

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

MATERIAL SPECIFICATION

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	A	B	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)

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

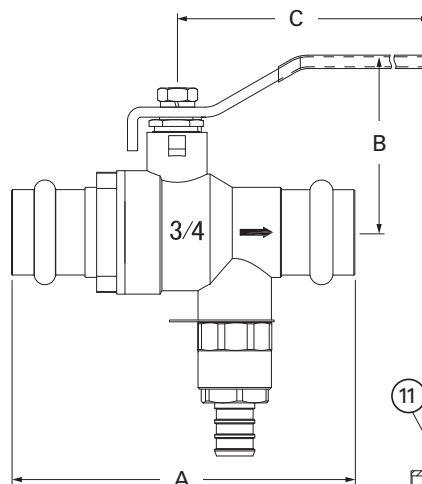
Pictured:
T-51NL F1807 with 1/2" F1807 Relief Outlet



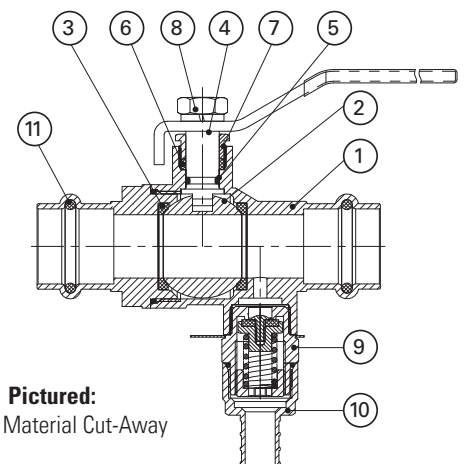
Pictured:
T-51NL F1960 with 1/2" F1807 Relief Outlet

Pictured:
T-51NL F1960A with 1/2" F1960 Relief Outlet

Pictured:
3/8" Comp. (OD) & Insert Relief Outlet Adapters



Pictured:
T-51NL Dimensions



Pictured:
T-51NL Material Cut-Away