

Model S0000-TMV33

Thermostatic Mixing Valve
for Combination Station, 33 gpm



SPECIFICATIONS:

Model S0000-TMV33 is a thermostatic mixing valve that blends hot and cold water to deliver tepid water to emergency fixtures, quickly compensating for temperature variations due to changes in inlet temperature or pressure. The unit's exclusive "dual internal by-pass" insures cold water flow in the event of a valve failure or loss of hot water. The advanced thermal actuator senses and adjusts the outlet water temperature to variations in the temperature and/or pressure. The dirt and lime resistant piston cylinder design ensures minimal maintenance. Checkstops included with each valve, prevent crossover and allow easy shutdown of the unit for servicing. The valve also features a tamper-resistant temperature adjustment control, and a rough bronze Temperature/Pressure gauge on outlet.

STANDARD EQUIPMENT:

- Advance thermal actuator provides precise temperature control.
- Exclusive dual internal by-pass ensures cold water flow if hot water is lost or actuator fails.
- Flow shuts down upon loss of cold water.
- Large, easy to read dial Temperature / Pressure gauge.
- Valve complies with ANSI Z358.1-2009
- ASSE 1071 Listed

Model: S0000-TMV33



SIZING:

Capacity Tables below present the mixing valve's discharge capacity in gpm (in lpm) for various pressure differentials (the difference between the lowest inlet pressure and the discharge pressure).

FLOW CAPACITY 50-50 MIXED RATIO

Minimum Flow Rate	Pressure Drop Across Valves						
	5psi 34kPa	10psi 69kPa	15psi 103kPa	20psi 138kPa	30psi 207kPa	45psi 310kPa	60psi 414kPa
3.0 gpm 11.4 lpm	13.4 gpm 50.7 lpm	19 gpm 71.9 lpm	23.2 gpm 87.8 lpm	26.8 gpm 101.4 lpm	32.9 gpm 124.5 lpm	40.2 gpm 152.2 lpm	46.5 gpm 176 lpm

OPERATING SPECIFICATIONS:

- Maximum Pressure: 125 psi (861.25 kPa)
- Maximum Hot Water Temperature: 180°F (82°C)
- Approach Temperature: 15°F (8°C)
- Temperature Adjustment Range: 60°F (15°C) to 95°F (35°C)
- Factory Set Temperature: 85° (29°C)
- Bypass flow rate at 30 psid: 30 GPM (114 lpm)
- Maximum flow with cold water shutoff: 0.5 GPM (1.9 lpm)



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U.S. Green
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Recyclable
Product

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Submital # **S0000-TMV33**
[MV] Rev. B 03/28/11

Product complies
to the following standards:



Test rating conditions are compliant to ANSI Z358.1-2009



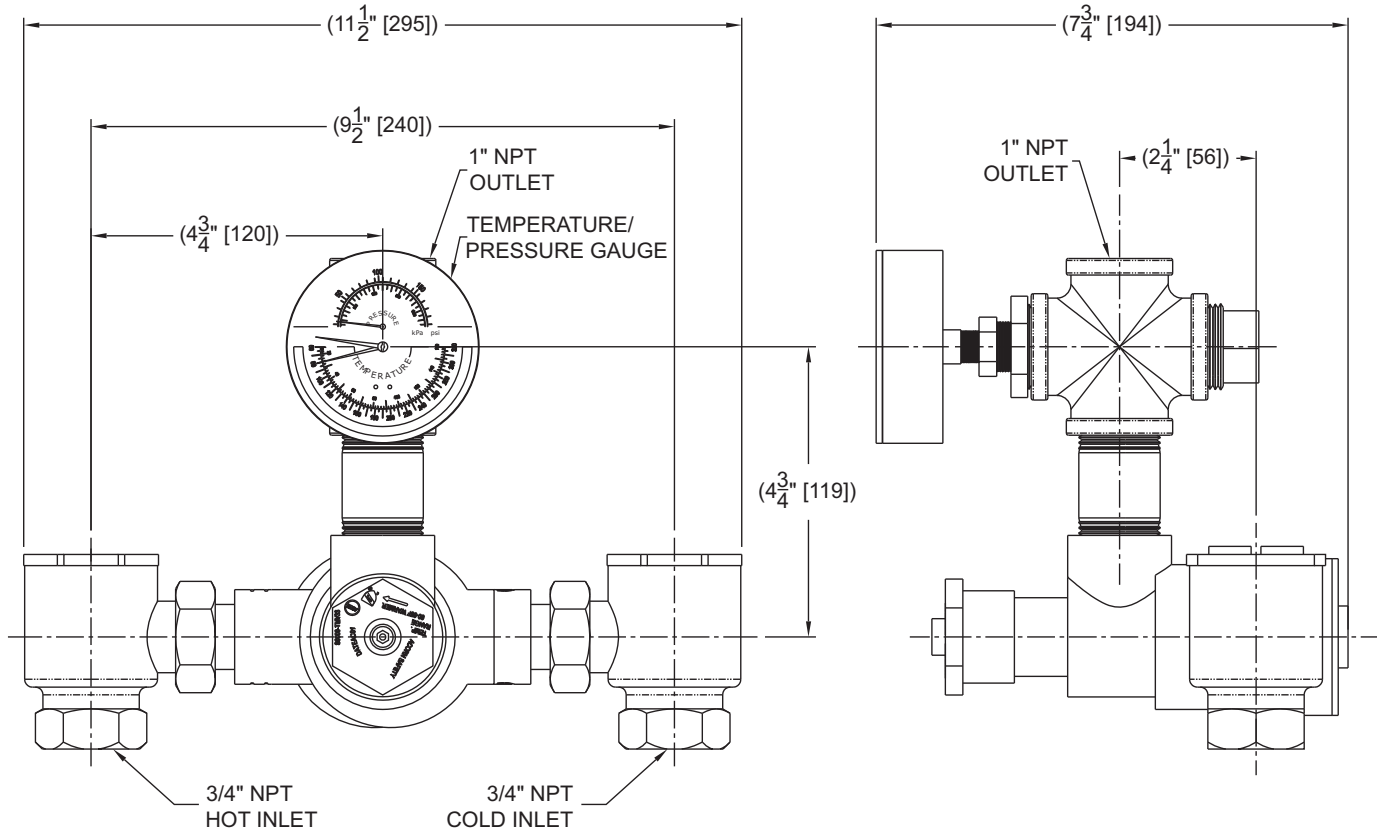
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TECHNICAL DIMENSIONS

All dimensions are nominal and subject to manufacturer's change without notice. Acorn Safety assumes no responsibility for use of void or suspended data. Dimensions may change with the addition of optional accessories. © 2009 Acorn Safety, a Division of Acorn Engineering Company. Please visit www.acornsafety.com for most current specifications.

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GENERAL NOTES:

1. ALL DIMENSIONS ARE IN (INCHES [mm]).

Rough-in # **S0000-TMV33** 03/22/11

Acorn Safety warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature
(Approval for
Manufacturing) _____ Date _____



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