

# ASME Rated Series 40, 140, 240, 340, 342 (3/4" – 2")

Automatic Reseating T&P Relief Valves for Hot Water Supply Tanks and Heaters.

- The combined two-in-one Temperature and Pressure relief valve provides the least expensive and most proven means for protection against both excessive temperature and pressure.
- Fully automatic temperature and pressure relief protection for hot water supply tanks and heaters based on the latest ANSI Z21.22 Listing Requirements for temperature discharge capacity.

## Standards

ANSI Z21.22 and ASME Section IV Rated, CSA Listed.

## Specifications

- Temperature relief 210°F (98.9°C). Pressure range 75 – 150psi (5.2 – 10.3 bar). Standard settings: 75psi (5.2 bar); 100psi (6.9 bar); 125psi (8.6 bar); and 150psi (10.3 bar). See Dimensions/Wgts. chart on next page for inlet and outlet connection type and sizes.

### Series 40, 140 nominal size 3/4" (20mm)

- To protect gas, electric or oil-fired storage water heaters rated between 180,000 to 200,000 BTU/Hr. from excessive heat or pressure build up, choose the 3/4" (20mm) model 40 or 140. Tested under ANSI Z21.22 with ratings as certified and listed by CSA. Series 40, 140 and 240 nominal size 1" (25mm).
- For gas or oil-fired storage water heaters rated between 450,000 and 730,000 BTU/Hr., choose the 1" (25mm) model 40, 140 or 240. Tested under ANSI Z21.22 with ratings as certified and listed by CSA.

### Series 340, 342 nominal sizes 1 1/2" x 2" (40 x 50mm)

- For gas or oil-fired hot water supply boilers rated over 730,000 BTU/Hr. output heating for water and for steam coil storage water heaters, choose the Model 340 or 342. Tested under ANSI Z21.22 with ratings as certified and listed by CSA.

## Special Model

**Special Model 340X-8 M4Z** available in 1 1/2" (40mm) size only. Pressure setting is 175psi (12.1 bar). Temperature relief at 210°F (98.9°C); Certified by CSA only.

For additional information, request literature ES-40, 140, 240, 340, or ES-LL/LLL-40XL.



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## Features

- Bronze body construction
- Tamper-resistant bonnet screws
- Series 40 and 140 feature a unique thermostat with a special thermo-bonded coating
- 1" (25mm) and above sizes Model M2, M4 and M14 are standardly furnished with stainless steel thermostat tube
- Accurate and proven thermostat, exclusively designed and manufactured by Watts



