TO: BLRB Architects 404 SW Columbia St Bend, OR 97702

PROJECT NAME: Pilot Butte Middle School Renovation - Buildings A, E & F

| We hereb | y submit | for consid | leration, the fo | ollowing pro | oduct ins | tead of spe | ecified item for | above project: | |
|--------------------------------------|----------|------------|------------------|--------------|-----------|-------------|------------------|----------------|--|
| Section: 224000 19.3 Paragraph: 2.3. | | | | | | | | | |
| Specified | Item _ | ESH-1 | Guardian | 61643 | with | 61814 | | | |
| Proposed | Substitu | tion: | Acom Safe | uly 522 | 200 | \$ 504 | 40 | ` **Z* | |
| | | | | , | | | | | |

Attach complete dimensional information and technical data including laboratory tests, if applicable.

Include complete information on changes to Drawings and/or specifications, which proposed substitution will require for its proper installation.

Submit with request all necessary samples and substantiating data to provide equal quality, performance, and appearance to that which is specified. Clearly mark manufacturer's literature to indicate equality in performance. Differences in quality of materials and construction shall be indicated.

The undersigned states that the following paragraphs, unless modified on attachments, are correct:

- 1. The proposed substitutions do not affect dimensions shown on drawings.
- 2. The undersigned will pay for changes to the building design, including engineering design, detailing and construction costs caused by the requested substitution.
- 3. The proposed substitution will have no adverse affect on other trades, the construction schedule, or specified warranty requirements.
- 4. Maintenance and service parts will be locally available for the proposed substitution.
- 5. The proposed substitution will have no affect on applicable codes.
- 6. The manufacturer's guarantee or warranties of proposed product is equivalent to; or exceeds that of the specified product.
- 7. Proposed substituted item will match all sizes, profiles, specifications and colors of item originally specified.

List of names and location of three similar projects on which product was used, date of installation, and Architect's name and phone number.

| Project No. 1: | 4J school District | Eugene, OR Year & | odd Hansen G | 5413687-7800 | |
|----------------|---------------------|----------------------|-----------------|-----------------------|----|
| Project No. 2: | University of Organ | Mire. Projects Frage | ave, OR 2014/20 | 15 TBG (541) 687-1010 | |
| Project No. 3: | Univ. of Oregon | Memorial Union Bldg, | Engone, OR /201 | 5 Glumac (503) 227-52 | 86 |

| CERTIFICATION OF EQUAL | FOR USE BY ARCHITECT: |
|--|---|
| PERFORMANCE AND ASSUMPTION OF LIABILITY | x Accepted Accepted as Noted |
| FOR EQUAL PERFORMANCE | Not Accepted Received Too Late |
| UNDERSIGNED ATTESTS THAT FUNCTION AND QUALITY ARE EQUAL TO OR SUPERIOR TO SPECIFIED ITEMS. | By: Jakako Baku Date: 3-8-18 Remarks: |
| Submitted By: Wath Files | AE. |
| Signature : | |
| Title: Project Quotations | |
| Title: Project Quotations Firm: Braley Cray & Associates Address: 1818 E 2nd Street | |
| Address: 1818 E 2nd Street | |
| Vancouver, WA | |
| Telephone: 360 - 693 - 9900 | |
| Date : 3/6//8 | 3 7 : |
| | |
| Above signature must be by person having authority t legally bind his firm to the above terms. | |
| | |
| | |
| | |

END OF SECTION

Model S2200

Horizontally Mounted Emergency Shower, Stainless Steel Showerhead



SPECIFICATIONS:

Model S2200 is a horizontally mounted emergency shower with a stainless steel showerhead and a 1" stay-open ball valve with a 29" pull rod.

STANDARD EQUIPMENT:

Showerhead: Stainless steel, 8" diameter showerhead with a 20 gpm flow regulator.

Valve: 1" rough chrome plated brass stay-open ball valve. Unit is provided with a stainless steel actuator arm and a 29" stainless steel pull rod.

Water Supply: 1" NPT female threaded brass inlet.

Piping: Schedule 40, 1" galvanized steel pipe, yellow powder coated finish.

Universal Sign: ANSI compliant, vertical identification sign.

Weekly Test Tag: A water proof test card to record the date and inspector's name for weekly functional testing of the unit.



