1 Introduction

This publication details the feed / drain assembly servicing procedure for 4690 series turbidity sensors. The procedure must be carried out by a trained technician.

The contents of the feed / drain assembly servicing kits are shown in Tables 1 to 3.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed / drain assembly</td>
<td>7998 150</td>
<td>1</td>
</tr>
<tr>
<td>This publication – Feed / Drain assembly servicing</td>
<td>INF11/069-EN</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1  Feed / drain replacement kit 7998-024

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball valve assembly</td>
<td>0216 509</td>
<td>2</td>
</tr>
<tr>
<td>This publication – Ball valve assembly servicing</td>
<td>INF11/069-EN</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 2  Ball valve replacement kit 7998-037

Tools required
- PTFE tape
- 20 mm open-ended spanner
- 22 mm open-ended spanner
- 25 mm open-ended spanner

2 For more information

Further information is available from: www.abb.com/analytical
or by scanning these codes:
3 Replacing feed / drain assembly
1. Isolate the turbidity sensor from the sample supply and drain the cell body.
2. Referring to Fig. 3.1:
   a. Disconnect sample feed hose and drain hose from connectors 1 and 2 respectively.
   b. Using a 20 mm open-ended spanner across flats 3, unscrew feed / drain assembly 4.
   c. Clean thread in cell body.
   d. Apply PTFE tape to male thread of sub-assembly and screw into cell body until finger tight.
   e. Tighten carefully with the 20 mm spanner – do not over tighten.

4 Replacing ball valve assembly
1. Isolate the turbidity sensor from the sample supply and drain the cell body.
2. Referring to Fig. 4.1:
   a. Using a 25 mm spanner, remove the defective ball valve assembly 1 or 2 as required.
   b. Clean thread in feed / drain body.
   c. Apply PTFE tape to male thread of new ball valve assembly and screw into feed / drain body until finger tight.
   d. Tighten carefully with the 25 mm spanner – do not over tighten.

5 Replacing hose connector assembly
1. Isolate the turbidity sensor from the sample supply and drain the cell body.
2. Referring to Fig. 5.1:
   a. Using a 22 mm spanner, remove the defective hose connector assembly 1 or 2 as required.
   b. Clean thread in ball valve body.
   c. Apply PTFE tape to male thread of new connector assembly and screw into ball valve body until finger tight.
   d. Tighten carefully with the 22 mm spanner – do not over tighten.