

Model SFST

Lead-Free Supply Fixture, Based On
The ST7069 Mixing Valve



THERMOSTATIC MIXING VALVES

APPLICATION:

The model SFST is pre-piped ASSE 1070 and 1069 Certified Thermostatic Mixing Valve that is Lead-Free and ideal for delivering safe tempered water at the point-of-use fixture(s) such as sinks, baths, showers or lavatories in residential, commercial and institutional environments. This valve can deliver 12 GPM (45 LPM) @ 45 PSI (310 kPa) differential and accommodate up to 8 single temperature showers or up to 24 hand washing stations with 0.5 gpm flow restrictors.

FEATURES:

- ◆ Lead-Free sweated assembly featuring a brass mixing valve containing corrosion resistant internal components.
- Integral checks with screens to prevent backflow and filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench and a locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Includes lockable brass ball valves on inlet and outlet connections.
- Valve is IAPMO certified to ASSE 1069.
- Valve is IAPMO certified to ASSE 1070.
- Valve is IAPMO certified to CSAB125.3.
- Factory assembled and pneumatically tested to 80 PSI (552 kPa).
- Temperature gauge on outlet, with gauges optionally available for inlets.
- Available with a Cold Water Supply Bypass configuration.

* In accordance with ASSE 1070 and ASSE 1069

** Inlet Supply Pressure Variation Up to 20%

◆ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.



Pb Federal Public Law 111-380 (No Lead)
Patent #9,898,017

SFST-B-OT-CWB-ITG

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (862 kPa)
 Maximum Hot Water Supply Temp: 180°F (82°C)
 Minimum Hot Water Supply Temp.**: 10°F (6°C)
 Above Set Point
 Outlet Temp. Range*: 90°F-115°F (32°C-46°C)
 Flow Rate: 12 GPM (45 LPM) @ 45 PSI (310 kPa)
 Differential
 Certified Minimum Flow*: 0.5 GPM (1.9 LPM)
 Connections 1/2" NCT

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	1.8	4 (15)	5.7 (21.4)	7 (26.2)	8 (30.2)	9.8 (37)	12 (45.4)	13.8 (52.4)

GUIDE SPECIFICATION:

SFST Supply Fixture shall be factory assembled and feature an Acorn ST7069 Thermostatic Mixing Valve which shall be IAPMO lab certified per ASSE and CSA standards. Valve shall contain a copper encapsulated, paraffin-based thermal actuator. Valve shall be a solid brass body with a capacity of 12 GPM (45 LPM) at 45 PSI (310 kPa) differential and a maximum operating pressure of 125 PSIG (862 kPa). Supply pressure variation shall be up to 20%. Valve shall have an adjustable outlet temperature range of 90°F-115°F (32°C-46°C), factory set at 105°F (41°C). Fixture shall include an outlet temperature gauge. Valve shall comply with ASSE 1069, ASSE 1070 and CSAB125.3 standards. Supply Fixture shall be **MGI CONTROLS®** model SFST _____.

MGI ConTrols® assumes no responsibility for use of void or superseded data. MGI ConTrols®, Lake Bluff, IL, a member of Morris Group International®. Please visit www.mgicontrols.com for most current specifications.

Submission # **SFST**
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Certifications and Standards:



ASSE 1069
ASSE 1070
CSA B125.3

VALVE ONLY
NSF/ANSI 61
Certified



MGI ConTrols®
42 Sherwood Terrace, Suite #5
Lake Bluff, IL 60044
Phone: (847) 604-4773

www.mgicontrols.com



THERMOSTATIC MIXING VALVES

VALVE SELECTION:

- SFST Brass Valve Body, 1/2" Inlets & Outlet, 12 GPM (45 LPM)

PIPING CONFIGURATION:

INLET:

- T Top Supply Inlet
-B Bottom Supply Inlet

OUTLET:

- OT Outlet Top
-OB Outlet Bottom
-OSL Outlet Side, Left
-OSR Outlet Side, Right

VALVE OPTIONS:

- CWB Cold Water Bypass
-ITG Inlet Temperature Gauges, Hot & Cold

OPTIONAL CABINET:

STYLE

- RC Recessed Cabinet
-SMC Surface Mounted Cabinet

FINISH

- PRC Prime Coat Finish (16 Gage Mild Steel)
-SSTL Stainless Steel (18 Gage Type 304)

DOOR OPTIONS

- DRS Solid Door
-DRV Door Viewport
Must Specify: Hinge Location
-L Left
-R Right

