

# Type 801 - 802 - 803

## Probes for Levelstate Water Columns

### OVERVIEW

As the primary element in sensing level signals, the conductivity probe is the heart of electronic level indicating systems. Probes are manufactured from stainless steel, with high purity ceramic insulators that exhibit a high degree of chemical inertness at elevated temperatures. Pressure sealing of the ceramic to metal body is achieved through a vacuum brazing process.

The braze joints are treated with a special gilding that protects it from the abrasive action of water.

All probes are Helium leak tested, Hydrostatically tested at twice rated pressure and electrically tested for correct resistance.

All probes are guaranteed for 8500 hours use in a controlled environment of pH7 to pH11. Conditions outside this range will effect the working life of the probe.

### TYPE 801 PROBE

The 801 probe is a low pressure probe designed exclusively for use in the Type 501 water column.

Fixture - M16 x 1.5mm screw thread  
Seal - Metaflex gasket (stainless steel and grafoil)  
Temperature Rating - 341 degrees C  
Pressure Rating - 150 bar



### TYPE 802 PROBE

The 802 probe is a high pressure probe designed exclusively for use in the Type 502 water column.

Fixture - 28mm A/F Compression sealing Nut  
Seal - 28mm A/F Compression sealing Nut  
Temperature Rating - 570 degrees C  
Pressure Rating - 207 bar



### TYPE 803 PROBE

The 803 probe is a high pressure probe designed exclusively for use in the Type 503 water column.

Fixture - Clamp Plate secured with 4 x M10 studs and bolts  
Seal - Metaflex gasket (stainless steel and grafoil)  
Temperature Rating - 370 degrees C  
Pressure Rating - 207 bar



### PROBE CABLE

Probes are connected to the electronic units by means for a high temperature resistant PTFE insulated multi-core Nickel cable. Cables come in standard lengths of 4 meters and 10 meters, but lengths upto 30 meters are available. All cores are colour coded for easy installation.



All cables are terminated with Ring crimps one end for connection to the probes and bootlace ferules at the other for connection to the electronic unit.



The probe cables are made up to suit the probe spacing on the water column, as the sight range can vary from 400mm to 3000mm.

### BLANKING PLUGS

We are able to supply blanking plugs for all probes. These can be inserted into the water column in place of the probes, to avoid damage during the course of blow down.



Part Numbers:

5012201 - 801 probe blanking plug for 501 water column  
5022201 - 802 probe blanking plug for 502 water column  
5032201 - 803 probe blanking plug for 503 water column

### PROBE GASKETS

Type 801 and 803 probes use a gasket to make the seal between the water column and the probe. The gasket is a spiral wound stainless steel gasket that is filled with a graphite compound. This combination proves to be a very strong and reliable seal. All probes are supplied with a gasket, spares are also available.



Part Numbers:

8013008 - 801 probe gasket  
8033008 - 803 probe gasket