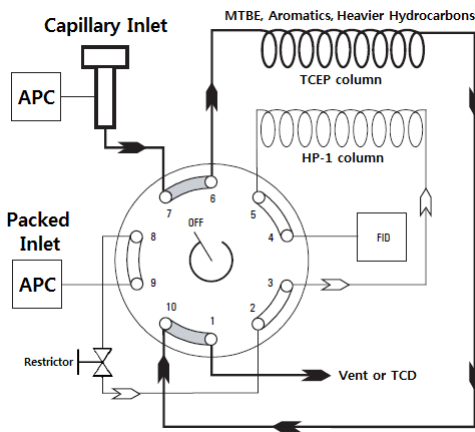


# ASTM Method D5580

## Aromatic Analysis in Gasoline

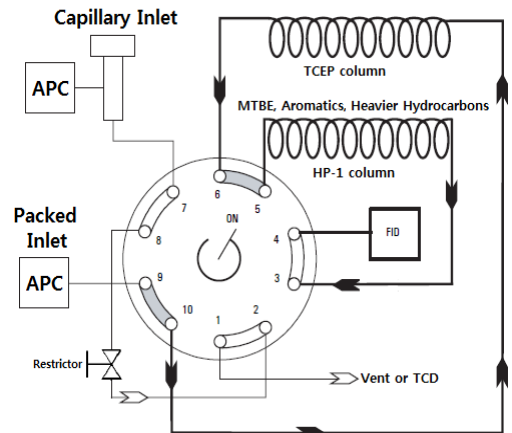
### 1. Valve Configuration



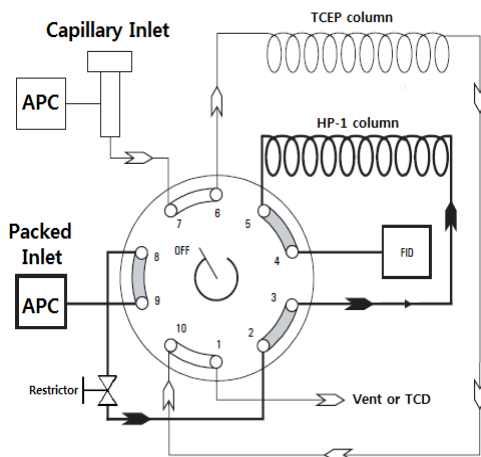
1<sup>st</sup> step : After sample is injected, Non Aromatic components in sample is vented passing through TCEP column.



2<sup>nd</sup> step : Benzene, Toluene, Ethyl benzene, Xylene, C9+ components are separated by HP-1 column with backflushed TCEP



3<sup>rd</sup> step : C9+, Heavier hydrocarbon left in HP-1 column are vented



## ASTM Method D5580

### Aromatic Analysis in Gasoline

#### 2. Analytical Condition

##### YL 6500 Series

Oven : 60°C (for 6 min)- temp-programed 2 °C/min-120 °C(for 5 min)

Column : HP-1 (30m\*0.53mm\*2.65um)

TCEP (560mm \* 0.38mm id, 20% on chromosorb PAW 80/100)

Carrier gas : He

Injector : Capillary 200°C, 10ml/min(SR 11:1) / Packed 10ml/min

Detector : FID 250°C, Air 300/H<sub>2</sub> 35/Mkup 5ml/min, Range=4

TCD 200°C, Ref30/Mkup10, Sen=9, Range=0

Injection Volume : 1.0ul (Liquid), Valve 0.7min on/ 15min off

#### 3. Chromatogram

