



TVS43 Domestic Hot Water Tempering System



Project Name:

Contact:

Company:

Email:

Phone:

Features

- Default settings work in most applications
- Easy setup, simple 3 button interface
- Low demand dead zone adjustable activation point
- High temperature alarm function
- Fast sampling rate of sensor input
- Two valves can be installed in parallel
- ModBus communication standard
- Lead Free valve NSF/ANSI 372-2011 requirements
- Direct replacement for TA 239W control systems
- ASSE 1017 approved and listed

Selection

Model	Size	Cv
<input type="checkbox"/> TVS43-020	3/4"	7.3
<input type="checkbox"/> TVS43-025	1"	11.6
<input type="checkbox"/> TVS43-032	1 1/4"	18.5
<input type="checkbox"/> TVS43-040	1 1/2"	29.0
<input type="checkbox"/> TVS43-050	2"	46.3
<input type="checkbox"/> TVS43-065	2-1/2"	65.0

Notes

Technical Data

Operating Voltage	24VAC at 75VA
Control Signal	0-10 Vdc or 2-10 Vdc
Action	Direct or reverse acting
Actuator Force	180 lbs
Actuator Run Time	20 Seconds
Sensor Sampling Rate	10 samples per second

Each system consists of:

TC250D	PI Controller with LED readout
STP120-70	Fast Immersion Sensor 1/2" NPT
VM800	20 Second Modulating Actuator
V43	Stainless Steel 3-Way Valve
TC250EN	NEMA 4 Enclosure
TVS TRN	24VAC 75VA Transformer

Layout

See installation instructions for full piping and wiring detail