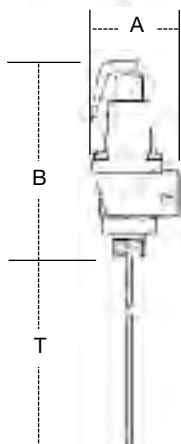
1" LL40XL-Z2



3/4" LL40XL-Z2



3/4" LLL40XL-Z2



Series 40L

MODEL	SIZE (DN)		THERMOSTAT LENGTH		DIMENSIONS (APPROX.)				WEIGHT		RATINGS		
	M = MALE F = Female Inlet x Outlet		T (below inlet)		A		B less thermostat		lbs.	kgs.	CSA TEMP. STEAM RATING	ASME PRESSURE STEAM RATING	ASME PRESSURE STEAM RATING
	in. x in.	mm x mm	in.	mm	in.	mm	in.	mm			BTU/hr.	BTU/hr.** @75psi set pressure	BTU/hr.** @150psi set pressure
40L-3	3/4M x 3/4F	20 x 20	3	76	2 5/8	67	5 5/8	143	1 3/4	.79	180,000	777,600	1,437,600
40XL-5	3/4M x 3/4F	20 x 20	5	127	2 5/8	67	5 5/8	143	1 3/4	.79	205,000	777,600	1,437,600
40XL-8	3/4M x 3/4F	20 x 20	8	200	2 5/8	67	5 5/8	143	1 3/4	.79	205,000	777,600	1,437,600
LL40XL	3/4M x 3/4F	20 x 20	3 1/2	89	2 5/8	67	5 5/8	143	1 1/2	.68	205,000	777,600	1,437,600
LLL40XL	3/4M x 3/4F	20 x 20	5	127	2 5/8	67	7 7/8	194	2	.90	205,000	777,600	1,437,600
140S-3	3/4F x 3/4F	20 x 20	3	76	2 5/8	67	5 5/8	143	1 3/4	.79	180,000	777,600	1,437,600
140X-5	3/4F x 3/4F	20 x 20	5	127	2 5/8	67	5 5/8	143	1 3/4	.79	205,000	777,600	1,437,600
140X-8	3/4F x 3/4F	20 x 20	8	200	2 5/8	67	5 5/8	143	1 3/4	.79	205,000	777,600	1,437,600
40L-2	1M x 1F	25 x 25	2	50	2 3/4	70	6 1/4	158	2 1/4	1.00	450,000	1,155,000	2,134,000
40XL-4	1M x 1F	25 x 25	4	100	2 3/4	70	6 1/4	158	2 1/4	1.00	500,000	1,555,000	2,134,000
40XL-7	1M x 1F	25 x 25	7	178	2 3/4	70	6 1/4	158	2 1/4	1.00	500,000	1,555,000	2,134,000
LL40XL	1M x 1F	25 x 25	3	76	2 3/4	70	6 1/2	165	2	.90	500,000	1,155,000	2,134,000
*140S-3	1F x 1F	25 x 25	3	76	3	76	5 1/2	140	2 1/4	1.00	570,000	1,670,000	3,085,000
*140X-6	1F x 1F	25 x 25	6	150	3	76	5 1/2	140	2 1/4	1.00	670,000	1,670,000	3,085,000
*140 X-9	1F x 1F	25 x 25	9	229	3	76	5 1/2	140	2 1/4	1.00	670,000	1,670,000	3,085,000
*N240X-6	1F x 1F	25 x 25	6	150	3 3/8	86	6 5/8	168	2 3/4	1.20	730,000	2,195,000	4,059,000
*N240X-9	1F x 1F	25 x 25	9	229	3 3/8	86	6 5/8	168	2 3/4	1.20	730,000	2,195,000	4,059,000
*N241X-5	1 1/4M x 1F	32 x 25	5	127	3 3/8	86	6 5/8	168	2 3/4	1.20	730,000	2,195,000	4,059,000
*N241X-8	1 1/4M x 1F	32 x 25	8	200	3 3/8	86	6 5/8	168	2 3/4	1.20	730,000	2,195,000	4,059,000
*340-3	1 1/2F x 1 1/2F	40 x 40	3	76	4 1/2	114	9 3/4	248	7	3.00	1,150,000	3,450,000	6,379,000
*340X-8†	1 1/2F x 1 1/2F	40 x 40	8	200	4 1/2	114	9 3/4	248	8	3.60	1,150,000	3,450,000	6,379,000
*342-3	2M x 1 1/2F	50 x 40	3	76	4 1/2	114	9 3/4	248	7	3.00	1,150,000	3,450,000	6,379,000
*342X-8	2M x 1 1/2F	50 x 40	8	200	4 1/2	114	9 3/4	248	8	3.60	1,150,000	3,450,000	6,379,000

\* Standardly furnished with stainless steel thermostat tube. †340X-M4Z – Temperature Relief of 210°F, Certified CSA only.

\*\* ASME capacities are steam pressure ratings at the indicated set pressure and do not reflect the CSA temperature relieving capacity of the valves for selection purposes. Standard pressure relief setting: 75, 100, 125 and 150psi (5.2, 6.9, 8.6, and 10.3 bar).

Set @ 150psi (10.3 bar).