

# TRACE™ GC Ultra Quick Reference

This Quick Reference card shows the proper syringe needle lengths, column insertion depths, and injector liner types for PTV, split/splitless, and on-column injectors. Column insertion depths for FID, NPD, FPD, PID, ECD and PDD detectors are illustrated adjacent to the ruler. Detector and injector insertion depths are measured from the bottom of the ferrule.

## PTV Injection (a)

Syringe Needle Length 51 mm  
Column Insertion Depth 30 mm

## Split Injection (b)

Syringe Needle Length 51 mm  
Column Insertion Depth 40 mm

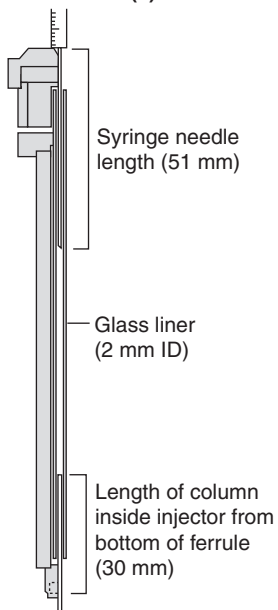
## Splitless Injection (c)

Syringe Needle Length 80 mm  
Column Insertion Depth 64 mm

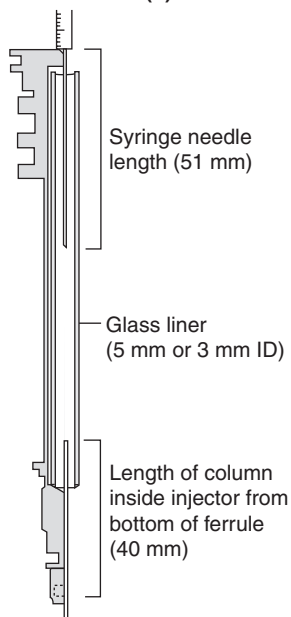
## On-Column Injection (d)

Syringe Needle Length 80 mm

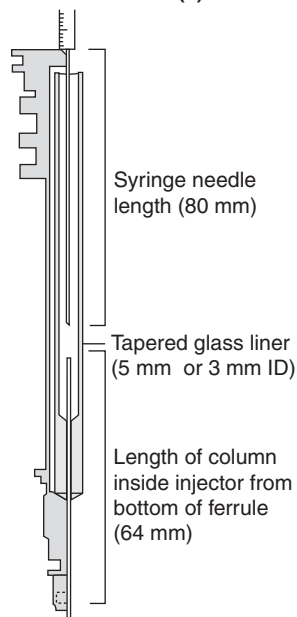
PTV INJECTION (a)



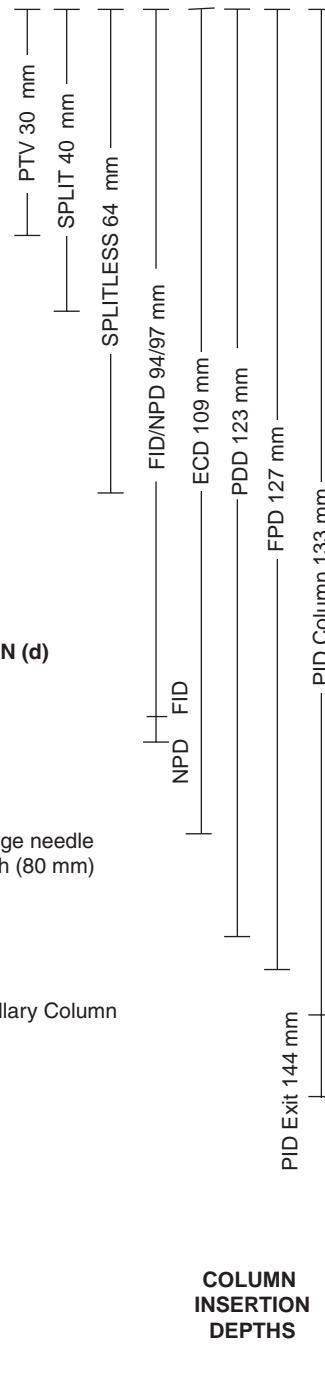
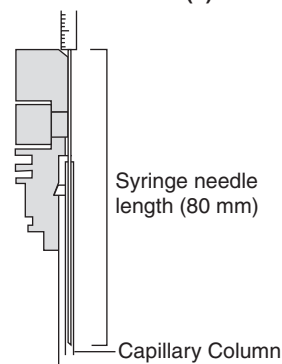
SPLIT INJECTION (b)



SPLITLESS INJECTION (c)



ON-COLUMN INJECTION (d)



**INJECTORS NOT DRAWN TO SCALE**

**COLUMN  
INSERTION  
DEPTHS**

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