

Thermostatic Mixing Valve

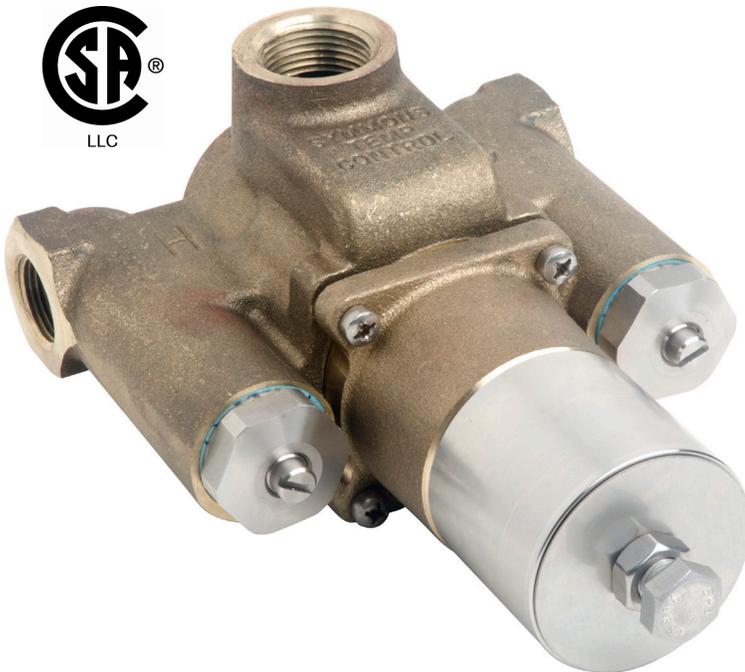
For over 50 years, Symmons TempControl valves have been the trusted choice of Contractors and Engineers where dependable temperature control is required. TempControl's durable brass, bronze, and stainless steel design display Symmons' dedication to quality and commitment to reliability.

7 Series TempControl Features

- 0.25% average lead content with respect to wetted surfaces
 - Durable lead free** Brass valve casting
 - Lead free** Bronze and Stainless Steel internal components
- Precise temperature control
 - Four 360 degree handle rotations allow finer output temperature adjustment
- Temperature setting options to suit many applications
 - 3/4" tamper resistant hex bolt
 - Control knob available (RO-016)
 - Safety lock nut prevents unwanted temperature adjustments



- 7 Series cartridge and repair parts are interchangeable with 5 and 6 Series models
- One piece valve cartridge
 - Fewer repair parts
 - Quick, efficient maintenance

