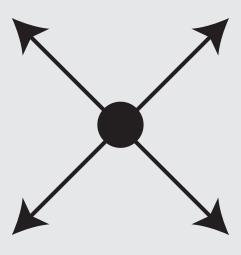Spherical flame

Flow rate: M

Hot inert (burnt) gas
$Y_F = 0$

Unburnt reactive gas
$Y_F = Y_{Fu}$ $T = T_u$