

# INSTALLATION GUIDE

## T-1101NL STRAINER BALL VALVE

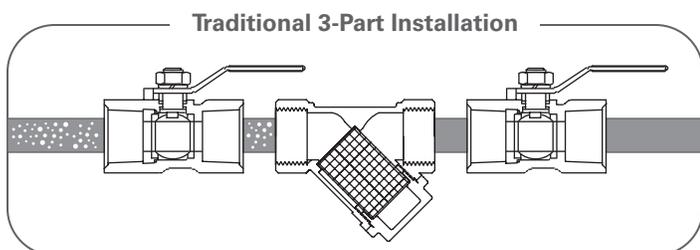
### WARNING

Read this Installation Manual PRIOR to installing this device. Noncompliance with safety and use information can result in serious personal injury, property damage, or damage to the device and may void the warranty. Keep this IOM for future reference.

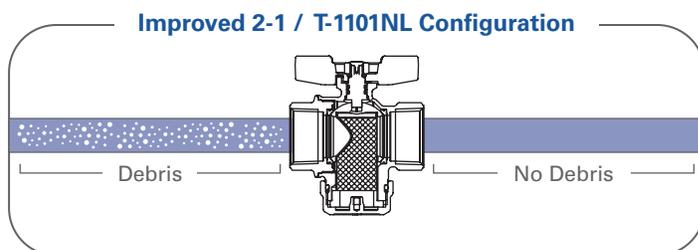
Individuals performing removal and disassembly should be provided with suitable protection from possibly hazardous liquids.

### INTRODUCTION

This no-lead forged brass ball valve comes with an integrated 20 mesh strainer. For those seeking even finer filtration, optional 40 and 80 mesh screens are also available. Perfect for hydronic systems with space limitations, the T-1101NL eliminates the need for a second valve to isolate the strainer for cleaning, making maintenance and operation more efficient than ever.



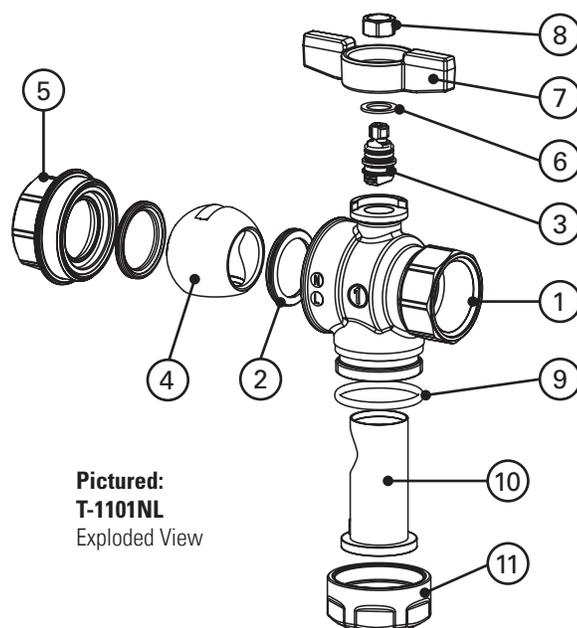
Two Ball Valves & Y-Strainer required in a traditional set-up.



The interchangeable strainer filters out debris.

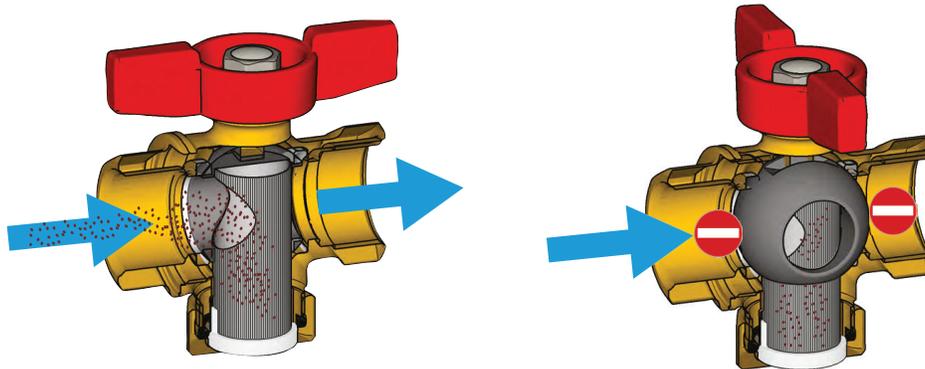
### COMPONENTS

MATERIAL SPECIFICATION		
PART		MATERIAL
1	Body	Lead-free forged brass
2	Seat (2)	PTFE
3	Stem	Lead-free forged brass
4	Ball	Chrome plated lead-free forged brass
5	End adapter	Lead-free forged brass
6	Anti-friction washer	PTFE
7	T-Handle	Aluminum
8	Handle nut	Dacromet coated steel
9	O-ring	EPDM
10	Strainer	304 SS
11	Cap	Lead-free forged brass