OPTIONAL ACCESSORIES:

Additional costs may be incurred

☐ -AL2 Electric alarm with flashing light and horn

-AS All stainless steel

-ET71-2-BVS-OTG Thermostatic mixing valve is ASSE Listed per

the ASSE 1071 standard. The tepid output water complies with ANSI Z358.1 standard. Valve includes Ball Valve Shut-offs, Outlet Temperature

Gauge

-FLW1 Flow switch, single pole

-MC1 Modesty curtain for horizontal showers

☐ -MS1 MAP (magnetically actuated proximity) switch,

for one (1) actuator

-PCP Polished chrome plated pipe

☐ -SV1 1" stainless steel ball valve





Acorn Safety assumes no responsibility for use of void or superseded data. © Copyright Acorn Safety[®], City of Industry, CA, Division of Acorn Engineering Company[®], Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

Submittal # **\$2200** [SHR] Date: 07/24/17

Product carries the following certifications:





ACORN SAFETY P.O. Box 3527

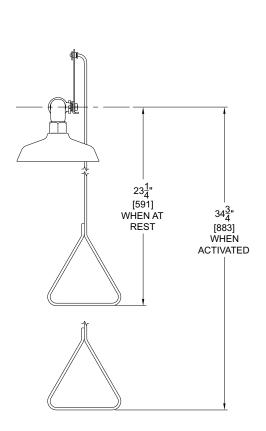
City of Industry, CA 91744 U.S.A. Phone 800-591-9372 626-855-4804

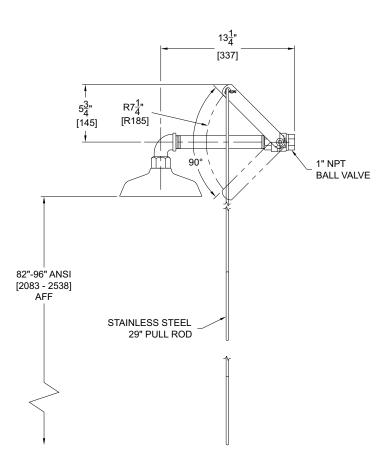
www.acorneng.com

TECHNICAL DIMENSIONS

All dimensions are subject to manufacturer's tolerance of plus or minus 1/2" nominal and subject to change without notice. Acorn Safety® assumes no responsibility for use of void or superseded data. Dimensions may change with the addition of optional accessories. © Acorn Safety®, A Division of Acorn Engineering Company®, Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

☐ Model S2200 : Horizontally Mounted Emergency Shower, Stainless Steel Showerhead





GENERAL NOTES:

- 1. ALL DIMENSIONS ARE INCHES [MM].
- *2. ANSI Z358.1 REQUIRES THE SHOWER HEAD TO BE MOUNTED BETWEEN MINIMUM 82" [2083] TO MAXIMUM 96" [2438] ABOVE THE FLOOR.

\$2200 Date: 07/24/17

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.

| SUMMARY VAL FOR STURING | Model Number & Options | | Quantity | ACORO SAFETY |
|--------------------------------------|--------------------------------|-------|----------|-------------------------------------|
| LECTION SI & APPROVA MANUFACTI | ContactSignature (Approval for | Title | | 800-591-9372 or 626-855-4804 |
| SELI & | Manufacturing) | Date | | www.acorneng.com |

Model ET71-BVS-OTG Series

Lead-Free Emergency Fixture Thermostatic Mixing Valve with Cold Water Bypass and Includes Ball Valve Shut-offs and Outlet Temperature Gauge



APPLICATION:

The Acorn ET71-BVS-OTG Series Emergency Tempering Valve is certified to ASSE 1071, rev 2012 and will deliver safe tepid water to safety systems such as eye, face and shower fixtures and combination units. It's factory set to 85° F to ensure comfort when used with an eye wash, yet can be safely set up to 95° F for maximum comfort and effectiveness when used with body washes. The ET71 is offered in 4 models/sizes you can meet the needs of your application based on minimum flow performance requirements and maximum flow demands. This valve can be used to the control the temperature of recirculating as well as non-recirculating supply systems.