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

Model Number & Options _____ Quantity _____
Company _____
Contact _____ Title _____
Signature (Approval for Manufacturing) _____ Date _____

MGI CONTROLS logo
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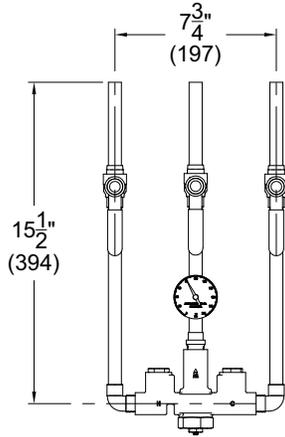
Model SFST

Lead Free Thermostatic Mixing Valve
Supply Fixture

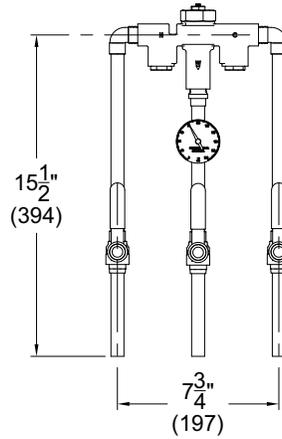
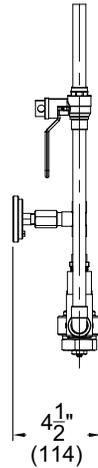


THERMOSTATIC MIXING VALVES

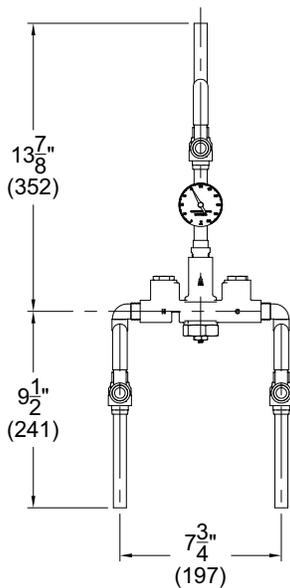
TECHNICAL DIMENSIONS: LESS OPTIONAL -ITG



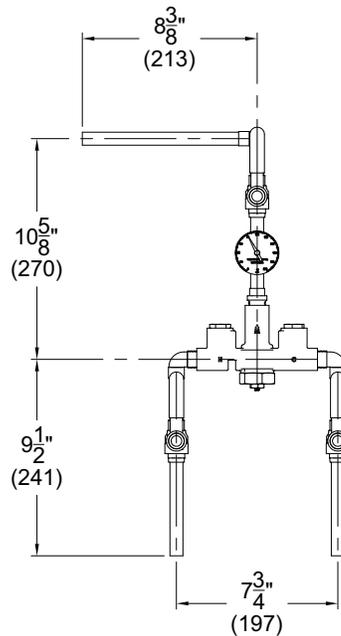
SFST-T-OT



SFST-B-OB



SFST-B-OT



SFST-B-OSL

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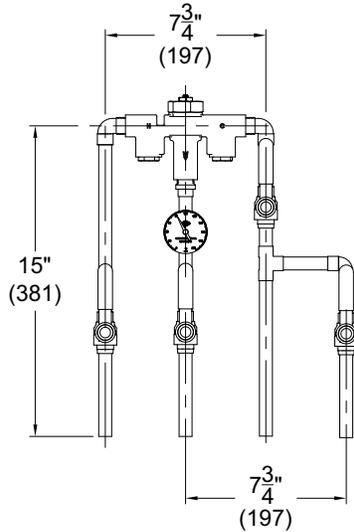
Model SFST

Lead Free Thermostatic Mixing Valve
Supply Fixture

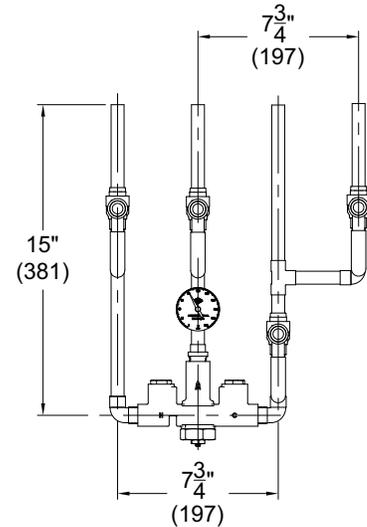
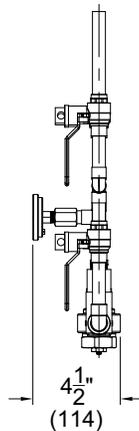


