

# Multi-Deans Switch

## Shimadzu Multi Dimensional GC/GCMS System

### Superior features

#### No Shift in Retention Time

This new technology significantly reduces the likelihood of fluctuations in the retention times of eluted components.

#### Multi-Heart Cutting – High Reproducibility

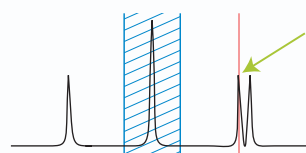
Since the internal surface has been subjected to deactivation processing, a superior level of peak reproducibility is attained, and analysis with a high level of quantitative accuracy is possible.

#### High-Precision Flow Control

The pressure and flow rate of the carrier gas and switching gas are precisely controlled with an Advanced Flow Controller and an Advanced Pressure Controller. This ensures superior reproducibility of analytical conditions.

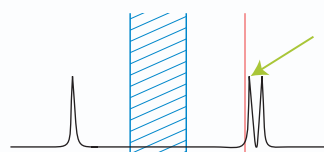
### Deans Switching

Standby (1st DET)



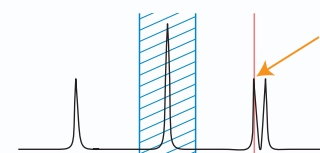
Shift in Retention Time

Cutting (1st DET)



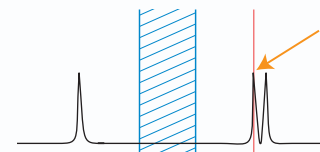
### Multi-Deans Switching

Standby (1st DET)

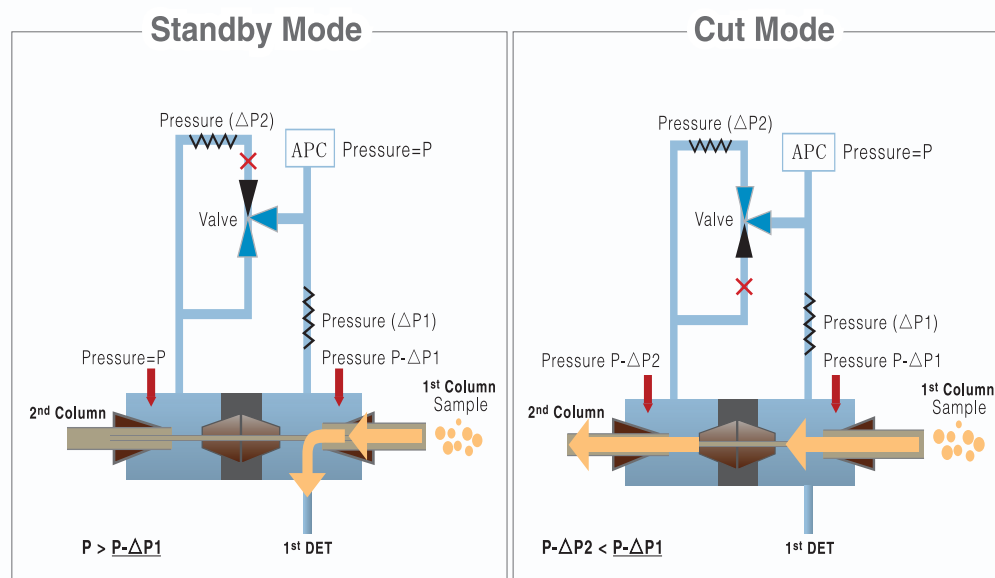
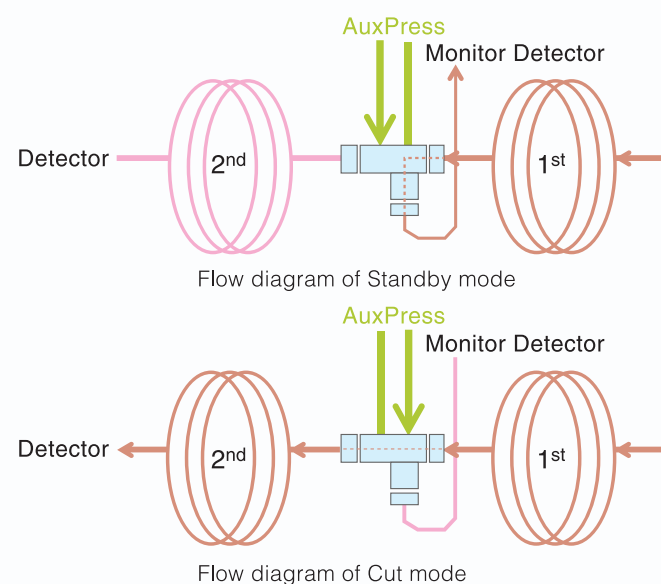


No Shift in Retention Time

Cutting (1st DET)



### Comparison between Traditional Deans Switching and Multi-Deans Switching



### Mechanism of Multi-Deans Switching