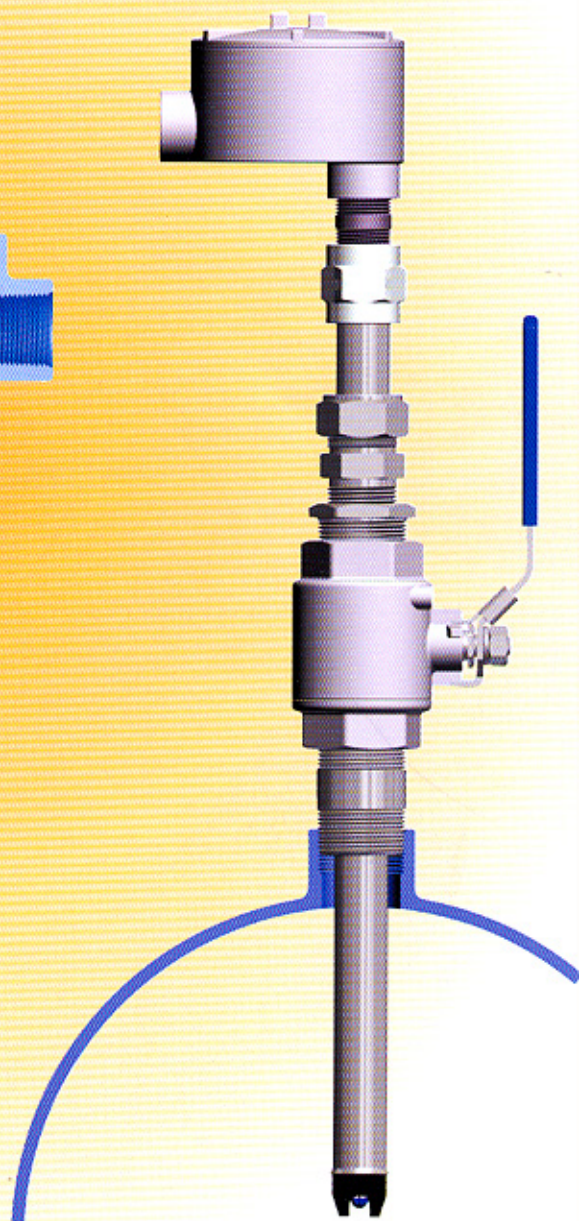
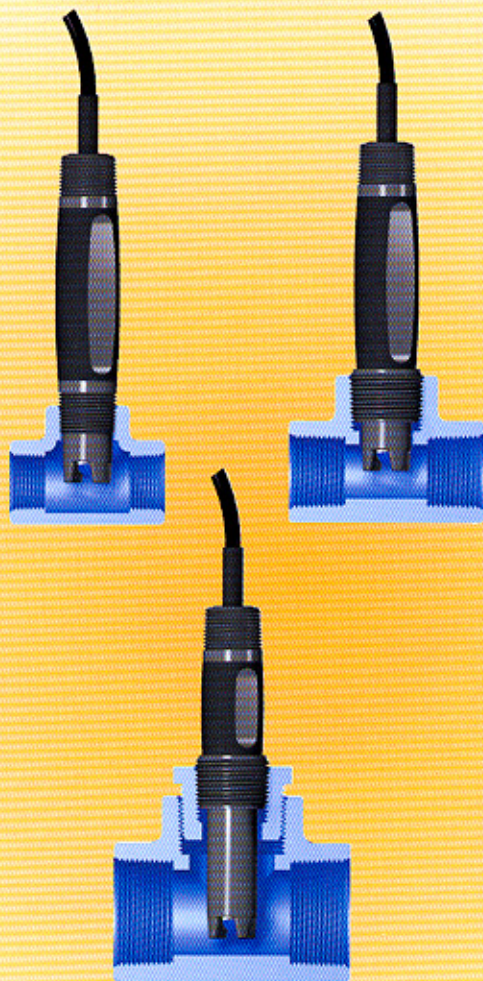
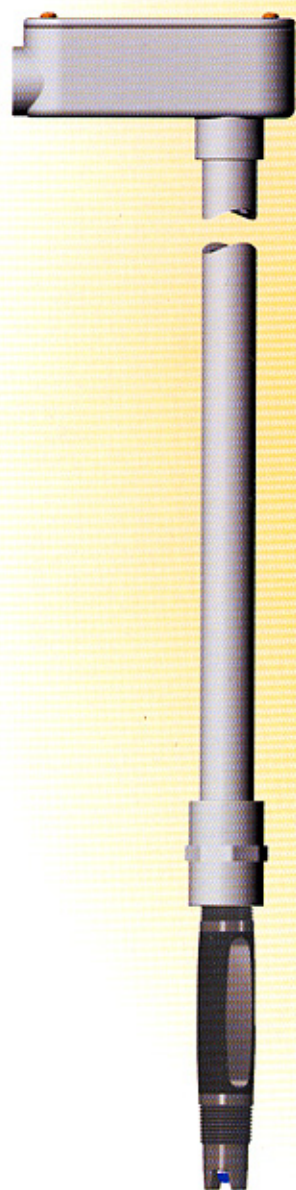


