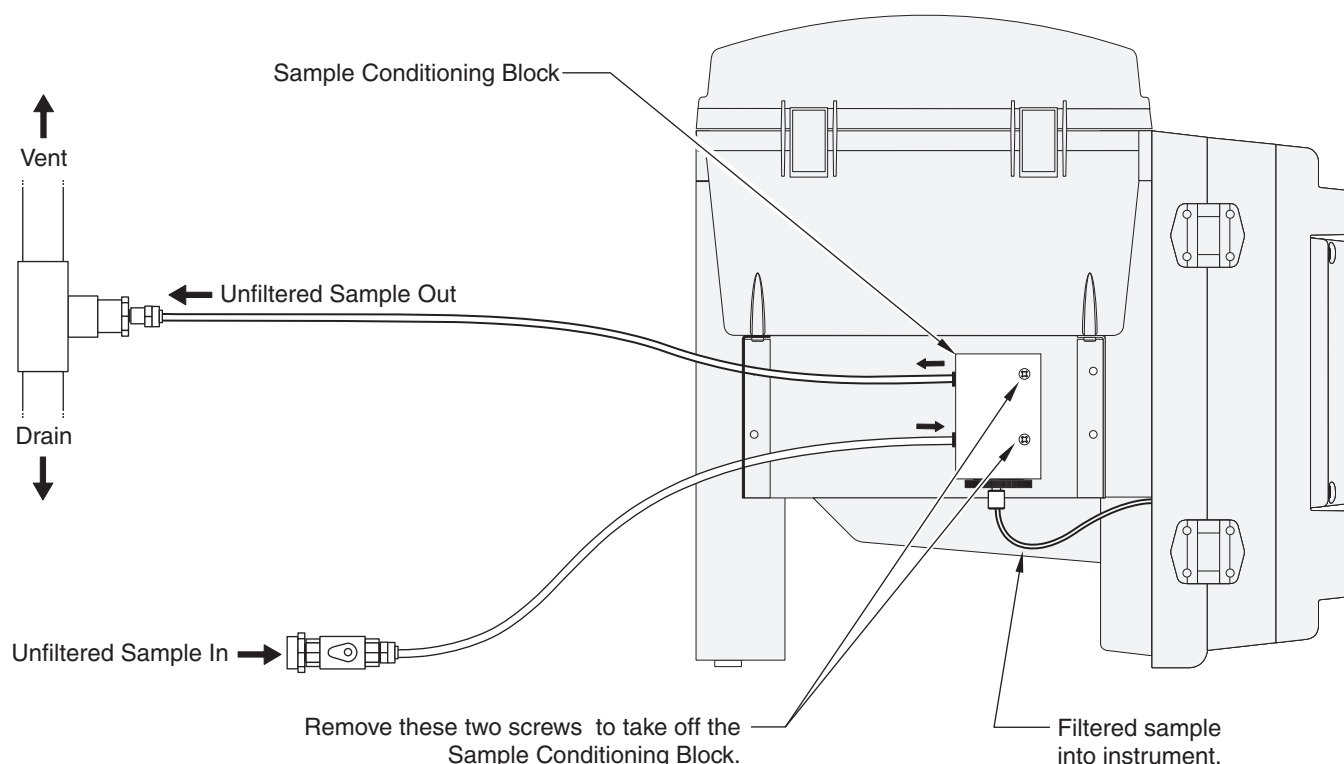


Adding a Second Sample Stream to the APA 6000™ Analyzer

APA 6000 analyzers can measure up to 2 sample streams. To install a second sample stream follow these instructions.

1. Remove the two screws holding the sample conditioning block to the side of the analyzer. See [Figure 1](#).
2. Place the metal filter mounting plate from the kit on top of the original sample conditioning block as shown in [Figure 2](#). Install the original screws through the holes in the plate and the block and tighten them to fasten the block to the side of the analyzer.

