

WATER HEATER CONNECTOR with THERMAL EXPANSION RELIEF VALVES

633 SERIES

SPECIFICATION

Sioux Chief 633 Series water heater connectors with thermal expansion relief valve shall be used in plumbing systems for safe distribution of hot or cold water. 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. Connectors shall be used for fluid communication with plumbing devices and fixtures. Valve connections shall conform to appropriate standards including ASTM fitting end specifications.

MATERIALS

Valve: SCC/DZR resistant brass, PTFE seats, stainless steel springs, EPDM o-rings and relief seat, anodized aluminum handle

Tube: 3/4" Nom. copper tube

Swivel Nut: C360 brass with EPDM gasket

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 connector or supply tubing to excessive heat. Do Not use pipe dope on FIP swivel threads. Do not install damaged connectors. Do not alter connectors. Do not solder or braze in close proximity to connector unless it is protected with a heat-blocker to keep the connector under 180°F. Keep connector free from hazardous chemicals or chemical vapors.

DIMENSIONS

FIP Swivel	3/4"
Valve Outlet	3/4"
Overall length	18"

ITEM # SUBMITTED	_____
JOB NAME	_____
LOCATION	_____
ENGINEER	_____
CONTRACTOR	_____
PO#	_____ TAG _____



Create Item Number

633AB

e.g. **633-CG18FRV:** 3/4" CPVC Socket x 3/4" FIP swivel x 18" long water heater connector with 3/8" comp. thermal expansion relief

VALVE OUTLET CONNECTION A

-CG18 = 3/4" CPVC Socket

WG18 = 3/4" F1960 PEX

XG18 = 3/4" F1807 PEX

RELIEF CONNECTION B

FRV = 3/8" Compression

HRV = 3/8" Hose barb

WRV = 1/2" F1960 PEX¹

XRV = 1/2" F1807 PEX²

1: F1960 PEX relief connection is only available on valves with F1960 PEX outlet | 2: F1807 PEX relief connection is only available on valves with F1807 PEX outlet