

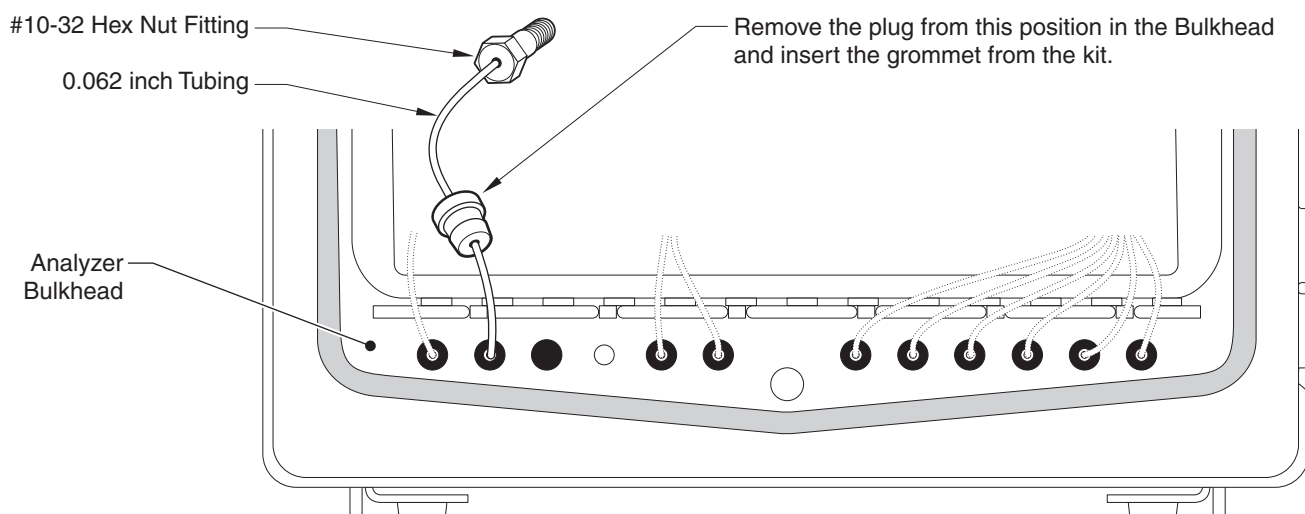
Adding a Quality Control Standard Stream to the APA 6000™

Quality Control Standards

To install a quality control standard system, follow these steps:

1. Locate the carboy near the analyzer and above the level of the sample conditioning block. The carboy must be vented to allow the standard to be drawn from the carboy.
2. Open the analyzer door. Remove a blank rubber plug from the bulkhead on the same side of the analyzer as the sample conditioning block.
3. Thread the 0.062 in. diameter tubing through the rubber grommet from the kit. Return the grommet with the tubing to the empty hole and push it into the bulkhead (see [Figure 1](#)).

Figure 1 Installing the Quality Control Standard Tubing in the Analyzer Bulkhead



4. Thread the tubing out through the hole next to the sample tubing in the back of the analyzer. Route this tubing with one end terminating at the spigot of the carboy and the other at the rotary valve (see [Figure 2](#)).
5. Remove the plug at port 3 of the rotary valve. If the end of the tubing is angled or irregular, cut it clean and square. Put a #10-32 hex nut fitting and ferrule on the tubing as shown in [Figure 3](#). Install it in port 3 of the rotary valve.
6. Put the 1/4-28 flangeless nut fitting and ferrule on the free end of the tube (see [Figure 4](#)). Screw the nut and ferrule into the adaptor in the spigot of the carboy.

Note: The standard must be of high quality and be filtered to at least 0.5 μm .

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Figure 2 Thread Tubing out of the Back of the Analyzer and Terminate at the Carboy

