

Model SV16

Lead-Free Thermostatic, Temperature/Pressure Balancing Mixing Valve for Individual Showers

APPLICATION:

The model SV16 ASSE 1016 (**Rev. 2011**) Certified Temperature/Pressure (T/P) compensating Shower Valve meets the requirements of any shower or tub/shower application where uncompromised bather safety and comfort is required. Although designed and built for the challenges of commercial and industrial facilities, it is cost competitive with high-end Pressure Balancing Valves. The SV16 combination T/P Valve allows even the most cost sensitive properties to meet budget without the scalding risk associated with type "P" Valves.

FEATURES:

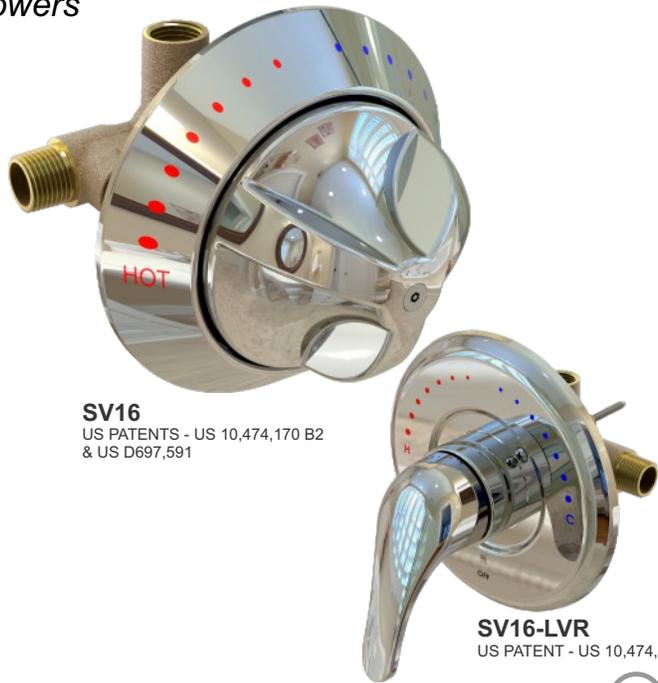
- IAPMO certified at 1.25 GPM (4.7 LPM) control accuracy requirements of ASSE 1016 T/P
- Ceramic shut-off components for long-term, drip-free reliability
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead-free internal components
- A self-contained, field reversible cartridge eliminates cross-piping and offsetting of valves in back-to-back type installation
- Commercial quality paraffin sensor provides repeatable, reliable performance
- Integral checkstops to isolate individual valves for servicing and to prevent backflow
- A non-rising stem insures the benefit of our patented Ligature and Vandal Resistant trim even when full open. With the Lever Handle Trim, it eliminates a possible pinching of the bather's fingers while closing the valve
- Our patented Tri-Lever Ligature and Vandal Resistant or Single Lever trim are all-metal and provide ADA Compliance throughout the full operating range
- Serviceable inlet screens

* Under normal operating conditions.

✧ 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.

GUIDE SPECIFICATION:

SV16 Shower valve shall meet performance requirements of **ASSE 1016-2011**, Type T/P, compensating for $\pm 50\%$ fluctuation in supply line pressure and compensate for increases in hot water supply temperature. Valve shall operate with a non-rising stem and have ceramic shut-offs for long term drip-free reliability. Cartridge shall be self-contained, designed for easy maintenance and repair. Valve shall be a cast brass body with a capacity of 4 GPM (15 LPM) at 45 psi (310 kPa) differential. Valve shall include a field adjustable limit stop, factory set at 110° F (43° C) and capable of supplying mixed water temperature within 5° F (2.8° C) of hot water supply temperature. Valve shall always open through cold water to maximize the safety of the bather. Valve shall be **Acorn CONTROLS®** model SV16.