- IAPMO certified per ASSE 1071 at the minimum flow rates shown in the chart to the right.
- Integral cartridge style checks with screens to prevent backflow and to filter debris from entering the valve.
- On demand internal cold water bypass ensures the flow of cold water in the event of loss of hot water.
- Temperature adjustment is made using a allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Acorn's -BVS lockable ball valve shut-offs meet ANSI Z358 and ASSE 1071 requirements that state "If shut- off valves are installed in the supply line for maintenance purposes provisions SHALL be made to prevent unauthorized shut-off". Acorn eliminates the need for a locked cabinet or other means to prevent unauthorized access to un-lockable, and potentially unsafe, check stop shut-off valves."
- Outlet Temperature Gauge
- 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:

Federal Parket

ET71-1-BVS-OTG

Patent Pending

SPECIFICATIONS:

Valve Specifications:

| Maximum Operating Pressure: |
|---|
| Maximum Hot Water Supply Temp: 180°F (82°C) |
| Outlet Temp. Range: 60-95°F (15-35°C) |
| (ET71-4 Only) 60-90°F (15-32°C) |
| Minimum Hot Water Supply |
| Certified Minimum Flow*: |
| ET71-1-BVS-OTG 0.5 gpm (1.9 lpm) |
| ET71-2-BVS-OTG |
| ET71-3-BVS-OTG |
| ET71-4-BVS-OTG |

| GPM (LPM) FLOW RATES @30 PSID* | | | | | | | | | |
|-----------------------------------|--------------|------------|-----------------|--|--|--|--|--|--|
| MODEL | TEMPERED | CW BY-PASS | CW FAILURE MAX. | | | | | | |
| ET71-1 -BVS-OTG | 9.8 (37.1) | 6.5 (24.5) | 0.5 (1.9) | | | | | | |
| ET71-2 -BVS-OTG | 35.1 (133) | 25 (94.6) | 1 (3.8) | | | | | | |
| ET71-3 -BVS-OTG | 70.2 (256.7) | 60 (227) | 1 (3.8) | | | | | | |
| ET71-4 -BVS-OTG | 110 (416.4) | 80 (302.8) | 1 (3.8) | | | | | | |

^{*} In accordance with ASSE 1071 (†) For ET71-4 Only





Emergency Fixture Thermostatic Mixing Valve shall be IAPMO lab certified to ASSE 1071 and CSA standards. Valve shall have an on demand internal cold water bypass of at least 60% of the normal flow rate. Valve body shall be "lead-free' brass with corrosion resistant internal components. Checks and screen must be integral. The sensor will be an advanced paraffin actuator with a temperature range of 60° to 95° F (16° or 35° C) or 60° to 90° F (16° to 32° C) (†), factory set to 85° F (29° C) and adjustable by the safety officer. A locknut will prevent unauthorized or accidental set point changes. Shut-offs shall be lockable ball valves to help prevent unauthorized or accidental closing in accordance with ANSI Z358 and ASSE 1071. Valve shall include an outlet temperature gauge. Valve shall be Acorn Model ET71-(1,23 or 4)-BVS-OTG-(Option(s))."

Acorn Safety assumes no responsibility for use of void or superseded data. © Copyright Acorn Safety®, City of Industry, CA, Division of Acorn Engineering Company®, Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

Submittal # **ET71-BVS-OTG Series**Revised: 01/22/16 Page 1 of 3

Product carries the following certifications:





Division of

Acorn Engineering Company®,
Member of
Morris Group International™

P.O. Box 3527 City of Industry, CA 91744 U.S.A. Phone 800-591-9372

www.acorneng.com

626-855-4804

VALVE SELECTION:

☐ ET71-1-BVS-OTG Brass Valve Body With Ball Valve

Shut-offs, Outlet Temperature Gauge & 1/2" NPT Inlet & Outlet Connections

ET71-2-BVS-OTG Brass Valve Body With Ball Valve

Shut-offs, Outlet Temperature Gauge, 3/4" NPT Inlets & 1" NPT Outlet

Connections

☐ ET71-3-BVS-OTG Brass Valve Body With Ball Valve

Shut-offs, Outlet Temperature Gauge, 1" NPT Inlet & 1-1/4" NPT Outlet

Connections

Brass Valve Body With Ball Valve ☐ ET71-4-BVS-OTG

Shut-offs, Outlet Temperature Gauge, 1-1/4" NPT Inlet & 1-1/2" NPT Outlet

Connections

Acorn's locking ball valves are the only safe and acceptable method for supply shut-off to this product, unless installed in a lockable cabinet or other means to prevent unauthorized supply shut-off.

