

Amphenol

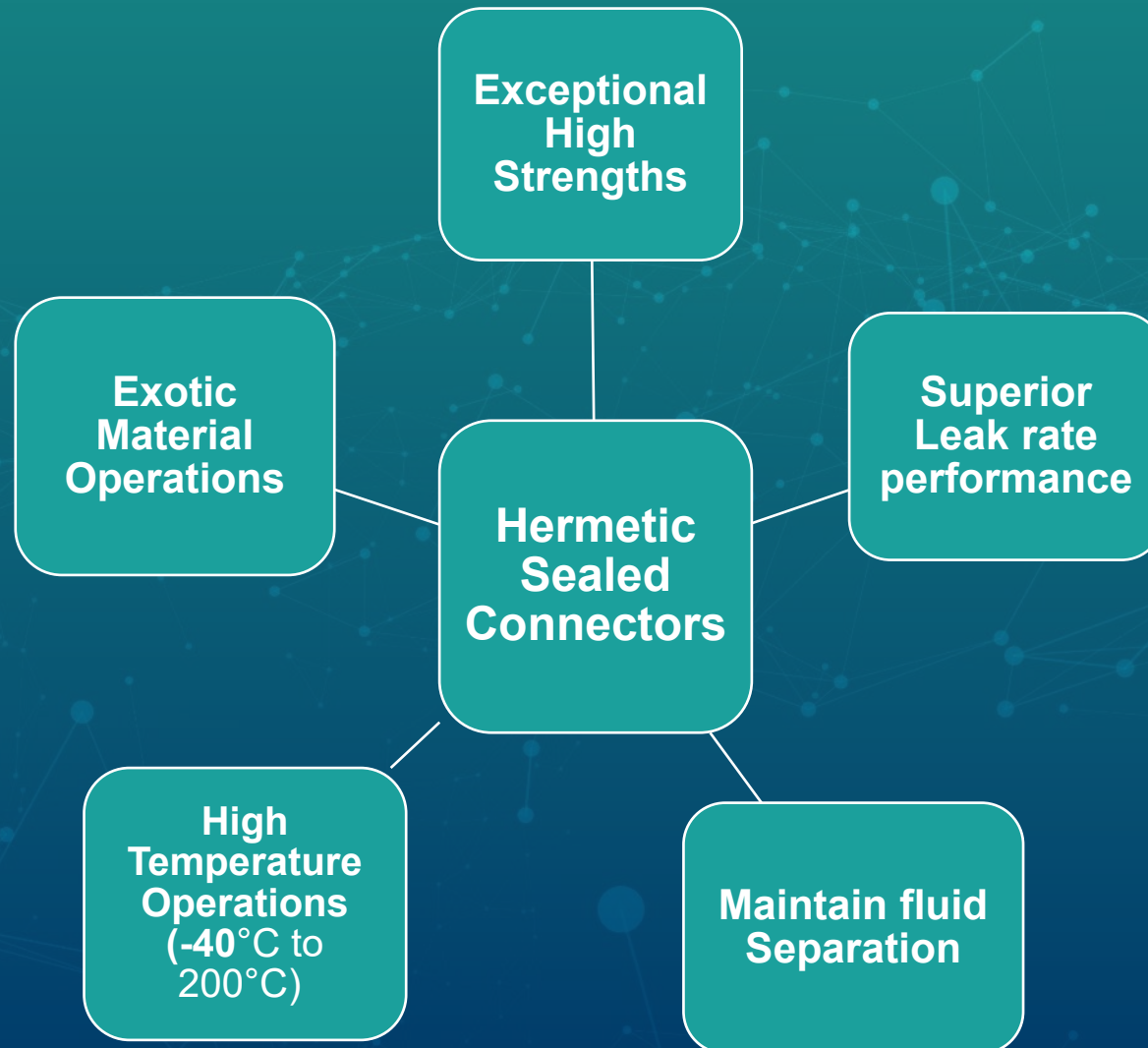
COMMUNICATIONS SOLUTIONS

HERMETIC CONNECTORS



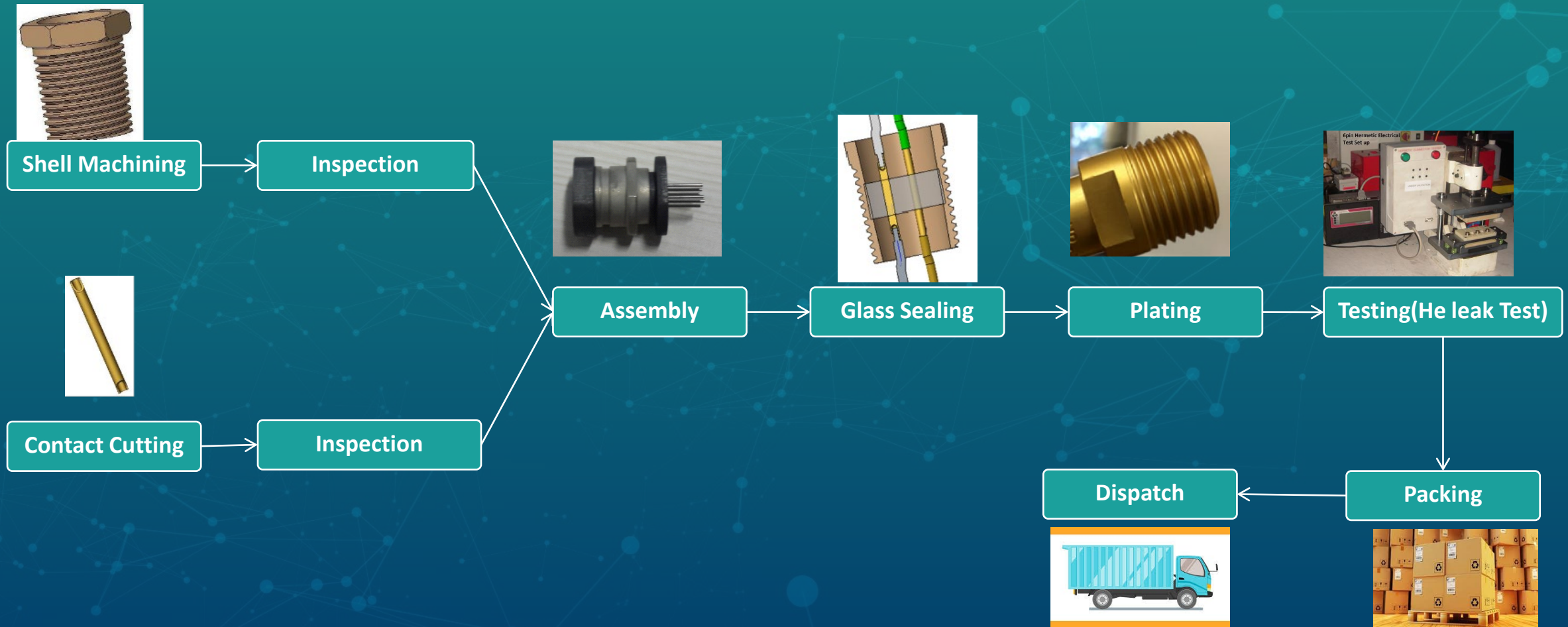
- Hermetic connectors are designed to prevent the ingress of air, gases and other liquids into the vacuum-sealed connector.
- Most hermetic connectors are glass sealed because the glass creates a rigid form for the metal shell to compress against. This compression