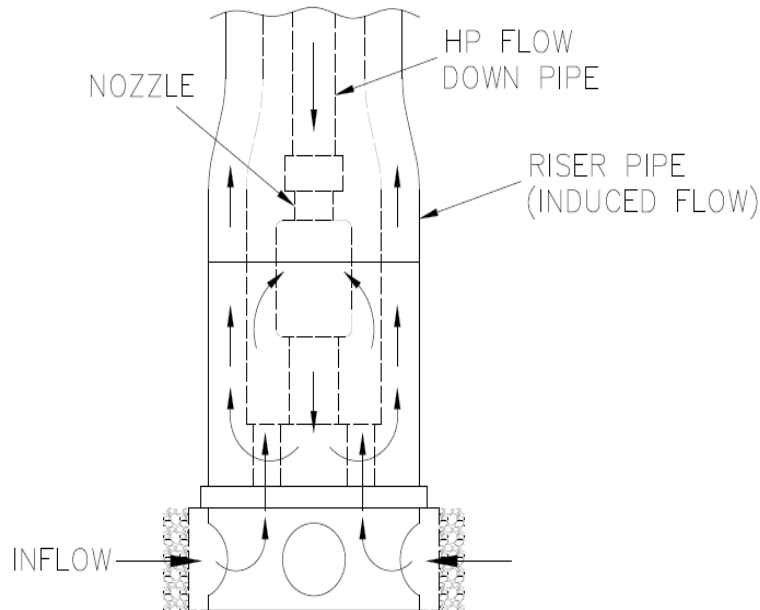
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WORKING OPERATION:

The liquid is pumped at high pressure through the nozzle, where the pressure energy is converted into high velocity energy. The high velocity jet creates vacuum to entrain the suction liquid.

The motive liquid and entrained liquid as a mixed stream enters the jet pump throat and passes through the diffuser where velocity energy is converted into intermediate pressure energy. This pressure is high enough to lift the liquid mixture to the surface.



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