

# FVX and FVMX Commercial T&P Relief Valves

## DESCRIPTION

The Cash Acme FVX Series combination temperature and pressure relief valves are designed to offer high capacity protection for domestic and commercial water heating devices.

The Cash Acme FVX Series is fully automatic, and the valves reseal after either temperature or pressure relief.

The **FVX Series Valves** are diaphragm guided, they are suitable for installations where codes require complete shut-off. The larger **FVX Series Valves** are well suited for such commercial applications as restaurants, hospitals and laundries. Available sizes include 3/4", 1", 1-1/4", 1-1/2" and 2". The **FVX Series** offers a choice of either male or female inlet connections.

A variety of extension thermostat lengths are available to place the element in the hottest water without restricting flow. Consult the table on back for details.

All **Cash Acme FVX Series Valves** through 1-1/4" have coated thermal elements to protect against corrosion and mineral build-up. The coating also isolates the copper from galvanic action within the heater. The 1-1/2" and 2" sizes are fitted with stainless steel thermal elements. The temperature relief setting is 210°F (99°C).

## FEATURES AND BENEFITS

Offers high capacity protection for domestic and commercial hot water heating devices:

*Handles more volume with just one relief valve.*

Completely automatic:

*The valves reseal after either temperature or pressure relief.*

The larger series valves are well suited for commercial applications:

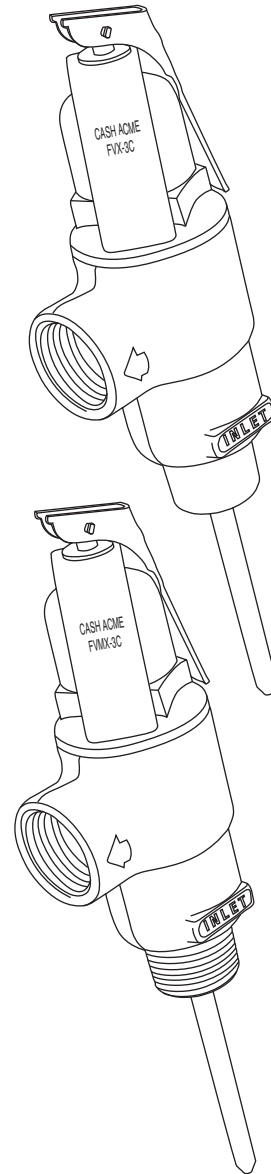
*Restaurants, hospitals and laundries are no problem!*

Listed by CSA and ASME:

*Inspector friendly, peace of mind!*

## SPECIFICATION

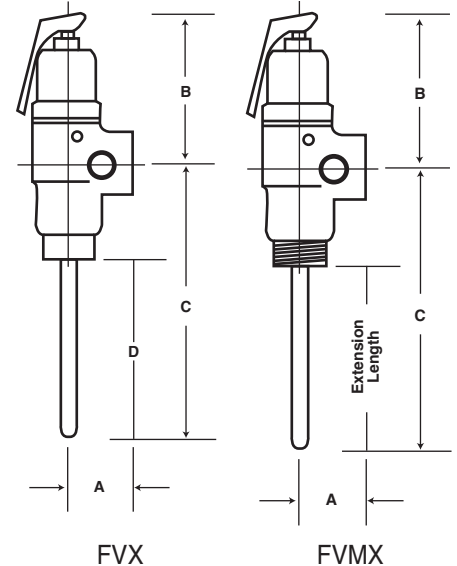
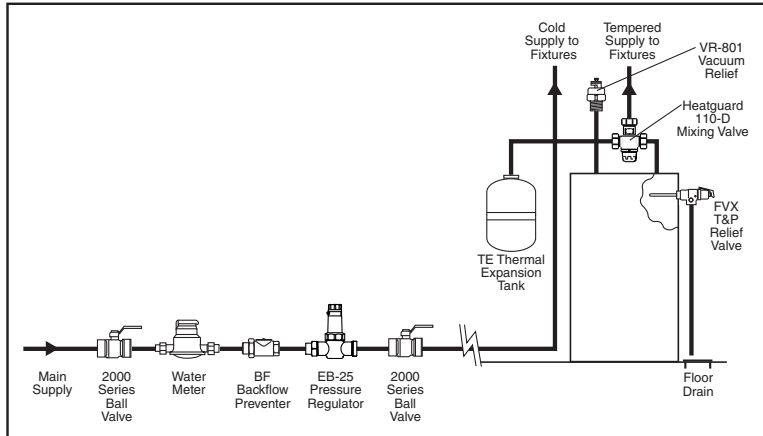
A temperature and pressure relief valve shall be installed to protect the water heater or water storage tank from excessive temperature or pressure. The valve shall be ASME and CSA listed and shall be design certified per ANSI Z21.22. The valve shall have a BTUH rating in excess at the heat input rating (BTUH) of the water heater into which it is installed. The valve shall be a **Cash Acme FVX** or **FVMX** Series.



