1. Dimensions are in inches.
NOTE:
1. DIMENSIONS ARE IN INCHES

IMMERSION MOUNT - STANDARD

NYLON STRAIN RELIEF

PVC FITTING

PVC JUNCTION BOX

1/2 CPVC SCHEDULE 80 PIPE

CLEARANCE REQUIRED FOR PROBE REMOVAL

NOTE:
1. DIMENSIONS ARE IN INCHES
NOTE:
1. DIMENSIONS ARE IN INCHES

CENTER OF HAND RAIL TO CENTER OF POLE

POLE & PROBE SWIVEL INTO PROCESS OR ONTO SERVICE SUPPORT BRACKET

CLEARANCE REQUIRED FOR DIGITAL PROBE REMOVAL

PIECE IS ADJUSTABLE IN CLAMP FOR FLUID LEVEL

PIPE IS ADJUSTABLE IN CLAMP FOR FLUID LEVEL
NOTE:
1. DIMENSIONS ARE IN INCHES
2. MAXIMUM RATED PRESSURE: 50 PSI (3.5 BAR); MAXIMUM RATED TEMPERATURE: 122°F (50°C)

3-WAY BRASS AIR ASSIST VALVE WITH FEMALE 1/4" NPT 2 PLACES

25.00 MAX. INSERTED SENSOR

35.50 MAX. EXTRACTED SENSOR TO CLOSE BALL VALVE

56.00 MIN. CLEARANCE REQUIRED TO REMOVE PROBE FROM OR INSTALL PROBE IN DEVICE

4.50 MAX. SENSOR INSERTION DEPTH

INSERTION MOUNT MH736M4MZ (CPVC)

NYLON STRAIN RELIEF WITH NEOPRENE BUSHING

1-1/2" NPT CLOSE NIPPLE
NOTE:
1. DIMENSIONS ARE IN INCHES

3-WAY BRASS AIR ASSIST VALVE WITH FEMALE 1/4" NPT
2 PLACES

Ø 3.51 LOCKING COLLAR

NYLON STRAIN RELIEF WITH NEOPRENE BUSHING

1-1/2" STAINLESS STEEL BALL VALVE

25.00 MAX.
INSERTED SENSOR

35.50 MAX.
EXTRACTED SENSOR
TO CLOSE BALL VALVE

56.00 MIN.
CLEARANCE REQUIRED TO REMOVE
PROBE FROM OR INSTALL PROBE IN DEVICE

4.50 MAX.
SENSOR INSERTION DEPTH

5.91
VALVE HANDLE PROTRUDES
PAST VALVE BODY
WHEN IN THE CLOSED POSITION

INSERTION MOUNT MH716M4MZ (SS316)
Notes:
1. Material:
   Tee - 316 Stainless Steel
   Clamp - 304 Stainless Steel

2. No gaskets provided with this kit. Probe gasket comes with probe.

3. Clamp & Tee conform to provisions of 3-A Sanitary Standards.

4. Dimensions are in inches

Sanitary Mount MH01858SZ (SS316 Tee)

2.00 Clearance required for sensor removal

Temperature and Pressure Ratings for Conductivity

Probes with Stainless Steel Sanitary Mounting Hardware

- With Polypropylene Conductivity Sensor
- With PVDF Conductivity Sensor
- With PFA Teflon Conductivity Sensor

NOTES:

1. Material:
   Tee - 316 Stainless Steel
   Clamp - 304 Stainless Steel

2. No gaskets provided with this kit. Probe gasket comes with probe.

3. Clamp & Tee conform to provisions of 3-A Sanitary Standards.

4. Dimensions are in inches
**Specifications**

**pH Sensors**

**Wetted Materials**
PEEK® or Ryton® body, salt bridge of matching material with Kynar® (PVDF) junction, glass process electrode, titanium ground electrode, and Viton® O-ring seals

(pH sensor with optional HF-resistant glass process electrode has 316 stainless steel ground electrode, and perfluoroelastomer wetted O-rings; consult factory for other available wetted O-ring materials)

**Operating Temperature Range**
23 to 203°F (-5 to +95°C)

**Pressure/Temperature Limits**
(Without mounting hardware)
100 psi at 221°F (6.9 bar at 105°C)

**Maximum Flow Rate**
10 ft. (3m) per second

**Built-in Temperature Element**
NTC 300 ohm thermistor for automatic temperature compensation and analyzer temperature readout

