

# AIR PREPARATION SPECIALISTS

Filters • Regulators • Lubricators • Stainless Steel • Custom Solutions



Where Custom Solutions Become Standard.



**M**onnier, Inc. has been manufacturing the highest quality filters, regulators and lubricators in Algonac, Michigan since 1929. Our expansive line of air preparation products ensures that any compressed air system has the appropriate level of filtration, a precise and consistent line pressure and, when appropriate, the correct amount of lubricant in the air.

### **Particulate Filters**

Available with 20, 10 or 3 micron elements, Monnier's particulate filters feature depth filtration elements for maximum particulate removal with minimal pressure drop even over extended duty cycles in extremely demanding applications. The centrifugal action created by the whirl disc provides excellent bulk water removal characteristics as well.

### **Coalescing Filters**

A weave of borosilicate glass fibers form millions of complex paths within Monnier's coalescing elements, ensuring that liquid and solid contaminants are removed as the air passes through the cross section of the element.

### **Regulators**

Monnier's regulators provide precise and repeatable pressure to downstream components. The 1/8" through 1/2" assemblies feature a diaphragm design for maximum precision while the larger sizes utilize a piston construction to provide greater flow.

### **Lubricators**

The Monnier Micro-Vapor™ lubricators provide a consistent ratio of oil to air to guarantee the long life of downstream pneumatic equipment. Filter/Regulators and FRL Combinations: A wide variety of combinations can be ordered pre assembled to minimize installation time.

### **The Strength of the Monnier Product Line**

Monnier machines 97% of the metal components in its air preparation equipment from bar stock, providing enhanced strength, durability and ruggedness. In demanding applications, Monnier's filters, regulators and lubricators will outlast its competition routinely.

### **Anodizing**

All of Monnier's products can be ordered anodized in any of our eight standard colors. The anodizing process adds a layer of corrosion resistance, surface hardness and enhanced aesthetics.

**MONNIER IS  
PROUD TO BE MADE  
IN AMERICA!**

**WARRANTY:** Monnier, Inc. warrants each product against defects in material and workmanship for a period of one year from the date of manufacture providing its use was in accordance with Monnier, Inc. recommendations. If the product fails to perform as warranted, Monnier, Inc. will, at its option, repair or replace the product free of charge. The company will not be liable for incidental or consequential damages. We make no other warranty, expressed or implied, including warranties of merchantability or fitness for a particular purpose.



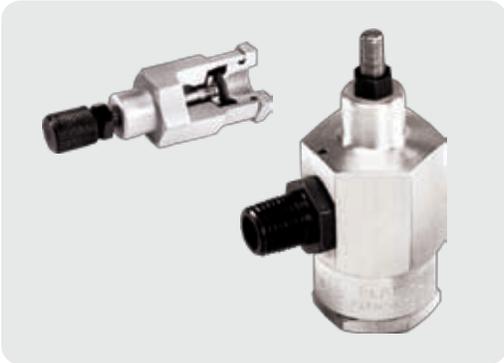
## Stainless Steel

Monnier now offers a line of miniature particulate filters, coalescing filters, regulators and filter/regulators in 316 Stainless Steel. Designed to withstand caustic solutions, harsh operating conditions and other demanding applications, the Monnier Stainless Line is ideal for the following industries:

- Food preparation and packaging
- Natural gas
- Pharmaceutical
- Offshore
- Wastewater treatment

Designed with those demanding applications in mind, highlights of the Monnier Stainless Line include:

- **316 Stainless Steel:** All metal components, including internals, are made of 316 SS, making them the most impervious to any sort of degradation.
- **NACE Compliant:** Each component of the Stainless Line adheres to the NACE MR0175 standard.
- **Flexibility:** All options found in our machined aluminum miniature series are available in the Stainless Line, including pressure ranges, element ratings and automatic drain options.



## Flow Controls

### Check Valves

Lightweight aluminum O-Check® features a dilating o-ring as the only moving part. Quick to open, quick to close, O-Check 'outflows' the competition, will last millions of cycles (factory tests to 50 million cycles show no discernible wear) and always provides positive sealing (no bubble leakage).

### Flow Controls

Right angle flow controls incorporate O-Check as the bypass valve. MRFC permits full free flow in one direction, accurately metered flow in opposite direction. Standard metering needle design includes compound needle taper of 5° and 15° and fine adjustment stem threads (MRFC 1/4 for example is 1/4" - 36). Right angle design eliminates the need for pipe elbow fitting normally used to make 90° turn at cylinder port.

### Benefits

- Compact design adds to the appearance of any type of equipment.
- All valves are individually tested before they leave the factory.
- Tests up to 50 million cycles show no discernible wear and still perform "bubble-tight."



## Reservoirs

Designed to be placed between the valve and cylinder in a pneumatic circuit, Monnier's Air/Oil reservoirs provide the predictable, even cylinder actuation of a hydraulic system in a low cost pneumatic circuit.

### Features

- Available with aluminum or polycarbonate bowls
- Available in capacities from 12 to 70 cubic inches (6.65 to 40.37 ounces)

# Custom Solutions

Monnier has become known as the air preparation manufacturer where "custom solutions become standard" because of its extensive expertise in developing application specific products for customers.

The following provides just a few examples of the custom product solutions Monnier has developed:



## A: Plunger Actuated Regulator

- Application: Food service
- Requirement: A regulator that provides regulated pressure in relation to the actuation of a lever.
- Solution: A plunger actuated regulator that increases secondary pressure as the plunger is depressed.

## B: Natural Gas Filter/Regulator

- Application: Natural gas scrubbers
- Requirement: A filter/regulator capable of flowing natural gas or compressed air in a corrosive environment.
- Solution: A custom black anodized filter/regulator with internals designed to withstand natural gas and its byproducts. The glass filled acetal bonnet offers convenient adjustment while minimizing the susceptibility to chemical attack.

## C: Regulator/Valve Manifold

- Application: Instrumentation
- Requirement: Helium compatible regulator integrated into valve manifold.
- Solution: Custom cartridge style regulator designed with special "zero leak" internals assembled into custom manifold.

## D: Bus/Truck Driver Seat Regulator

- Application: Transportation
- Demands: Accuracy, repeatability, compact size
- Solution: Custom regulator with lower profile bonnet, custom mounting connection, preset to +/- 2 PSIG of the set point.

## E: CO2 Beverage Regulator

- Application: Food & Beverage
- Demands: Preset, accurate CO2 regulator to fit preexisting manifold.
- Solution: Miniature regulator with custom manifold mounting interface preset to OEM specifications.

M00413

