



INSTRUMENTS

Flow Through Adapters:

30-0951-CSA-01

30-0951-ST-01

30-0951RK-01

30-0951RK-HS-01

30-0951RK-OC-01

30-0951RK-IR-01

30-0951RK-IR01S

Part Number: 71-0281RK

Revision: B

Released: 9/18/18

Description

The attached detector head operator's manual can be used in conjunction with this supplement for the 30-0951-CSA-01, 30-0951-ST-01, 30-0951RK-01, 30-0951RK-HS-01, 30-0951RK-OC-01, 30-0951RK-IR-01, or the 30-0951RK-IR01S flow through adapter.

The flow through adapter includes a detector adapter and a detector chamber with two compression fittings.

A detector adapter gasket seals to the 1/2" NPT combustible sensor when installed. A detector adapter O-ring seals to all other types of detectors when installed. This O-ring is different for different types of detectors.

A detector chamber O-ring seals the detector chamber to the detector adapter. This O-ring is the same for all versions.

The detector adapter and detector chamber for the -ST-01 flow through adapter are made of PVC to prevent sample gas absorption. The detector adapter and detector chamber for all other versions are made of aluminum.

The material of the compression fittings depends on the flow through adapter part number.

Flow Through Adapter Part Number	Fitting Material
30-0951-CSA-01	brass
30-0951-ST-01	stainless steel
30-0951RK-01	brass
30-0951RK-HS-01	stainless steel
30-0951RK-OC-01	brass
30-0951RK-IR-01	brass
30-0951RK-IR01S	stainless steel

Installation

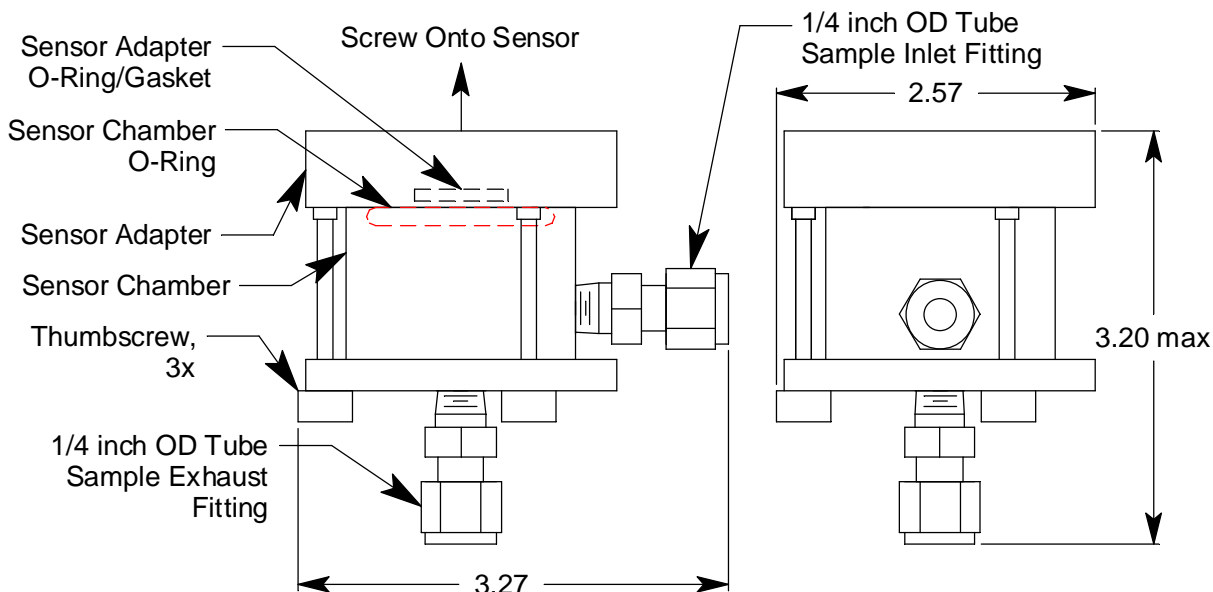


Figure 1: Outline and Mounting Dimensions/Component Location

1. The flow through adapter is normally shipped installed to the detector. If it is not installed, screw the flow through adapter onto the detector tightening firmly by hand.

CAUTION: Make sure the flow through adapter is installed tightly and after installation is complete, verify that the flow through adapter is still tightened firmly onto the detector to avoid possible leaks.

2. If necessary, re-orient the detector chamber so the inlet fitting faces away from the mounting surface by unscrewing the three thumbscrews, rotating the detector chamber, and tightening the three thumbscrews.
3. Install and startup the detector head as described in the detector head operator's manual. Make sure there is sufficient room between the detector and the mounting surface for the flow through adapter.
4. The inlet and exhaust fittings accept 1/4" OD rigid metal tubing such as copper, aluminum, stainless steel, or PTFE Teflon. The inlet fitting is located on the side of the detector chamber and the exhaust fitting is located on the bottom. Insert the desired length of tubing into each fitting and tighten the fittings so that the ferrules crimp onto the tubing.

For -ST-01: PTFE Teflon is recommended for the inlet line. If something other than PTFE Teflon is used, the tubing may absorb the sample gas. The maximum recommended inlet line is 30 feet. Contact RKI Instruments Inc. for sample lines longer than 30 feet.

5. Install appropriate device(s) (pump, aspirator, etc.) to draw sample to the detector.

NOTE: Be sure to use the inlet and exhaust ports as intended to ensure correct sensor response and to allow any accumulated liquid to drain out the bottom of the flow through adapter.

6. Calibrate the detector head as described in the attached manual and in the next section.

NOTE: Calibrate the detector head with the flow through adapter installed to ensure an accurate reading.

Calibration

A demand flow regulator should be used for calibration.

1. Follow the calibration instructions outlined in the attached detector head manual.
2. When the instructions call for applying gas, connect the cylinder.
 - If you are drawing sample through the system, connect the cylinder to the inlet fitting of the flow through adapter.
 - If you are pushing sample through the system, connect the cylinder to the pump inlet.
3. Perform a calibration as outlined in the attached detector head manual.
4. When the instructions call for removing the gas, disconnect the cylinder.

Parts List

See the table below for spare parts not listed in the attached detector manual.

Table 1: Parts List

Part Number	Description
07-0107RK	Gasket, for LEL type detector adapter (rainshield removed)
07-7123RK	O-ring, for replaceable-sensor, CSA LEL, and super toxic detector adapter
07-7218RK	O-ring, for 3/4 NPT IR detector adapter
07-7225RK	O-ring, for detector chamber
13-1070RK	Captive panel screw, 10-32 x 1.75
81-1054RK	Regulator, demand flow, for 58- and 103-liter calibration cylinders
81-1055RK	Regulator, demand flow, for 17- and 34-liter calibration cylinders