

SHUNT TUBE CONNECTIONS FOR WELLSCREEN ASSEMBLY

ABSTRACT

A well screen assembly has a base pipe and one or more screen sections attached to the outer surface of the base pipe. The assembly also has one or more shunt tubes attached to the base pipe via top and bottom rings. The shunt tubes can be attached to the screen sections via B-rings and may be transport tubes or packing tubes. Connections are used for securing a jumper tube to adjoining shunt tubes of adjoining screen sections of the wellscreen assembly, which may be used in open or cased holes. At a well site, joints of the wellscreens have timed threads so that the various shunt tubes can be aligned with one another along the assembly as the joints are made up. The connections of the present disclosure allow operators to install a jumper tubes between shunt tubes at the joint without needing to tighten fasteners or assembly components.

Figure: 4A