

MODEL P68 FOR ULTRA CLEAN AND METAL ION FREE APPLICATIONS

USE IN ALL PLASTIC OR PLASTIC LINED TANKS

TS P68

ALSO USEFUL FOR EXTREMELY CORROSIVE ACID, CAUSTIC, AND SALT SOLUTIONS

ADVANTAGES FOR LIQUIDS AND INTERFACES

- Only virgin Polypropylene or Kynar® plastic is in contact with the process fluid
- Thick plastic jacketing is welded in place
- No cracks, joints, crevices to collect contaminants and biological agents
- Built-in ground reference rod; does not require a metal tank wall
- For industrial processes which are extremely corrosive such as hydrofluoric acid plants, bromine condensers, and plating solutions
- Plastic surfaces are flame smoothed for the best available surface

APPLICATION

The P68 sensing probe has all plastic wetted parts. It is designed for use in processes and storage tanks where the possibility of contamination cannot be allowed. Some process examples are etchants, high purity plating solutions, and ferric chloride.

The P68 also finds application in industrial process systems which are extremely corrosive. Kynar® (PVDF) is very inert and unaffected by almost all strong acids and bases below a temperature of 275 °F (135°C). Applications include hydrofluoric acid level, refinery hydroformers, bromine condensers, chlorine generation cells, and radioactive wastes.

The P68 is a heavy-duty rugged sensing probe with jacketed ground reference rod and provides high reliability in difficult applications.

SPECIFICATIONS

Working Pressure: -15 to +300 PSIG (-1 to +21 BAR)

Working Temperature: -40 to +300°F (-40 to +150° C)

Note that W.P. decreases as temperature increases

Insertion Length: Up to 6 feet (2 meters).

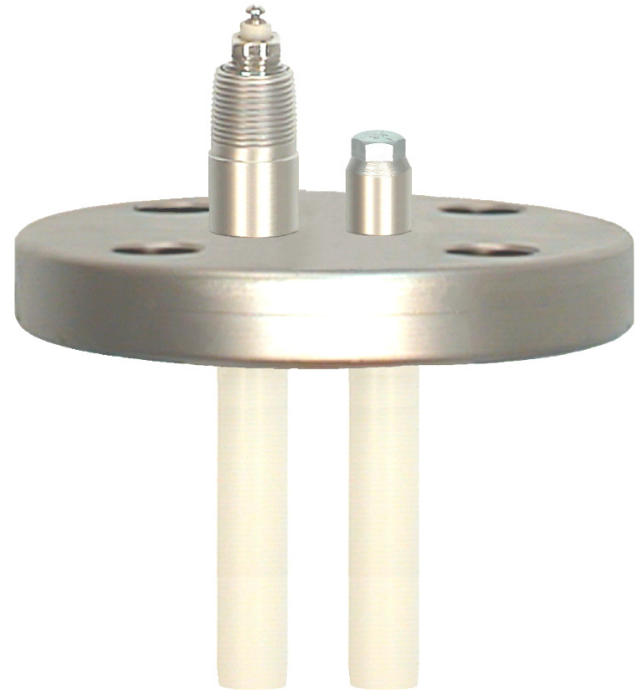
Process Connection: 3"/150 # R.F. ANSI minimum Flange size; other styles and sizes optional.

Wetted Parts: Kynar® (PVDF - Polyvinylidene Fluoride), or Polypropylene (when solvents are present).

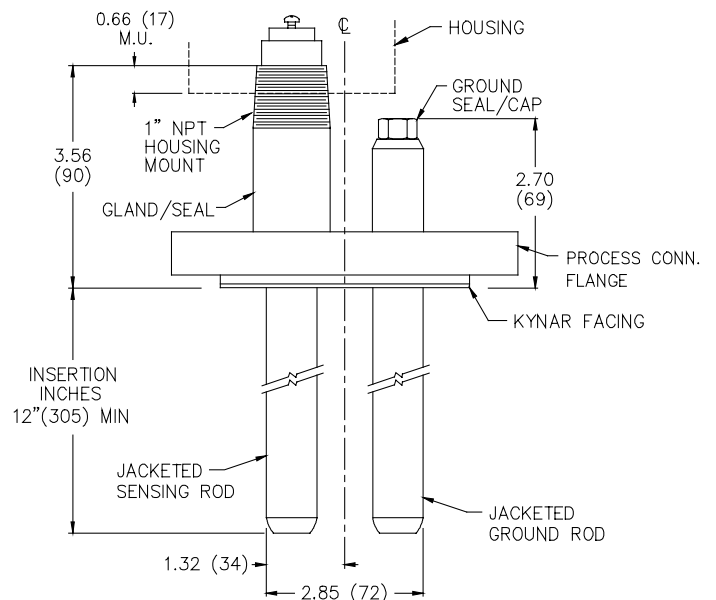
Body and Support Parts: 316 stainless steel basic

Electronic Modules: Compatible with all models.

