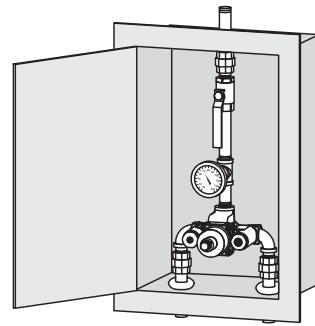




Thermostatic Mixing Valve
and Piping in Cabinet, B Series
Specification Submittal



Model Numbers

Models	----- Pipe sizes -----	
	Inlets	Outlets
7-102B*	1/2" (13mm)	1/2" (13mm)
7-200B*	3/4" (19mm)	3/4" (19mm)
7-400B*	3/4" (19mm)	1" (25mm)
7-500B*	1" (25mm)	1 1/4" (32mm)
7-700B*	1 1/4" (32mm)	1 1/2" (38mm)

*The 7 Series model numbers above replace the 6 Series.

Options/Modifications

-ASB Factory assembled and tested

Note: Append appropriate -suffix to model number.

Cabinet Modifications only

-M Surface mounted cabinet
 -S Semi-recessed cabinet with 4 inch (102 mm) return flange
 -TOP Top supplies
(Not available with -V option)

Note: Append appropriate -suffix to model number.

Finish Options/Modifications

-NI Rough nickel finish
 -T Stainless steel finish (cabinet only)
 -P Valves and piping with a polished chrome highlight finish
 - White finish (standard cabinet finish)

Note: Append appropriate -suffix to model number.

Architectural/Engineering Specification

Symmons Thermostatic Mixing Valve and Piping in Cabinet, B Series. Features include tempControl thermostatic controller, check stops, removable/replaceable cartridge, stainless steel piston, thermal motor with Turbulator, volume control shut-off valve, bimetal dial thermometer, range 20°-240°F (-7°- 116°C), 3 inch (76 mm) face, bottom supplies, top Outlet, cabinet with hinged left hand door & cylinder lock, body, 18 gauge (1.2 mm), door, 13 gauge (2.4 mm), fully recessed (standard), white finish (standard), brass pipes, fittings and unions to cabinet limits., interior parts in standard rough bronze finish. 10-Year Commercial Warranty. ASME A112.18.1/CSA B125.1, CSA B125.3, ASSE 1017, CA 116875 (AB 1953), NSF 372, US S.3874 compliant. Available options: ASB = Factory assembled and tested, M = Surface mounted cabinet, S = Semi-recessed cabinet with 4 inch, TOP = Top supplies, NI = Rough nickel finish, T = Stainless steel finish (cabinet only), P = Valves and piping with a polished chrome highlight finish and White finish (standard cabinet finish).

Feature Highlights

- TempControl thermostatic controller.
 - ▷ Check stops
 - ▷ Removable/replaceable cartridge
 - ▷ Stainless steel piston
 - ▷ Thermal motor with Turbulator™
- Volume control shut-off valve.
- Bimetal dial thermometer.
 - ▷ Range 20°-240°F (-7°- 116°C)
 - ▷ 3 inch (76 mm) face
- Bottom supplies.
- Top Outlet.
- Cabinet with hinged left hand door & cylinder lock.
 - ▷ Body, 18 gauge (1.2 mm)
 - ▷ Door, 13 gauge (2.4 mm)
 - ▷ Fully recessed (standard)
 - ▷ White finish (standard)
- Brass pipes, fittings and unions to cabinet limits.
- Interior parts in standard rough bronze finish.

Compliance

- ASME A112.18.1/CSA B125.1.
- CSA B125.3.
- ASSE 1017.
- CA 116875 (AB 1953).
- NSF 372.
- US S.3874.



