

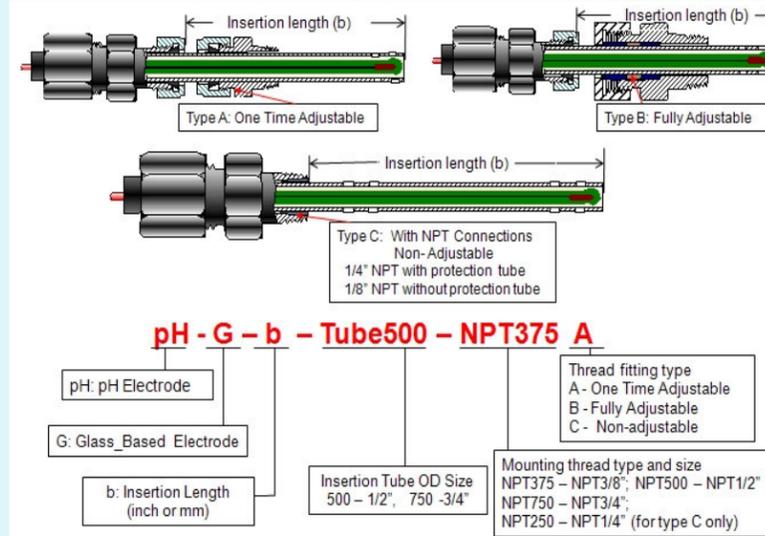
## Medium-Temperature and High-Pressure Glass-Based pH Probes

Our patent-pending glass-based medium-temperature and high-pressure pH electrodes are divided into three types (A, B, and C).

**Type A or B** high pressure pH electrode has a compression fitting with NPT\* thread and an insertion tube. The fitting of **Type A** has a metal seal that will lock to the insertion tube upon first use (insertion depth adjustable one-time only). The fitting of **Type B** has a soft seal that can be repositioned on the insertion tube after each use (insertion depth fully adjustable).

**Type C** pH electrode has a thread fitting. If the thread size is 1/4" or larger, a thin-walled protection tube may be provided. Type C design is ultra compact and may be used in autoclaves that have smaller access ports (1/8" or 1/4" NPT). The insertion depth for Type C high pressure pH electrode is fixed at factory (non adjustable).

How To Order Medium-Temperature High-Pressure Glass-Based pH Electrodes Example



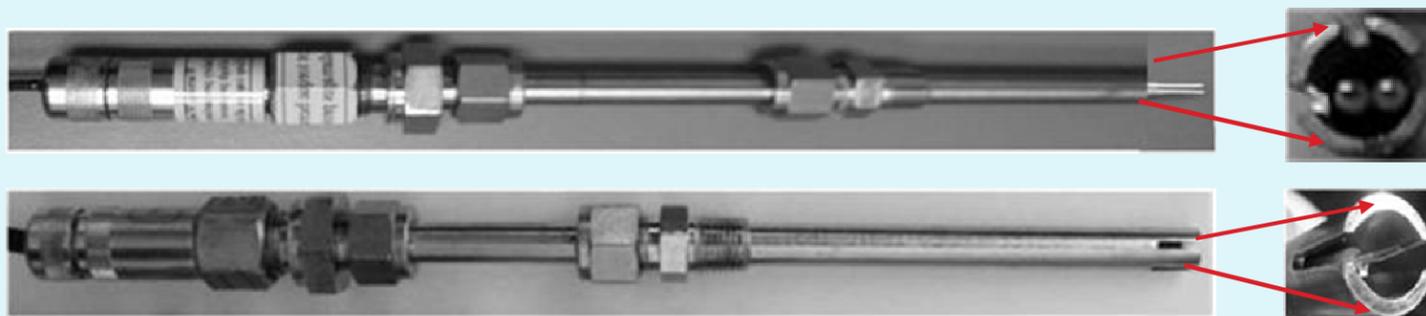
# High-Temperature & High-Pressure pH, ORP and Reference Probes

Reference Electrodes, pH Electrodes, and Platinum Electrodes for Redox Potential (ORP) and Conductivity Measurements