creates the hermetic seal. The glass is bonded to and supports the contacts.
- ACPI also supports Hermetic cable assemblies as per custom requirements.





HERMETIC CONNECTORS

Process Flow

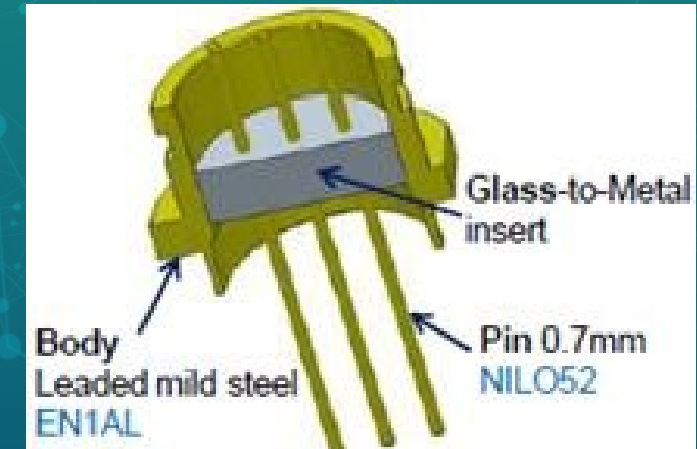


TECHNICAL INFORMATION

- **MATERIAL**
 - Housing : Leaded MS or SS
 - Insulator : Glass, Epoxy
 - Contacts : Nilo 48 - 52
 - Contact Finish : Gold plating over Nickel