THERMOSTATIC MIXING VALVES

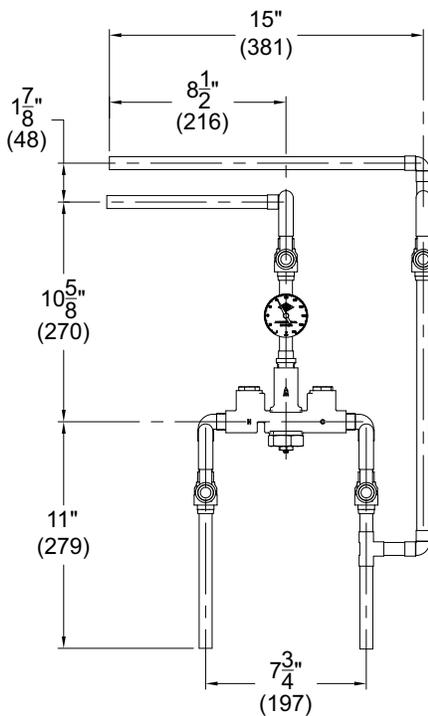
TECHNICAL DIMENSIONS: LESS OPTIONAL -ITG



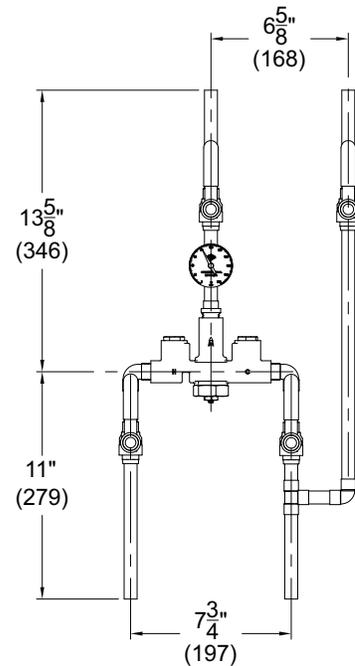
SFST-B-OB-CWB



SFST-T-OT-CWB



SFST-B-OSL-CWB



SFST-B-OT-CWB

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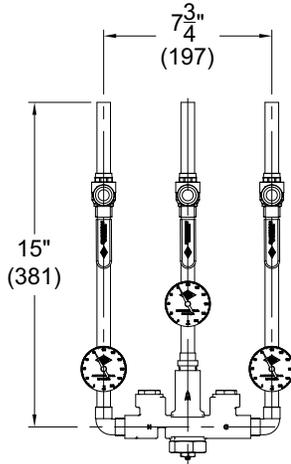
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Supply Fixture

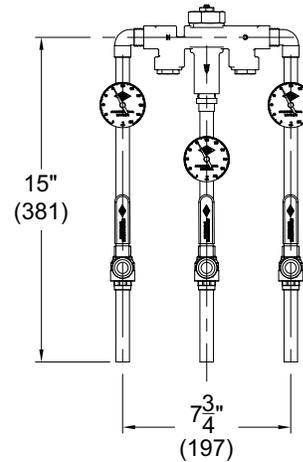
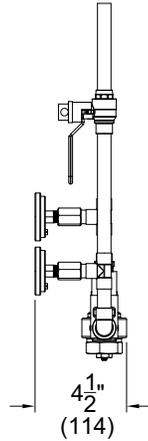


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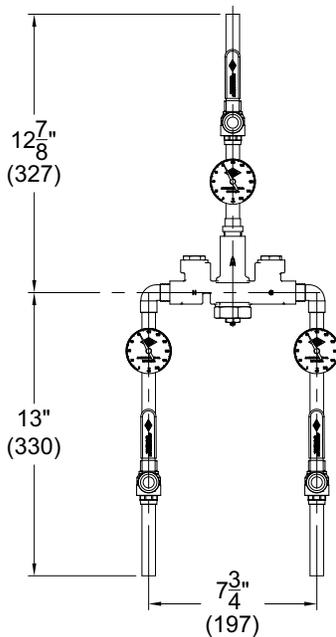
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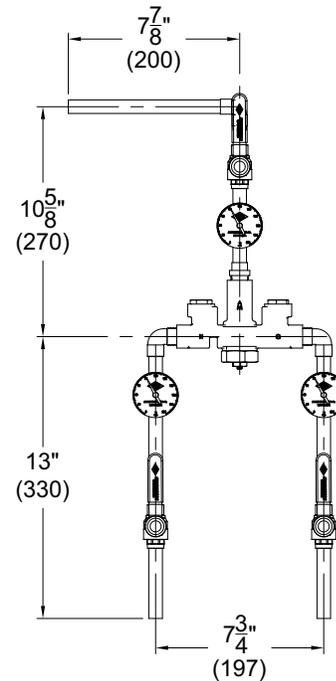
SFST-T-OT-ITG



