



Anville Instruments Ltd

THERMOCOUPLE ENTRY GLAND WITH PRESSURE PORT

(QMF 37-1)

September 2008 Issue 1

Anville Instruments Ltd
Unit 19, Pegasus Court
North Lane
Aldershot, Hants
GU12 4QP

Tel. 01252 351030
Fax. 01252 323429

NOTICE

The contents of this document are liable to change without notice. Whilst every effort has been made to ensure the accuracy of this document, Anville Instruments Ltd will not be responsible for any errors and omissions or their consequence.

!!!Caution!!!

The following instructions must be followed when using these devices. It is emphasised that although small, care should be taken as the devices operate under pressure and could also become very hot.

Assembly

1. The entry gland should not be used if any part is damaged.
2. Unscrew the brass part of the fitting and remove the washers.
3. PTFE thread tape or an 'O' ring seal should be applied to the ¼" BSPM thread on the stainless steel part.
4. The ¼" thread should be screwed into a suitable entry point. Apply a spanner at the base of the fitting near the ¼" BSPM thread. Ensure a tight seal but do not use excessive force when tightening
5. The first silicone seal should be inserted into the top of the fitting and pushed to the bottom of the hole.
6. The thermocouples (maximum of 6) should be inserted through the fitting to the required depth and then folded through the slots (one per slot), ensuring that the cables are not twisted or cross each other.
7. The second silicone seal should be inserted into the top of the fitting and pushed to make contact with the cables.
8. A second group of six thermocouples may be inserted in the same manner as above followed by a third silicone seal.
9. Next insert the stainless steel washer followed by the thin silicone seal.
10. The brass sealing nut should be fitted with a ¼" BSP blanking plug (not supplied) again using PTFE thread tape.
11. The sealing nut should then be screwed into the top of the fitting to a minimum depth of 12mm from the top of the fitting. This will ensure a tight seal. Do not use excessive force.
12. If pressure measurements are required then simply screw the pressure measurement device in place of the blanking plug.

Dismantling

Ensure that the assembly is not under pressure and has cooled before attempting to dismantle.

1. Dismantle by following the above instructions in reverse order.
2. Finally re-assemble the parts of the entry gland to avoid loss of the washers.