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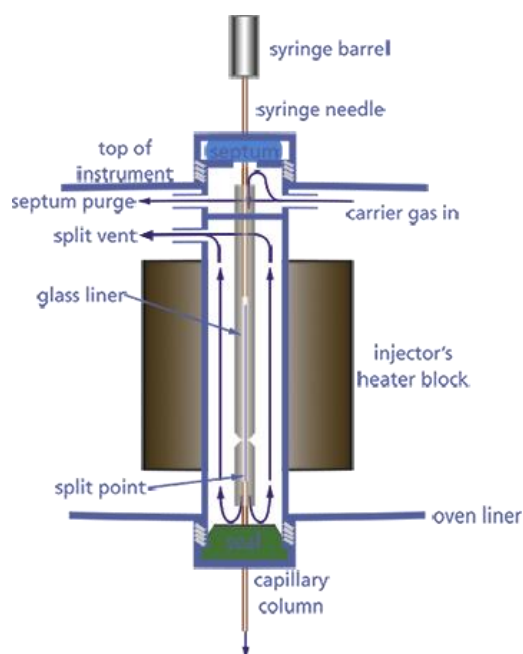
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## Инжектор для хроматографа SL/IN



### Split/Splitless Injector - SL/IN

The most popular GC injector features an outstanding design and thanks to the patented DFC provides excellent precision in split, splitless, and pulsed injection modes of operation. In addition, the post-injection carrier gas save mode is a valuable cost-saving feature. To fulfill the user's analytical needs a series of liner types are available, including liners suitable for SPME analysis.

Split injection is one of the simplest and easiest injection technique to use. The procedure involves injection about 1  $\mu\text{L}$  of liquid sample by a standard 10  $\mu\text{L}$  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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