hvGrid's three conductor high-pressure fluid-filled normal joints are based upon a proven design with over 50 years of service around the world in operating voltages from 69 kV up to 345 kV. They are installed in steel pipe sleeves between carrier pipe sections or inside spreaderheads or trifurcators which are installed to separate the three phases into individual riser pipes leading to the terminations.

The steel pipe sleeves, which are welded to the carrier pipe through reducer flanges, can consist of a double sleeve or multiple telescoping sleeves. The pipe sleeves and reducer flanges can be custom designed to meet the specific requirements of the cable system, taking into account the cable, carrier pipe, oil-feeding, manhole or joint bay configuration.

Aluminum spacers (spiders) are installed to separate the three shielded cores and to counter the adverse affects of thermo mechanical flexing of the cable/joint interface.

The joints are designed for three paper insulated single conductors, up to 4000 kcmil, to withstand nominal operating pressures of 200 - 300 psig (1,380 – 2,070 kPa) and maximum transient pressures of up to 350 psig (2,415 kPa).

Normal joints are designed in accordance to IEEE Standard 404.

For more information please contact us:

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