

Rexarc

INTERNATIONAL, INC.

ACETYLENE CYLINDER BLOW-BACK AND BLOW-DOWN EQUIPMENT

Why does an acetylene cylinder need to be “Blown Down”?

Acetylene cylinders need to be 'Blown Down' for various reasons, all of which require the removal of the gas contents. As cylinders age, they must be tested to verify they are still structurally sound. Another reason for Blow-Down is if a cylinder is visually damaged beyond acceptable specifications and must be taken out of service. Additionally, a cylinder may need to be Blown-Back if it was overfilled during the filling process.

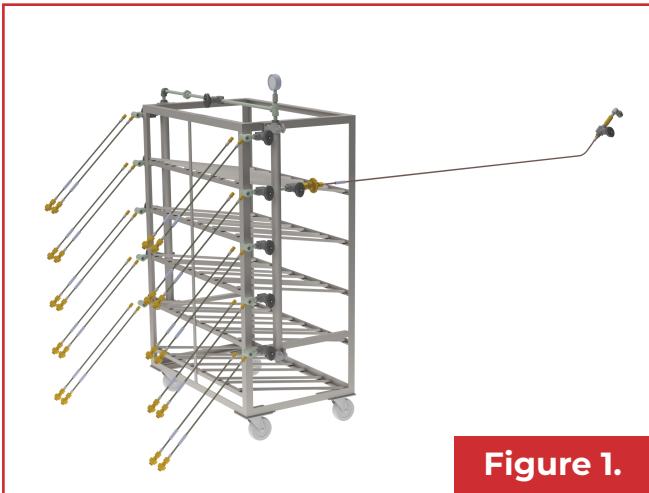


Figure 1.

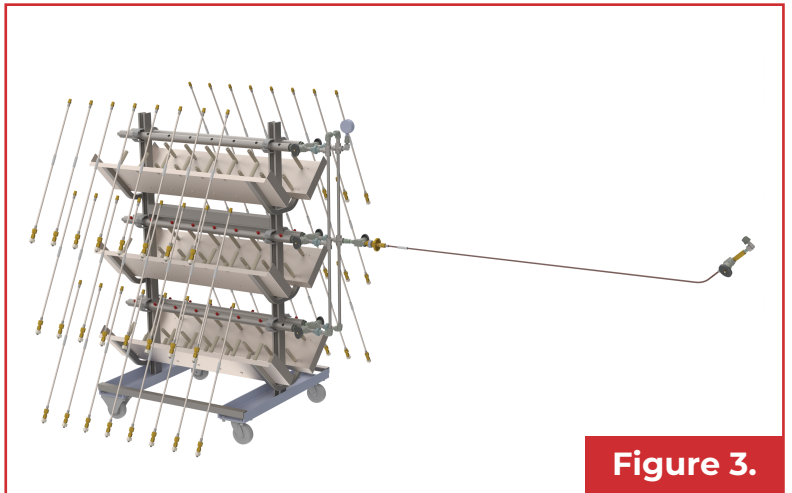


Figure 3.

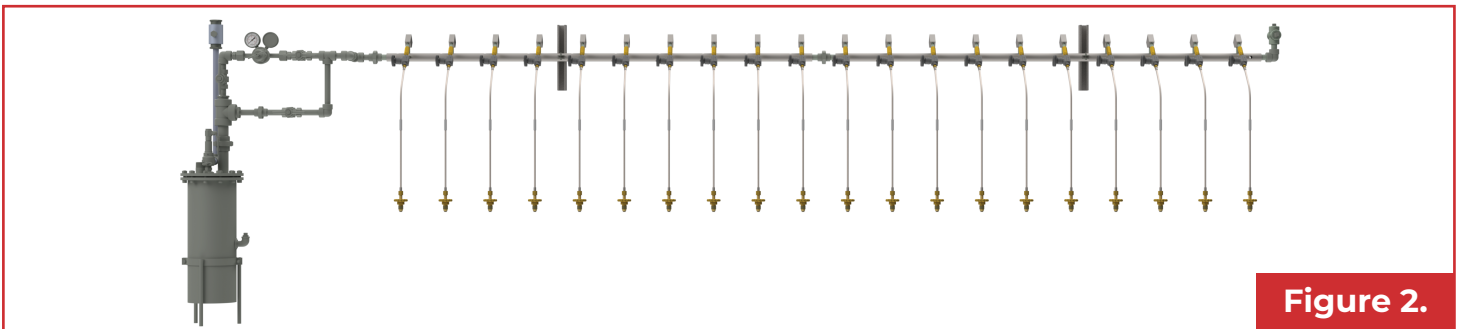


Figure 2.

Ordering Information

Description:

- Blow-back - Blow-down Manifold, 20-Cylinder, CGA300
- Blow-back - Blow-back Manifold, 40-Cylinder, CGA300
- Blow-back - Blow-down Manifold, 20-Cylinder, CGA510
- Blow-back - Blow-down Manifold, 40-Cylinder, CGA510 (Fig 1.)
- Blow-back - Blow-down Cart, 20-Cylinder, 'B' Cylinder (Fig 2.)
- Blow-down - Blow-back Cart, 48-Cylinder, 'MC' Cylinder (Fig 3.)

Part Number:

- 2-04-0729-300-20BD
- 2-04-0729-300-40BD
- 2-04-0729-510-20BD
- 2-04-0729-510-40BD
- 3-02-0217-20BD
- 3-02-0344-48BD

CASE STUDY

Industry Challenge:

When a cylinder is identified as needing to be serviced, it is often set aside for future handling. With the main focus of cylinder filling operations on value-add activities, there is often a build-up of cylinders that require going through a blow back and blow down process. To remove the gas and acetone, it is recommended that the cylinders have the gas removed slowly by connecting them to what is known as a blow back manifold. The majority of cylinder filling operations have such a manifold, but it typically has only a few cylinder connections. Recognizing the constraint, cylinders are occasionally moved to an open area, and the cylinder valve is 'cracked' open, allowing the gas to slowly vent into the atmosphere. Despite being widely known and trained against, this remains the path of least resistance for operators when addressing cylinders quickly. Unfortunately, this practice creates the potential for ignition, and has resulted in multiple incidents worldwide, including fires that have damaged property and caused severe burns to operators.

The Rexarc Solution:

Rexarc has developed a standardized blow back-blow down system for 20 and 40 cylinders, as well as portable 'B' and 'MC' carts, to safely and efficiently remove cylinder contents. This system enables operators to connect a bank of acetylene cylinders of various sizes and pressures above 15 psi, and safely blow back contents to the generator, resulting in significant cost savings. It then removes the remaining contents in a controlled blow down process by venting remaining pressure to atmosphere. The process utilizes a liquid flashback arrester to protect operators and facilities.

With proven success and the Rexarc standard of quality, we proudly offer this standardized system to the gas industry.



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Call today or email to find out more!