



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Submittal 22-001-016

PROJECT NAME	PROJECT ADDRESS	DATE SUBMITTED
ENBRIDGE BLDG B 22-001	405 Eastern Ave, Toronto, ON, M4M 1B7	Apr 21, 2025

TO	FROM
Ananth Manigandan	INZAMAN KHAN
COMPANY	COMPANY
ROCHON BUILDING CORPORATION	Consult Mechanical Inc.
EMAIL	EMAIL
AManigandan@rochonbuildingcorp.com	inzaman@consultmechanical.com
ADDRESS	ADDRESS
74 INDUSTY STREET TORONTO, ON M6M 4L7	54 Audia Court, Unit 2 Concord, ON L4K 3N5

Title

Hot water mixing valve

Description

Symmons Tempcontrol 'B' Series solid bimetal thermostatic mixing valve

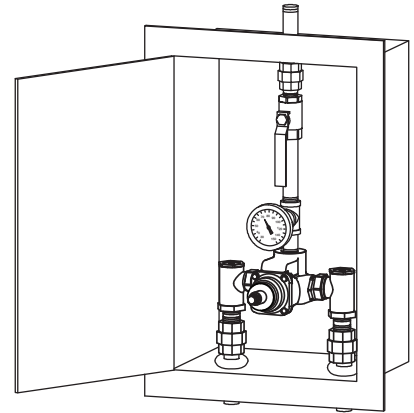
Package Items

SPEC	SUBSECTION	ITEM	TYPE
------	------------	------	------

Location:

SYMMONS® TempControl®

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



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
- **TempControl valves are certified to:**
 - ▷ ASME A112.18.1/CSA B125.1
 - ▷ CSA B125.3
 - ▷ ASSE 1017
 - ▷ CA 116875 (AB 1953)
 - ▷ NSF 372
 - ▷ US S.3874

Model Numbers

Models	----- Pipe sizes -----	
	Inlets	Outlets
<input type="checkbox"/> 7-900B*	1 1/2" (38mm)	1 1/2" (38mm)
<input type="checkbox"/> 7-1000B*	1 1/2" (38mm)	2" (51mm)

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

General Options / Modifications

Append appropriate -suffix to model number.

- ☐ -ASB Factory assembled and tested
- ☐ -V Vacuum breaker (not shown)

Cabinet Modifications only

Append appropriate -suffix to model number.

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

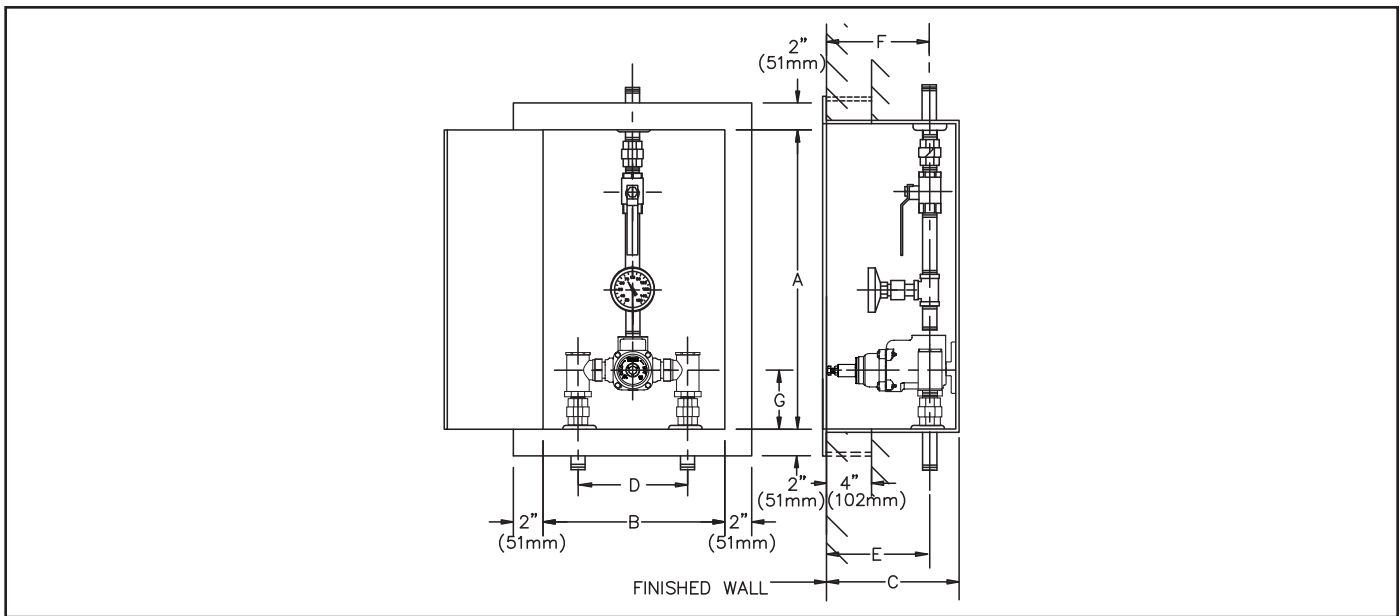
Finish Options / Modifications

Append appropriate -suffix to model number.