TECHNICAL DIMENSIONS:

OPTIONAL CABINET:

STYLE

Surface Mounted Cabinet ☐ -SMC

FINISH

Prime Coat Finish (16 Gage Mild Steel) 🔲 -PRC 🔲 -SSTL Stainless Steel (18 Gage Type 304)

DOOR OPTIONS

Solid Door -DRS

🔲 -DRV Door Viewport

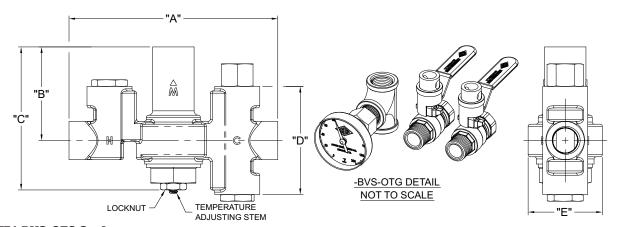
Must Specify: Hinge Location: (N/A ET71-3 & ET71-4)

☐ -L ☐ -R Left

Right

| | INLET | OUTLET | "A" | "B" | "C" | "D" | "E" |
|----------|--------|--------|--------|--------|--------|--------|--------|
| ET71-1 | 1/2" | 1/2" | 5-3/4" | 2-5/8" | 4" | 3" | 2" |
| -BVS-OTG | NPT | NPT | (146) | (67) | (102) | (76) | (50) |
| ET71-2 | 3/4" | 1" | 8-1/2" | 3 | 5-1/2" | 4-1/4" | 2" |
| -BVS-OTG | NPT | NPT | (216) | (78) | (141) | (107) | (50) |
| ET71-3 | 1" | 1-1/4" | 14" | 5-1/4" | 8-3/4" | 6-1/4" | 5-3/4" |
| -BVS-OTG | NPT | NPT | (356) | (132) | (222) | (160) | (145) |
| ET71-4 | 1-1/4" | 1-1/2" | 14" | 5-1/4" | 8-3/4" | 6-1/4" | 5-3/4" |
| -BVS-OTG | NPT | NPT | (356) | (132) | (222) | (160) | (145) |

| | PRESSURE DROP PSID (KPA) | CV | 5 (34) | 10 (69) | 15 (103) | 20 (138) | 30 (207) | 45 (310) | 60 (414) |
|--|--------------------------------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| ET71-1 -BVS-OTG | FLOW RATE GPM (LPM) | 1.8 | 4 (15.1) | 5.66 (21.4) | 6.9 (26.1) | 8 (30.2) | 9.8 (37.1) | 12 (45.4) | 13.9 (52.6) |
| 12 GPM (45 LPM) | COLD WATER | BYPASS O | NLY | | | | 6.5 (24.5) | | |
| ET71-2 -BVS-OTG | FLOW RATE GPM (LPM) | 6.4 | 14.3 (54.1) | 20.3 (76.8) | 24.8 (93.9) | 28.7 (108.6) | 35.1 (132.9) | 43 (162.8) | 49.7 (188) |
| 43 GPM (163 LPM) | COLD WATER BYPASS ONLY | | | | | | | | |
| ET71-3 -BVS-OTG | FLOW RATE GPM (LPM) | 12.8 | 28.7 (108.6) | 40.5 (153.3) | 49.7 (188.1) | 57.3 (217) | 70.2 (265.7) | 86 (325.5) | 99.3 (375.9) |
| 86 GPM (325.5 LPM) | COLD WATER BYPASS ONLY | | | | | | 60 (227) | | |
| ET71-4 -BVS-OTG 150 GPM (568 LPM) | FLOW RATE GPM (LPM) | 22.4 | 50 (189.2) | 70.7 (267.6) | 86.6 (327.8) | 100 (378.5) | 110 (416.4) | 150 (567.8) | 173 (654.8) |
| | COLD WATER BYPASS ONLY | | | | | | 80 (302.8) | | |



