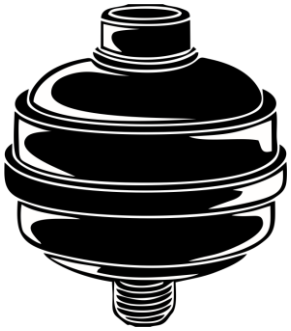
MOTOR GUARD CORPORATION

MODEL D-12, D-13, D-14
DISPOSABLE FILTERS
For Compressed Air

APPLICATION & FEATURES

The Motor Guard Disposable Filter is a point-of-use filter designed to remove traces of water vapor, oil aerosols and particulate from the compressed air stream. The unit is designed for installation directly upstream of the component being protected. Applications include paint spray equipment, blow guns, pneumatic control and instrumentation and any other devices requiring clean, moisture free air. The filter is bi-directional and will function equally well installed in either orientation.

Motor Guard Disposable Filters are intended to supplement, rather than replace conventional moisture traps, filters and dryers. While conventional filters remove most moisture and contaminants, the Motor Guard Disposable Filter will remove moisture and contaminants that might pass through or enter the airstream between the conventional filter and the point of use.



Model	Port 1	Port2	Application
D-12	1/4 NPT (M)	1/4 NPS (F)	Paint Spray Guns
D-13	1/4 NPT (F)	1/4 NPT (F)	General Industrial & Laboratory Use
D-14	1/4 NPT (M)	1/4 NPT (F)	

SPECIFICATIONS

PHYSICAL DATA

Dimensions:
- D-12/14 2.40 in Wide x 2.70 in Long (61 mm Wide x 69 mm Long)
- D-13 2.40 in Wide x 2.80 in Long (61 mm Wide x 71 mm Long)

Port Size: See Table
Housing Material: ABS
Operating Weight: 1.5 oz. (43 g)

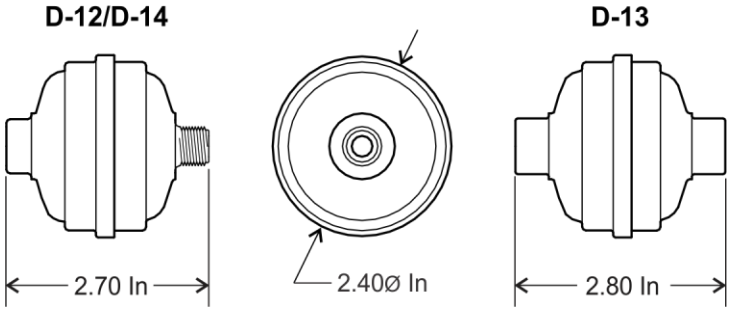
OPERATING DATA

Maximum Airflow Rate (STP): 30 ft^3/min (850 L/min)
Maximimum Inlet Pressure: 100 lb/in^2 (690 kPa)
Operating Temperature Range: 40 – 120 °F (4 – 48 °C)

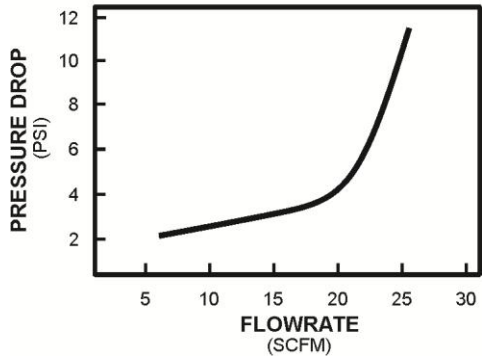
PERFORMANCE DATA

Nominal Filtration Rating: .01 Micron (.254 μm)
Pressure Drop at 15 SCFM Flowrate: 3 lb/in^2 (21 kPa)
Nominal Moisture Holding Capacity: 1.0 oz. (28 g)

DIMENSIONS



PERFORMANCE



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Rev 07/25 33010

INSTALLATION & OPERATION

WARNING: Shut off air supply and drain residual pressure before attempting to service any part of the compressed air system!

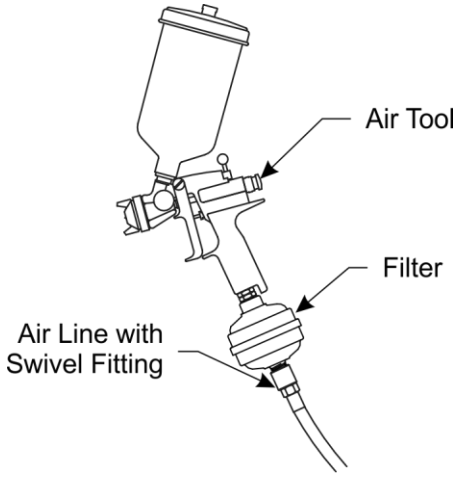
INSTALLATION

Filter may be installed in either direction and should be installed as close as possible to the actual point of use, downstream of other filters and water traps. In no case should the filter be installed within 20 feet of supply line length of the compressor. Failure to maintain this distance will cause excessive water vapor to pass through unit.

This filter is designed for installation on a 1/4 inch line, use appropriate fittings for installation on other line sizes. Do not apply thread sealing compound or Teflon tape to threads on filter or mating pipe as doing so can cause the fittings to crack during tightening. When installing filter, grasp the housing by hand and tighten in a clockwise manner. Do not use a vise, pliers or other mechanical means as doing so may damage the threads or housing, leading to injury.

After installation, pressurize slowly to avoid high-pressure surge. Check for leaks and re-tighten fittings as needed.

WARNING: This product is intended for use in industrial compressed air systems only. Do not install where pressures or temperatures can exceed those listed above.



OPERATION

Filter should be operated within the parameters listed above. During operation and before each use, inspect filter for signs of leaking or damage. Remove and discard filter immediately if any damage is noted.

WARNING: Do not clean with or expose the filter to solvents, ketones, etc. as use of such chemicals will adversely affect the filter housing and could lead to serious injury.

When used on a flexible air hose, keep hose free of snags as extra tension could lead to failure at the connection ports.

Filter should be replaced before the element has become saturated and will no longer trap water. The following general guidelines may be used for the replacement interval:

Application	Replacement Interval
Heavy Daily Use on Dirty Air Systems	Daily
Moderate Daily Use on Average Air Systems	Weekly
Intermittent Use on Clean Air Systems	Monthly

Dispose of spent filter in accordance with local regulations.

LIMITED WARRANTY

Motor Guard Corporation assumes the responsibility of providing equipment that is free from defects in workmanship and material. Should this product fail due to a defect in workmanship or material, Motor Guard Corporation will repair or, at its option, replace the product without charge, other than the transportation charges, provided that the product is returned to the factory, transportation prepaid, within one year of the date of purchase. Please contact Motor Guard Corporation for return authorization and shipping instructions.

This limited warranty does not cover damage to the product due to neglect, misuse or accident, nor does it cover any loss, damage or expense, either direct, indirect or consequential, arising from the non-function of this product. This limited warranty notice replaces any other warranty information, implied or otherwise, enclosed with this product or appearing in literature referring to this product.