

# Model SV16

## Lead Free Temperature/Pressure Balancing Mixing Valve for Individual Showers

### APPLICATION:

The Acorn 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 Balance 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:

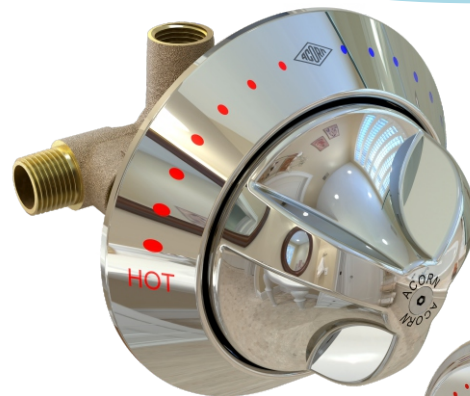
- Verified by an independent lab to exceed the  $\pm 3.6^\circ\text{F}$  ( $2^\circ\text{C}$ ) control accuracy requirements of ASSE 1016 T/P under the highest level of input pressure (CW and HW  $\pm 50\%$  psi) and temperature (HW  $+25^\circ\text{F}$  ( $14^\circ\text{C}$ ) changes. For use for shower heads rated 1.25 gpm (4.7 lpm) or higher.
- $\nabla$  Lead Free solid 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 thermal actuator provides repeatable, reliable performance.
- Integral check stops to isolate individual valves for servicing and to prevent backflow.
- A non-rising stem eliminates a gap between the handle and faceplate, common with all other thermostatic shower valves as the temperature setting increases. This insures the benefit of our patented Ligature Resistant trim even when full open. With Lever Trim it eliminates a possible pinching of the bather's fingers while closing the valve.
- Ceramic shut-off components for long term drip-free reliability.
- Your choice of a patented Tri-Lever Ligature Resistant or Single Lever trim. Both are all-metal and provide ADA Compliance throughout the full operating range

\* Under normal operating conditions.

$\nabla$  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  $110^\circ\text{F}$  ( $43^\circ\text{C}$ ) and capable of supplying mixed water temperature within  $10^\circ\text{F}$  ( $5.5^\circ\text{C}$ ) of hot water supply temperature. Valve shall always open through cold water to maximize the safety of the bather. Valve shall be Acorn model SV16.

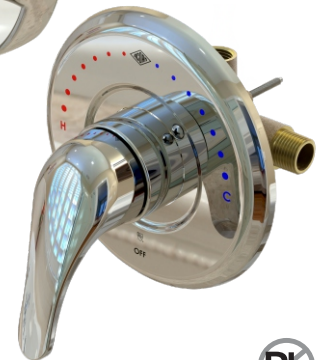


SV16

Patented Tri-Lever Handle

Patent Pending

Your choice of a Patented Tri-Lever Ligature Resistant Or Single Lever trim.



SV16-LVR



### SPECIFICATIONS:

Connections: ..... Combination 1/2" NPT and 1/2" sweat Inlet-Connections  
 Riser Connection: ..... 1/2" NPT  
 Flow Rate: ..... 4 gpm (15 lpm) @ 45 psi (310 kpa) Differential  
 Hot Water Supply Temp.: .....  $110^\circ\text{--}180^\circ\text{F}$  ( $43^\circ\text{--}82^\circ\text{C}$ )  
 Cold Water Supply Temp.: .....  $35^\circ\text{--}80^\circ\text{F}$  ( $1.7^\circ\text{--}27^\circ\text{C}$ )  
 Approach Temperature\*: .....  $10^\circ\text{F}$  ( $5.5^\circ\text{C}$ )  
 Maximum Operating Pressure: ..... 125psi (862kpa)  
 Temperature Ranges\*: .....  $85^\circ\text{--}115^\circ\text{F}$  ( $29\text{--}46^\circ\text{C}$ )  
 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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Submission # **SV16**  
Revised: 01/23/15

### Certifications and Compliances:



C ASSE 1016  
CSA B125.16



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**ACORN ENGINEERING COMPANY**  
Manufacturer of Engineered Products

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**PRODUCT OPTIONS:**

**VALVE AND TRIM: MUST SPECIFY**

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

**SHOWER ACCESSORIES:**

**SHOWERHEAD:**

- CSH15 Conical Ligature Resistant Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- CSH25 Conical Ligature Resistant Showerhead, Chrome Plated Brass With 2.5 GPM (9.5 LPM) Flow Control
- 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 (9.7 LPM) Flow Control
- 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 (9.7 LPM) Flow Control
- NSH15 Nozzle Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- NSH25 Nozzle Showerhead, Chrome Plated Brass With 2.5 GPM (9.5 LPM) Flow Control
- SH15 Showerhead, Chrome Plated Brass With 1.5 GPM (5.7 LPM) Flow Control
- SH25 Showerhead, Chrome Plated Brass With 2.5 GPM (9.7 LPM) Flow Control

**SHOWERHEAD CONNECTION:**

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

**TUB SPOUT:**

- TUB1 Tub Spout, Chrome Plated Brass w/ Divert. & 3/4" NPT with Adapter for 1/2" NPT
- TUB2 Tub Spout, Chrome Plated Zinc w/ Divert. & 3/4" NPT with Adapter for 1/2" NPT
- TUB3 Tub Spout, Chrome Plated Zinc w/ Divert. & 1/2" Slip Fit Connection
- TUB4 Tub Spout, Chrome Plated Zinc, No Divert. w/ 1/2" NPT Connection

