



Air-Line Filter

part no.
81857

instructions

WARNINGS

THESE INSTRUCTIONS MUST BE CAREFULLY READ BY ALL PERSONS WHO HAVE OR WILL HAVE THE RESPONSIBILITY FOR USING OR SERVICING THE PRODUCT.

If this unit is used with an oil lubricated compressor, high-temperature alarms, Carbon Monoxide Monitors and additional filtering systems may be required per 29 CFR 1910.134.

Air entering this filter must be CGA Grade D as per Pamphlet G-7.1 ANSI Z86.1-1973.

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

Manufactured by

MINE SAFETY APPLIANCES COMPANY
PITTSBURGH, PENNSYLVANIA, U.S.A., 15230

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.



Figure 1

SYSTEM PRESSURE

Maximum operating pressure 125 psig.

SYSTEM TEMPERATURE

Maximum operating temperature 250° F

INLET AND OUTLET FITTINGS

one-half inch NPT Female both ends.
Size: 6'' x 7 1/2'' high
Weight: 3 pounds

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 .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.....81857
Filter Replacement Kit (includes 8 items, pictured with **)
Part No. 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:

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

Do NOT exceed maximum operating pressure of 125 psig.

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

Figure 2