SV16
US PATENTS - US 10,474,170 B2
& US D697,591

SV16-LVR
US PATENT - US 10,474,170 B2



SPECIFICATIONS:

Connections: Combination 1/2" NPT and 1/2" solder Inlet Connections

Riser Connection: 1/2" NPT

Flow Rate: 4 GPM (15 LPM) @ 45 psi (310 kPa) Differential

Hot Water Supply Temp.: 110°F-180°F (43°C-82°C)

Cold Water Supply Temp.: 35°F-80°F (1.7°C-27°C)

Approach Temperature*: 5°F (2.8°C) Above Set Point

Maximum Operating Pressure: 125 PSI (862 kPa)

Temperature Ranges*: 85°F-115°F (29°C-46°C)

Certified Minimum Flow: 1.25 GPM (4.7 LPM)

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15.1)	4.6 (17.5)

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Submital # **SV16**
Revised: 06/24/2025

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Certifications and Compliances:



C
ASSE 1016
CSA B125.16



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Lake Bluff, IL 60044
Phone: (847) 604-4773
www.acorn-controls.com



THERMOSTATIC MIXING VALVES

VALVE AND TRIM: MUST SPECIFY

- SV16 Shower Valve with ADA Compliant, with a Patented Tri-Lever Ligature and Vandal Resistant Handle
- SV16-LVR Shower Valve with Lever Handle

SHOWER ACCESSORIES:

SHOWERHEAD:

- CSH15 Conical Ligature Resistant Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- CSH20 Conical Ligature Resistant Showerhead, Chrome Plated Brass With 2.0 GPM (7.6 LPM) Flow Control
(Not Available For Use in California)
- CSH-WSB WaterSense 1.5 GPM (5.7 LPM) Conical Showerhead Ligature Resistant
- ESH15 Econo-Showerhead, Chrome Plated ABS With 1.5 GPM (5.7 LPM) Flow Control
- ESH25 Econo-Showerhead, Chrome Plated ABS With 2.5 GPM (9.5 LPM) Flow Control
(Not Available For Use in California)
- LSH15 Large Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- LSH25 Large Showerhead, Chrome Plated Brass With 2.5 GPM (9.5 LPM) Flow Control
(Not Available For Use in California)
- NSH15 Nozzle Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- NSH20 Nozzle Showerhead, Chrome Plated Brass With 2.0 GPM (7.6 LPM) Flow Control
(Not Available For Use in California)
- SH15 Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- SH25 Showerhead, Chrome Plated Brass With 2.5 GPM (9.5 LPM) Flow Control
(Not Available For Use in California)

SHOWERHEAD CONNECTION:

- BA Deluxe Bent Arm and Flange
- HV Hand Volume Control

TUB SPOUT:

- TUB1 Tub Spout, Chrome Plated Brass with Diverter & 3/4" NPT with Adapter for 1/2" NPT
- TUB2 Tub Spout, Chrome Plated Zinc with Diverter & 3/4" NPT with Adapter for 1/2" NPT
- TUB3 Tub Spout, Chrome Plated Zinc with Diverter & 1/2" Slip Fit Connection
- TUB4 Tub Spout, Chrome Plated Zinc, Less Diverter & 1/2" NPT Connection

HANDHELD SHOWER, HANDLE:

- HHC15 Handheld Shower, Chrome With 1.5 GPM (5.7 LPM) Flow Control
- HHW15 Handheld Shower, White With 1.5 GPM (5.7 LPM) Flow Control

HANDHELD SHOWER HOSE:

- HSSH Handheld Shower Hose, 60" Stainless Steel
- HSSH-72 Handheld Shower Hose, 72" Stainless Steel
- HHVH Handheld Shower Hose, 60" Vinyl

HANDHELD MOUNTING:

- GR24 Glide Rail, 24"
- GR30 Glide Rail, 30"
- HHGB Handheld Grab Bar Mounting Bracket, White
- HHGBC Handheld Grab Bar Mounting Bracket, Chrome
- HHWB Handheld Wall Mounting Bracket
Specify Quantity: 1 2

DIVERTER:

- DIV Diverter Valve, Concealed, Trim To Match Valve Trim
- IDIV Inline 3 Port Diverter Valve

GRAB BAR:

- 1108CAP-1 Grab Bar w/ Flange Caps, 24" Long
- 1108CAP-4 Grab Bar w/ Flange Caps, 36" Long

VACUUM BREAKER:

- EVB Exposed Elevated Vacuum Breaker
- IVB Inline Vacuum Breaker

HANDHELD SUPPLY CONNECTION:

- HHSE Handheld Supply Elbow
- QD Quick-Disconnect

PRODUCT OPTIONS:

- RPI Reversed Port Inlets (25 Piece Minimum)
(Back-To-Back Installation)
Quantity: _____

PROJECT PACKING:

- Project Packing (100 Piece Minimum)
Quantity: _____

SV16 Revised: 06/24/2025

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing)

