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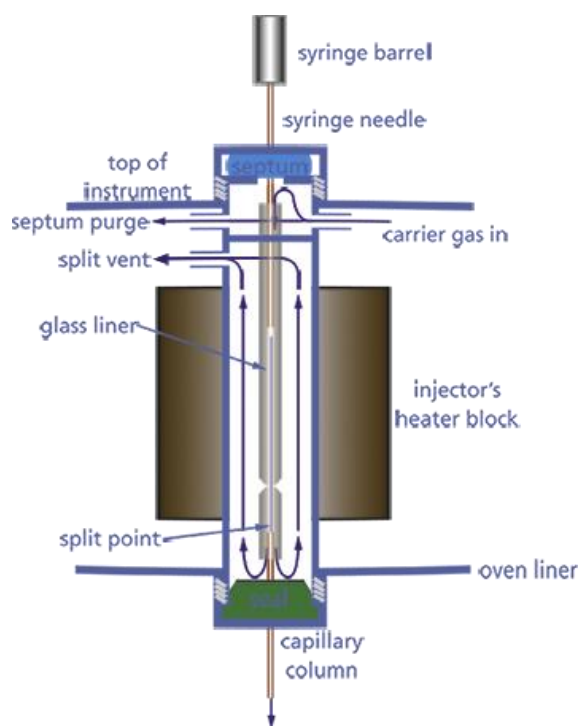
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The sample can be directly introduced into packed or wide bore columns. A flexible injector for affordable solutions.

Split injection is one of the simplest and easiest injection technique to use. The procedure involves injection about 1 μL of liquid sample by a standard 10 μL syringe into a heated injection port. The sample is rapidly vaporized, and only a fraction, usually 1-2%, of the vapor enters the column. The rest of the vaporized sample and a large flow of carrier gas passes out through a “split” valve.

There are several advantages of split injections. The technique is simple, because the operator has only to control the split ratio by opening or closing the split valve. The sample amount introduced to the column is very small (and easily controlled), and the flow rate up to the split point is fast (the sum of both column and vent flow rates). The result is high resolution separations. Another advantage is that “neat” samples can also be introduced, usually by using a larger split ratio, so there is no need to dilute the sample. A final advantage is that “dirty” samples can be introduced by putting a plug of deactivated glass wool in the inlet liner to trap nonvolatile compounds.

One disadvantage is that trace analysis is somewhat limited since only a fraction of the sample enters the column. Consequently, splitless, or PTV techniques are recommended for trace analysis.

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