



# ACV System

## Distributed In-water Air Gun Isolation

OFFSHORE TECHNOLOGY SOLUTIONS™

This new Air Control Valve System from Seamap is a modular air valve unit - which as standard is supplied as a dual valve (cluster) block with integrated air distribution manifold - for distribution on the sub-array.

- Able to stop air flow to an air gun in less than six seconds
- Air valve can be closed and opened at full system pressure (207 bar / 3000 psi)
- Proof pressure tested to 310 bar / 4500 psi
- Integrated pressure transducers indicate pressure before and after the air valve
- Valve location is sensed to determine if fully opened/closed
- Distributed electronics module can operate two air valves
- Up to eight distributed electronics modules per sub-array
- Different main air line manifold connections available (1", 3/4")
- Different air line connections (to air gun) available (1/2", 3/8", 1/4")
- Supports up to 16 air guns per sub-array
- Relief valves to prevent air trapped in gun lines



Available as an option for all GunLink Source Controllers, the Air Control Valve System allows for continued array operation in the event of an air leak from a single gun or air gun pressure line by operator isolating any leaking air gun in the array.

The system comprises of an integrated valve, electronics module air line manifold and pressure transducer unit for distributing along a sub-array. It provides effective control and isolation of two air guns (in the dual valve cluster configuration), with main line air pressure and the two downstream pressures (after the valves) being recorded and displayed by the system. Integral safety features prevent trapped system pressures.

An ACV Interface (ACV-I) unit provides power and telemetry to eight sub-arrays. The Graphical User Interface (GUI) is fully integrated with the GunLink Software. It provides individual air valve closure or opening data at a glance, including a position representation of valve movement (open/mid/closed). The pressure readings from the integrated transducers are displayed on the GUI alongside the isolated gun or cluster to which it refers.

The large air valve orifice area means that there is minimal pressure drop and throttling of air flow to the air gun.

### Seamap (U.K.) Ltd.

Unit 34, The Maltings, Charlton Estate  
Shepton Mallet, Somerset, BA4 5QE, U.K.  
Tel: +44 [0] 1749 342223  
Fax: +44 [0] 1749 347588  
email: sales@seamap.com

### Seamap Inc.

P.O. Box 1175, Huntsville, TX 77342  
United States of America  
Tel: +1 936 291 2277  
Fax: +1 936 295 1922

### Seamap Pte Ltd.

51 Changi North Crescent  
Singapore 499626  
Tel: +65 6545 1054  
Fax: +65 6545 0585

seamap.com



Seamap (U.K.) Ltd., Seamap Inc., Seamap Pte Ltd (hereafter Seamap) reserves the right to make any changes without notice to any of the products herein at its discretion. Seamap does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights nor the rights of any others. All product names referenced herein are trademarks of their respective companies. Copyright © 2002-2018 by Seamap 11-00-1028-A

