

# DynaProbe<sup>®</sup> Sensor Design Explanation

DYNAPROBE

SALES  
BULLETINS

- **Patented solid state reference half cell is primary component**

- Liquid junction fabricated from a unitary core
- Numerous pathways saturated with conductive electrolyte
- Permits continuous electrochemical contact with process

- **Immobilized electrolyte does not deplete or dilute**

- Eliminates electrolyte replenishment
- Eliminates need to pressurize reference half cell

- **IonTraps<sup>™</sup> prolong sensor service life**

- Series of overlapping baffles
- Molded from ion-impermeable material
- Provides multiple dead-end trap zones
- Detains and impedes transport of contaminant ions

**U.S. Pat. 5,147,524**

Manufacturers of pH & D.O. Sensors for Science and Industry

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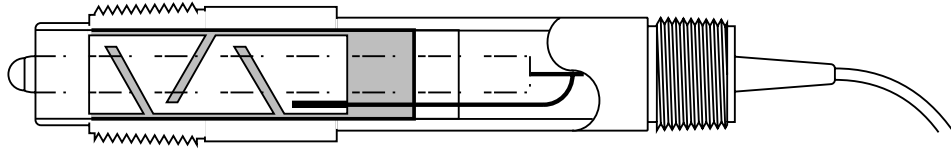
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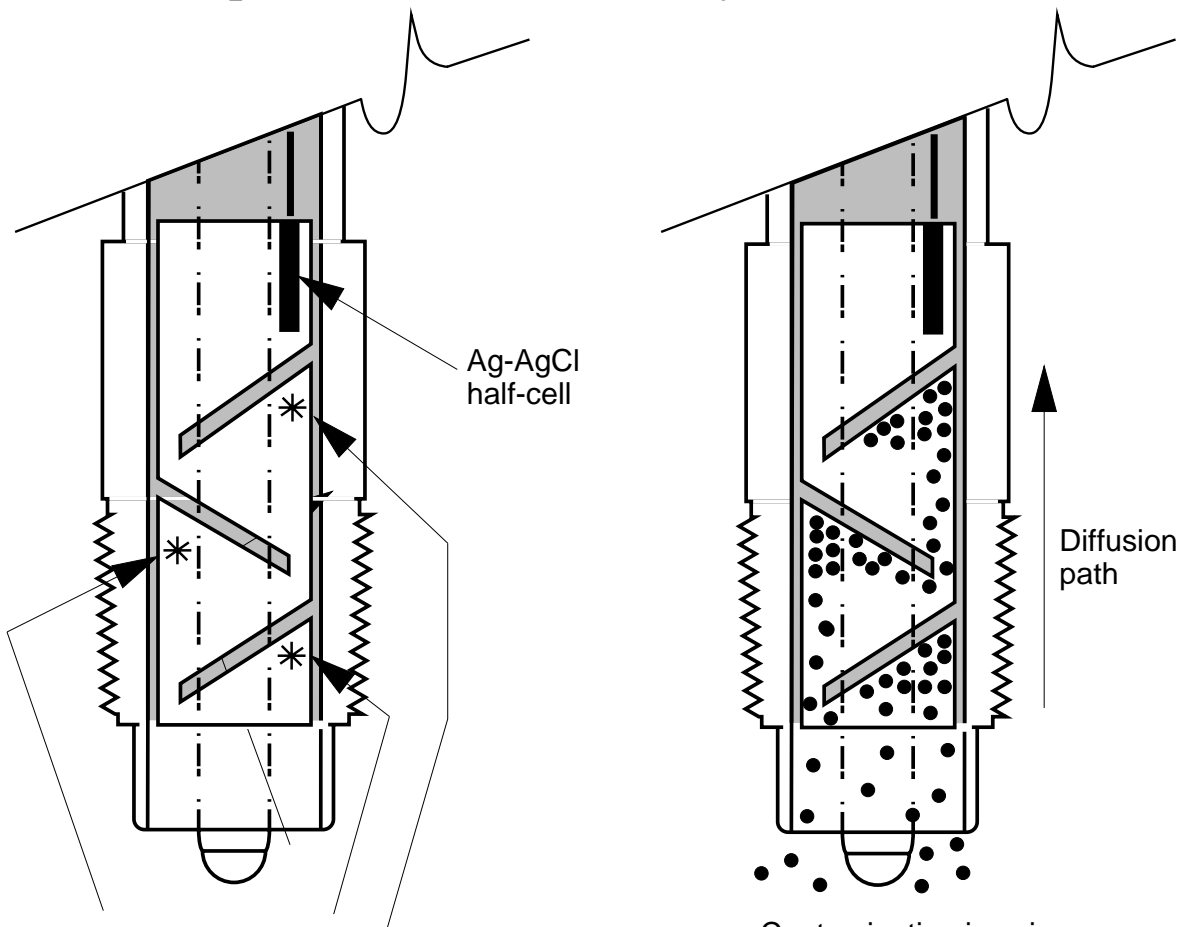


# DynaProbe<sup>®</sup> pH Sensor Design Ion Trap Explanation

## Model ST873 Cut-Away View



## Exploded Views of Cut-Away Section



Ag-AgCl  
half-cell

Diffusion  
path

### Ion Traps

Contaminating ions are trapped and retained here as they diffuse into the reference cell.

Contaminating ions in the sample stream

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