

Air-Line Filter

INSTRUCTIONS

⚠ WARNING

Read this manual carefully if you have, or will have, the responsibility for using or servicing the product. Misuse can result in serious personal injury or death.

If this unit is used with an oil lubricated compressor, high-temperature alarms, carbon monoxide monitors, additional filtering systems may be required as per 29 CFR 1910.134.

Air entering this filter must be CGA Grade D as per Pamphlet G-7.1, Commodity Specification for Air.

This MSA Air-Line Filter is used as a final particulate filter and nuisance odor sorbent for breathing air entering NIOSH-certified air-line respirators.

For More Information, call 1-800-MSA-2222 or Visit Our Website at www.MSAafety.com



The Safety Company
MSA 314 (L) Rev. 4

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INSTRUCTIONS

Description

The MSA Air-Line Filter provides high-efficiency filtration of compressed air for breathing purposes; minimum 99% removal of 0.3 micron and larger diameter particulate, including dusts, mists, fumes, smokes, and low concentrations of organic vapors.

System Pressure

Maximum operating pressure is 125 psig.

System Temperature

Maximum operating temperature is 250°F.

Inlet and Outlet Fittings

1/2" NPT female both ends.

Size: 6" x 7.5" high

Weight: 3 lbs

Flow Capacity

Designed for 25 scfm maximum volume at which the initial pressure drop is 1.0 psig for an assembly with two chemical cartridges and a particulate filter.

Efficiency

99% of 0.3 micron when tested according to 30 CFR Part 11 Subpart K.

Uses

Use with constant flow and pressure demand air-line respirators.

Catalog Numbers

MSA Air-Line Filter, complete with one particulate filter and two organic vapor cartridges, P/N 81857.

Filter Replacement Kit (includes 8 items pictured with **), P/N 484923.

Maintenance

Replace filter cartridge and organic vapor cartridges every 1000 hours of use, or sooner if pressure drop increases or odor is detected.

Procedure

NOTE: Refer to Figure 2 to complete the following steps.

1. Remove 4 bolts, washers, and nuts in housing and remove bowl.
2. Unscrew cartridge retainer, turning counter-clockwise.
3. Take note of the 3 gaskets and the position of the cartridge in the system as they are removed.
4. Remove and replace the o-ring seal in head.
5. Replace the new cartridge, filter, and gaskets in reverse order of removal.
6. Replace the bowl and 4 nuts, washers, and bolts.
7. Check for leaks after recharging with air.

⚠ CAUTION

DO NOT exceed maximum operating pressure of 125 psig.

NOTE: Two of these cartridges are used in series with the particulate filter.

Figure 1

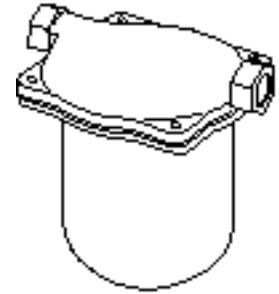


Figure 2