ET71-BVS-OTG Series Revised: 01/22/16

Page 2 of 3

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. Acom'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.

| SUMMARY VAL FOR STURING | Model Number & Options Company | | _Quantity | ACORO SAFETY |
|---------------------------------|---|--------|-----------|---|
| SELECTION & APPRO MANUFAC | ContactSignature (Approval for Manufacturing) | _Title | | 800-591-9372 or 626-855-4804 www.acorneng.com |

Model ET71-BVS-OTG Series Cabinet

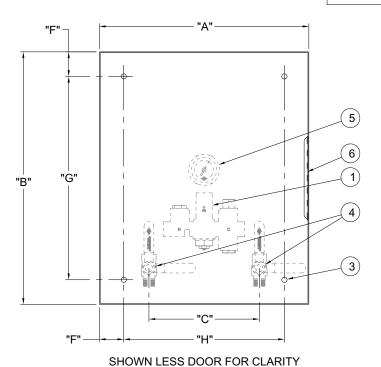
Emergency Fixture Thermostatic Mixing Valve Cabinets

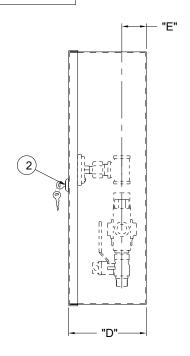


TECHNICAL DIMENSIONS:

NOTE:

ITEMS 1, 4, AND 5 ARE SHOWN FOR REFERENCE ONLY.
ALL PLUMBING CONNECTIONS ARE PROVIDED BY INSTALLER.





- CHOTH LEGG BOOK OF OK OLD WK
- (1) ET71 SERIES THERMOSTATIC MIXING VALVE
- (2) CYLINDER LOCK WITH KEYS
- (3) Ø3/8" MOUNTING HOLES (4) PLACES

- (4) -BVS BALL VALVE SHUT-OFFS
- 5) -OTG OUTLET TEMPERATURE GAUGE
- (6) DOOR STOP

| | INLET | OUTLET | "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" |
|------------------------|---------------|---------------|------------------|------------------|------------------|-----------------|----------------|----------------|------------------|------------------|
| ET71-1 -BVS -OTG | 1/2" NCT | 1/2" NCT | 15" (381) | 18" (457) | 7-7/8" (200) | 5-5/8" (143) | 1-3/4" (45) | 1-3/4" (45) | 14-1/2" (368) | 11-1/2" (292) |
| ET71-2 -BVS -OTG | 3/4" NCT | 1" NCT | 21" (533) | 22" (559) | 11" (279) | 6" (153) | 2" (51) | 1-3/4" (45) | 18-1/2" (470) | 17-1/2" (445) |
| ET71-3 -BVS -OTG | 1" NCT | 1-1/4" NCT | 28-1/2" (724) | 29-1/2" (749) | 16-7/8" (429) | 7-3/4" (197) | 3-1/4" (83) | 2-1/2" (64) | 24-1/2" (622) | 23-1/2" (597) |
| ET71-4 -BVS -OTG | 1-1/4" NCT | 1-1/2" NCT | 30-1/2" (775) | 33" (838) | 17-3/4" (450) | 7-3/4" (197) | 3-1/4" (83) | 2-1/2" (64) | 28" (711) | 25-1/2" (648) |

Acorn Safety assumes no responsibility for use of void or superseded data. © Copyright Acorn Safety®, City of Industry, CA, Division of Acorn Engineering Company®, Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

Submittal # **ET71-BVS-OTG Series**Revised: 01/22/16 Page 3 of 3

Product carries the following certifications:







ACORN SAFETY P.O. Box 3527

City of Industry, CA 91744 U.S.A. Phone 800-591-9372 626-855-4804

www.acorneng.com

Model S0440

Wall Mounted Eye/Face Wash, Stainless Steel Bowl

SPECIFICATIONS:

Model S0440 is a wall mounted eye/face wash, with a stainless steel bowl, ABS plastic eye/face wash spray heads, an inline strainer and a stay-open 1/2" ball valve with a push handle.



Spray Head Assembly: ABS yellow plastic eye/face wash heads with integral flip dust covers, internal flow controls and filters to remove debris from the water. An anti-microbial agent is molded into the ABS material, providing integrated protection.

