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# TECHNICAL BULLETIN

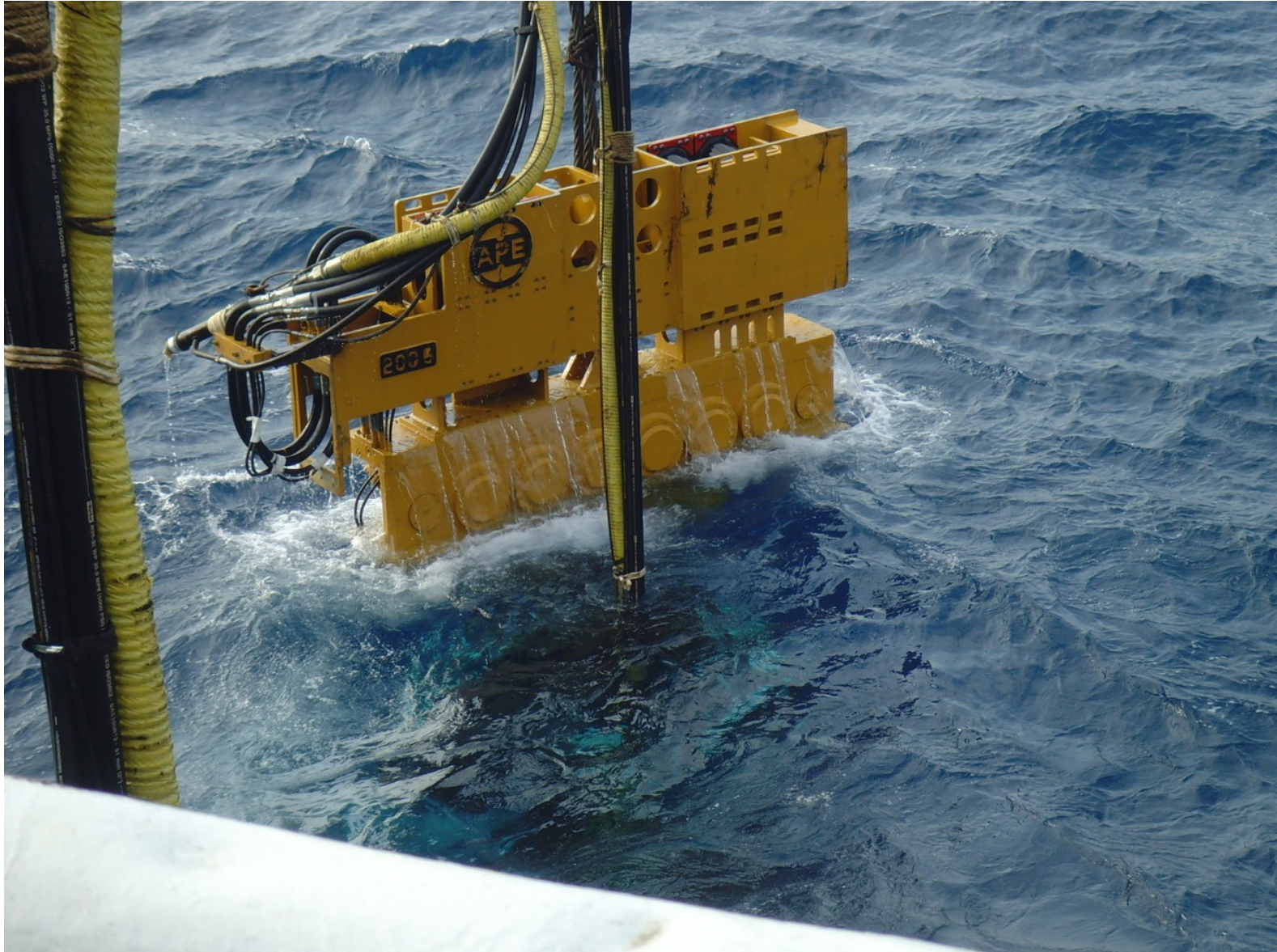
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## #2 Directions On Running An APE Vibro Under Water

There are uncommon jobs that require a vibro to be ran under water. This document is going to cover what tasks need to be completed to achieve this goal.