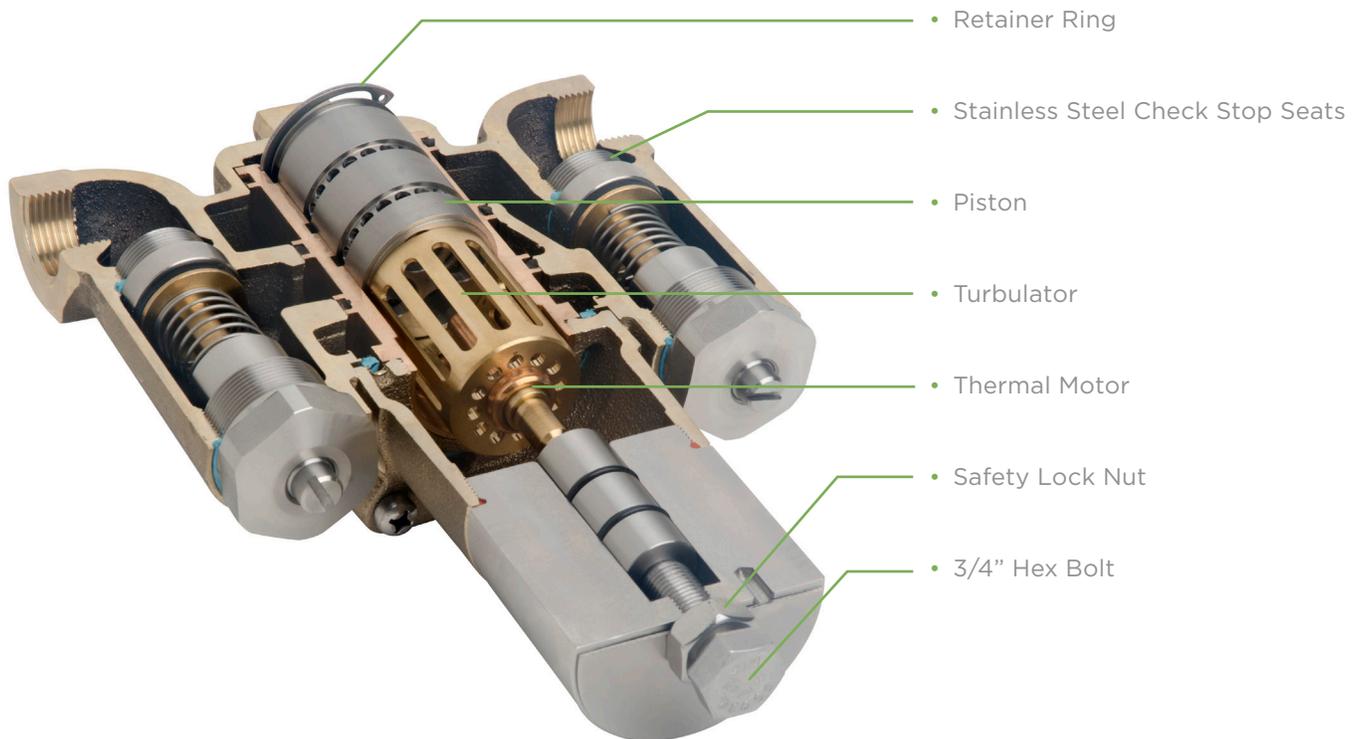


Proper Sizing

Thermostatic water controllers should be sized according to the flow capacity required from the valve, NOT the pipe size supplied to the valve. For assistance and technical support in sizing and selection of the proper TempControl Thermostatic Mixing valve, consult the Symmons TEMPSIZE™ online sizing tool, your local representative or Symmons Customer Service at 1-800-SYMMONS.

**According to US Senate bill S.3874, the term "lead free" is defined as follows:
"not more than a weighted average of 0.25 percent lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures"

A durable design that withstands the test of time combined with advanced engineering using Computational Fluid Dynamics software, Symmons TempControl provides industry leading protection against scalding and quality that is synonymous with the Symmons brand.



- Certified to ASSE 1017 and CSA standard B.125.3
- Compliant with NSF/ANSI 372 and NSF/ANSI 61-G
 - Lead free** brass, bronze and stainless steel internal components
- Adjustable range within 5 degrees of ambient water temperature up to 150 degrees
- Pressure tested up to 125 psi
- Inlet sizes ranging from 1/2" to 1-1/2"
- Outlet sizes ranging from 1/2" to 2"
- Single valve flow rates up to 140 gpm (529.9 L/min)
 - Parallel valve systems available for applications greater than 140 gpm
- Integrated Turbulator
 - Focuses water on thermal motor to rapidly react to temperature changes
 - Superior temperature control at low flow rates
- Thermal motor to quickly respond to changes in inlet temperature
- Integrated Stainless Steel check stops
 - Prevents thermal bleed over
 - Easy water shut off at valve

A Series

- Lead free** compliant valve and components
- Valve and Piping assembly
- Includes Temperature gauge and ball valve



B Series (A Series + Cabinet)

- Lead free** compliant valve and components
- Valve and Piping assembly
- Includes Temperature gauge and ball valve
- 16 gauge Stainless Steel cabinet with lock



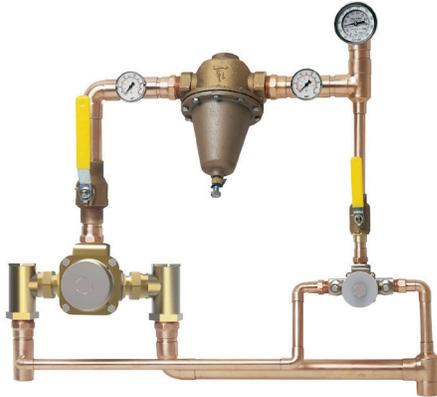
Flow Rate - gpm (L/min)