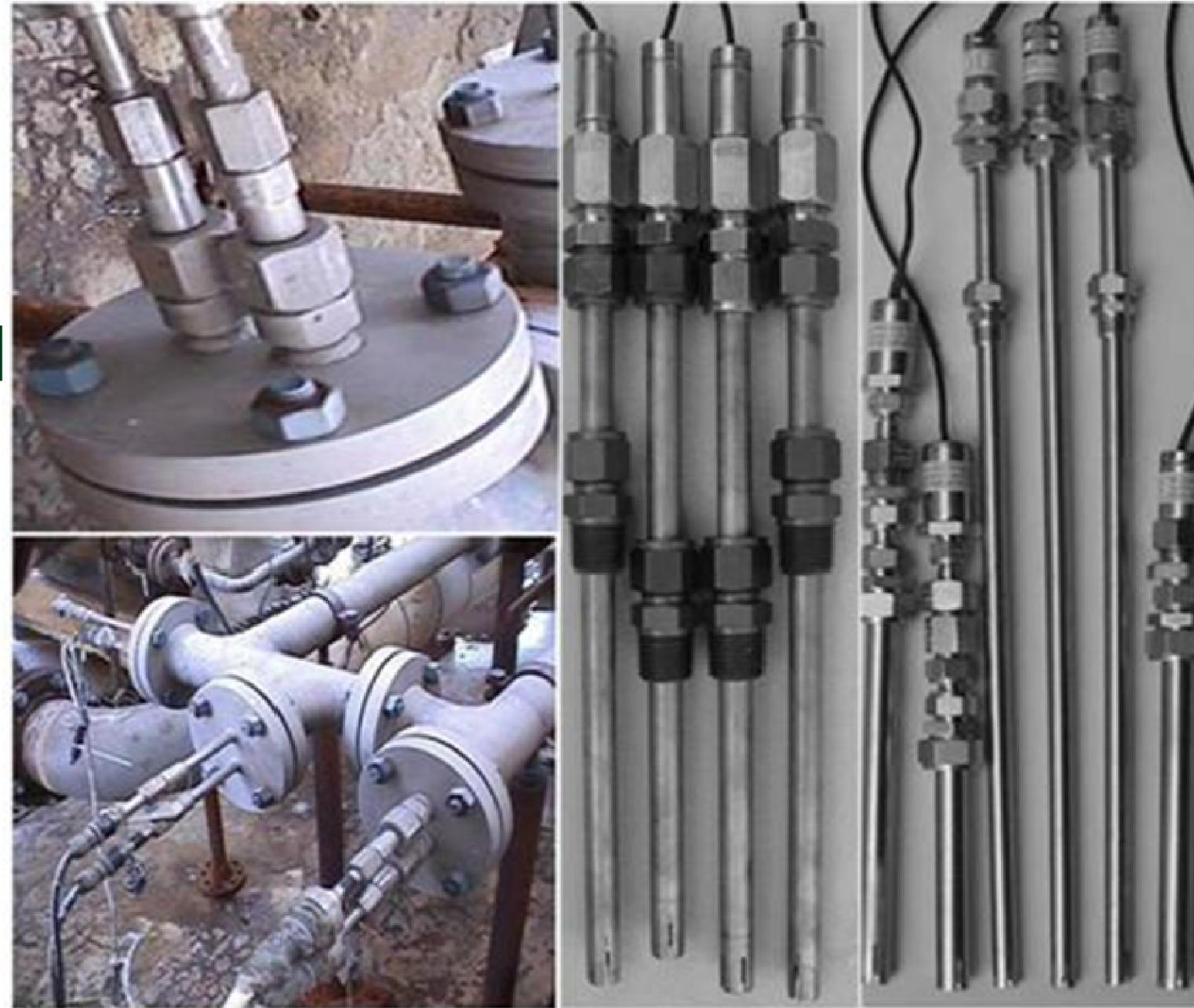
## High-Temperature and High-Pressure Platinum ORP/Conductivity Probes

High-temperature and high-pressure platinum probes for redox potential (ORP) and conductivity measurements are divided into two types (A and B)

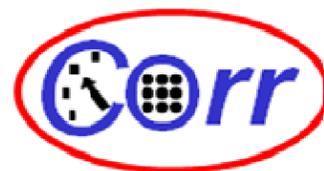
**Type A or B** platinum probe has a compression fitting with NPT\* thread and an insertion tube. The fitting of **Type A** has a metal seal that will lock to the insertion tube upon first use (insertion depth one-time adjustable only). The fitting of **Type B** has a soft seal that can be repositioned on the insertion tube after each use (insertion depth fully adjustable).



\*NPT - American National Pipe Thread.



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# Corr Instruments





Corr Instruments offers a full range of exceptionally high performance, high-temperature and high-pressure pH electrodes, reference electrodes, platinum electrodes for redox potential (ORP) and conductivity measurements at temperatures up to 650°F (343°C) and pressures up to 5100 psi (35 MPa). These probes are ideal tools for corrosion monitoring and thermodynamic/electrochemical studies in harsh environments such as steam generators, nuclear power reactors, geothermal systems, deep oil/gas wells, and super critical water systems.

Many of these probes are built on our patent-pending technology and our innovative sealing compound, Queon™. Queon is the only known material in the world for sealing electrical conductors in metal sealing glands or compression feedthroughs that operate at temperatures up to 650°F (343°C).



