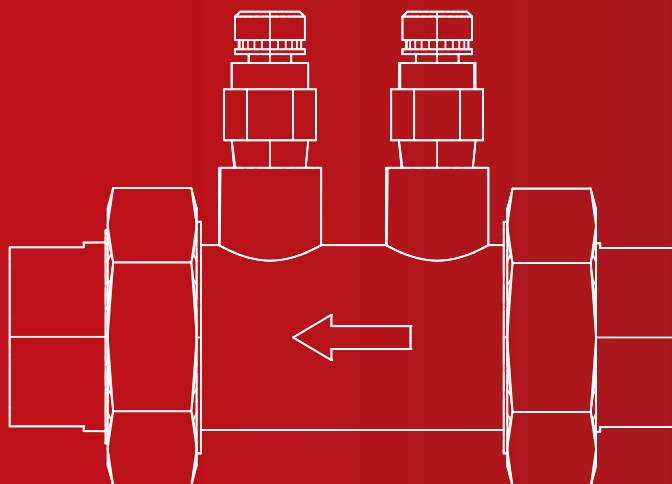


# INSTALLATION, OPERATION, & MAINTENANCE GUIDE

## DOMESTIC HOT WATER BALANCING VALVES

---

Automatic Balancing, Threaded Connection



**MODELS**  
TAF  
TRAA-BFF-Q



---

## **IMPORTANT**

For safe and proper operation, please read the enclosed installation, operation, and maintenance instructions prior to using any Jomar Valve product. Save this document for reference.

Only qualified personnel should undertake the procedures outlined in this document. Jomar Valve, its agents, representatives, and employees assume no liability for the use of these procedures. These procedures are offered as suggestions only.

Note that failure to follow the enclosed instructions may damage the product and/or void any applicable warranties.

---



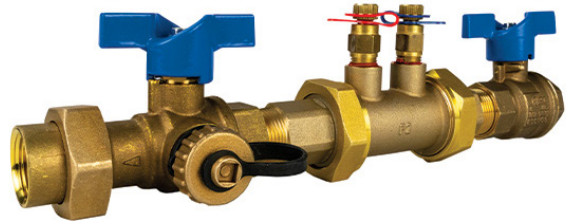
# Domestic Hot Water Balancing Valves

## Automatic Balancing, Threaded Connection

**Models:** TAF, TRAA-BFF-Q



TAF



TRAA-BFF-Q

### IMPORTANT

Please read the **Connection Guidelines** prior to installing these components. Failure to follow these instructions may damage the component and/or void the warranty.

### INSTALLATION

1. These valves are unidirectional flow limiting devices. The arrow on the valve body must be in the direction of flow.
2. For horizontal installations, the valve should be installed with the readout ports on or above the horizontal centerline. **DO NOT** install valve with the readout ports facing down. Debris from the line can clog the port during the readout process. This can result in leaks.
3. There are no minimum upstream or downstream straight-piping requirements.

### OPERATION VERIFICATION

1. These valves contain a spring loaded cartridge individually calibrated for specified flow rates. The cartridge maintains the flow rate within the differential pressure range of 2-32 PSI.
2. Verification that the cartridge is engaged and maintaining the designed flow rate can be achieved by measuring the differential pressure across the valve using the PT ports. If the differential pressure is between 2-32 PSI, the flow limiter is operating correctly.
3. The PT ports are for verification only, not for flow measurement or GPM adjusting. To achieve a different flow rate, a new cartridge will need to be installed.
4. The cartridges are field adjustable. Removal of these cartridges requires no special tools.
5. Dirt, debris, or entrapped air can cause improper reading.

### CARTRIDGE REPLACEMENT

1. Shut off supply and return side isolation valves.
2. Remove the union nuts and pull cartridge out.
3. Insert replacement cartridge into valve body.
4. Replace and tighten union nuts.
5. Slowly return isolation valve to the open position.
6. Vent air.

### GENERAL INFORMATION

For proper operation, make sure that the system in which the valve is installed is free of debris, and that the water is devoid of entrained air. Air and debris will cause the balancing valves supplied by **Jomar Valve** to function improperly. A strainer with a minimum 20 mesh screen is recommended upstream of all balancing valves to prevent clogging. High point and inline air vents are also recommended to ensure all entrained air is removed.

On chilled water systems, the test ports may seep after a reading is taken. Re-install the port cap and wait approximately one minute. Check the port. If seepage is still present, re-insert probe and remove slowly to allow port to seal.

### Performance Guarantee

**Jomar Valve** guarantees to the original purchaser that the equipment of its manufacture will perform at the rated capacity as stated only when (1) properly installed, connected, started, operated and maintained in accordance with Company instruction(s) and/or information guide(s), as revised from time to time, (2) used for the applications specified and (3) used in the environments as specified or as limited. If equipment is part of a greater system, the Company accepts responsibility only for the equipment manufactured by it.

### WATER TREATMENT

Introduction of chemical cleaners, stabilizers and solvents into the systems may cause damage to the seats, seals, liners and gaskets or cause stress corrosion cracks in the product. Consult a water treatment specialist whenever introducing chemicals. It is important that you analyze all aspects of your systems components and the systems application with any introductions of chemicals into a system. It is solely the responsibility of the purchaser, contractor or engineer to review the material specification sheets for compatibility of these products. The documentation for the products described herein are subject to change at any time without notice. To obtain a copy of the current product specification sheets, **please visit [www.jomarvalve.com](http://www.jomarvalve.com) or contact us at 586.268.1220 or [csr@jomar.com](mailto:csr@jomar.com).**



## CONNECTION GUIDELINES - THREADED CONNECTION

Teflon tape OR pipe-joint compound (pipe dope) must be used when installing NPT threaded connections. However, both tape and dope must not be used on the same connection. The use of Teflon tape in addition to a pipe dope compound can be dangerous. It can result in too much material between the flanks of the threads. Additionally, using both tape and dope can cause over tightening due to the lubricating effect of both materials.

### Teflon Tape

Before installation, all mating pipe threads should be checked to ensure that there is no damage to the threads. Also make sure that all threads are clean from debris. PTFE tape should always be wrapped in the direction of the threads. Tape should be stretched tight around the threads to be ensured that it is securely attached. Each successive layer should overlap the previous layer by 1/2 to 2/3 and continue wrapping until the entire threaded portion of the pipe is covered (minimum of 3 full turns). An excess amount of tape can prevent mating threads from fully engaging, therefore reducing the shear point of the threads. Be sure not to over-torque the threaded valves during installation. Doing so could cause damage to be done to the valves or pipeline.

### Pipe Dope

Be sure that the sealant is proper for the specific application in question and that all applicable codes are followed.

### Factory Assembled Threaded Connections

All threaded bosses found on our components will contain either a PT port, accessory, accessory extension, or plug. All of the connections are made using Teflon tape or Loctite, and are factory tested up to 120 PSI to ensure a leak free joint. The removal or modification of any of these connections voids the warranty of the joint, as well as the warranty of the component. Contact Jomar Valve prior to modifying any factory assembled connections.