DETIA DEGESCH GROUP

Care. Protection. Quality.

Degesch America Inc.
P.O. Box 116
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U-Phos® HiFlo System

U-Phos®

PHOSPHINE FUMIGANT

Technical Bulletin: CO2 Check Valve Cleaning & Verification of Proper Operation

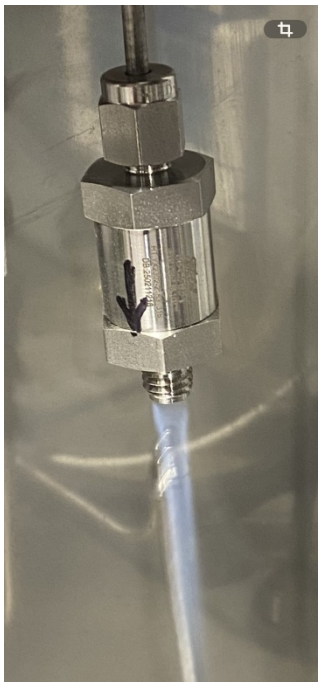
Service Frequency: Every 50 hours of operation **Replacement: Every 200 hours of operation**

1. To mark the correct flow of CO2 through the check valve use a sharpie marker to place an arrow pointing **downward** on the side of the check valve body. Proper operation **MUST always** have the arrow pointing **downward**.
2. Using an 18-millimeter wrench to support the check valve body, use an 11-millimeter wrench to loosen the nut/line at the bottom.
3. This will allow you to carefully move the line away from the bottom of the check valve body.
4. With a **Food Grade Gas CO2** cylinder attached to the HiFlo unit, slowly open the cylinder. (**HiFlo should not be running at any time during this process).**
5. With safety glasses on, verify CO2 is flowing through the check valve (You should hear and see the gas flowing out of the bottom of the check valve body).
6. Let the CO2 flow through the check valve for at least 30 seconds so that it properly flushes any potential debris out of the valve.
7. After flushing, turn the CO2 cylinder off (There should be no more CO2 escaping from the valve and this concludes the cleaning of the check valve).
8. Using an 18-millimeter wrench to support the check valve body, use an 11-millimeter wrench to loosen the nut/line at the top of the check valve body. (Allows you to carefully remove the check valve body).
9. Turn the check valve body with the arrow pointing **upward**.
10. Reattach and tighten top nut with an 11-millimeter wrench to the check valve body, ensuring you support the body of the check valve with the 18-millimeter wrench. (Do not reattach the bottom nut).
11. Slowly open CO2 cylinder. There should be **no** flow of CO2 out of the bottom of the check valve body.
12. Should CO2 flow out of the bottom, the check valve is malfunctioning and should be replaced.
13. Turn CO2 cylinder off.
14. Remove the check valve body with the appropriate wrenches and position the body with the arrow pointing **downward**. (Normal operating position).
15. Tighten all fittings to a snug fit, then apply an additional one-quarter turn.

16. If you encounter resistance beyond normal operation or have questions, contact us at bwarren@degeschamerica.com.
17. Section Recap: Install the valve body with the arrow facing **downward** and secure all fittings to specification.

CO2 Check Valve Normal position

Position to clean/flush Note CO2 escaping



Position to verify it is Working properly

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