# EZ600 through EZ604 35 Micron Filter, Regulator & Gauge Installation Instructions

The EZ600 35 Micron Filter is 1” long and 1” in diameter. It is used to keep dirt and particulates from the pneumatic system. Moisture is normally not a problem, because system components are corrosion resistant, but dirt will wear the seals and o-rings in the actuators, valves and indicators. Any component with moving parts is susceptible to wear from dirt. This is the reason E-Z Air recommends using one in your control system for long, trouble free operation.

As shown above, the filter may be disassembled for cleaning. No tools are needed. The filtering element is sintered bronze, and can be cleaned in solvent, blown dry with compressed air and replaced.

The inlet and outlet ports are interchangeable on the EZ600 filter. Both are 1/8”NPTF connections. For best protection, install the filter between the compressed air source and the regulator. If this is not possible, install the filter after the regulator but before any valves. Fittings are not supplied because of the many variations in mounting.

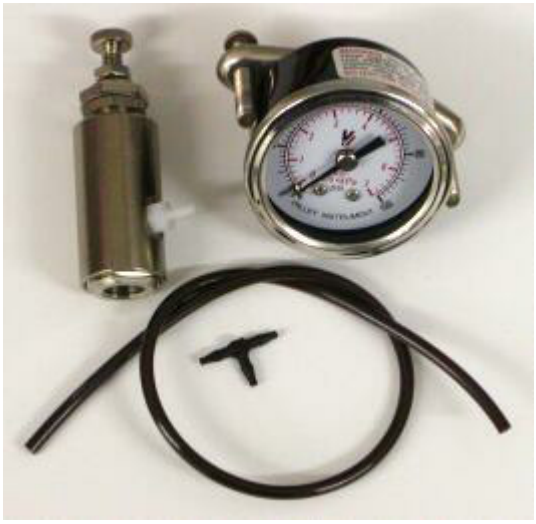
One way to plumb the filter in, if it is used after the regulator, is to use two EZ050 1/8”NPTM to 1/16” barb fittings. This allows the filter to be placed anywhere, but inside the control panel is probably best in this case. See the picture below left.

The filter can be secured inside the panel with a pipe or EMT clamp, as shown above right.

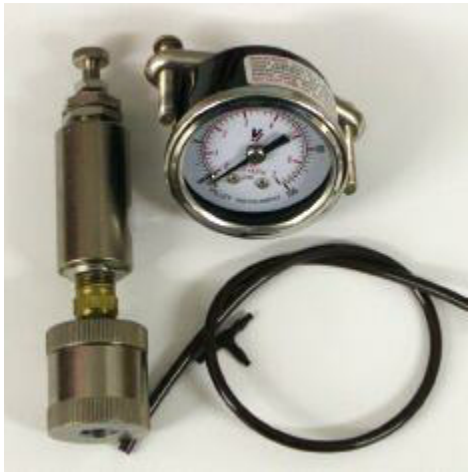
With the ability to clean the filter as needed, the EZ600 35 Micron Filter is a good choice for your E-Z Air Motion Control system.

The EZ601 Regulator is a small non-relieving regulator that can mount in your panel in a 15/32” to 1/2” or 11.9mm to 12.7mm hole, the same size as the EZ610 - EZ635K valves. Mounting brackets EZ698 or EZ699 may also be used for mounting. Overall length is approximatly 2 1/2”. It extends about 1 3/4” below the panel with no fitting in the inlet. High pressure air, up to 125 p.s.i., is input into the bottom 1/8”NPTM inlet. The regulated air is output from the white barb fitting on the side. Set the output pressure, by adjusting the knurled knob on top of the regulator, to 40 p.s.i. using a pressure gauge (EZ602 or similar) for system operation. The adjustment may be locked by tightening the hex nut on the Regulator screw.

The EZ602 Pressure Gauge reads air pressure from 0 to 100 p.s.i. (0 to 7 bar). The gauge size varies, but is typically 1 1/2” (38.1mm) to 1 5/8” (41.3mm) in diameter. Use this gauge to check system pressure. The gauge has a 1/16” barb fitting installed as a pressure inlet. This may be removed and the 1/8”NPTM fitting used for input if desired.



The EZ603 Regulator & Gauge Combination includes an EZ601 Regulator, an EZ602 Pressure Gauge, an EZ230K Tee and a foot of tubing. Install the regulator and gauge in your panel. Attach the tubing from the regulator output through the Tee to the Gauge. The unused barb on the Tee is the output to your system. Attach your air supply to the 1/8”NPTF port on the regulator. Set the pressure to 40 p.s.i. using the knurled knob on the Regulator and the Gauge.



The EZ604 Filter, Regulator & Gauge Combination has all the components needed for filtering and regulating the air to your E-Z Air system. The EZ600 Filter comes attached to the bottom of the EZ601 Regulator using an EZ074 1/8”NPTM - 1/8”NPTM fitting and EZ830 thread sealant. Mount the components in your panel. Attach the tubing from the regulator output through the Tee to the Gauge. The unused barb on the Tee is the output to your system. Apply air to the 1/8”NPTF input port on the Filter. Set output pressure to 40 p.s.i. using the knurled knob on the Regulator and the Gauge.

Visit our web site at **www.cocry.com** for more E-Z Air information.