## Probe Selection Guide

Image	Probe Type	Temperature Rating	Pressure Rating
	Ag/AgCl Reference Probe	0 to 305 °C (32 to 581 °F)	up to 5100 psi (350 atm)
	ZrO <sub>2</sub> -Based pH Probe	130 to 305 °C (366 to 650 °F)	2000 Psi (136 atm)
	Glass-Based pH Probe	0 to 120 °C (32 to 248 °F)	2000 psi (136 atm)
	Platinum Redox (ORP) Probe	0 to 305 °C (32 to 581 °F)	up to 5100 psi (350 atm)
	Platinum Conductivity Probes	0 to 305 °C (32 to 581 °F)	up to 5100 psi (350 atm)

# Product Range and Selection

## High-Temperature and High-Pressure Pressure-Balanced Ag/AgCl Reference Probes

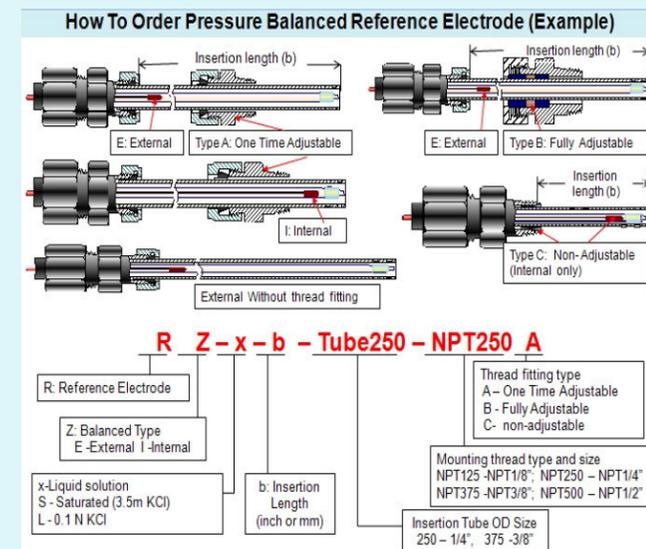
Our patent-pending high-temperature/high-pressure Pressure-Balanced Ag/AgCl Reference Electrodes are divided into three types (A, B, and C) and two designs (External Reference Electrode and Internal Reference Electrode)

**Type A or B** has a compression fitting with NPT\* thread and an insertion tube. The fitting of **Type A** has a metal seal that will lock to the insertion tube upon first use (insertion depth adjustable one-time only). The fitting in **Type B** has a soft seal that can be repositioned on the insertion tube after each use (insertion depth fully adjustable).

**Type C** has a threaded fitting. If the thread size is 1/4" or larger, a thin-walled protection tube may be provided. Type C is ultra compact and may be used in autoclaves that have smaller access ports (1/8" NPT). The insertion depth for Type C is fixed at factory (non adjustable). Type C is available for internal design only.

**External design:** Reference material (Ag/AgCl) is away from heated location and maintained near ambient temperature so that the probe is more stable when used at T>200 °C.

**Internal design:** Reference material (Ag/AgCl) is in heated location so that the probe has a better defined thermodynamic potential. Not recommended for long-term use at T>200 °C.

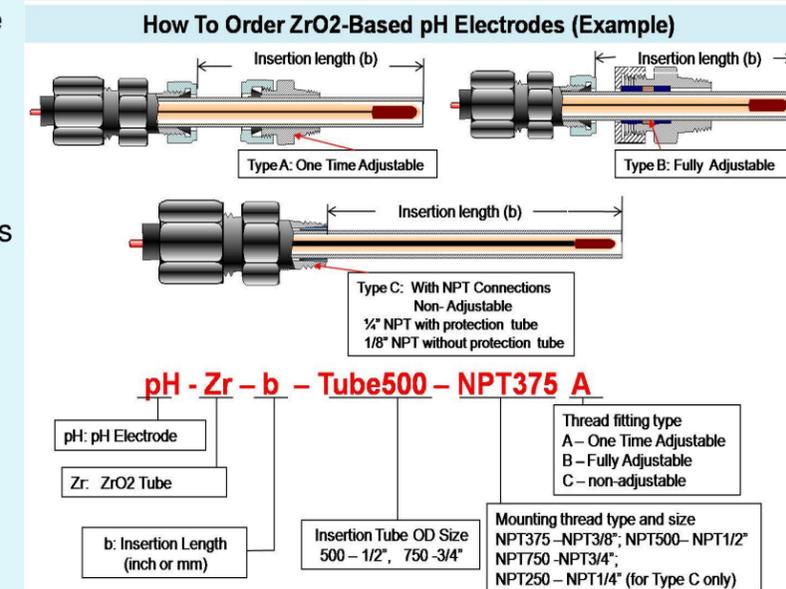


## High-Temperature and High-Pressure Zirconia-Based pH Probes

ZrO<sub>2</sub>-based high-temperature and high-pressure pH electrodes are divided into three types (A, B, and C)

**Type A or B** pH electrode has a compression fitting with NPT\* thread and an insertion tube. The fitting of **Type A** has a metal seal that will lock to the insertion tube upon first use (insertion depth adjustable one-time only). The fitting in **Type B** has a soft seal that can be repositioned on the insertion tube after each use (insertion depth fully adjustable).

**Type C** pH electrode has a thread fitting. If the size is 1/4" or larger, a thin-walled protection tube may be provided. Type C design is ultra compact and may be used in autoclaves that have smaller access ports (1/8" or 1/4" NPT). The insertion depth for Type C is fixed at factory (non adjustable).



\*NPT -American National Pipe Thread.