Model #	Min Flow Rate*	Min Flow Rate	Pressure Differential						
			5 psi	10 psi	20 psi	25 psi	30 psi	45 psi	
			34 kPa	69 kPa	138 kPa	172 kPa	207 kPa	310 kPa	
7-102	0.5	0.5	1	3	6	7	8	11	gpm
	1.9	1.9	3.8	11.4	22.7	26.5	30.3	41.6	L/min
7-200	0.5	5	7	12	18	21	23	27	gpm
	1.9	19	26.5	45.4	64.4	75.7	83.3	102.2	L/min
7-400	0.5	9	18	27	37	41	44	53	gpm
	1.9	34	64.4	102.2	140.1	155.2	166.6	200.6	L/min
7-500	0.5	13	22	38	50	55	59	70	gpm
	1.9	49	83.3	143.8	189.3	208.2	223.3	265.0	L/min
7-700	0.5	13	25	43	57	62	66	77	gpm
	1.9	49	94.6	162.8	215.8	234.7	249.8	291.5	L/min
7-900	0.5	13	30	55	76	84	89	104	gpm
	1.9	49	113.6	208.2	287.8	318.0	336.9	393.7	L/min
7-1000	0.5	13	38	67	100	111	120	140	gpm
	1.9	49	143.8	253.6	378.5	420.2	454.2	529.9	L/min

*Minimum flow rate when valve is installed at or near the hot water source with recirculated tempered water and continuously operating circulating pump.

Hi-Low Systems

- Lead free** compliant valve and components
- 2 valve system with Pressure Reducing Valve
- Includes Temperature and pressure gauges



Hi-Low B Series Systems (Hi-Low + Cabinet)

- Lead free** compliant valve and components
- 2 valve system with Pressure Reducing Valve
- Includes Temperature and pressure gauges with ball valves
- 16 gauge Stainless Steel cabinet with lock and key



Flow Rate - gpm (L/min)

Model #	Min Flow Rate*	Min Flow Rate	Pressure Differential						
			5 psi 34 kPa	10 psi 69 kPa	20 psi 138 kPa	25 psi 172 kPa	30 psi 207 kPa	45 psi 310 kPa	
7-200-102-PRV	0.5	0.5	8	15	24	28	31	38	gpm
	1.9	1.9	30.3	56.8	87.1	102.2	113.6	143.8	L/min
7-400-102-PRV	0.5	0.5	19	30	43	48	52	64	gpm
	1.9	1.9	68.2	113.6	162.8	181.7	196.9	242.2	L/min
7-500-102-PRV	0.5	0.5	23	41	56	62	67	81	gpm
	1.9	1.9	87.1	155.2	212	234.7	253.6	306.6	L/min
7-700-102-PRV	0.5	0.5	26	46	63	69	74	88	gpm
	1.9	1.9	98.4	174.2	238.5	261.2	280.1	333.1	L/min
7-900-102-PRV	0.5	0.5	31	58	82	91	97	115	gpm
	1.9	1.9	117.4	219.6	310.5	344.5	367.2	435.3	L/min
7-1000-102-PRV	0.5	0.5	39	70	106	118	128	151	gpm
	1.9	1.9	147.6	265.0	401.2	446.7	484.5	571.5	L/min
7-900-200-PRV	0.5	5	37	67	94	105	112	131	gpm
	1.9	18.9	140.1	253.6	352.2	393.7	420.2	495.9	L/min
7-1000-200-PRV	0.5	5	45	79	118	132	143	167	gpm
	1.9	18.9	170.3	299.0	442.9	495.9	537.5	632.1	L/min

*Minimum flow rate when valve is installed at or near the hot water source with recirculated tempered water and continuously operating circulating pump.