SFST-B-OB-ITG



SFST-B-OT-ITG



SFST-B-OSL-ITG

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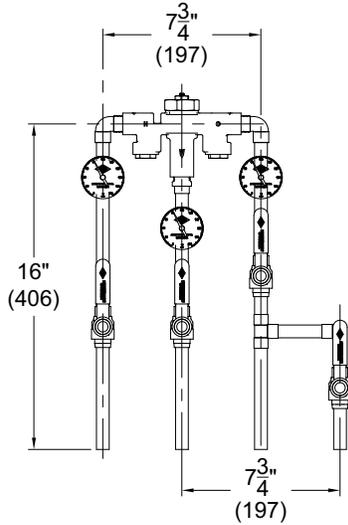
Model SFST-CWB

Lead Free Thermostatic Mixing Valve Supply
Fixture Plumbed For Cold Water Supply Bypass

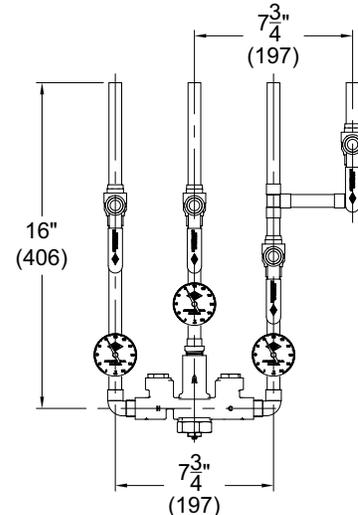
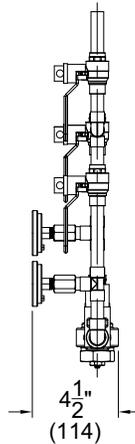


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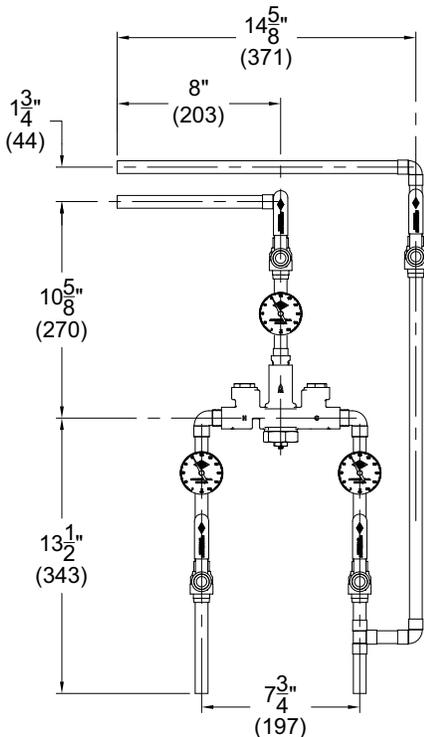
TECHNICAL DIMENSIONS: WITH OPTIONAL -ITG



