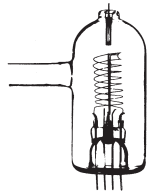


GLASS ION GAUGE VACUUM SENSOR TUBES

FILAMENTS & BULBS EXPLAINED



10 milliamps

I

Iridium Filament:

Thoria coated single filament in each tube

- "Non-burnout" type; occasional exposure to atmosphere during operation will not damage or shorten filament life
- Filament easily poisoned by back-streaming of oil from diffusion pump
- 4-pins



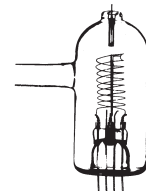
10 milliamps

C

Coated Bulb:

Platinum film on the inside

- Coating prevents non-uniform static charge inside the bulb
- Helpful only at pressures of 10^{-4} torr range and up
- Iridium filament
- 4-pins



8 milliamps

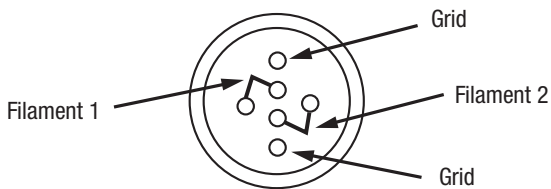
T

Tungsten Filament:

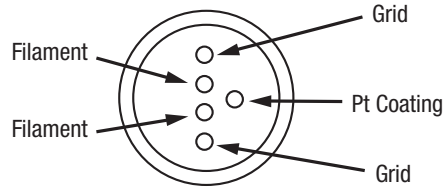
Two filaments in each tube

- Instant burnout occurs if let up to air while hot
- Preferred in vacuum system with heavy backstreaming of oil from diffusion pump
- 6-pins

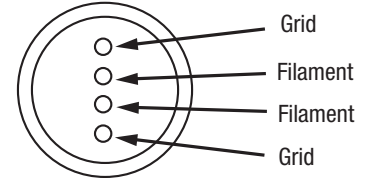
FILAMENT / PIN PATTERNS



- **Tungsten Filament Pin Pattern** fits the "old-style" connectors but requires a wire "jumper" from D to E

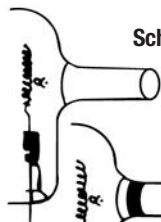


- Broad Range **Iridium Filament Pin Pattern** "old-style" connectors but requires a ground connection to the Pt Coating



- **Iridium Filament Pin Pattern** is the same for all manufacturers

TUBE & TUBULATIONS EXPLAINED



Schott™ Glass

N

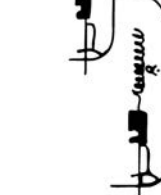
- Lowest cost model



Pyrex™ Glass

P

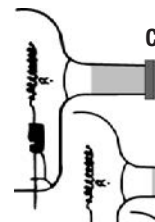
- For sealing tube to Pyrex™ glass vacuum system



Kovar™ to Glass

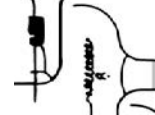
K

- Required for welding to flanges
- Stronger tubulation
- More certain to be round



CFF-133

Mini-Conflat®-type
1.33" O.D. Rotatable



CFF-275

Conflat®-type
2.75" O.D. Rotatable



KF25

Qwik Flange



KF40

Qwik Flange