pH, ORP and D.O. Sensors for Industrial Applications

on-line

submersion

insertion

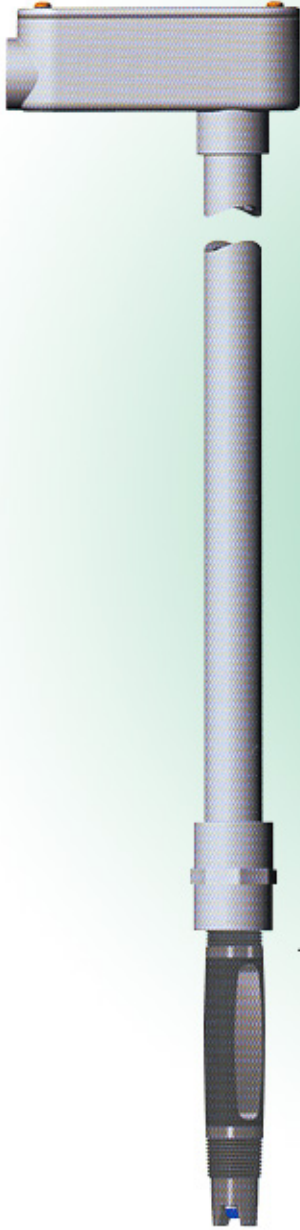


**BROADLEY
JAMES**
CORPORATION

S400 Series ProcessProbe™

submersion

Typical submersion assembly with S400 sensor mounted on 3/4" O.D. pipe with junction box