Process Temperature Sensing: Optional -125 to 250°F (-85 to +122°C); 4-20 mA output signal over a second 2 wire signal loop

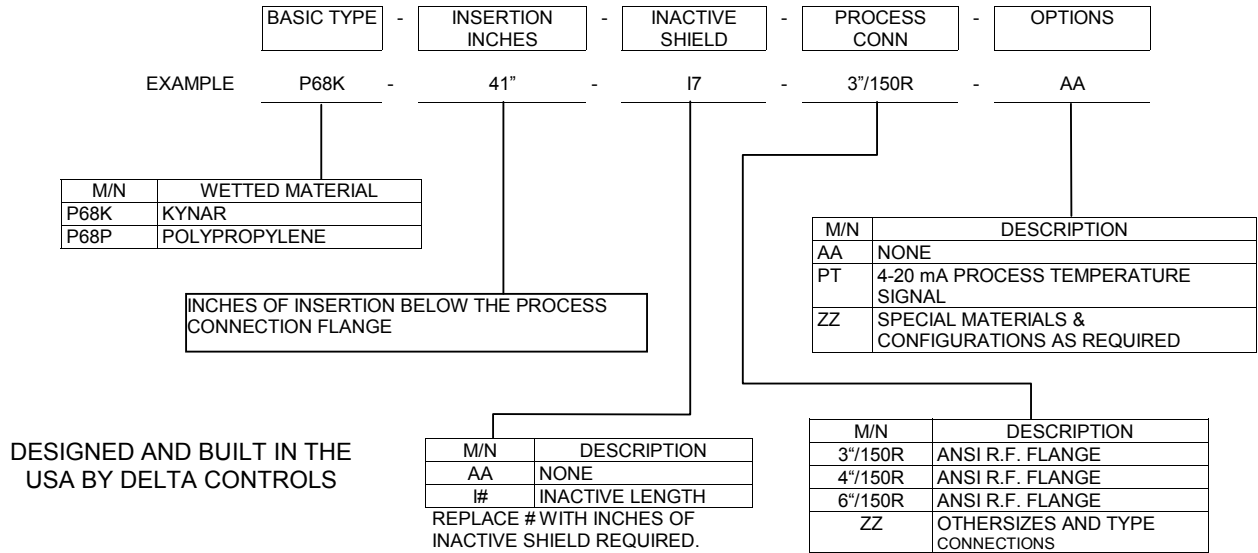


OUTLINE DIMENSIONS



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MODEL NUMBERING SYSTEM

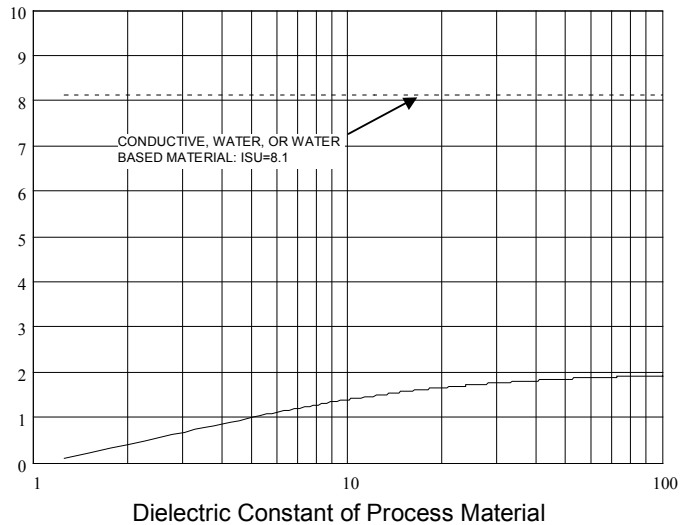
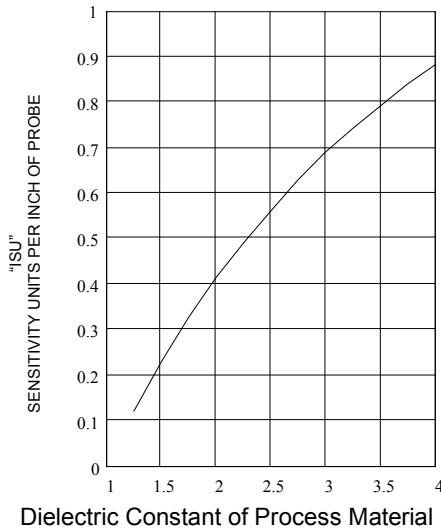


ESTIMATING PROBE PERFORMANCE

STEP # 1 Determine "BSU", which is the total Sensing Unit equivalent when no material is covering the sensing probe.

- (A) BASIC "SU" DUE TO SEAL/BODY/TEMP EXTENSION = 183
 - (B) INCHES SENSING PROBE INSERTION X 3.0 = _____
 - (C) INCHES INACTIVE SHIELD X 22.0 = _____
 - (D) INCHES CABLE FOR REMOTE MODULE X 4.5 = _____
- "BSU" TOTAL = _____

STEP# 2 Determine "ISU", which is the quantity of Sensing Unit change caused by a 1 inch change in the elevation of the process material covering the sensing probe, "ISU" = Read from the graph below



STEP # 3 Insert "BSU" and "ISU" (determined above) into the formulas shown in Application Note # PROB-198; "FORMULAS FOR MODELING AND PERFORMANCE TESTING". Verify that the selected probe and electronics module will meet the needs of the application and provide the expected results.

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