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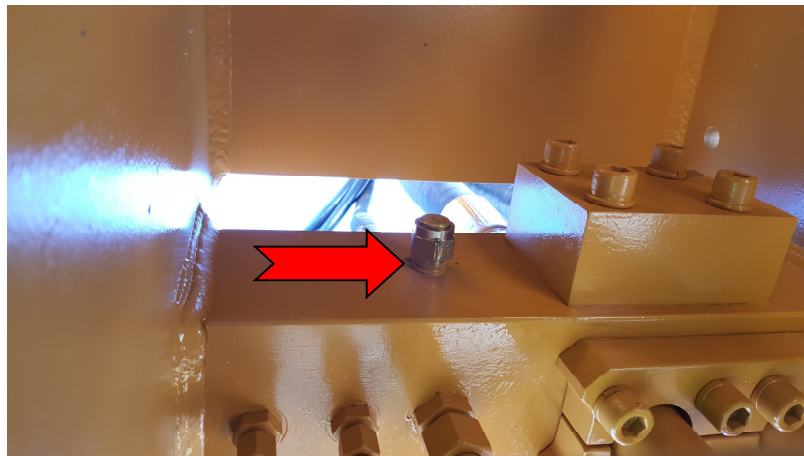
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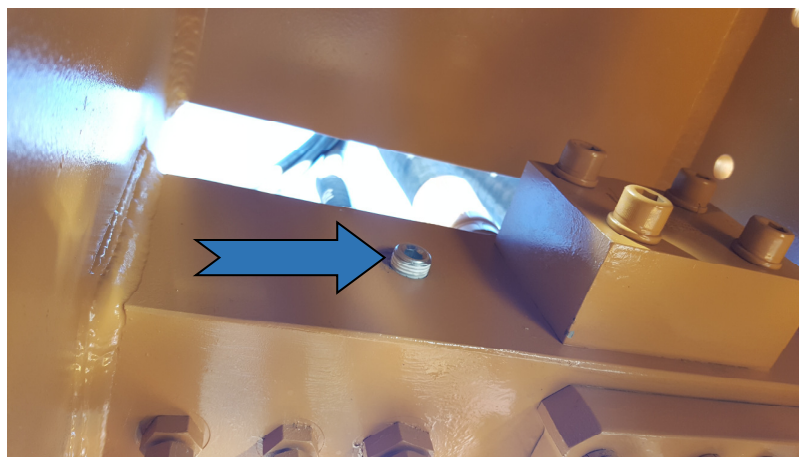
There are two topics that we will cover that effect two different areas of the vibro.

The first topic is the pop off valve. **(See IMG.1 RED ARROW)**



IMG.1

The pop off valve protects the hydraulic motor shaft seal for excessive case pressure. Our standard APE pop off vents to atmosphere at 55 P.S.I. The pop off needs to be removed and a ½” NPT plug with sealer installed in its place. **(See IMG.2 BLUE ARROW)**



IMG.2

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The pop off valve needs to be reinstalled in the case drain circuit to protect the motor shaft seal. Install it back by the power unit Q.D. with the appropriate fittings. (See **IMG.3 ORANGE ARROW**)



Topic one is now completed.

