
Gas
or Solid
Acceleration
Potential
0 – -15KV
Focus Supply
0 – +14KV
Vertical
Deflector
0 – +350V
Velocity
Filter
Ion Source
Einzel Lens
E Field 0 - 28,000 V/m
B Field 0 - 3,000 Gauss
8 symmetric Guard Rings (shims)
MCP
Phosphor
Screen
Fibre-optic
Bundle
0 – -1000V
0 – +5000V
Mass Selection
Aperture
~1mm
Fisher Slit
Attenuator
Horizontal and
Vertical Deflectors
0 – +350V
Beam Defining
Aperture
Apertures:
2mm, 0.6mm and 0.2mm
S
D
SET
D
D
SiO2
Si
Sample
Velocity Filter Drift Length