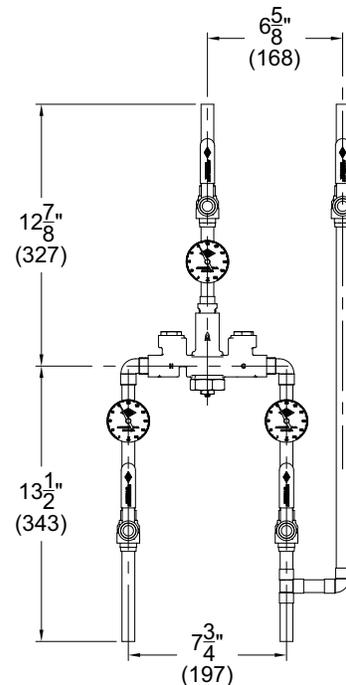
SFST-B-OB-CWB-ITG



SFST-T-OT-CWB-ITG



SFST-B-OSL-CWB-ITG



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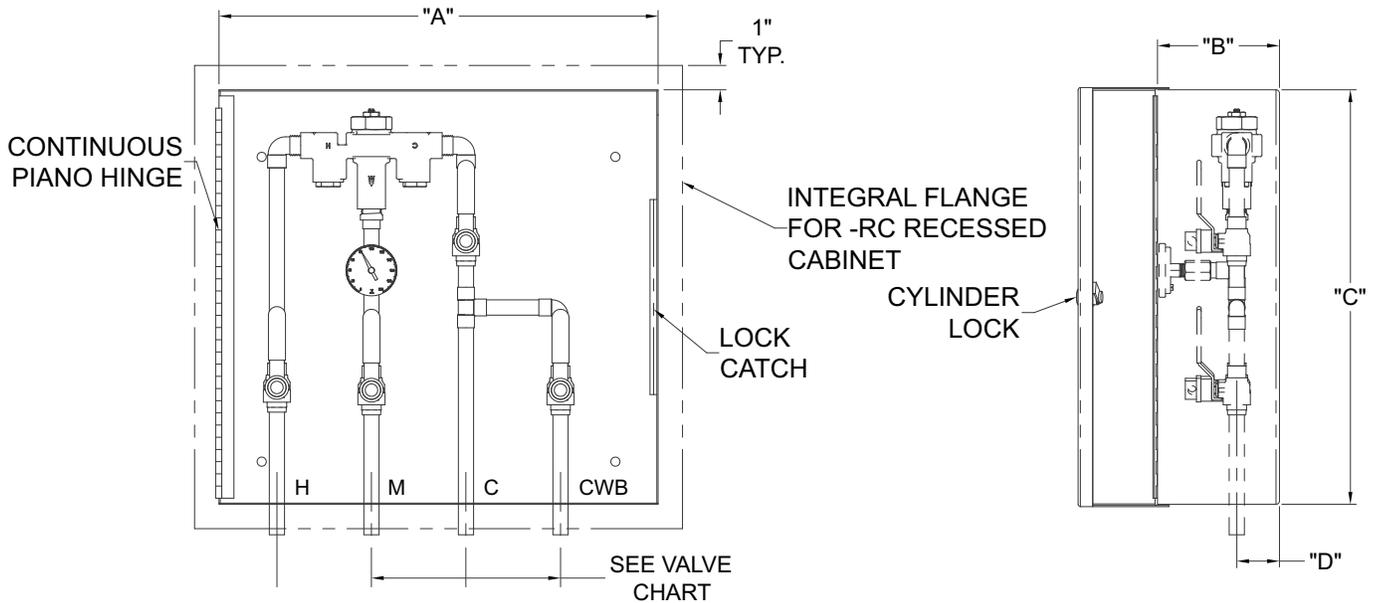
Model SFST Cabinet

Thermostatic Mixing Valve Supply
Fixture Cabinets



THERMOSTATIC MIXING VALVES

TECHNICAL DIMENSIONS:



CABINET SHOWN LESS DOOR FOR CLARITY

FOR FIXTURES WITH OPTIONAL -ITG

SFST		CONFIGURATION	"A"	"B"	"C"	"D"
INLET	OUTLET	TOP/TOP BOT/BOT	15" (380)	5-1/2" (140)	17" (430)	1-3/4" (45)
1/2" NCT	1/2" NCT	BOTTOM TOP	15" (380)	5-1/2" (140)	23" (585)	1-3/4" (45)
		BOTTOM TOP/SIDE	15" (380)	5-1/2" (140)	23" (585)	1-3/4" (45)
		TOP/TOP-CWB BOT/BOT-CWB	17-1/2" (445)	5-1/2" (140)	17" (430)	1-3/4" (45)
		BOTTOM TOP-CWB	18" (460)	5-1/2" (140)	23-1/2" (560)	1-3/4" (45)
		BOTTOM TOP/SIDE-CWB	17" (430)	5-1/2" (140)	25-1/2" (650)	1-3/4" (45)

FOR FIXTURES LESS OPTIONAL -ITG

SFST		CONFIGURATION	"A"	"B"	"C"	"D"
INLET	OUTLET	TOP/TOP BOT/BOT	15" (380)	5-1/2" (140)	17" (430)	1-3/4" (45)
1/2" NCT	1/2" NCT	BOTTOM TOP	15" (380)	5-1/2" (140)	18" (455)	1-3/4" (45)
		BOTTOM TOP/SIDE	14" (355)	5-1/2" (140)	19" (480)	1-3/4" (45)
		TOP/TOP-CWB BOT/BOT-CWB	17-1/2" (445)	5-1/2" (140)	17" (430)	1-3/4" (45)
		BOTTOM TOP-CWB	17" (430)	5-1/2" (140)	20-1/2" (520)	1-3/4" (45)
		BOTTOM TOP/SIDE-CWB	17" (430)	5-1/2" (140)	23" (585)	1-3/4" (45)

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