



Technical Bulletin

Bulletin No: 507044-000
Revision: D
Date: November 2017

Subject: Air Guide Check Valve – Guardian FFM

Models Affected

- Guardian FFM with Regulator (920001-xxx)

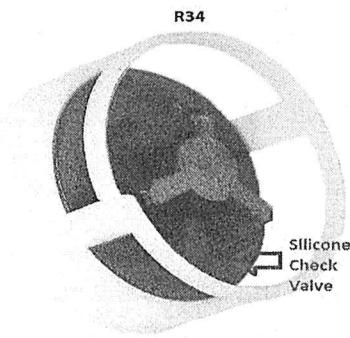
Summary

To Inform Guardian Mask Users the use of the Air Guide Check Valve is optional when operating in water temperature at 5°C and above 5°C. In addition, for the training environment (unless water temperature is below 5°C) due to constant potential of excessive free flow of the second stage regulator by multiple and inexperienced users, it is recommended to remove the Air Check Valve Part number 883027-000, manual reference number R34.

The purpose of the Air Guide Check Valve is to prevent/limit the ingress of water into the valve body and associated components with the intent of reducing issues with freezing. It has no specific impact to the performance of the regulator.

Reason

Due to the black silicone check valve being sensitive to certain amount of air going through it during purging process, the black silicone check valve could malfunction. During the examination of this issue, it has been determined that the silicone check valve would operate without issues under normal operation with regulated air. However, during air purging process where excessive uncontrolled amount of air enter the regulator putting pressure on the orifice could lead to the check valve failure.



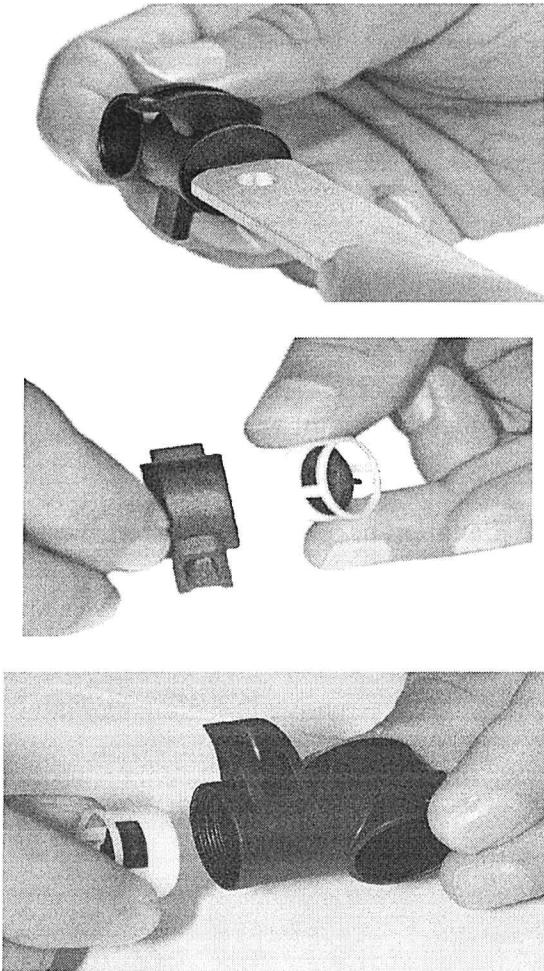
Solution

OTS has determined this issue has no impact on the performance of the regulator and it is acceptable for the Air Guide Check Valve to be removed should this condition occur. Part number 883027-000, manual reference number **R34**, can be either completely removed or having just the frame be left in place without the Check Valve. The Air Guide Check Valve can be easily removed by unscrewing the Air Guide Cap and extracting with a fingernail or needle nose pliers.



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It is recommended that the Air Guide Check Valve be in place and in good condition if diving in cold water, below 5°C.

NOTE:

- Ensure that the Air Guide Cap (882001-000, reference number **R33**) is replaced. Failure to replace the cap will result in altering the airflow through the mask.
- Lubricate all o-rings with a small amount of high-grade silicone grease (900373-006). Alternative lubricants listed below are acceptable:

Description	OTS part number	Manufacturer's model number
Silicone Grease	900373-006	M520 ZIP SLIP SILICONE GREASE
Tribolube	163030-000	Tribolube PC71
Christo-Lube	163026-000	Christo-Lube MCG 111