CAPE COD SYSTEMS CORPORATION

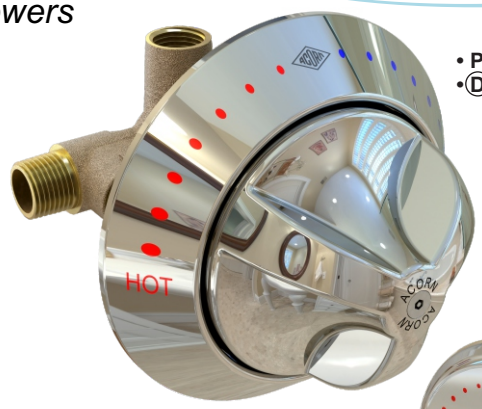
Model SV16

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

ACORN CONTROLS™

APPLICATION:

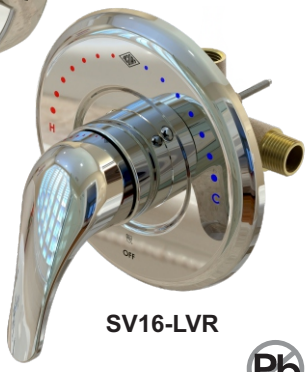
The Acorn SV16 ASSE 1016 ***(Rev. 2011)*** Certified Temperature/Pressure (T/P) compensating Shower Valve meets the requirements of any shower or tub/shower application where uncompromised bather safety and comfort is required. Although designed and built for the challenges of commercial and industrial 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.



SV16

• **Patented D697,591**
•Ⓓ **Acorn Engineering Co.**

Patent Pending



SV16-LVR

Federal Public Law 111-380 (No Lead)

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.

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°-180°F (43°-82°C)

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

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

Maximum Operating Pressure: ..... 125 psi (862 kpa)

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

Certified Minimum Flow: ..... 1.25 gpm (4.7 lpm)

** 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.

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)

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.

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Certifications and Compliances:

UPC C ®
ASSE 1016
CSA B125.16

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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
- ❑ -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 ½” 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

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HANDHELD SHOWER HOSE:

- ❑ -HHSH — 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:

UPC
C ®
ASSE 1016
CSA B125.16

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ACORN ENGINEERING COMPANY
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Member of Morris Group International™

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TECHNICAL DIMENSIONS:

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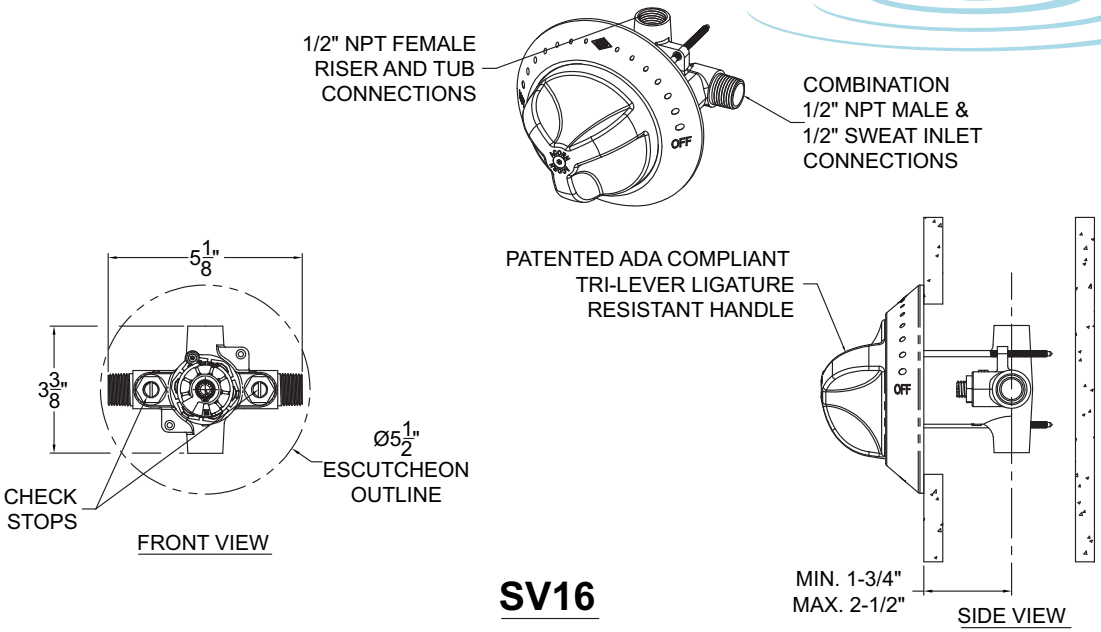
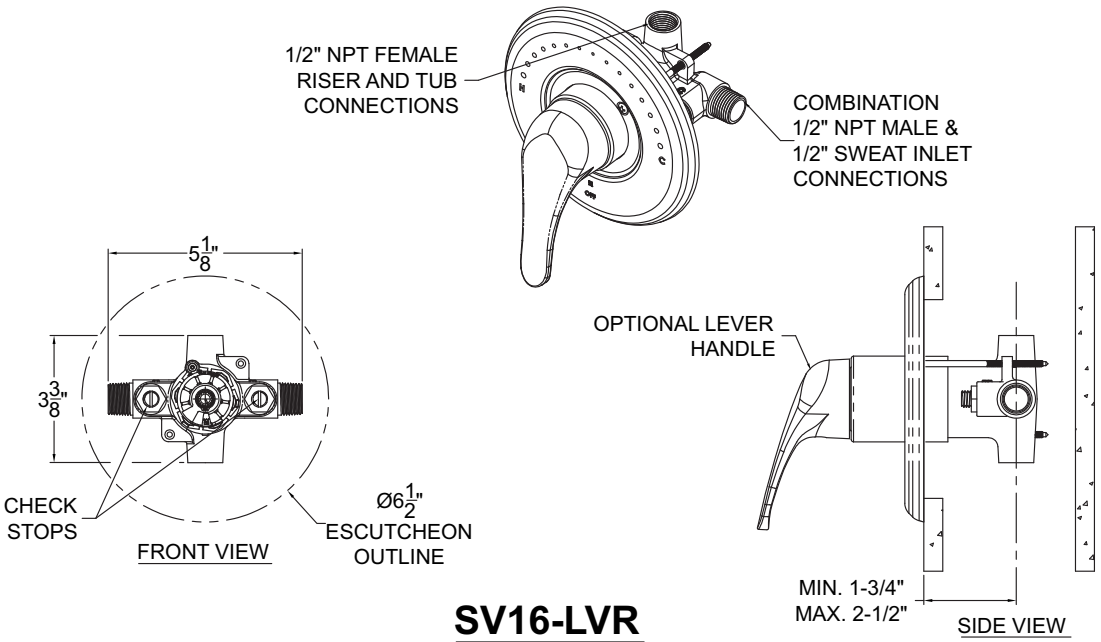


SV16



SV16-LVR

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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