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## TYPICAL INSTALLATION

Practically all recognized authorities state that a temperature actuated relief valve must be installed in such a manner that the temperature sensing element is in contact with hot water in the **top six inches** of the tank. This is a **necessary** safety precaution because of temperature stacking - the term given to the condition of temperature variation between the hottest water in the top of the tank and water temperatures at varying levels within the tank.



## SPECIFICATION DATA

### Performance:

Set pressure range . . . . . 75-150 psi  
Maximum temperature . . . . . 210°F  
Service . . . . . Hot water

### Materials:

Body . . . . . Brass  
Internal Parts . . . . . Brass  
Seat Disc . . . . . Silicone  
Pressure Spring . . . . . Stainless steel  
Diaphragm . . . . . EP

## CONNECTIONS

Threaded (NPT) . . . . . Male and female inlet and female outlet

## CERTIFICATIONS

The **Cash Acme FVX and FVMX Relief Valves** are certified to ANSI Z21.22 and CSA 4.4 and are listed by ASME and CSA.

A.G.A., C.G.A., A.S.M.E. RATINGS									
TYPE	SERIES	INLET	DRAIN	ELEMENT EXTENSION LENGTH	A.G.A./C.G.A. RATING (btu/hr)	A.S.M.E. RELIEF RATING AT PRESSURE SETTING BELOW (btu/hr.)			
						75 PSI	100 PSI	125 PSI	150 PSI
FVX-3C	4	3/4" f	3/4" f	27/8"	185,000	1,034,000	1,327,000	1,619,000	1,912,000
FVX-5C	4	3/4" f	3/4" f	4 3/16"	205,000	1,034,000	1,327,000	1,619,000	1,912,000
FVX-8C	4	3/4" f	3/4" f	7 3/4"	205,000	1,034,000	1,327,000	1,619,000	1,912,000
FVMX-3C	4	3/4" m	3/4" f	2 11/16"	185,000	1,034,000	1,327,000	1,619,000	1,912,000
FVMX-5C	4	3/4" m	3/4" f	4 3/8"	205,000	1,034,000	1,327,000	1,619,000	1,912,000
FVMX-8C	4	3/4" m	3/4" f	7 9/16"	205,000	1,034,000	1,327,000	1,619,000	1,912,000
FVX-3C	4	1" f	1" f	3"	500,000	1,165,000	1,495,000	1,825,000	2,155,000
FVX-5C	4	1" f	1" f	4 3/4"	500,000	1,165,000	1,495,000	1,825,000	2,155,000
FVMX-3C	4	1" m	1" f	3 1/16"	500,000	1,165,000	1,495,000	1,825,000	2,155,000
FVMX-5C	4	1" m	1" f	4 3/4"	500,000	1,165,000	1,495,000	1,825,000	2,155,000
FVX-5L	15	1" f	1" f	4 13/16"	750,000	1,960,000	2,515,000	3,070,000	3,625,000
FVX-8L	15	1" f	1" f	8 1/8"	750,000	1,960,000	2,515,000	3,070,000	3,625,000
FVMX-4L	15	1 1/4" m	1" f	3 31/32"	750,000	1,960,000	2,515,000	3,070,000	3,625,000
FVX-4	-	1 1/2" f	1 1/2" f	4 1/8"	1,200,000	3,273,000	4,199,000	5,125,000	6,050,000
FVMX-3	-	2" m	1 1/2" f	3 1/4"	1,200,000	3,273,000	4,199,000	5,125,000	6,050,000

"f" = female; "m" = male

### FVX Series

Model	Size	A	B	C	D
FVX-3C	3/4" F	1-1/2"	3-1/2"	5-1/4"	3"
FVX-5C	3/4" F	1-1/2"	3-1/2"	6-7/8"	4-5/8"
FVX-8C	3/4" F	1-1/2"	3-1/2"	10-1/8"	7-7/8"
FVX-3C	1" F	1-9/16"	3-1/2"	5-1/4"	3-3/32"
FVX-5C	1" F	1-9/16"	3-1/2"	6-7/8"	4-3/4"
FVX-5L	1" F	1-3/4"	3-1/2"	5-7/8"	4-3/4"
FVX-8L	1" F	1-3/4"	4-3/8"	9-1/4"	8-5/32"
FVX-4	1-1/2" F	2-1/2"	5-7/8"	5-7/8"	4-3/16"

### FVMX Series

Dimensions	A	B	C
FVMX-3C - 3/4"	1-1/2"	3-5/32"	5-7/32"
FVMX-5C - 3/4"	1-1/2"	3-15/32"	6-7/8"
FVMX-8C - 3/4"	1-1/2"	3-15/32"	10-1/8"
FVMX-3C - 1"	1-9/16"	3-15/32"	5-7/16"
FVMX-5C - 1"	1-9/16"	3-15/32"	6-7/8"
FVMX-4L - 1-1/4"	1-3/4"	4-11/32"	5-7/8"
FVMX-3 - 2"	2-15/32"	5-27/32"	5-27/32"