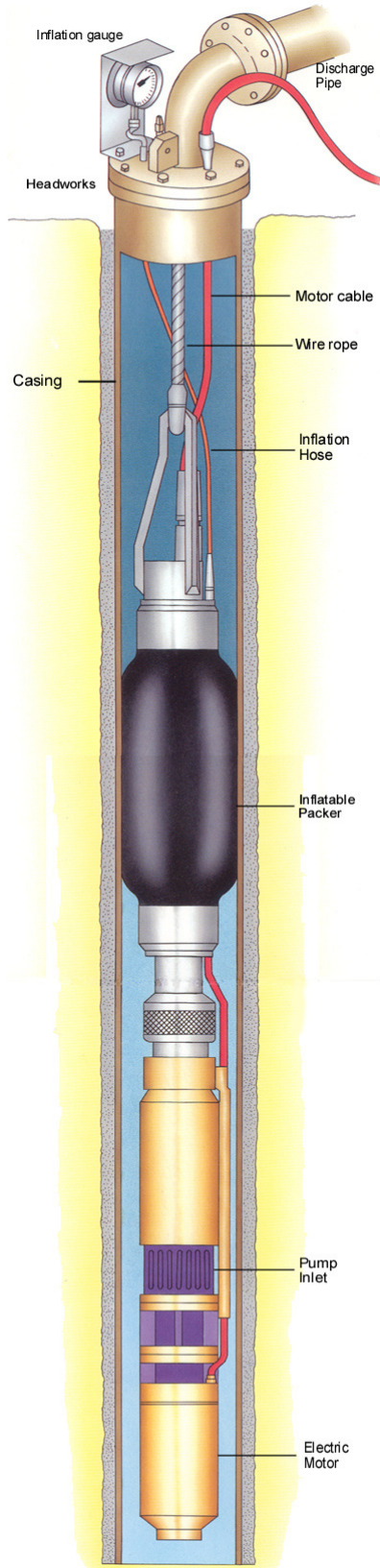


Riserless Pump System



The Riserless Pump System was introduced to allow the casing itself to be used as the riser for an electric submersible pump by sealing and supporting the pump in the casing with an inflatable packer. This system eliminates the need for a separate riser column providing a broad range of contingent advantages such as:

- Fast, efficient installation and removal
- Ensures potentially polluted surface water and upper aquifers are excluded from produced water
- Lower power consumption due to high electrical power efficiency and low frictional head loss
- Removal without dismantling piping
- Low frictional head loss
- Protects pump assembly
- Prevents chaffing of casing and pump
- Less corrosion
- Reduced maintenance costs
- Improved well bore hydraulics
- Suitable for wells with severe dog-legs
- May allow reduced hole diameter
- May allow use of thinner wall casing

It is ideally suited to large, deep bores and offers even more advantages in new wells where the original casing and drilled hole diameter can potentially be reduced without any reduction in bore production rate.