on - line

Standard length with guard



S400

Standard length with recessed bulb



S405



S410



S415



3/4" NPT tee

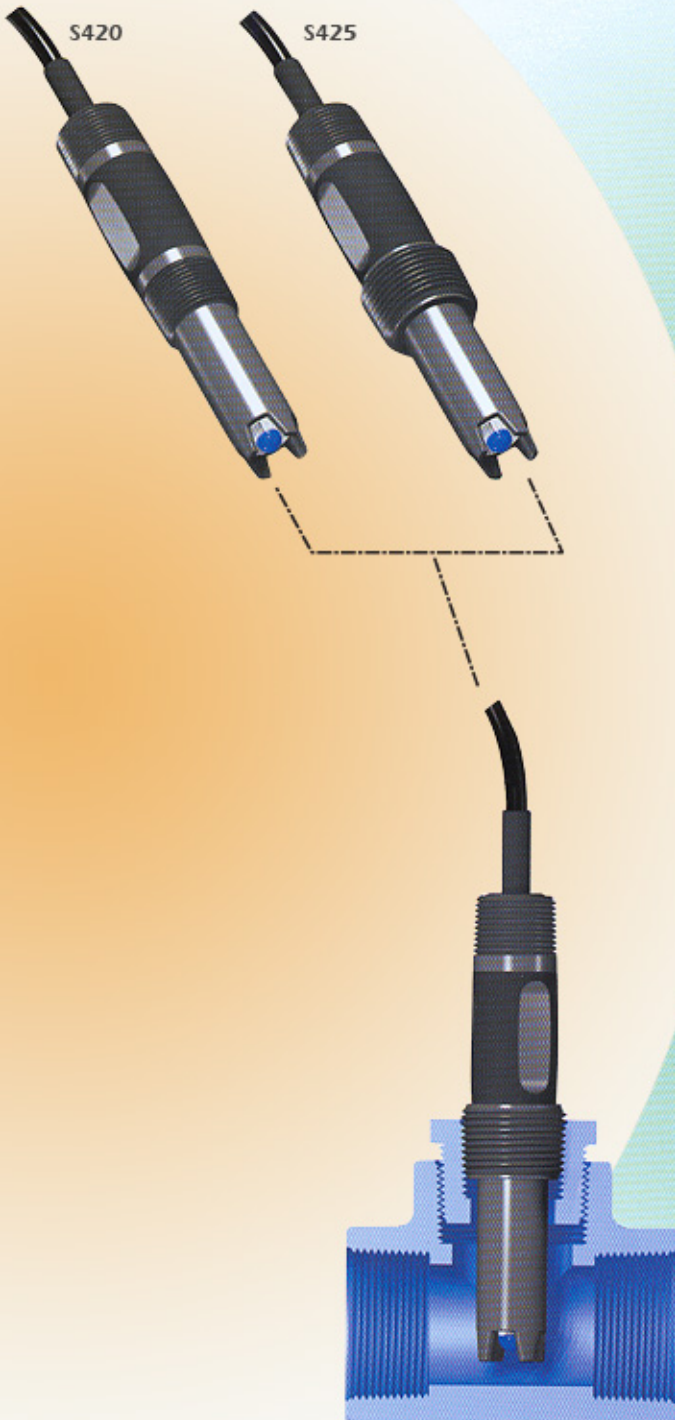


1" NPT tee

pH and ORP Sensors with Ryton Housings

on - line

Extended length
with guard



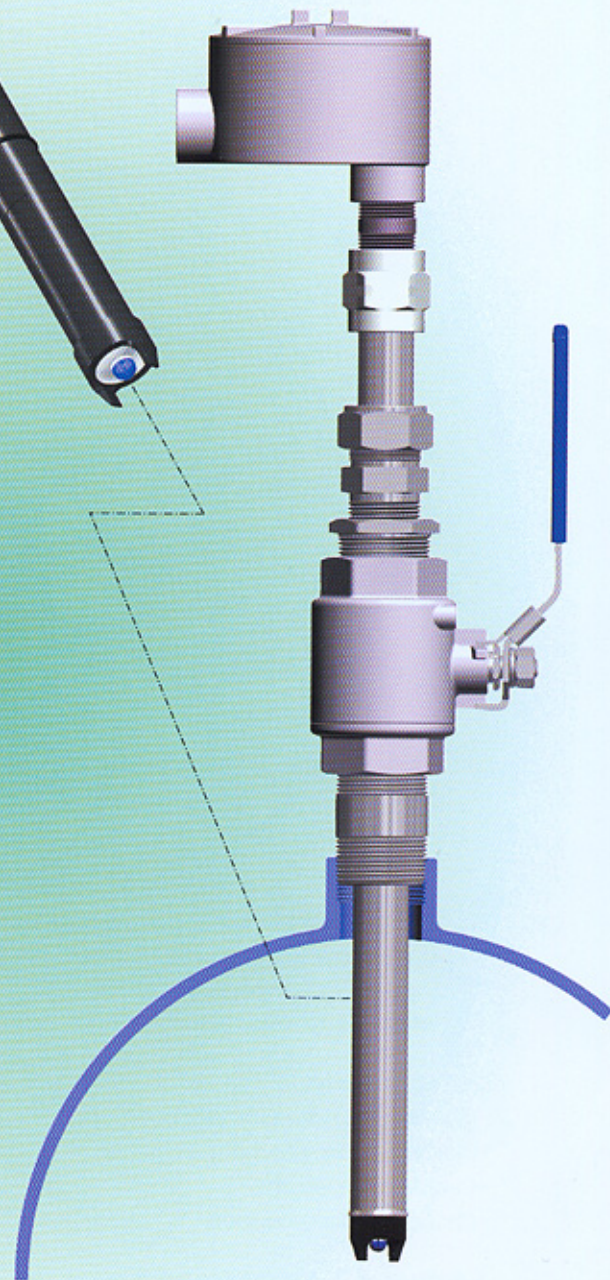
1 1/2" NPT tee

insertion

Replacement sensor
for insertion assembly



SA877
Valve insertion
assembly



S400 Series ProcessProbe™

Broadley-James pH and ORP Sensors for the Process Industries

These sensors are designed for rugged service in submersion or on-line applications. The reference cell features a Double Junction design for extended service life in harsh applications. The body, with integral pipe threads, is molded from chemical-resistant Ryton (PPS) and the reference junction is porous Teflon or ceramic. Built-in temperature compensators are available. Optional sensor guard on the front of the sensor protects the sensor tip from impact. Sensor also available in ORP (Redox) version.

Specifications

pH Range 0 - 14 pH
ORP Range ± 5000 mV
Temperature Range . . 0 - 105° C
Max. Pressure/Temp . . 150 psig at 100° C
Reference Ag-AgCl
Wetted Materials Ryton, Teflon, Glass
Std. Cable Length 10 Feet

Maximum Flow Rate:

10 ft. (3 m) per second

Output Impedance:

< 250 megohms at 25° C

Chemical-resistant Wetted Materials

These high quality sensors are constructed of corrosion-resistant wetted materials including Ryton®, Teflon® and glass.

