

PIONEER Direct-Connection Columns

Pioneer direct-connection columns achieve maximum sensitivity in LC and LC/MS applications by using a novel design that attaches directly to the detector or ion source, eliminating the need for connecting tubing.

By minimizing band spreading, PIONEER columns improve efficiency, sensitivity and resolution for fast separations.

PIONEER columns are available in all Thermo Electron phases from 1.0 to 4.6mm ID in lengths from 30 to 150mm.