Date _____



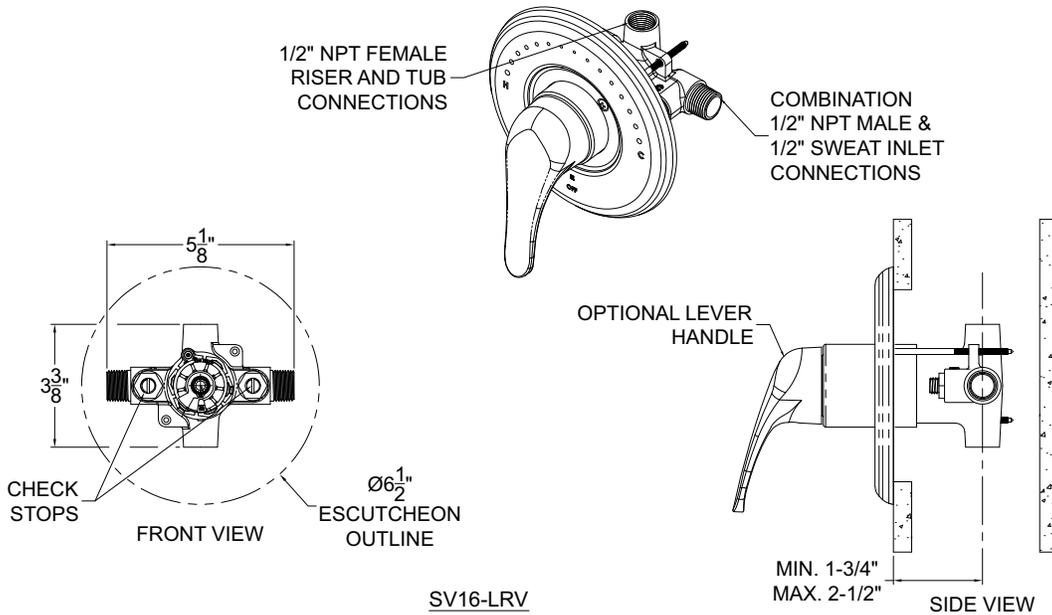
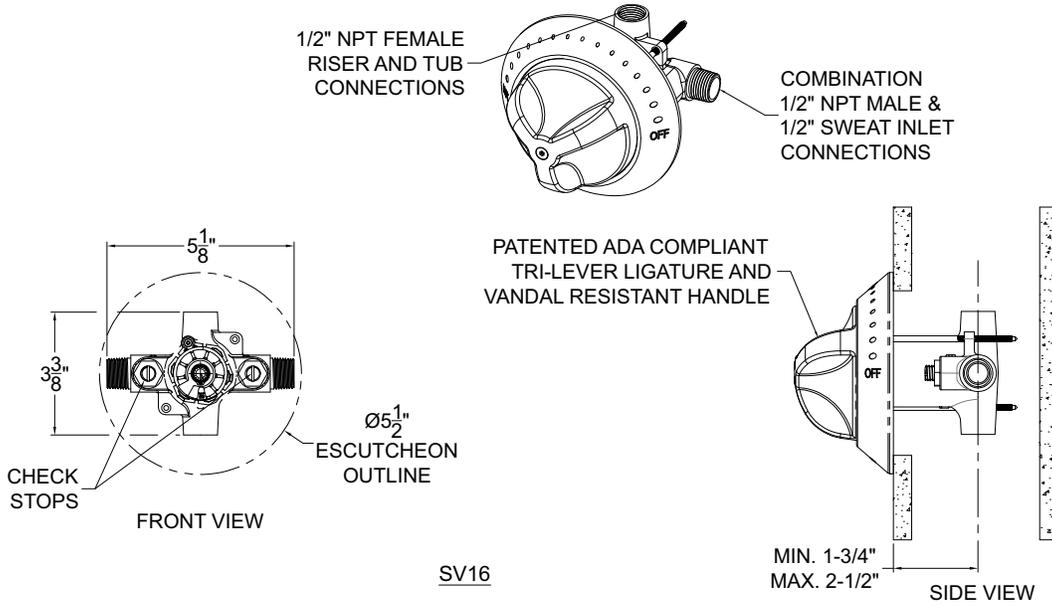
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TECHNICAL DIMENSIONS:



THERMOSTATIC MIXING VALVES



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