

Bell Gas Management Panel

with Audio Visual Alarm



Introduction

The Bell Gas Management Panel centralises all of the bell gas control requirements into a single compact assembly thus dramatically simplifying the bell layout. Divers become familiar with its unique 3D layout and can readily "feel" the controls in darkness or in an emergency. The panel provides normal and emergency gas supplies to the divers and the patented shuttle block protects each diver against loss of supply either due to failure of surface supplied gas or severance of a fellow diver's umbilical. The panel responds automatically but audio and visual warnings advise the Bellman.

The panel interfaces to the JFD Diver Gas Recovery System and complies with Department of Energy/HSE Memo 10/83 and all IMCA recommendations.

Three regulated gas supplies are provided to the shuttle block. The surface supply regulator is biased 2 Bar greater than the emergency regulators. In normal operation the upper valve of each shuttle assembly opens to allow surface gas to supply the divers.

A fourth regulated gas supply provides primary gas to the Bellman umbilical and Bellman BIBS. This supply is biased 1 bar greater than the surface supply pressure to provide the Bellman with an independent gas supply. This supply is only available to the Bellman, but on failure of this supply, the Bellman has access to any other available gas.

Order Codes

Bell Gas Management Panel with Audio Visual Alarm
A46983AB

The BIBS and emergency blow down supply is supplied with gas from either diver's shuttle assembly.

If loss of the surface supply gas occurs the pressure from the surface supply regulator drops below the 2 Bar bias, the upper valve of the shuttle assembly closes and the lower valve opens as the emergency regulators takes over. Emergency gas cannot flow back into the main umbilical.

If excessive demand occurs, as would happen with a ruptured diver umbilical, the shuttle valves ensure that the diver with the compromised umbilical does not have access to the other diver's emergency gas.

An extension from each shuttle valve is used to trigger an optical position indicator which provides the visual warning.

For those with the previous version A46983AA, an upgrade kit is available, along with installation instructions that allow the user to modify the panel themselves. The conversion kit order code is listed at the bottom of this datasheet.

Specification

Width	496mm (19.5")
Height	467mm (18.5")
Depth	160mm (6.3")
Weight	32 kgs (70 lbs)
Working pressure	69 Bar
Capacity	3 divers
Depth rating	450 msw

Bell Gas Management Panel **A46983AA**
Mara Panel Electronic Alarm Upgrade Kit **A46983202**