THERMAL EXPANSION RELIEF VALVE

648 SERIES

ITEM # SUBMITTED_____

JOB NAME_____

LOCATION _____

ENGINEER_____

CONTRACTOR_____

PO#_____ TAG _____

SPECIFICATION
Sioux Chief 648 Series thermal expansion relief valve shall be used to provide means for controlling increased pressure caused by thermal expansion in water distribution systems. Thermal expansion relief valve shall discharge water and excess pressure as needed to prevent explosions or other damage to the water heater or surrounding structure. Discharged water shall be directed through an outlet line to the floor drain or water heater pan. Valve connections shall conform to appropriate standards including ASTM fitting end specifications.

MATERIALS
Brass valve body[1], PTFE seats, stainless steel springs, EPDM o-rings and relief seat, anodized aluminum handle

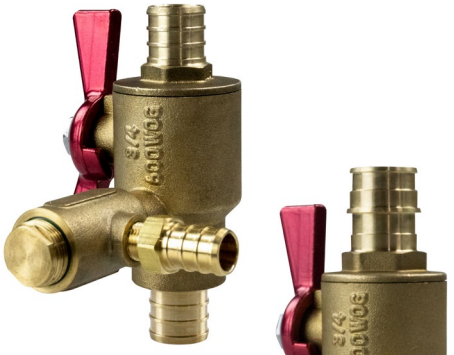
CERTIFICATIONS
Tested to IAPMO IGC 128-2019 and CSA B125.3-2018.
IAPMO Listed, File: 13009

COMPLIANCE
Thermal relief valves are compliant with the following model code language:
2021 Uniform Plumbing Code (UPC) - Section 608.3
2021 International Plumbing Code - Section 607.3
2021 International Residential Code - Section P2903.4, .4.1, .4.2, .9.2

INSTALLATION LIMITATIONS
Maximum Temperature: 180°F. Do not expose the valve or supply tubing to excessive heat. Do not install damaged valves. Do not solder or braze in close proximity to valve unless it is protected with a heat-blocker to keep the valve under 180°F. Keep valve free from hazardous chemicals or chemical vapors.

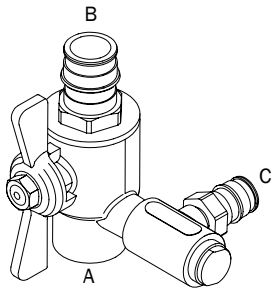
DIMENSIONS
A: Valve inlet 3/4" Nom.
B: Valve outlet 3/4" Nom.
C: Relief connection 3/8", 1/2" Nom.

1 Material is C69300 and C46500. Brass is dezincification and SCC resistant, and is compliant with NSF-61 Annex G and California No Lead Plumbing Law



648XG3XRV

648-WG3WR



Select Item Number

	ITEM NO.	VALVE INLET	VALVE OUTLET	RELIEF CONNECTION
☐	**648-WG3CR**	3/4" FSWT	3/4" F1960 PEX	3/8" Compression
☐	**648-WG3HR**	3/4" FSWT	3/4" F1960 PEX	3/8" Hose barb
☐	**648-WG3WR**	3/4" FSWT	3/4" F1960 PEX	1/2" F1960 PEX
☐	**648-XG3CR**	3/4" FSWT	3/4" F1807 PEX	3/8" Compression
☐	**648-XG3HR**	3/4" FSWT	3/4" F1807 PEX	3/8" Hose barb
☐	**648-XG3XR**	3/4" FSWT	3/4" F1807 PEX	1/2" F1807 PEX
☐	**648-3SMARX**	3/4" FIP swivel[2]	3/4" MIP thread	1/2" F1807 PEX
☐	**648WG3WRV**	3/4" F1960 PEX	3/4" F1960 PEX	1/2" F1960 PEX
☐	**648XG3XRV**	3/4" F1807 PEX	3/4" F1807 PEX	1/2" F1807 PEX

Accessories - Available Separately:
648-ARW: TERV component, 1/8" MIP x 1/2" F1960 PEX
Adjustable relief: 80-125 PSI
648-ARX: TERV component, 1/8" MIP x 1/2" F1807 PEX
Adjustable relief: 80-125 PSI

2 Do Not use pipe dope on FIP threads