

## PHARMACEUTICAL FLASK TEMPERATURE MEASUREMENT

### APPLICATION

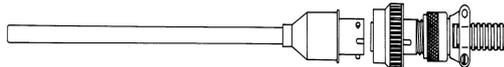
A client involved in the production of a range of different vaccines was using several different sizes of flask, each of which were to be fitted with a PT100 resistance thermometer.

### PROBLEM

Following a production run each flask was required to be undergo a sterilisation cycle in an autoclave and depending on size a number of these flasks could be sterilised together. The PT100 resistance thermometers were required to be removed prior to sterilisation because the male connectors used were only suitable for dry ambient conditions. The removal of the PT100 resistance thermometers added additional time to the process and following removal the handling of the units frequently led to the detector being broken or outside of the acceptable tolerance.

### SOLUTION

A proposal was made to the client to consider the SSA200 assembly which once fitted to the flask could be left in-situ during sterilisation. The SSA200 utilises a military/aerospace connector which has a glass based dielectric, hermetically sealed within a 316 stainless steel outer case. The connector is able to resist temperatures up to 260°C and differential pressures of 69 bar. For further information please see our Data Sheet PDS-008-SSA200.



### BENEFIT

The connection arrangement on the SSA200 is a quick release bayonet type with a location notch to prevent a wrong connection being made. Once fitted to the flask the client was able to leave the SSA200 in-situ during sterilisation. A quick release connector and the ability for the SSA200 to remain fitted to the flask saved both the previous time taken to remove it from the flask and the incidence of breakage.

### Thermal Detection Ltd

Unit 6 Orde Wingate Way Primrose Hill Industrial Estate Stockton on Tees TS19 0GA England

Tel : +44 (0) 1642 602 878

E-mail : [tdl@thermal-detection.com](mailto:tdl@thermal-detection.com)

Fax : +44 (0) 1642 618307

Web site : [www.thermal-detection.com](http://www.thermal-detection.com)