**Measuring Range**
0-14 pH

**Sensitivity**
Less than 0.005 pH

**Stability**
0.03 pH per 24 hours, non-cumulative

**Maximum Transmission Distance**
3000 ft. (914 m)

**Sensor Cable (integral)**
5 conductor (plus two isolated shields) cable with XLPE (cross-linked polyethylene) jacket; rated to 302°F (150°C); 15 ft. (4.5 m) standard length

**ORP (Redox) Sensors**

**Wetted Materials**
PEEK® or Ryton® body, salt bridge of matching material with Kynar® (PVDF) junction, glass supported platinum (or gold) process electrode, titanium ground electrode, and Viton® O-ring seals

**Operating Temperature Range**
23 to 203°F (-5 to +95°C)

**Pressure/Temperature Limits**
(Without mounting hardware)
100 psi at 221°F (6.9 bar at 105°C)

**Maximum Flow Rate**
10 ft. (3m) per second

**Built-in Temperature Element**
NTC 300 ohm thermistor for analyzer temperature readout only—no automatic temperature compensation necessary for ORP measurement

**Measuring Range**
-1500 to +1500 mV

**Sensitivity**
Less than 0.5 mV

**Stability**
2mV per 24 hours, non-cumulative

**Maximum Transmission Distance**
3000 ft. (914 m)

**Sensor Cable (integral)**
5 conductor (plus two isolated shields) cable with XLPE (cross-linked polyethylene) jacket; rated to 302°F (150°C); 15 ft. (4.5 m) standard length
**Engineering Specifications**

**PEEK Sensor**

1. The pH or ORP sensor shall be of Differential Electrode Technique design using two electrodes to compare the process value to a stable internal reference standard buffer solution. The standard electrode shall have non-flowing and fouling-resistant characteristics.

2. The sensor shall have a hex shaped body to facilitate mounting, and shall be constructed of PEEK material for exceptional chemical resistance and mechanical strength. This material shall enable the sensor to be installed in metal fittings without leakage usually caused by heating and cooling cycles when dissimilar materials are threaded together.

3. The sensor shall have a:
   a) Convertible body style featuring 1-inch NPT threads on both ends to mount into a standard 1-inch pipe tee, into a GLI adapter pipe for union mounting with a standard 1-1/2 inch tee, or onto the end of a pipe for immersion into a vessel.
   b) Insertion body style featuring 1-inch NPT threads only on the cable end to mount into a GLI ball valve hardware assembly, enabling the sensor to be inserted into or retracted from the process without stopping the process flow.
   c) Sanitary body style featuring an integral 2-inch flange to mount into a GLI 2-inch sanitary tee. The sanitary body style sensor shall include a special cap and EDPM compound gasket for use with GLI sanitary hardware.

4. The built-in electronics of the sensor shall be completely encapsulated for protection from moisture and humidity.

5. The sensor shall have a built-in preamplifier to enable the signal to be transmitted up to 3000 ft. (914 m) with standard cabling.

6. The sensor signal shall have an integral temperature sensor to automatically compensate measured values for changes in process temperature.

7. The sensor shall include a titanium ground electrode (standard) to eliminate ground loop currents in the measuring electrodes.

8. The sensor shall be Hach Company GLI Model PDXP-series for pH measurement or GLI Model RDXP-series for ORP measurement.

**Ryton Sensor**

1. The pH or ORP sensor shall be of Differential Electrode Technique design using two electrodes to compare the process value to a stable internal reference standard buffer solution. The standard electrode shall have non-flowing and fouling-resistant characteristics.

2. The sensor shall have a hex shaped body to facilitate mounting, and shall be constructed of Ryton® material for exceptional chemical resistance and mechanical strength. This material shall enable the sensor to be installed in metal fittings without leakage usually caused by heating and cooling cycles when dissimilar materials are threaded together.

3. The sensor shall have a convertible body style featuring 1-inch NPT threads on both ends to mount into a standard 1-inch pipe tee, into a GLI adapter pipe for union mounting with a standard 1-1/2 inch tee, or onto the end of a pipe for immersion into a vessel.

4. The built-in electronics of the sensor shall be completely encapsulated for protection from moisture and humidity.

5. The sensor shall have a built-in preamplifier to enable the signal to be transmitted up to 3000 ft. (914 m) with standard cabling.

6. The sensor signal shall have an integral temperature sensor to automatically compensate measured values for changes in process temperature.

7. The sensor shall include a titanium ground electrode (standard) to eliminate ground loop currents in the measuring electrodes.

8. The sensor shall be Hach Company GLI Model PD1R1 for pH measurement or GLI Model RD1R5 for ORP measurement.