

TECHNICAL INFORMATION

Installation and Maintenance Balston® 95A-1/4 Acetylene Filter

These instructions must be thoroughly read and understood before installing and operating this product. Failure to operate this product in accordance with these instructions could present a safety hazard to the user and will void the safety certification of this product. Modification of the unit will result in voiding the warranty. All installation, operation, and maintenance activities should be performed by suitable personnel using reasonable care. If you have any questions or concerns, please call the Technical Services Department at 800-343-4048, 8AM to 5PM Eastern Time (North America only) or email us at: balstontechsupport@parker.com. For other locations, please contact your local representative.

Please save product packaging for future use.

General Description

The Balston 95A-1/4 Acetylene Filter includes a Balston Grade BQ filter cartridge to remove liquid and solid contaminants from the acetylene supply to 99.99% at 0.01 micron. The inlet connection for the acetylene is 3/8" LH (Left Hand Thread), "A" size. The outlet connection for the acetylene filter is 9/16" LH, "B" size.

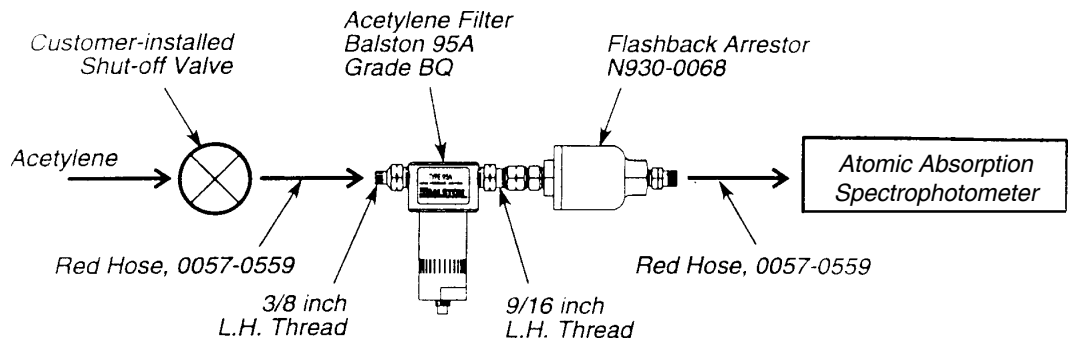


Figure 1 - Installation Diagram

Installation

All installation, operation, and maintenance procedures for the Balston 95A-1/4 Acetylene Filter should be performed by suitable personnel using reasonable care.

Location

The acetylene filter should be located as close to the AA spectrometer as possible to minimize tubing length.

Fittings

Install a shut-off valve upstream from the filter assembly on the acetylene line to isolate it from its gas supply for maintenance and troubleshooting activities.

Hoses

Acetylene hose assemblies (Perkin-Elmer P/N 0057-0059)² are required, but not provided, to install the acetylene filter on your AA spectrophotometer. Refer to Figure 1 for recommended installation.

Acetylene



The maximum working pressure of the acetylene supply is 15 psig (1 barg). Use an outlet gauge pressure of 12 to 14.5 psig. **Never allow the outlet gauge pressure of the acetylene to exceed 15 psig. At higher temperatures, acetylene can decompose with explosive force.** All valves, fittings, and hoses utilized for the acetylene piping should be approved for acetylene service.¹



CAUTION! Use only yellow brass (<65% copper) or stainless steel for all piping components in contact with acetylene. Piping components with a copper content higher than 65% pose an explosion hazard when used in conjunction with acetylene. A flashback arrestor should be installed downstream from the acetylene filter (available from Perkin-Elmer, P/N N930-0068).²

The drain plug on the acetylene filter assembly need not be removed under normal operating conditions. Trace acetone droplets that coalesce will evaporate before draining is required.

NOTE: The acetylene filter is not designed to protect against gross error on the part of the gas supplier or the operator of the AA. Operator should continue to follow recommended operating conditions specified by the instrument manufacturer.



CAUTION! Isolate the inlet acetylene supply line and de-pressurize the unit before starting any maintenance procedure.

The required maintenance for the acetylene filter consists of changing the filter cartridge on an annual basis or more often as needed. Changing the filter takes approximately 5 minutes. After depressurizing the acetylene line, unscrew the bowl of the filter assembly and remove the cartridge. Replace with a new cartridge (Perkin-Elmer P/N N930-1714)² and re-assemble the housing.

Notes:

- 1 All acetylene operating parameters (e.g., pressure and flow rate) should be in accordance with the regulations set forth by the CGA and other compressed gas regulating agencies and AA spectrophotometer manufacturers. Consult Compressed Gas Association Inc. publication CGA G-1 for more information.
- 2 Call Perkin-Elmer at 203-762-1000 for ordering information.

Don't Forget To:

- 1 Complete and mail your registration card.
- 2 Keep your product certification in a safe place.
- 3 Call the Technical Services Department at **800-343-4048**, 8AM to 5PM Eastern Time with any questions or email us at: balstontechsupport@parker.com. (For locations outside North America, please contact your local representative).

Serial Numbers

The serial number for the unit is engraved on the bottom of the label on the front cover. For your own records, and in case service is required, please record the following:

DATE IN SERVICE _____ SERIAL NO. _____

Please have the serial number available when calling for assistance.



Parker Hannifin Corporation
Filtration and Separation Division
242 Neck Road, P.O. Box 8223
Haverhill, MA 01835-0723
Tel: 978-858-0505 Fax: 978-858-0625
www.parker.com/balston

Parker Hannifin UK Ltd
Filter Division Europe
Hermitage Court, Hermitage Lane
Maidstone, Kent ME16 9NT, England
Tel: +44 (01622) 723300 Fax: +44 (01622) 728703
www.parker.com/pag