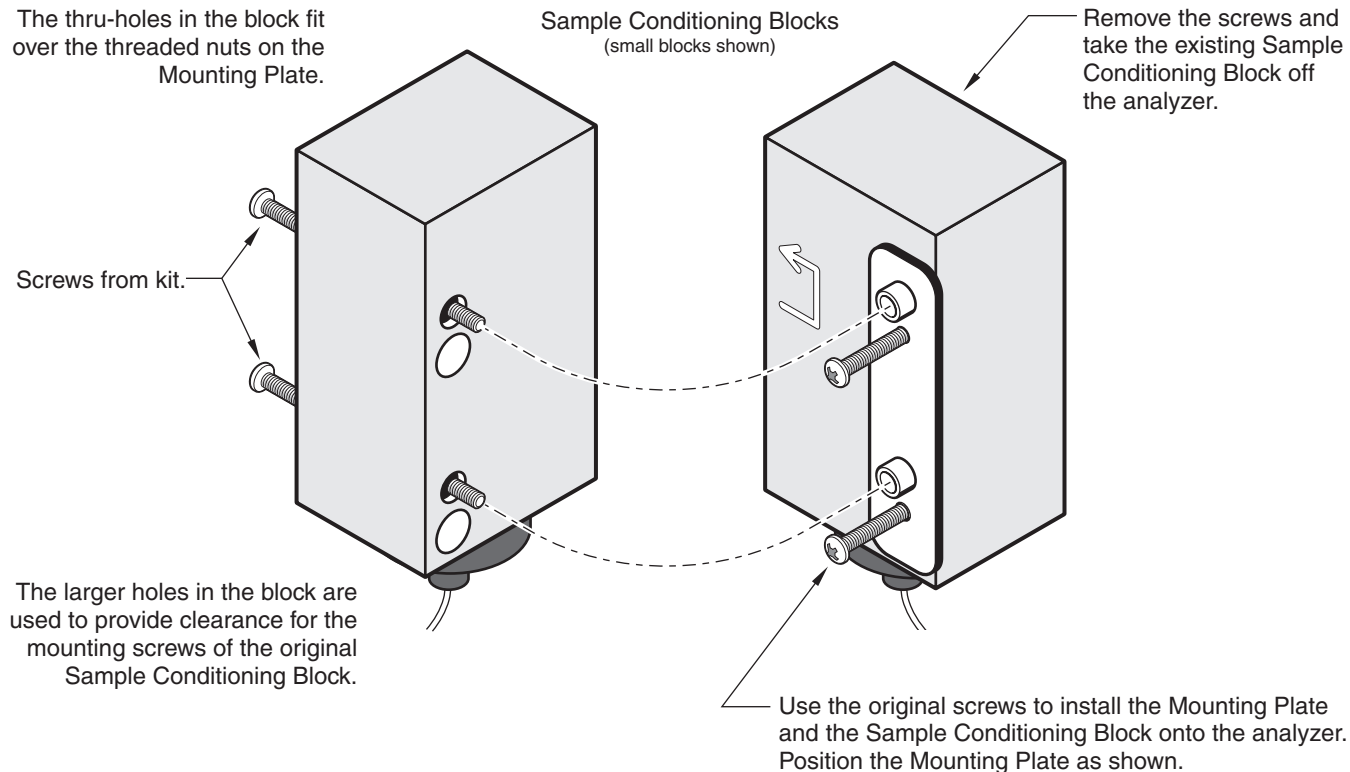
Figure 1 Remove the Sample Conditioning Block Screws



3. Place the second sample conditioning block over the mounting plate so that the block's mounting holes fit over the threaded nuts of the mounting plate.
4. Install the two screws from the kit through the holes in the second sample conditioning block and into the threaded nuts in the mounting plate.
5. Open the analyzer door. Remove a blank rubber plug from the bulkhead on the same side of the analyzer as the sample inlet block.
6. Thread the 0.062 in. 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 3](#)).

