

4690 series

Turbidity sensors



Feed / Drain assembly servicing

Measurement made easy

4690 series
turbidity sensors

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.

Description	Part No.	Qty.
Feed / drain assembly	7998 150	1
This publication – Feed / Drain assembly servicing	INF11/069-EN	1

Table 1 Feed / drain replacement kit 7998-024

Description	Part No.	Qty.
Ball valve assembly	0216 509	2
This publication – Feed / Drain assembly servicing	INF11/069-EN	1

Table 2 Ball valve replacement kit 7998-037

Description	Part No.	Qty.
Hose connector assembly	0216 510	2
This publication – Feed / Drain assembly servicing	INF11/069-EN	1

Table 3 Hose connector replacement kit 7998-038

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:



Sales



Service

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.**

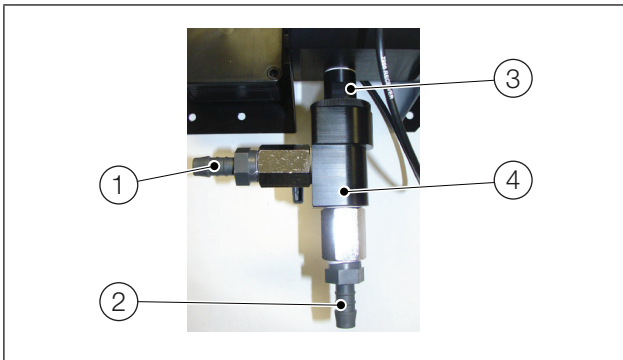


Fig. 3.1 Replacing feed / drain assembly

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.**

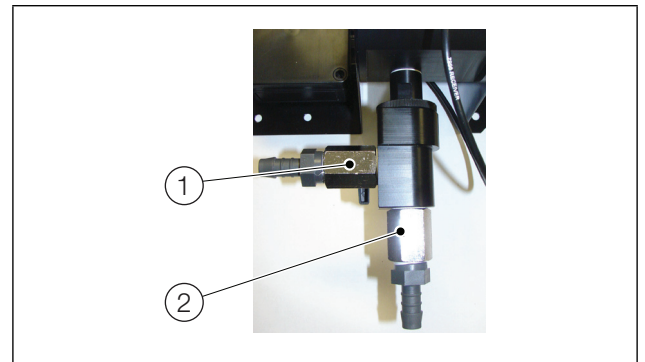


Fig. 4.1 Replacing ball valve assembly

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.**

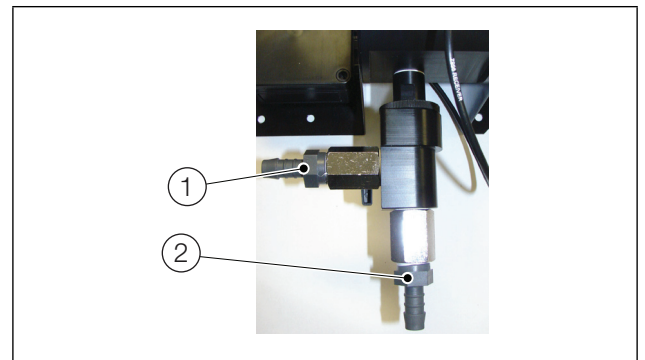


Fig. 5.1 Replacing hose connector assembly

Notes

ABB Limited
Measurement & Analytics

Oldends Lane
Stonehouse
Gloucestershire
GL10 3TA
UK
Tel: +44 (0)1453 826661
Fax: +44 (0)1453 829671
Email: instrumentation@gb.abb.com

ABB Inc.
Measurement & Analytics

125 E. County Line Road
Warminster
PA 18974
USA
Tel: +1 215 674 6000
Fax: +1 215 674 7183

abb.com/measurement



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