

## SUBMITTAL SHEET

JOB NAME		ITEM TAG	
JOB LOCATION		PART NUMBER	
CONTRACTOR	DATE		_
ENGINEER APPROVAL	DATE		

# NO LEAD BALL VALVE WITH INTEGRATED THERMAL EXPANSION RELIEF

# **T-51NL**

Designed for residential water heater applications.

Use as a shut-off on the cold water inlet side of the water heater where expansion relief is needed.

Ball valve connections available in 3/4" nominal size, in FNPT, Press, Crimp/Cinch PEX (F1807), and Expansion PEX (F1960).

Integrated relief valve available in three relief pressure ratings: 80, 100 & 125 PSI.

Thermal relief valve has a 1/2" PEX relief outlet, with optional 3/8" compression & 3/8" hose insert barb adapters (included in kitted SKUs).

The thermal relief valve may routinely discharge water from the system. The discharge line should be secured to prevent movement during discharge.

#### Working Pressure, Non-Shock (PSI):

Cold Working Pressure (CWP): 125 psi Maximum Service Temperature: 180°F

PART		MATERIAL		
1	Valve Body	Lead-Free Forged Brass		
2	Ball	Stainless Steel		
3	Ball Seals	PTFE		
4	Stem	Forged Brass		
5	Stem O-Ring	NBR		
6	Stem Packing	PTFE		
7	Packing Nut	Forged Brass		
8	Handle & Nut	Plated Steel		
9	Relief Valve Body	Lead-Free Forged Brass		
10	Relief Connection	Forged Brass		
11	Press O-Ring	EPDM (Press Configs. Only)		

DIMENSIONS - INCH							
Size	Α	В	C	Insertion Depth			
3/4" FNPT x FNPT	2.69	2.09	4.29	_			
3/4" Press x Press	4.09	2.09	4.29	1"			
3/4" F1807 x F1807	3.33	1.87	3.46	_			
3/4" F1960 x F1960	3.98	1.87	3.46	_			

### Certifications/Listings:

Third-Party certified.

NSF/ANSI 14: Plastic piping system components and related materials.

NSF/ANSI 61: Drinking water system components - Health effects.

NSF/ANSI 372: Drinking water system components - Lead content.

Uniform Plumbing Code (UPC)

National Plumbing Code of Canada (NPC)

IGC 128: Water heater shutoff valves with thermal expansion control valves. CSA B125.3: Plumbing fittings.

#### Standards:

ANSI/ASME B1.20.1: Pipe Threads, General Purpose (Inch).

Threaded configurations only – T-51NL FNPT
ANSI/ASME B16.51: Copper and copper alloy press-connect pressure fittings. Press configurations only — T-51NL Press

ASTM F1807: Metal insert fittings utilizing a copper crimp or stainless steel clamps.

Crimp/Cinch PEX configurations only – T-51NL F1807; T-51NL F1807A ASTM F1960: Cold expansion fittings with PEX reinforcing rings. Expansion PEX configurations only — T-51NL F1960; T-51NL F1960A



Pictured: T-51NL FNPT with 1/2" F1807 Relief Outlet

Pictured: T-51NL Press with 1/2" F1807 Relief Outlet

Pictured: T-51NL F1807 with 1/2" F1807 Relief Outlet



Pictured: Pictured: Pictured: T-51NL F1960 with 1/2" T-51NL F1960A with 1/2" 3/8" Comp. (OD) & Insert F1807 Relief Outlet F1960 Relief Outlet Relief Outlet Adapters