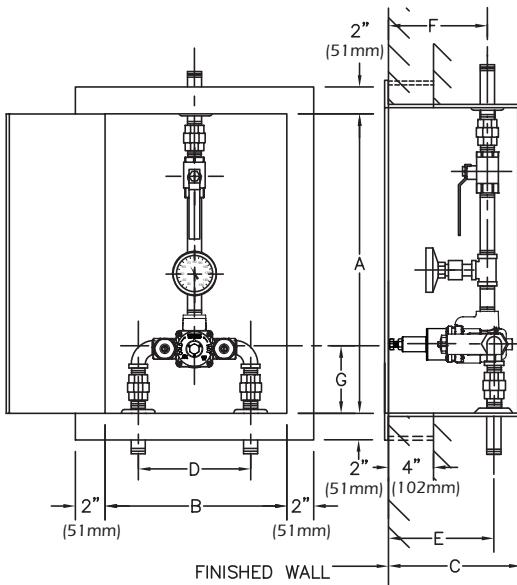
Warranty

Limited Lifetime - for residential installations.

10 Years - for commercial/industrial installations.

Refer to www.symmons.com/warranty for complete warranty information.





Physical Dimensions

Model No.	A	B	C	D	E	F	G
7-102B	22 3/8" (568mm)	13 3/4" (349mm)	11 1/4" (286mm)	3 1/2" (89mm)	9" (229mm)	9" (229mm)	6" (152mm)
7-200B	22 3/8" (568mm)	13 3/4" (349mm)	13" (330mm)	8 1/2" (216mm)	11" (279mm)	10 1/4" (260mm)	4 1/4" (108mm)
7-400B	22 3/8" (568mm)	13 3/4" (349mm)	13" (330mm)	8 1/2" (216mm)	11" (279mm)	10 1/4" (260mm)	4 1/4" (108mm)
7-500B	31" (787mm)	17" (432mm)	14" (356mm)	11" (279mm)	11 1/2" (292mm)	10 1/4" (260mm)	4 3/4" (121mm)
7-700B	31" (787mm)	17" (432mm)	14" (356mm)	12" (305mm)	11 1/2" (292mm)	10 1/4" (260mm)	7" (178mm)

Note: Dimension "C" references depth of hole required for recessed cabinet installation.

Flow Rate - gpm (L/min)

Valve Model	Min. Flow Rate*	Min. Flow Rate (per ASSE 1017)	Pressure Differential - psi (kPa)					
			5 psi (34 kPa)	10 psi (69 kPa)	20 psi (138 kPa)	25 psi (172 kPa)	30 psi (207 kPa)	45 psi (310 kPa)
7-102B	0.5 gpm (1.9 L/min)	0.5 gpm (1.9 L/min)	1 gpm (4 L/min)	3 gpm (11 L/min)	6 gpm (23 L/min)	7 gpm (27 L/min)	8 gpm (30 L/min)	11 gpm (42 L/min)
7-200B	0.5 gpm (1.9 L/min)	5 gpm (19 L/min)	7 gpm (27 L/min)	12 gpm (46 L/min)	18 gpm (68 L/min)	21 gpm (80 L/min)	23 gpm (87 L/min)	27 gpm (102 L/min)
7-400B	0.5 gpm (1.9 L/min)	9 gpm (34 L/min)	18 gpm (68 L/min)	27 gpm (102 L/min)	37 gpm (140 L/min)	41 gpm (155 L/min)	44 gpm (167 L/min)	53 gpm (201 L/min)
7-500B	0.5 gpm (1.9 L/min)	13 gpm (49 L/min)	22 gpm (83 L/min)	38 gpm (144 L/min)	50 gpm (190 L/min)	55 gpm (209 L/min)	59 gpm (224 L/min)	70 gpm (265 L/min)
7-700B	0.5 gpm (1.9 L/min)	13 gpm (49 L/min)	25 gpm (95 L/min)	43 gpm (163 L/min)	57 gpm (216 L/min)	62 gpm (235 L/min)	66 gpm (250 L/min)	77 gpm (292 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.