Coaxial Porous Teflon Reference Junction

The large annular junction resists fouling. Also, the sealed, double-junction reference electrode is highly resistant to poisoning.

Options Include:

- Built-in temperature compensation
- Built-in solution ground
- Custom cable lengths
- Choice of cable connectors

*Suitable for High Temperature Applications
Compatible With Most pH and ORP Analyzers*



Options



Coaxial Teflon Junction

Designed to withstand tough industrial applications. Best overall performance with rugged dome pH bulb.



Dual Ceramic Pin Junction

For use in highly alkaline processes. Best choice for use at higher pressures.



Flat pH Bulb/Self Cleaning

Designed for obstructionless contact with the sample stream for self cleaning service. Features coaxial, porous Teflon junction.

DynaProbe II® pH and ORP Sensors

High Pressure and High Temperature Sensors

DynaProbes were designed to withstand the aggressive environment of pulp and paper manufacturing. The patented internal design features a solid state, reference half-cell with the unique IonTrap™ for extended sensor life in the most severe applications. Choose from the different body styles, body materials, reference materials and bulb designs to create a sensor to fit any industrial application. The three primary sensor designs are: Twist Lock, Pipe Thread, and Valve Retraction.

Twist Lock

Seals into the twist-lock housing adapter via dual o-rings for in-line measurements. The body is molded from chemical-resistant Ryton (PPS) and the reference junction is porous Teflon.

ST851 Series Specifications

pH Range..... 0 – 14 pH
ORP Range..... ± 5000 mV
Temperature Range..... 0 - 120° C
Maximum Pressure..... 50 psig at 120° C
Standard Wetted Materials..... Ryton, Teflon, Glass, Viton o-rings
Options Available..... Dome bulb, Flat bulb, or High pH glass
Compatible Housings..... Twist-Lock Adapter for threaded tee

ST851 Series



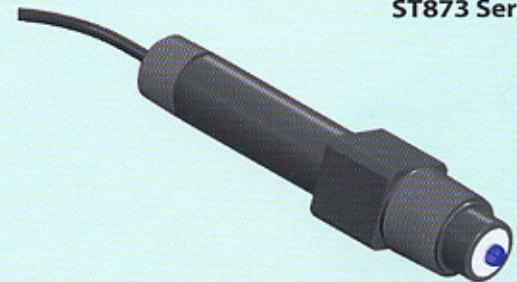
Pipe Thread

These DynaProbes are designed for in-line or submersion applications. The sensor body threads directly into a tee or end of a pipe and is molded from chemical-resistant Ryton.

ST873 and ST956 Series Specifications

pH Range..... 0 – 14 pH
ORP Range..... ± 5000 mV
Temperature Range..... 0 - 140° C
Maximum Pressure..... 150 psig at 120° C
Standard Wetted Materials..... Ryton, Teflon and Glass
Options Available..... Dome bulb, Flat bulb, or High pH glass
Compatible Housings..... 1" NPT or 3/4" NPT fittings

ST873 Series



These sensors are also available with a flat bulb design to allow the turbulence of the process to clean the sensor, minimizing clogging.

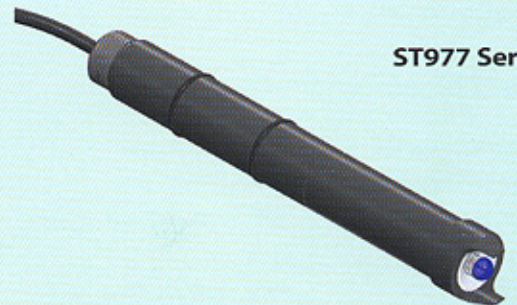
Valve Retraction

This sensor model is designed for use with the insertion/retraction assemblies. The sensor body, with integral bulb guard and anti-blowout restraint, is molded from chemical-resistant materials and the reference junction is porous Teflon.

ST977 Series Specifications

pH Range..... 0 – 14 pH
ORP Range..... ± 5000 mV
Temperature Range..... 0 - 120° C
Maximum Pressure..... 100 psig at 90° C
Standard Wetted Materials..... Ryton, Teflon and Glass
Compatible Housings..... Valve retraction assembly
Insertion sensor assembly

ST977 Series



All three designs are available with the following options:

- ORP Measurement
- Built-in Temperature Compensation
- Solution Ground
- Custom Cable Length