ELECTRICAL PERFORMANCE

- Current Rating : 3 A per contact max
- Contact Resistance : 20 m Ω
- Dielectric Withstanding Voltage : 1000 Vrms
- Insulation Resistance : 1000M Ω @ 500 V



Flow meters

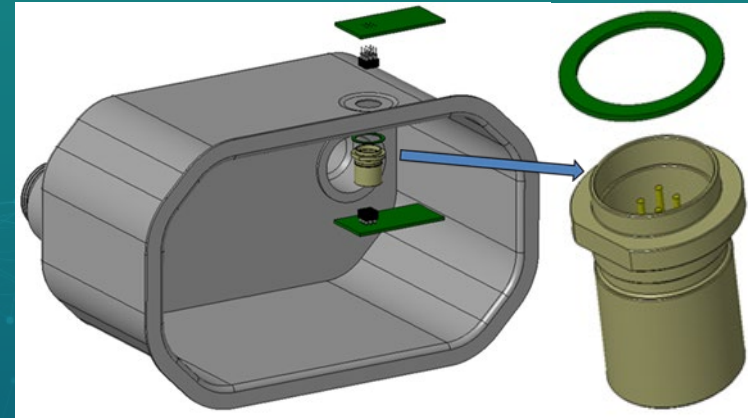
- Gas flow meters
- Water flow meters

Medical Applications

- X-ray Machines

Sensors

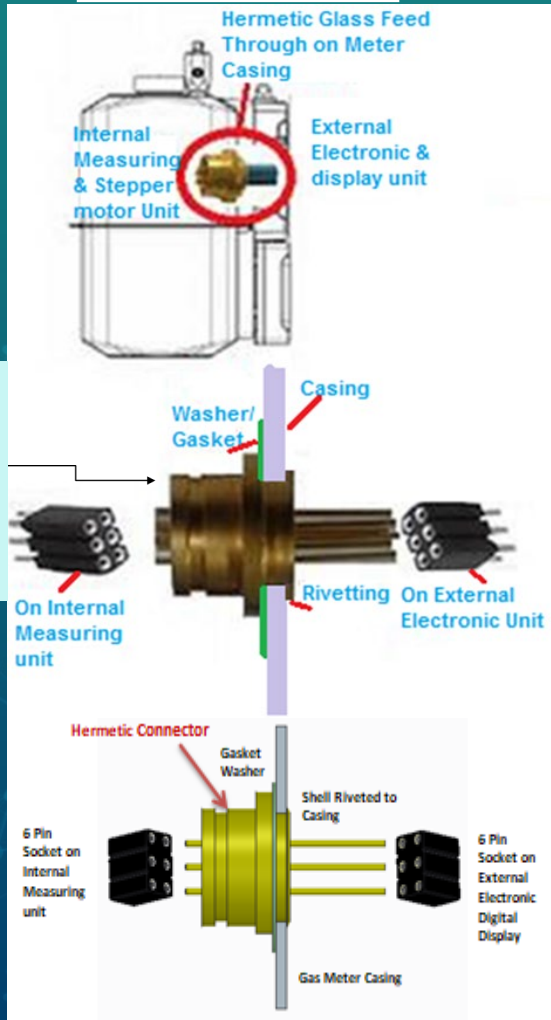
- LIDAR (Camera sensors)
- Automotive sensors (automatic fuel pumps)