- ☐ -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)

Warranty

- 5 years - for commercial installations



Physical Dimensions

Model No.	A	B	C	D	E	F	G
7-900B	27" (686mm)	19" (483mm)	14 1/2" (368mm)	12" (305mm)	11 3/4" (298mm)	11 3/4" (298mm)	3 1/2" (89mm)
7-1000B	27" (686mm)	19" (483mm)	14 1/2" (368mm)	12" (305mm)	11 3/4" (298mm)	11 3/4" (298mm)	3 1/2" (89mm)

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

Flow Rate - gpm (L/min)

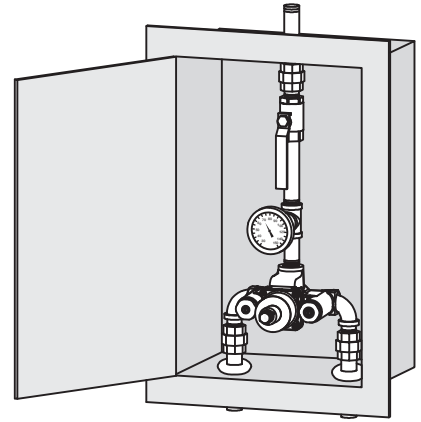
Valve Model	Min. Flow Rate*	Min. Flow Rate (per ASSE 1017)	Pressure Differential - psi (kPa)					
			5 psi (34 kPa)	10 psi (69 kPa)	20 psi (138 kPa)	25 psi (172 kPa)	30 psi (207 kPa)	45 psi (310 kPa)
7-900B	0.5 gpm (1.9 L/min)	13 gpm (49 L/min)	30 gpm (114 L/min)	55 gpm (209 L/min)	76 gpm (288 L/min)	84 gpm (318 L/min)	89 gpm (337 L/min)	104 gpm (394 L/min)
7-1000B	0.5 gpm (1.9 L/min)	13 gpm (49 L/min)	38 gpm (144 L/min)	67 gpm (254 L/min)	100 gpm (379 L/min)	111 gpm (421 L/min)	120 gpm (455 L/min)	140 gpm (531 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.

Location:

SYMMONS® TempControl®

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



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
- TempControl valves are certified to:
 - ▷ ASME A112.18.1/CSA B125.1 ▷ CA 116875 (AB 1953)
 - ▷ CSA B125.3 ▷ NSF 372
 - ▷ ASSE 1017 ▷ US S.3874

Model Numbers

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

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

General Options / Modifications

Append appropriate -suffix to model number.

- ☐ -V Vacuum breaker (not shown)
- ☐ -ASB Factory assembled and tested

Cabinet Modifications only

Append appropriate -suffix to model number.

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

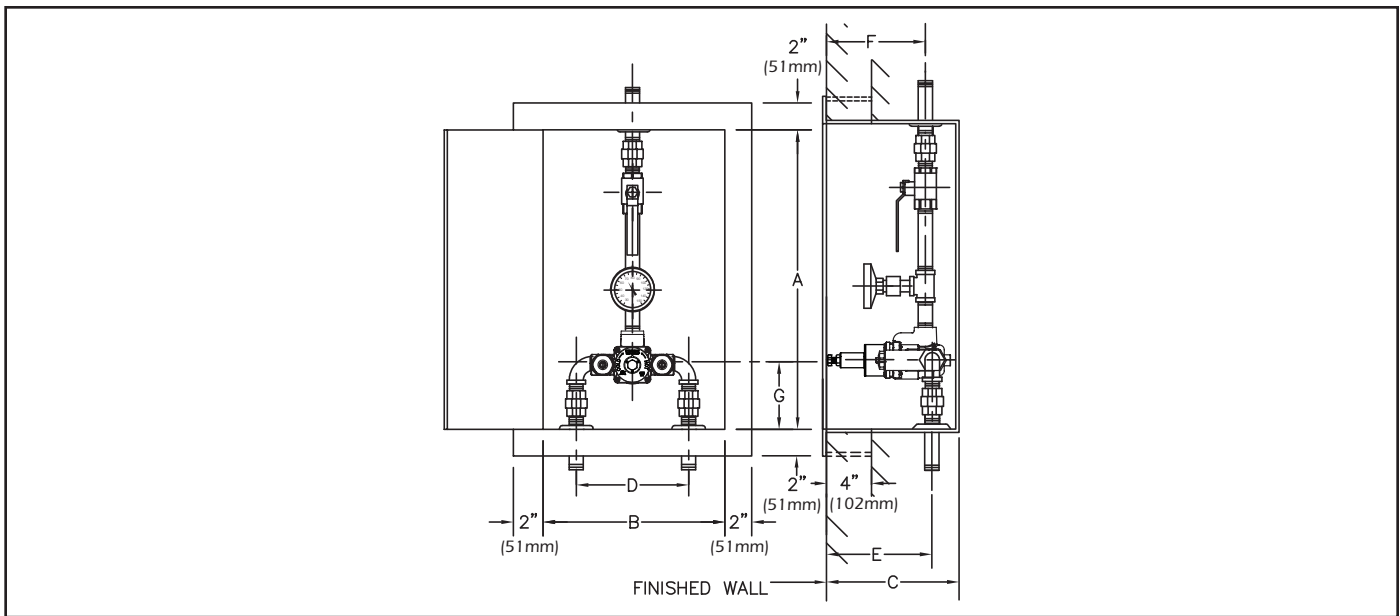
Finish Options / Modifications

Append appropriate -suffix to model number.

- ☐ -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)

Warranty

- 5 years - for commercial installations



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.