

OFFICIAL MODEL-SPECIFIC GUIDE

Installation Instructions

396P-08-10-55

Rosemount 396P pH sensor · insertion, submersion and flow-through mounting

01 VERIFIED CONFIGURATION

Sensor output	No preamplifier; integral 10 ft (3.05 m) cable
Measuring electrode	pH GPLR general-purpose low-resistivity glass
Transmitter compatibility	Rosemount 56, 1056, 1057, 1066 and 5081
Process connection	1 in (25 mm) MNPT front and rear threads
Required orientation	At least 10 degrees above horizontal in flow-through service

02 DOCUMENTED INSTALLATION SCOPE

- Use the dimensional drawing to confirm clearance, process threads and sensing-end orientation.
- Use the official flow-through arrangements and keep the sensor at least 10 degrees above horizontal.
- Confirm suffix 08, electrode code 10 and transmitter code 55 before connecting the integral cable.

INSTALLATION CHECK

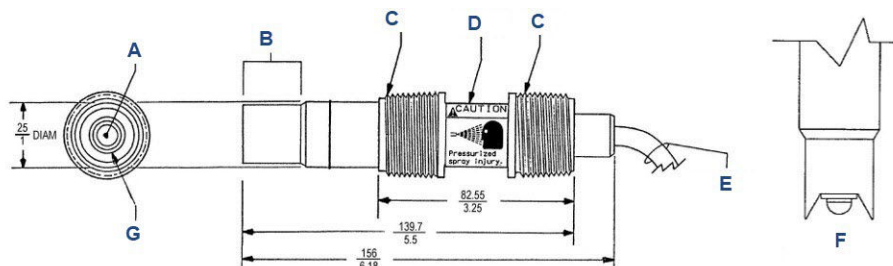
Match the complete sensor suffix, process fitting, cable and transmitter before installation.

DIMENSIONAL AND PROCESS-CONNECTION DRAWING

Rosemount 396

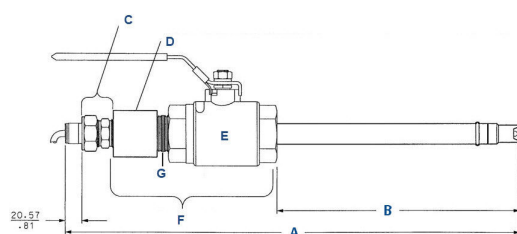
December 2024

Figure 4: Rosemount 396P/396PVP Dimensional Drawing



- A. Electrode
- B. Reference junction
- C. 1 in (25 mm) male national pipe thread (MNPT)
- D. 1 in (25 mm) wrench opening
- E. Cable or V connector (not shown)
- F. Sensing end tip, slotted tip option
- G. Solution ground

Figure 5: Retraction Assembly (PN 23240-00) and Process Connector (PN 23166-00 or 23166-01) with Rosemount 396R pH Sensor



- A. Dimension (see [Table 3](#))
- B. Dimension (see [Table 3](#))
- C. Process connector (PN 23166-00 or 23166-01) (not included with ball valve kit)
- D. 1 1/2-in (38 mm) to 1-in (25mm) reducer (PN 9310104)
- E. Ball valve (PN 9340065)
- F. Ball valve kit (PN 23240-00)
- G. 1 1/2-in close nipple (PN 9310102)

Note

Dimensions are in millimeters/inches.

Table 3: Rosemount 396R Insertion Lengths for Retraction Assembly 23240-00

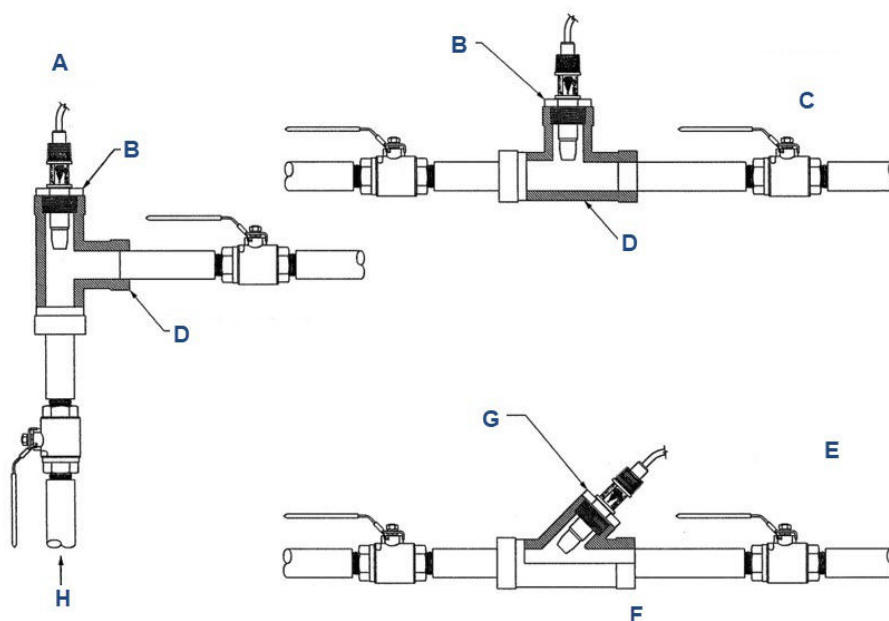
Sensor tube length	A	B (maximum)
21-in (533 mm)	23.1-in (587 mm)	12.9-in (328 mm)
36-in (914 mm)	37.58-in (954.5 mm)	27.4-in (696 mm)

TYPICAL FLOW-THROUGH INSTALLATION

Rosemount 396

December 2024

Figure 8: Typical Flow-through Installation



Sensor must be installed at least 10 degrees above the horizon.

- A. Angle flow shown
- B. 1.5 in (38 mm) x 1 in (25 mm) reducing bushing
- C. Straight flow shown
- D. 1.5 in (38 mm) pipe tee with reducing bushing PN 2002011
- E. Pipe "Y" installation shown
- F. 1.5 in (38 mm) pipe "Y" (by others)
- G. 1.5 in (38 mm) x 1 in (25 mm) reducing bushing PN 9330044
- H. Flow