

BREAK-OFF PLUG and TORPEDO

Break-Off Plug



Torpedo



1. Introduction

The Wellmaster Break-Off Plug and Torpedo parts are used when the Angus preferred method of installation and retrieval is used. The break-off plug is installed in the coupling attached to the submersible pump either directly into the coupling or, in the case of 51mm (2") and 76mm (3") sizes, in a separate Break-off plug Adaptor which is connected between the pump and the coupling at the bottom of the riser. No plug is used with 38mm (1 1/2"). The torpedo is used to break the plug during the retrieval process so as to allow water to drain from the riser.

Please also refer to the latest edition of the Wellmaster Installation Manual for more details

2. Instructions for Use

a) Break-off Plug installation

- 1.1 After attaching the coupling to the submersible pump, screw the correct size of Break-off plug into the tapped hole in the side of the coupling body. Ensure PTFE tape is used and the plug is tightened to the correct torque setting of 20Nm.

For sizes 51mm and 76mm the break-off plug is fitted into an adaptor, screwed into the pump first.

b) Wellmaster riser retrieval where the break-off plug system is used

- 2.2 Remove the top plate or the head works so as to give access to the inside of the riser.
- 2.3 Check that the correct size torpedo is to be used and that it is free from burrs.
- 2.4 Ensure the retrieval cable is firmly attached to the eye of the torpedo and is of sufficient length to reach the base of the **WELLMASTER**. A bar attached to the top of the cable will prevent the cable being lost down the riser.
- 2.5 Carefully lower the torpedo to the bottom of the **WELLMASTER**, until the cable becomes slack.
- 2.6 Raise the torpedo about 3 metres, release and allow the torpedo to fall under its own weight to shear the break-off plug. The water will drain freely down to the static water level. Beyond this, as the **WELLMASTER** is withdrawn, allow sufficient time for water to drain as the Wellmaster is pulled over the well-head roller or before fitting lifting clamps. Allow 30 seconds per metre for drainage to occur.
- 2.7 On removal of the pump, remove both pieces of the break-off plug and replace with a new one before reinstalling the Wellmaster riser.

Angus Flexible Pipelines operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Flexible Pipelines should be contacted to ensure that the current issues of all technical data sheets are used.

© Angus Flexible Pipelines
FP253/4/03.14