**HANDHELD SHOWER, HANDLE:**

- HHC15 Handheld Shower, Chrome With 1.5 GPM (5.7 LPM) Flow Control
- HHC25 Handheld Shower, Chrome With 2.5 GPM (9.7 LPM) Flow Control
- HHW15 Handheld Shower, White With 1.5 GPM (5.7 LPM) Flow Control
- HHW25 Handheld Shower, White With 2.5 GPM (9.7 LPM) Flow Control

**HANDHELD SHOWER HOSE:**

- HSSH Handheld Shower Hose, 60" 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

**PROJECT PACKING:**

- Project Packing (100 Pieces Minimum)  
Quantity: \_\_\_\_\_

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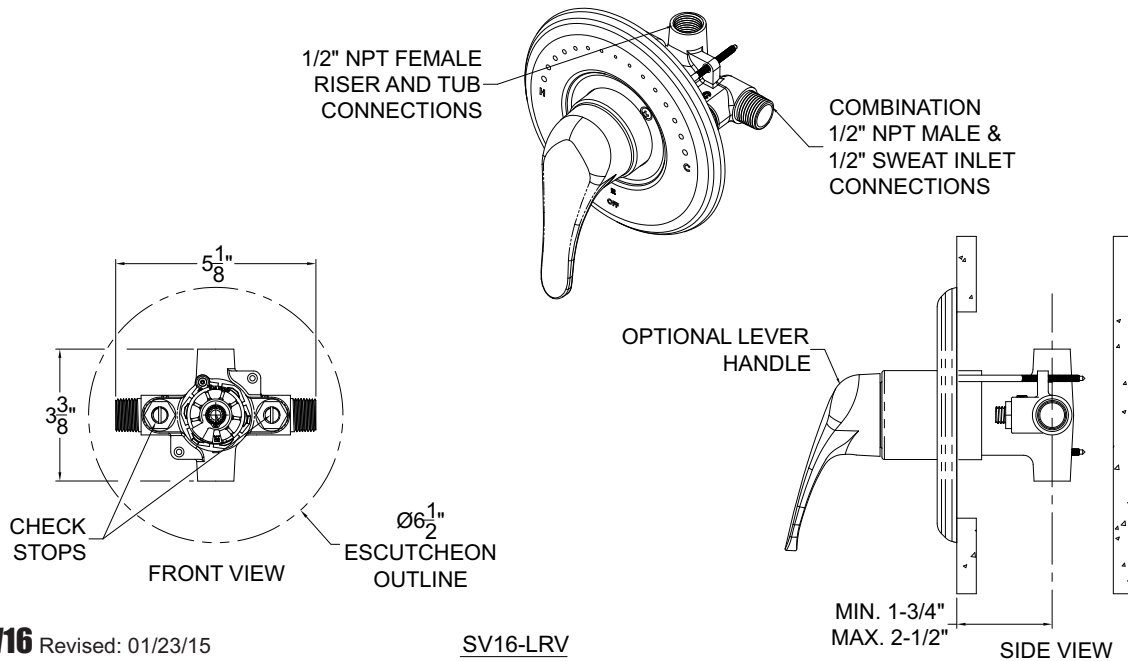
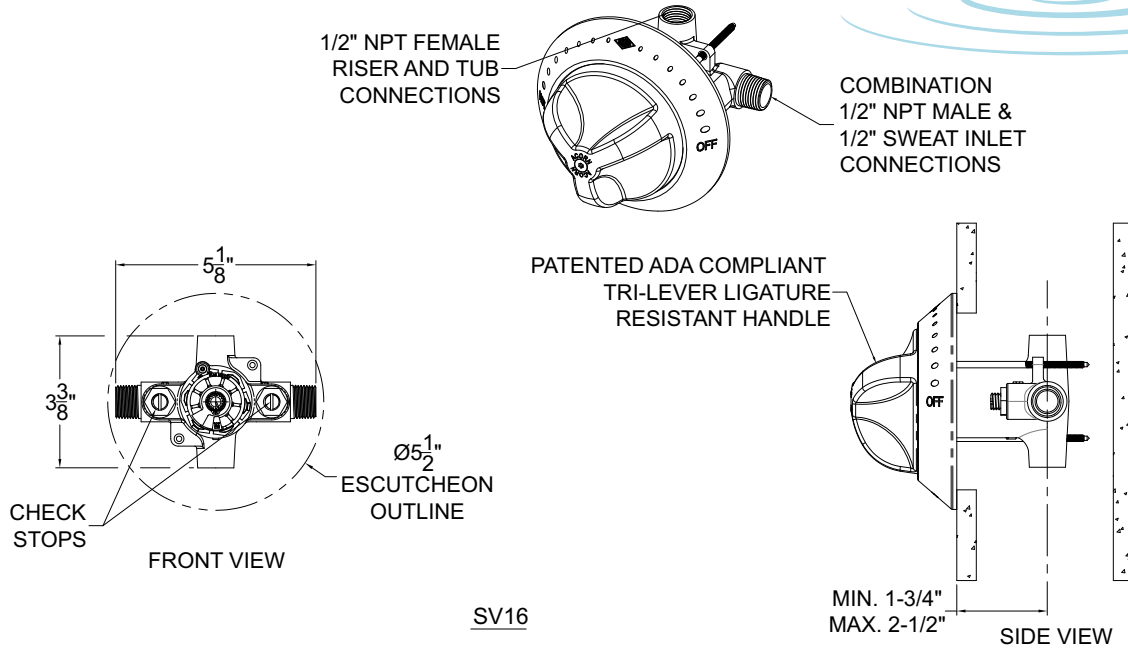


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**TECHNICAL DIMENSIONS:**



Acorn Controls 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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