

Model SV16

Lead-Free Thermostatic, 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 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:

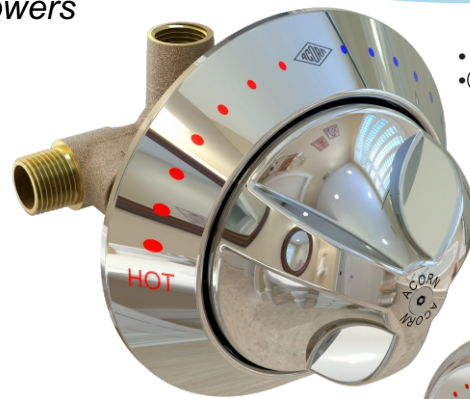
- IAPMO certified at 1.25 GPM (4.7 LPM) control accuracy requirements of ASSE 1016 T/P
- Ceramic shut-off components for long-term, drip-free reliability
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead-free internal components
- A self-contained, field reversible cartridge eliminates 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 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 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:

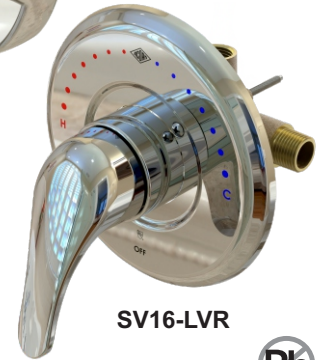
Sv16 Shower valve shall meet performance requirements of **ASSE 1016-2011**, Type T/P, compensating for ±50% fluctuation in supply line pressure and compensate for increases in hot water supply temperature. Valve shall operate with a non-rising stem and have ceramic shut-offs for long term drip-free 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 model SV16.



SV16

Patent Pending

- Patented D697,591
- © Acorn Engineering Co.



SV16-LVR



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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Submission # **SV16**
Revised: 05/24/18

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Certifications and Compliances:



C
ASSE 1016
CSA B125.16



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ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

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VALVE AND TRIM: MUST SPECIFY

- SV16 Shower Valve with ADA Compliant, with a Patented Tri-Lever Ligature 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
- CSH25 Conical Ligature Resistant Showerhead, Chrome Plated Brass With 2.5 GPM (9.5 LPM) Flow Control (After July 1, 2018, This Option Will No Longer Be Available For Use in California)
- 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 (After July 1, 2018, This Option Will No Longer Be 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 (9.7 LPM) Flow Control (After July 1, 2018, This Option Will No Longer Be Available For Use in California)
- 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 (After July 1, 2018, This Option Will No Longer Be 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 (9.7 LPM) Flow Control (After July 1, 2018, This Option Will No Longer Be 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:

- HSHH 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

PRODUCT OPTIONS:

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

PROJECT PACKING:

- Project Packing (100 Piece Minimum)
Quantity: _____

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Certifications and Compliances:



C ASSE 1016
CSA B125.16

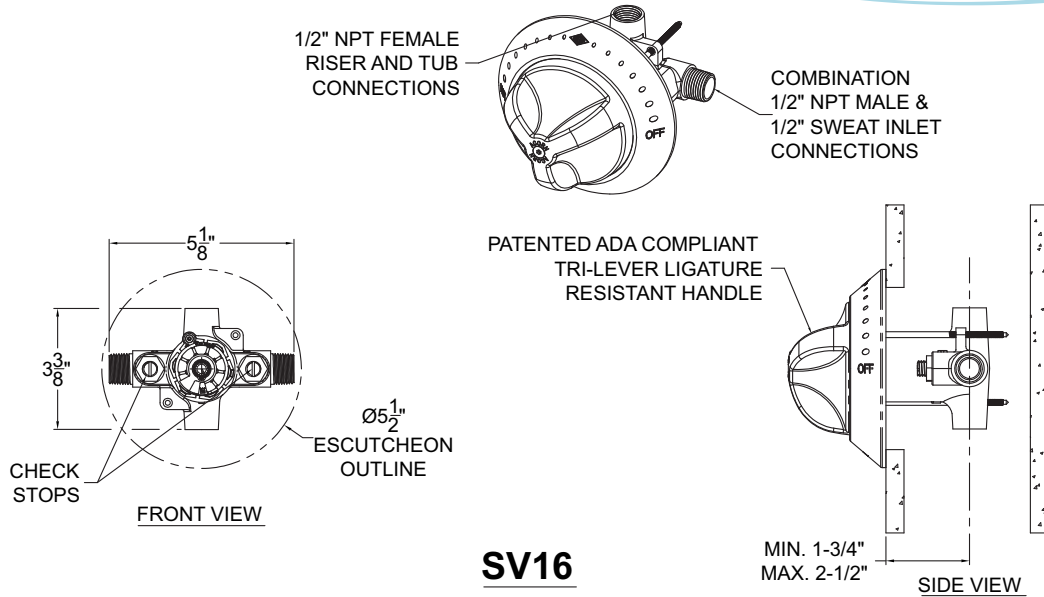


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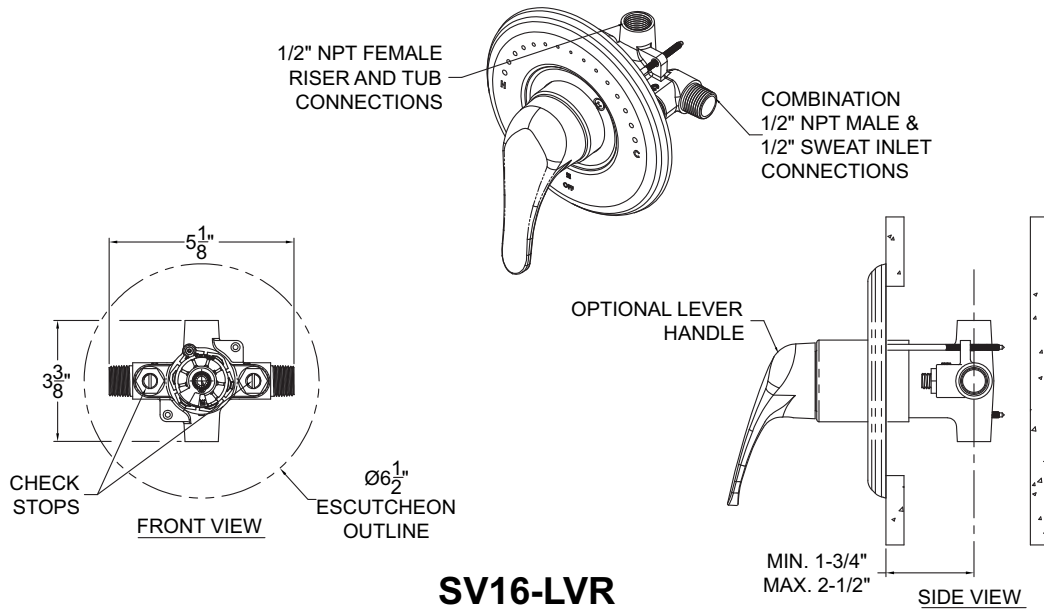
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TECHNICAL DIMENSIONS:



SV16



SV16-LVR

SV16 Revised: 05/24/18

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

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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. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



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