Adding a Second Sample Stream to the APA 6000™ Analyzer

Figure 2 Attaching the Mounting Plate to the Sample Conditioning Block



7. Thread the tubing out through the hole next to the original sample tubing in the back of the analyzer. Route this tubing parallel to the original sample line, with one end terminating at the second sample conditioning block and the other at the rotary valve (see [Figure 4](#)).
8. 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 5](#). Install it in port 3 of the rotary valve.
9. Put the Sample 2 label on the end of the tubing at the back of the analyzer. Put the flangeless nut fitting and ferrule fitting on the tube (see [Figure 6](#)). Screw the nut and ferrule into the sample conditioning block.
10. Install a ¼ in. unfiltered sample line to the bottom connector of the second sample conditioning block. The sample should be valved and present at less than 30 psi.
11. Install a ¼ in. sample outlet to the unfiltered sample out (top) connector of the second sample conditioning block. This outlet should flow to an air break above or near the same height as the sample conditioning block.
12. Establish flow to the vortex sample conditioning block. Maximize flow (100 mL/min to 2000 mL/min) to provide a rapid vortex around the ceramic 0.5 µm filter. This helps in the self-cleaning of the filter element.

Adding a Second Sample Stream to the APA 6000™ Analyzer

Figure 3 Installing the Grommet and Tubing into the Bulkhead

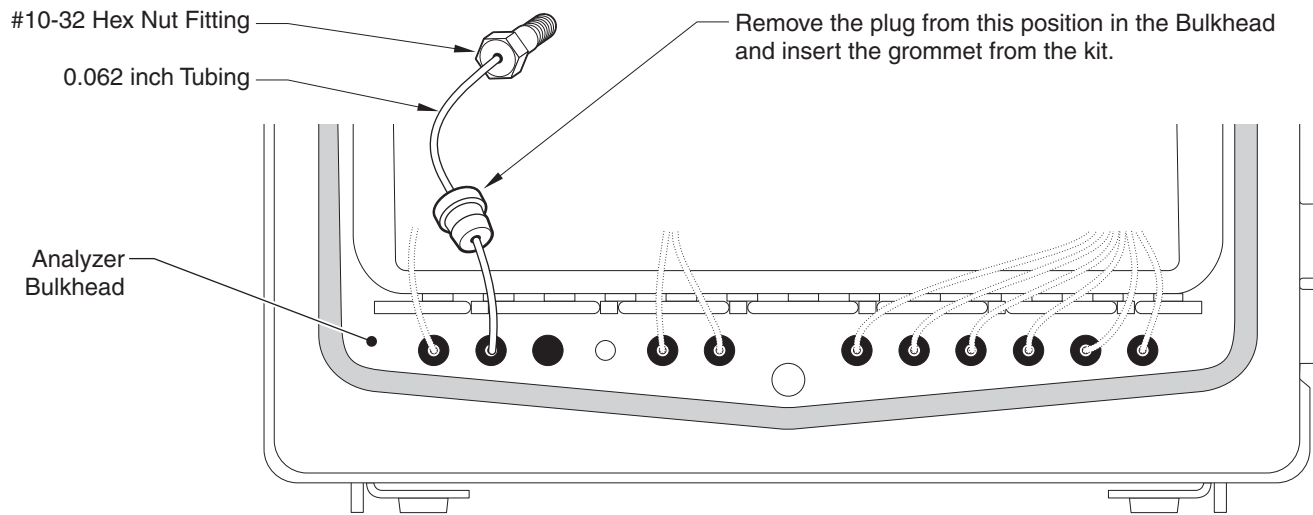
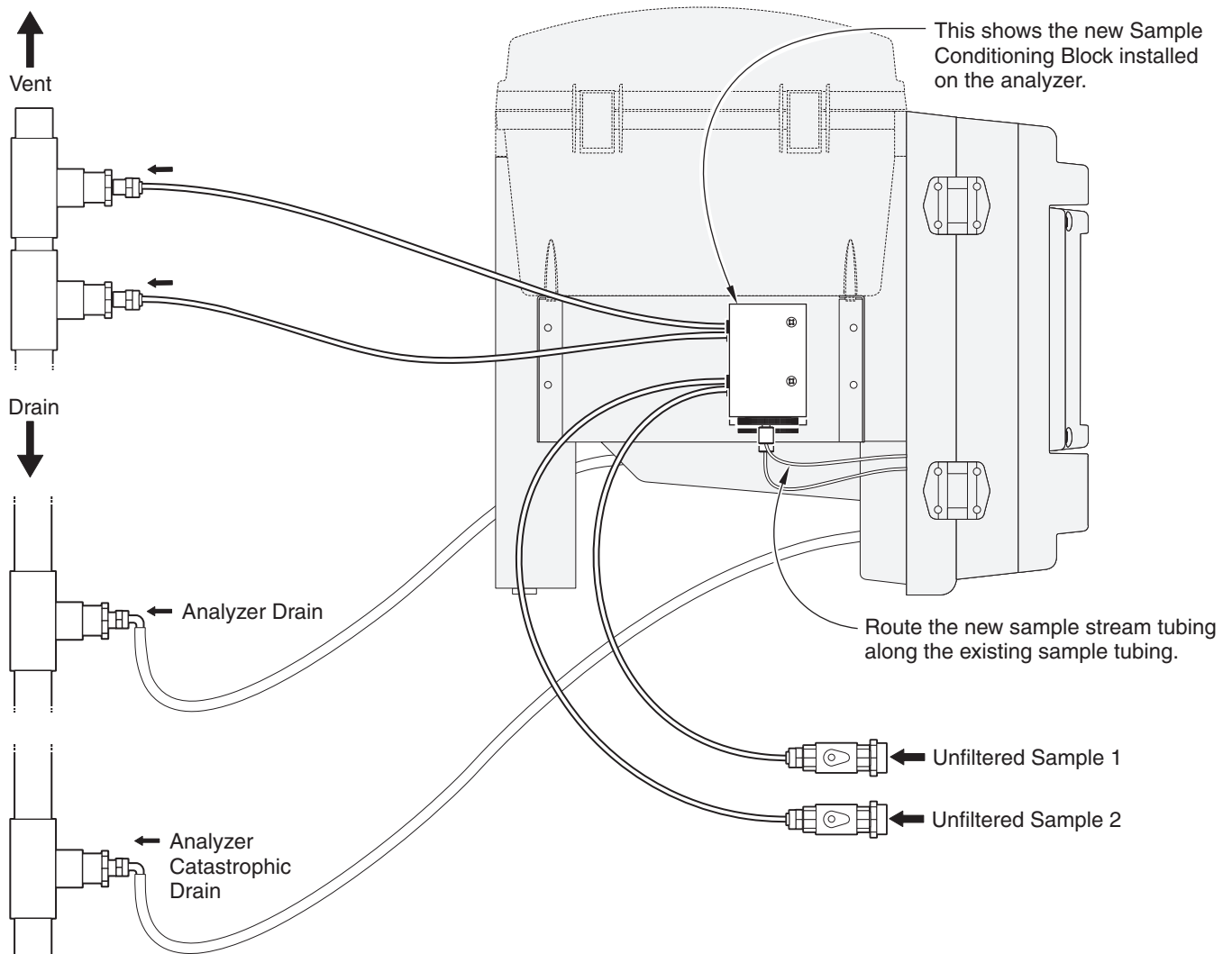