Sealing
Gasket

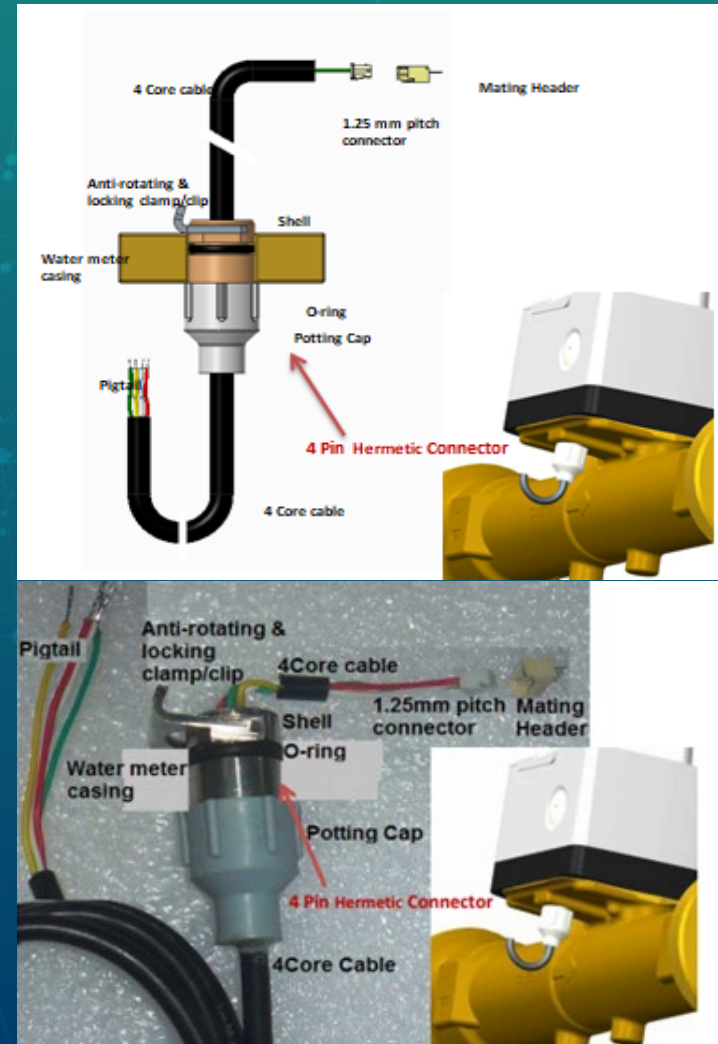
Hermetic
connector

Gas flow Meter

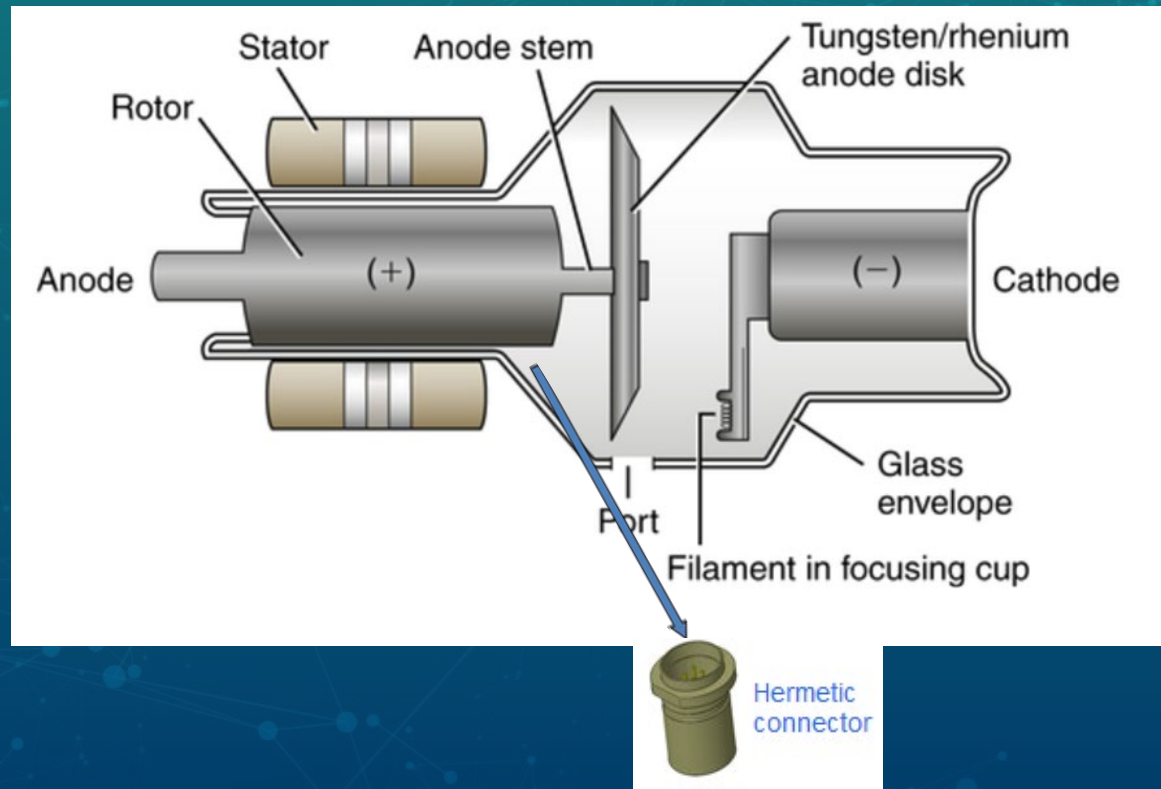


Glass Feed Connector (Hermetic Connector)

Water flow Meter



- Hermetic connector with cable assembly will be used for rotating anode in CT Scan machine used in X-ray tubing. This prevents in leaking of cooling oil from the inside environment.



THANK YOU