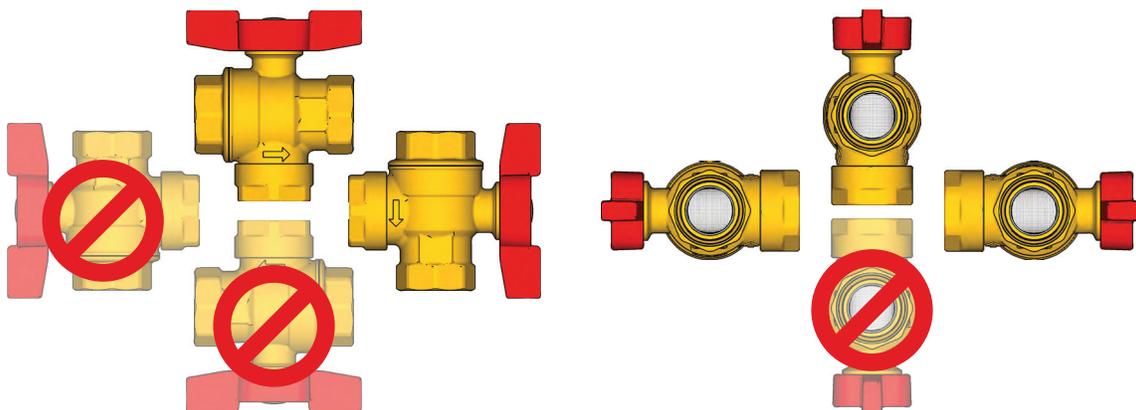
# OPERATION

1. When the valve is open, water flows through the filter, allowing for the separation of solid debris. Impurities are filtered as they collide with the metallic mesh and settle at the bottom of the cap. The unique design of the valve body maximizes the utilization of the entire filtering surface, prolonging the operational lifespan before the mesh needs servicing.
2. When the valve is closed, water is unable to flow through the filter as it is isolated from the rest of the hydraulic circuit. In this position, you can loosen the bottom cap and remove the filter to rinse it with clean water and restore the filtering surface.



# INSTALLATION

1. Before placing the T-1101NL into place, support the existing pipeline with pipe supports near the inlet and outlet connections.
2. For ease of maintenance, the T-1101NL should be located where the drain plug can be removed. Additionally, ensure the drain is located at the lowest position when installed. The T-1101NL can be installed horizontally or vertically. If installed in the vertical position, the media flow must be downward.
3. Ensure there is ample space where the strainer is located for easy screen removal.
4. Follow standard installation practices for threaded connections, and place the T-1101NL into the pipeline. Ensure that the flow arrow on the body of the ball valve is pointing in the direction of the media flow.
5. Before installing the valve, it is important to verify the system's working conditions, including pressure and temperature, to ensure they fall within the operational range of the valve. Ensure that there are no obstacles obstructing access to the filter for servicing purposes. The filter mesh should be selected based on water quality, with options available in 20, 40, and 80 mesh. The 20 mesh is preinstalled in every T-1101NL, with the 40 and 80 mesh offered separately.



# MAINTENANCE

The recommended maintenance interval for T-1101NL valves with filters can vary depending on the amount of impurities in the system. It is advised to clean the filter at least once a year to prevent a significant reduction in system flow rates and the formation of irreversible scales that may necessitate the replacement of the filter mesh. To clean the metallic mesh, follow these steps:

1. Close the valve ball by turning the T-handle clockwise.
2. Use a suitable wrench to loosen the octagonal cap (refer to the "Dimensions" section).
3. Remove the filter and rinse it under running water using a plastic bristle brush. Ensure that the filtering surface is completely clean. Replace the filter if there are irreversible obstructions or breaks.
4. Reinstall the filter in the valve, making sure that the filter hole (ref. "A") is pointing in the opposite direction of the flow, as indicated by an arrow on the valve body (ref. "B").
5. Close the hexagonal cap (maximum 88 in./lbs) and open the valve by turning the T-handle counterclockwise.

