

Backpressure Regulator Kit for Agilent GCs

(cat.# 20634)

Instrument Preparation

1. Turn off the carrier gas flow source to the GC.
2. Remove the left side panel of the GC.
3. Locate the Agilent backpressure regulator (labeled “column head pressure”) that is to be exchanged. Disconnect the three $\frac{1}{16}$ -inch stainless steel lines on the back of the Agilent backpressure regulator and mark which is the inlet, outlet, and gauge line.

Backpressure Regulator Installation

Removing the Agilent 0-30psi backpressure regulator and installing the Restek 0-60psi backpressure regulator.

1. Using a $\frac{1}{16}$ -inch allen hex key, remove the backpressure regulator knob on the front of the GC (labeled “column head pressure”).
2. Carefully peel back the front panel label around the backpressure regulator.
3. Remove the knurl nut on the front of the backpressure regulator.
4. Remove the large $\frac{3}{4}$ -inch bulkhead nut that is holding the backpressure regulator in place. Slide the 0-30psi backpressure regulator backwards to remove it from the GC.
5. Install the 0-60psi backpressure regulator in the GC. Secure it with the $\frac{3}{4}$ -inch bulkhead nut and the knurl nut that were removed earlier.
6. Press the front panel label back onto the GC.
7. Attach the column head pressure knob to the front of the backpressure regulator using a $\frac{1}{16}$ -inch allen hex key.
8. Connect the $\frac{1}{16}$ -inch inlet, outlet, and gauge lines that were removed earlier to the back of the new regulator using the $\frac{1}{8}$ -inch metal compression fittings included.

Note: The Restek 0-60psi backpressure regulator uses metal compression-type nuts and ferrules to seal the 1/8-inch terminus lines rather than the white plastic nut and elastomeric ferrules used by Agilent.

Pressure Gauge Installation

Removing the Agilent 0-30psi pressure gauge and installing the Restek 0-60psi pressure gauge.

1. Disconnect the $\frac{1}{16}$ -inch line from the Agilent pressure gauge.
2. Remove the $\frac{1}{16}$ -inch nut holding the pressure gauge in the GC and remove it from the instrument by pulling it backwards.
3. Install the Restek 0-60psi pressure gauge in the GC. Secure it with the $\frac{1}{16}$ -inch nut that was used to hold the Agilent 0-30psi gauge in place.
4. Connect the $\frac{1}{16}$ -inch line to the 0-60psi pressure gauge using the $\frac{1}{8}$ -inch compression fitting included on the pressure gauge.

Leak Checking

1. Turn on the carrier gas source flow and pressurize the injector to 60psi by using the blank $\frac{1}{16}$ -inch ferrule provided. Leak-check all backpressure regulator and pressure gauge gas lines using the Restek Leak Detector (cat.# 22839).
2. Replace the side panel of the instrument.

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**Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your Restek representative)
if you have any questions about this product or any other Restek product.**



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