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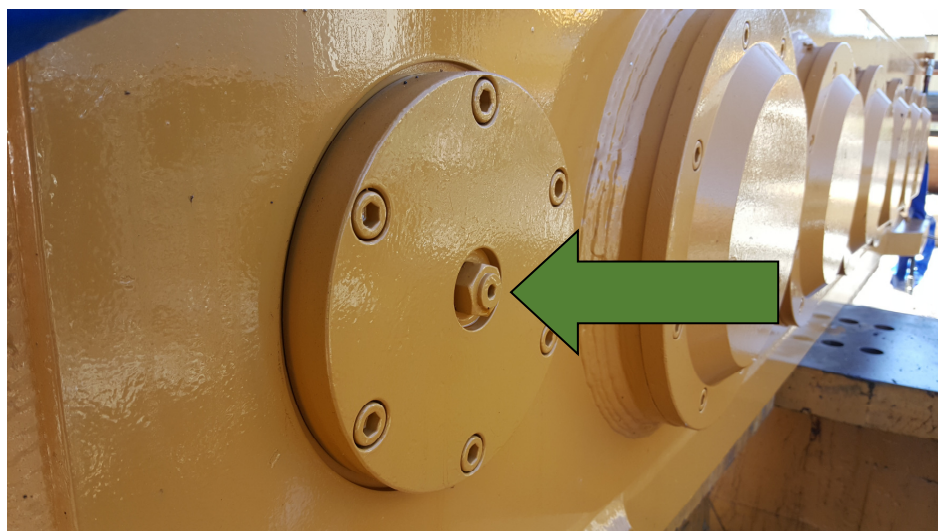
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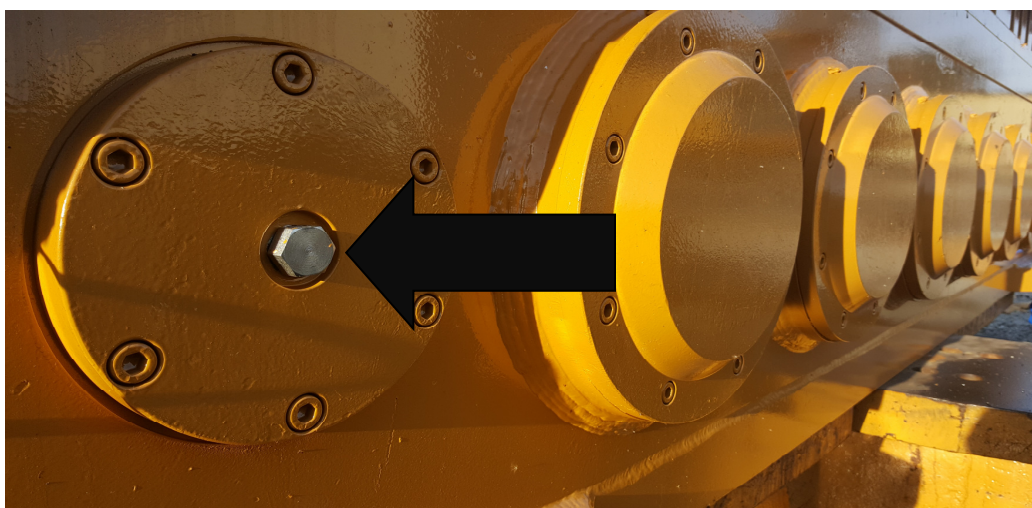
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Topic two is the gear box breather. (See **IMG.4 GREEN ARROW**)



**IMG.4**

The breather needs to be removed, and a Number 10 MORB plug installed in its place to seal the gearbox from water. (SEE **IMG.5 BLACK ARROW**)