Valve: 1/2" NPT chrome plated brass stay-open ball valve with a stainless steel push handle and a 50 mesh inline strainer.

Water Supply: 1/2" NPT female threaded, chrome plated brass inlet.

Waste: Chrome plated brass, 1-1/4" OD tailpiece.

Bowl: Stainless steel, 11-3/4" diameter bowl.

Mounting: 11 gage galvanized steel wall bracket with a yellow powder coated finish.

Universal Sign: ANSI compliant, vertical identification sign.

Weekly Test Tag: A waterproof test card to record the date and inspector's name for weekly functional testing of the unit.





OPTIONAL ACCESSORIES:

Additional costs may be incurred

- □ BF Barrier free, handicap accessible ☐ - CS1 Stainless Steel "clam shell" cover
- ☐ FLW2 Flow switch, single pole □I - FPV Freeze protection valve
- □I LWB Less wall bracket
- MAP (magnetically actuated proximity) switch, - MS1 for one (1) actuator
- □ PT1 P-trap, chrome plated brass with 1-1/4" OD waste outlet
- SDC Stainless steel dust covers ☐ - SPV Scald protection valve
- □ SV2 Stainless steel ball valve
- ☐ ET71-1 Thermostatic mixing valve is ASSE Listed per the ASSE 1071 standard. The tepid output water complies
 - with ANSI Z358.1 standard.
- □ "1" Auxiliary hand-held drench hose with a self-closing valve
 - (Use model S0441)





Acorn Safety assumes no responsibility for use of void or superseded data. © Copyright Acorn Safety®, City of Industry, CA, Division of Acorn Engineering Company® Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

Submittal # **\$0440** [EFW] Revised: 04/09/14

Product carries the following certifications:





ACORN SAFETY

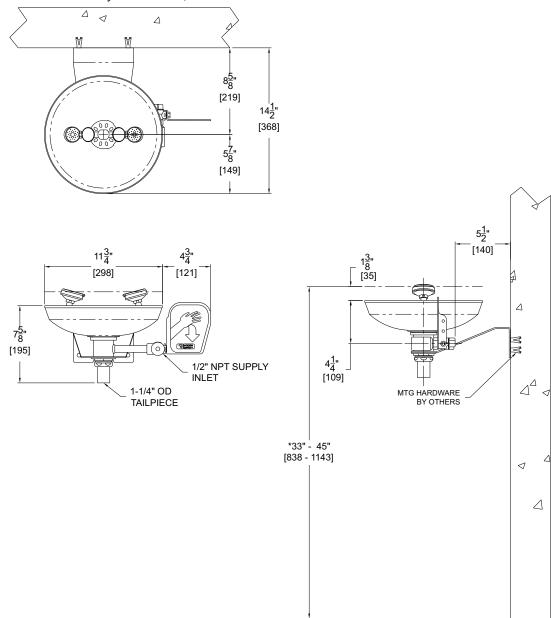
P.O. Box 3527 City of Industry, CA 91744 U.S.A. Phone 800-591-9372 626-855-4804

www.acorneng.com

TECHNICAL DIMENSIONS

All dimensions are subject to manufacturer's tolerance of plus or minus 1/2" nominal and subject to change without notice. Acorn Safety® assumes no responsibility for use of void or superseded data. Dimensions may change with the addition of optional accessories. © Acorn Safety®, A Division of Acorn Engineering Company®, Member of Morris Group International™. Please visit www.acorneng.com for most current specifications.

☐ Model S0440 : Wall Mounted Eye/Face Wash, Stainless Steel Bowl



GENERAL NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES [MM].
- *2. ANSI Z358.1 REQUIRES NOZZLES TO BE MOUNTED BETWEEN 33" 45" [838 1143] ABOVE THE FINISHED FLOOR.

\$0440 Revised: 04/09/14

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.

| SUMMARY VAL FOR STURING | Model Number & Options | | Quantity | ACORO SAFETY |
|--------------------------------------|--------------------------------|-------|----------|-------------------------------------|
| LECTION SI & APPROVA MANUFACTI | ContactSignature (Approval for | Title | | 800-591-9372 or 626-855-4804 |
| SELI & | Manufacturing) | Date | | www.acorneng.com |