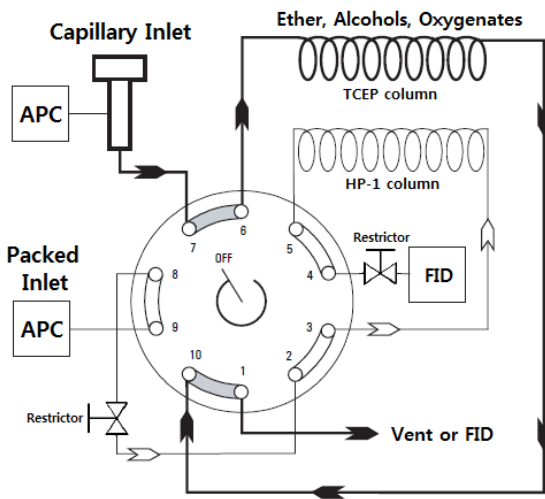


ASTM Method D4815

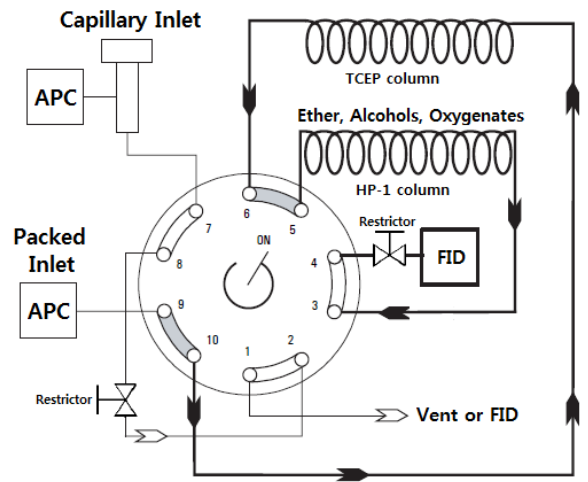
Oxygenates Analysis in Gasoline

1. Valve Configuration

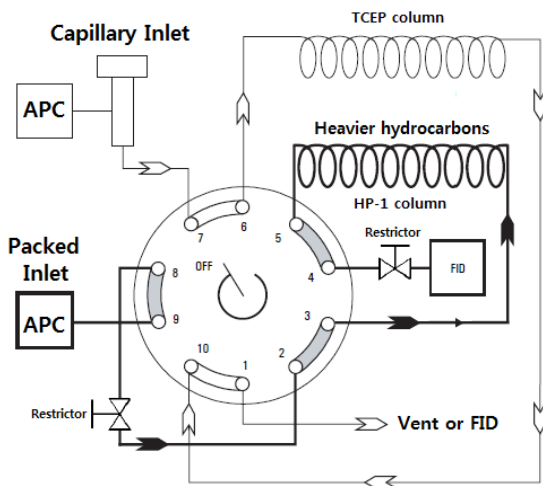


1st step : After sample injection, light hydrocarbon components in sample will be vented after passing through TCEP column
heavy hydrocarbon & polar compounds stay in the TCEP column

2nd step : Alcohol & Ether are separated by HP-1 column with back-flushing TCEP column



3rd step : C9+, Heavy hydrocarbons in HP-1 is vented



ASTM Method D4815

Oxygenates Analysis in Gasoline

2. Analytical Condition

YL 6500 Series

Oven : 60°C (for 6.8 min)- temp-programed 8 °C/min-120 °C(for 10 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 230°C, 3.5ml/min(SR 20:1) / Packed 10ml/min

Detector : FID 250°C, Air 300/H₂ 35/Mkup 5ml/min

Injection Volume : 1.0ul (Liquid), Valve 0.2min on/ 6.6min off (Valve Temp 100°C)

3. Chromatogram

