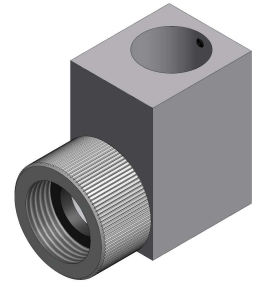


## AGG90.U

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### Product Description

AGG90.U is a right angle adapter for mounting side-viewing flame scanner QRI2B2.B180B or QRA2... onto the end of a flame scanner tube. If the flame scanner tube has high scanner tube temperatures, thermal barrier **THERMAL-75X75** should be used between the flame scanner tube and AGG90.U. **THERMAL-75X75** can be used on flame scanner tubes with scanner tube temperatures up to 250°F. Additionally, heat insulation glass **AGG02** can be installed into **THERMAL-75X75** for certain applications.



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### Recommended Installation Tools

The following tools are recommended for installing AGG90.U:

- 1/16" hex key

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### Installation Procedure

1. If heat insulation glass AGG02 is not needed, go to step 2. Place thermal barrier **THERMAL-75X75** so that the end with internal threads is facing up. In order, drop in the O-ring, glass, wave washer, and snap ring as shown in Figure 1. The snap ring should snap into the annular groove of **THERMAL-75X75**.

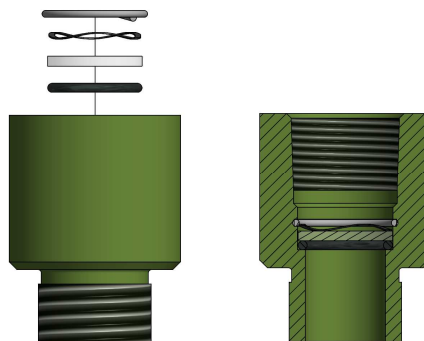
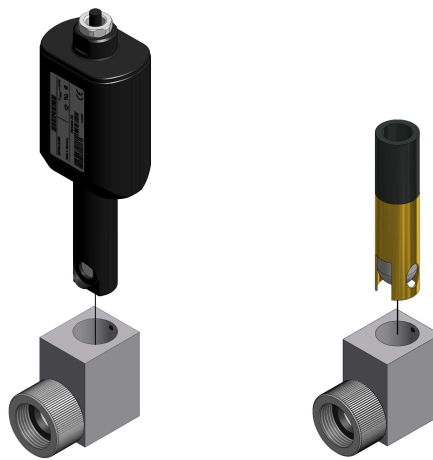


Figure 1: Heat Insulation Glass Installation

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## Installation Procedure (continued)

2. If thermal barrier THERMAL-75X75 is not needed, go to step 3. Screw the thermal barrier onto the end of a 3/4" NPT flame scanner tube.
3. Slide flame scanner QRI2B2.B180B or QRA2... into the bore of AGG90.U until it bottoms out as shown in Figure 2. Rotate the flame scanner so that the scanner eye is looking directly out of the threaded hole in AGG90.U. Using a 1/16" hex key, gently fasten the set screws in the back of AGG90.U into the housing of the flame scanner. Maximum torque for these set screws is 5 in-lb.



**Figure 2: Flame Scanner Installation**

4. Mount AGG90.U onto the end of a 3/4" NPT or 3/4" NPSM flame scanner tube, or if used, onto the external threads of THERMAL-75X75. AGG90.U has a swivel connection at the end so that the flame scanner can be positioned in any orientation for clearance or ease of wiring. If the swivel connection is loose on the flame scanner tube after tightening, remove one of the two rubber washers housed in the threads of AGG90.U. AGG90.U can be used with smaller flame scanner tubes by using a pipe bushing having 3/4" NPT male threads and the appropriate size female threads. It is not recommended to use a flame scanner tube with an internal diameter of less than 0.62" (1/2" schedule 40 pipe).

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