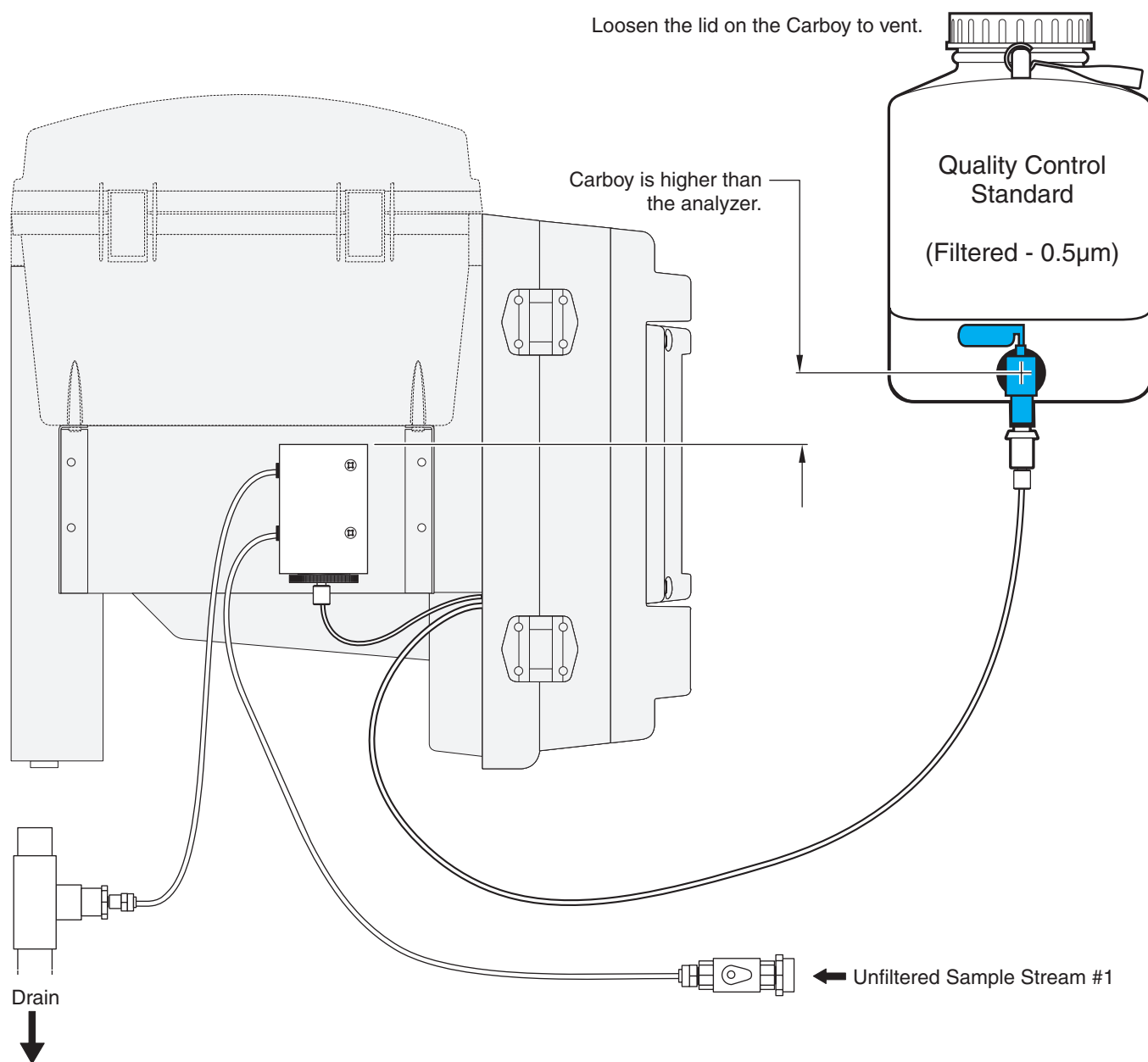


Figure 3 #10-32 Fitting Assembly (Valve Head Assembly)

