

Auper Flow meter Installation guide



Figure 1 Flow meter with JG adapters



Figure 2 Flow meter with tailpieces

General information

Flow meters are available with John Guest push-in fittings or with tailpiece. John Guest adapters are available for poly tubing of 3/8 and 1/2 inch outside diameter. No clamps are required.

Tailpieces can be exchanged easily and vary in size for any tubing found on the market. Clamps are required to seal the joints.



Figure 3 Flow meter with FOB

1. Use stainless steel tailpieces for carbonated water, syrups and wine. Use chrome plated tailpieces only for draft beer.
2. Hands tighten the plastic nuts at room temperature.

When the washers are cold, sealing the adaptors may be difficult. Grab the two plastic nuts and twist. The amount of pressure required to seal the tailpieces on the washers is directly proportional to the pressure of the gas used to push the liquid. For John Guest adapters, use two wrenches to tighten the adapters to the flow meter.



Figure 4 various end fittings



Figure 5 Installing the tailpiece and washer

Figure 6 Hand tightening



3. If the gas pressure is high, you will need to tighten the nuts more firmly using faucet wrenches or pliers.
4. **DO NOT GRAB THE FLOW METER BY THE CENTER TO TIGHTEN THE ADAPTORS** (you could damage the coil).



Figure 7 Using wrenches

ⓘ Caution: Keep the flow meter at least 30 cm (12 inches) from transformers, blowing fans or motors. These devices emit a magnetic field (60Hz), which can be picked up by the flow meter. If the counter moves without any liquid being dispensed, move the flow meter away from the source.

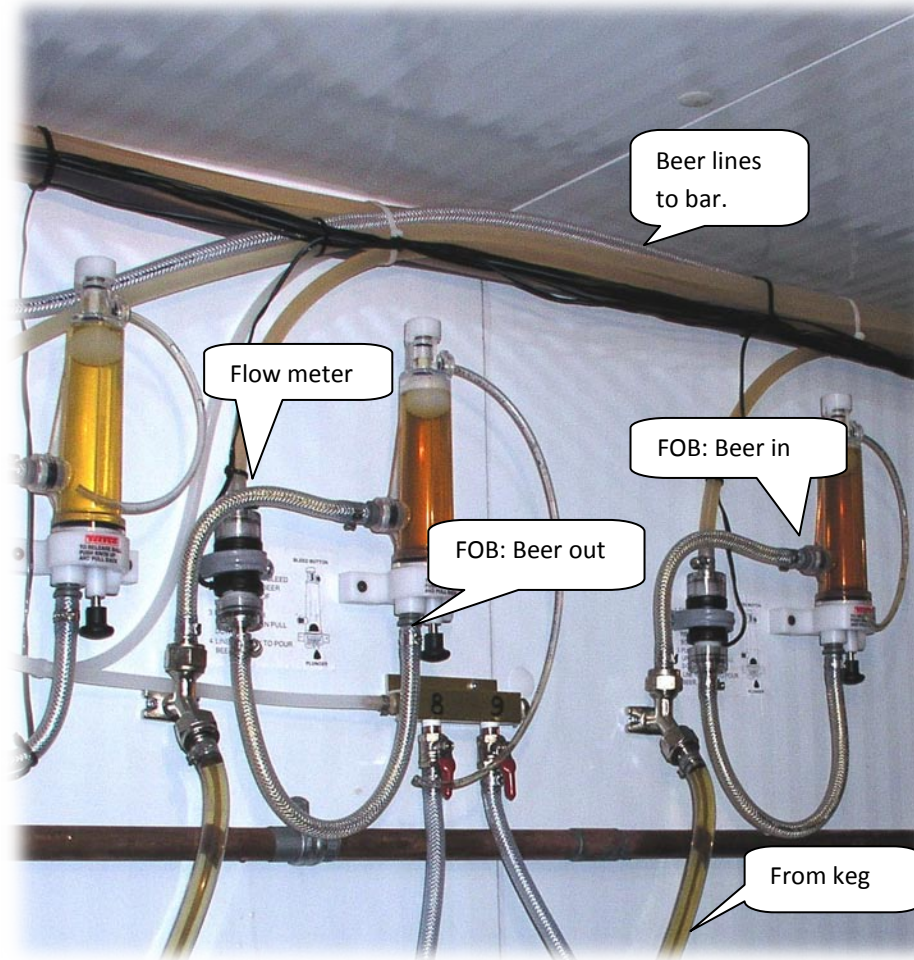


Figure 7 Typical keg cellar installation

Draft beer and wine

Model	Application	Imp/oz	ml/imp	Typical flow rate	
50-018	Guinness/Soda	30	1	1 Oz/sec	30 ml/sec
50-316	Beer/wine/soda	15	2	2 Oz/sec	60 ml/sec
50-332	Syrup/alcohol	45	0.6	< 0.5 Oz/sec	< 15 ml/sec
50-114	Fast flow rate	7	4.25	4 Oz/sec	120 ml/sec

Figure 9 Flow rate chart

STEPS:

5. Remove the keg coupler and open the faucet to take the pressure out.
6. Get your flow meter and clamps ready. Using a tube cutter or sharp utility knife and a dry cloth, cut the tubing.
7. If you use tailpieces, slide a hose clamp on each side. Check the flow direction and insert the flow meter. The arrow should point in the direction of the faucet. Secure your clamps.
8. If you use John Guest adapters, push the tubing in until you feel the O'ring clip on the tubing.
9. Re-install the keg coupler and check for leaks.



Figure 10 Cutting the tube

10. **The insertion of the flow meter has created an air pocket in the beverage line.** You should actually see in above the flow meter. Evacuate the air pocket by opening the faucet. Pour beer until the air pockets comes out.
11. If empty keg detectors (FOB) are present, install the flow meter directly at the outlet (after the FOB).
12. Position your flow meter system connection box on the wall within reach of a maximum of flow meters (25t/7.6M). Flow meter cables can be extended up to 300 feet.
13. Bring your flow meter cables to the connection box and attach them to the tubing using cable ties
14. Follow the flow meter system installation guide to continue.



Figure 11 inserting the flow meter



Figure 8 Cable ties