Figure 4 Installing the Tubing for the Second Sample Stream



Adding a Second Sample Stream to the APA 6000™ Analyzer

Figure 5 #10-32 Fitting Assembly (Valve Head Assembly)

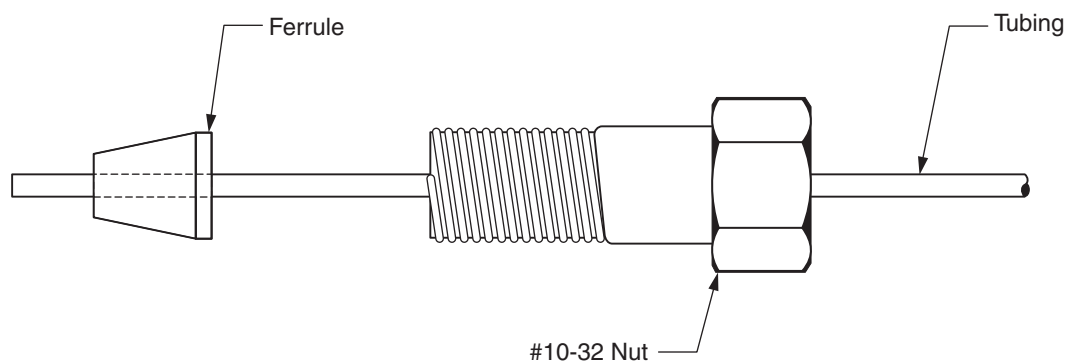
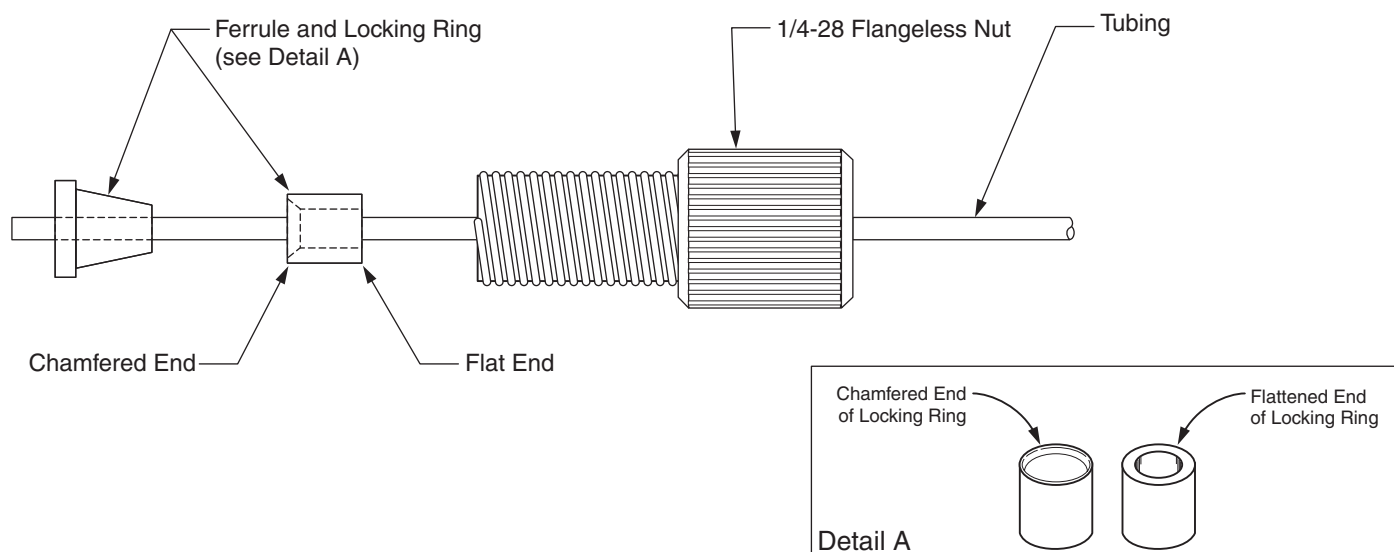


Figure 6 1/4-28 Fitting Assembly



Adding a Second Sample Stream to the APA 6000™ Analyzer

13. Add the new sample 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	

14. Assign a measurement to channel for the new sample stream:

Key Press	Menu Selection
1. MENU	
	AQUATREND MENU
2. ENTER	
	DISPLAY SETUP
3. ENTER	
	MEASUREMENT TO CHANNEL
	Select ATTACH
4. ENTER	
	SELECT SENSOR
	Select sensor by name
5. ENTER	
	SELECT MEASUREMENT / CHANNEL
6. ENTER	
	Select the channel to which the measurement is to be displayed
7. ENTER	
	A pop-up window will appear
	Select ATTACH
8. A pop-up window will confirm the attachment	

Adding a Second Sample Stream to the APA 6000™ Analyzer

15. 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 4, 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.



FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:
In the U.S.A. – Call toll-free 800-227-4224
Outside the U.S.A. – Contact the HACH office or distributor serving you.
On the Worldwide Web – www.hach.com; E-mail – techhelp@hach.com

HACH COMPANY
WORLD HEADQUARTERS
Telephone: (970) 669-3050
FAX: (970) 669-2932