**IMG.5**

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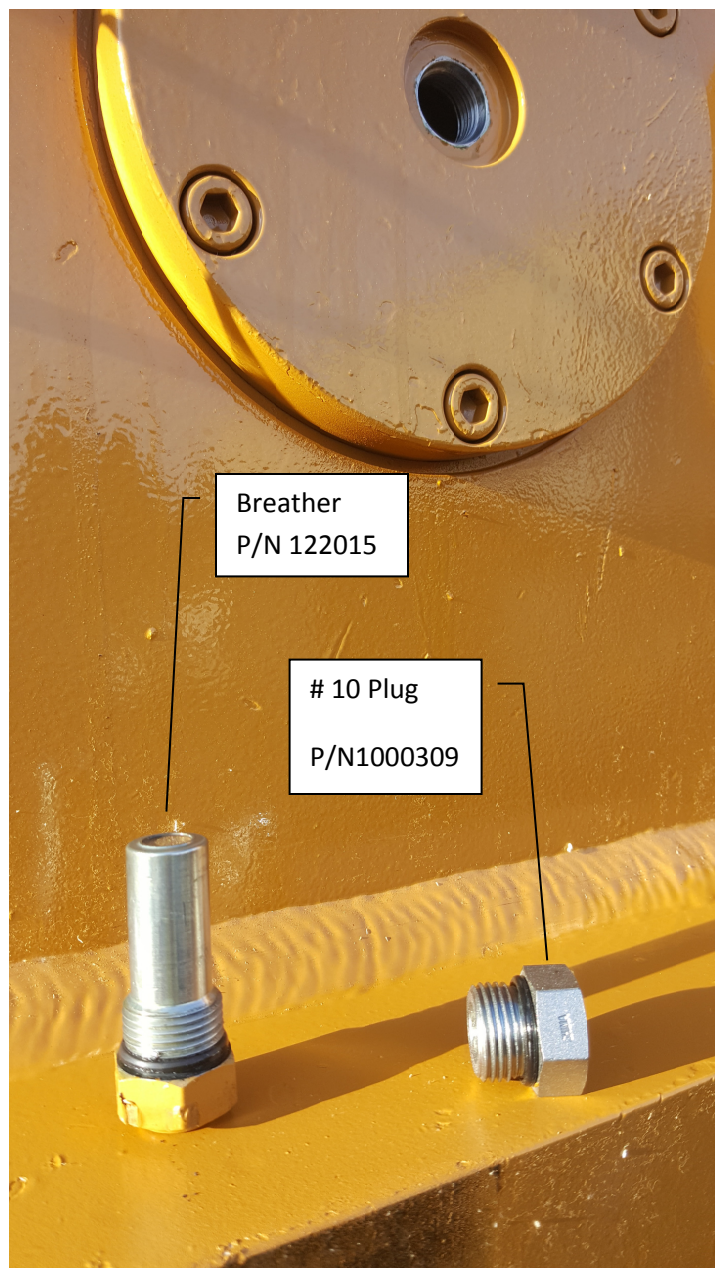
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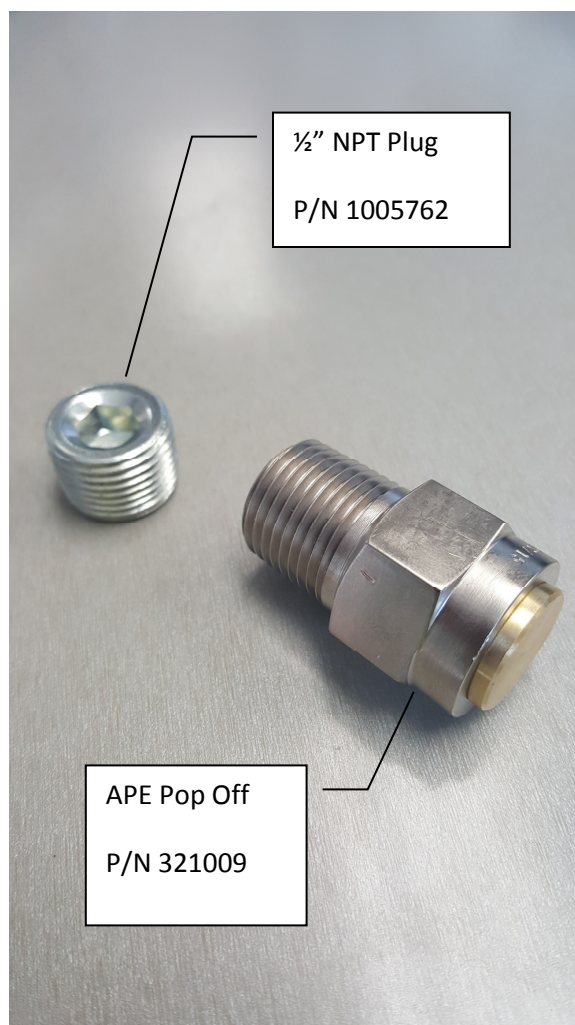
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Breather  
P/N 122015

# 10 Plug  
P/N1000309

The vibro is now ready to run under water to a max depth of 150'. If a job requires a vibro to drive deeper than 150' please contact your local salesmen for engineering assistance.



1/2" NPT Plug  
P/N 1005762

APE Pop Off  
P/N 321009

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