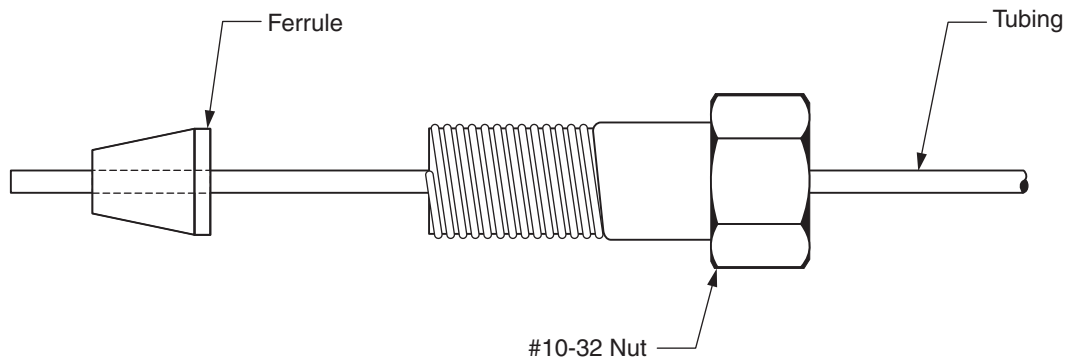
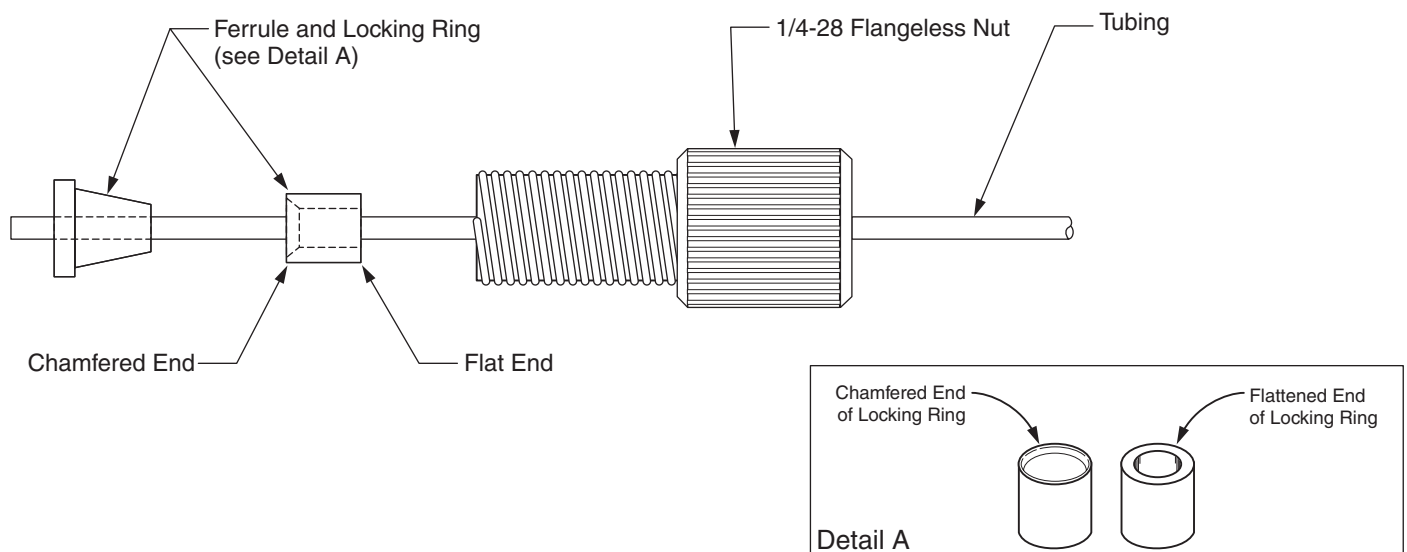


Figure 4 1/4-28 Fitting Assembly



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7. After the carboy is plumbed to the analyzer, set up the standard as a second sample stream:

- a. Add the quality control stream to the analyzer:

Key Press	Menu Selection
1. MENU	
	SENSOR
2. ENTER	
	SELECT SENSOR
	Select sensor by name
3. ENTER	
	SENSOR DIAGNOSTICS
4. ENTER	
	SAMPLE STREAMS
5. ENTER	
	TWO
6. ENTER	

- b. Assign a measurement to channel for the quality control stream:

Key Press	Menu Selection
1. MENU	
	AQUATREND MENU
2. ENTER	
	DISPLAY SETUP
3. ENTER	
	MEASUREMENT TO CHANNEL
	Select the sensor to be attached
4. ENTER	
	ATTACH
	Select the channels to which the measurement is to be attached
5. ENTER	
	ATTACH or CANCEL
	Confirm the attachment or exit without making changes
6. ENTER or EXIT	

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8. Use the sample sequencing function to control the frequency of the readings taken from the new sample stream.

Key Press	Menu Selection
1. MENU	
	SENSOR
2. ENTER	
	SELECT SENSOR
	Select sensor by name
3. ENTER	
	MEASUREMENT OPTIONS
4. ENTER	
	SAMPLE SEQUENCE
5. ENTER	
	STEP X
	Select the first unused step
6. ENTER	
	SAMPLE NUMBER
	Assign either sample stream 1 or 2 to the step
7. ENTER	

For each “STEP X” (1-8) in Step 5 above, choose one of the measurement streams to sequence. The instrument will analyze in this sequence down to the first step left unused and will then repeat the sequence. For example, if you want the analyzer to alternate readings between the sample and the quality control standard, you would only program 1, 2. If you want the analyzer to read the quality control standard every fourth measurement, program 1, 1, 1, 2.



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