

Drench Showers

Eye and Eye/
Face Washes

Combination Drench
Shower Eye and
Eye/Face Washes

Enclosed Safety
Showers

Tankless Tempering
Systems

Drench Hoses

Laboratory Fixtures

Emergency
Thermostatic
Mixing Valves

Portable Eyewashes



What's New?



Halo Eye & Eye/ Face Washes

Pages 2, 14,
19, 26

See Classic Model vs Halo Cross Reference
on page 84 or on bradleycorp.com



SpinTec Showerheads

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Enclosed Safety Showers

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Keltech Tankless Tempering Systems

Pages 4, 40, 41



Easy-to-read ANSI Quick Compliance Guides

Pages 6, 13, 25,
37, 46, 50, 63

New ANSI Quick Compliance Guide
booklet available!

Order or download at
[http://www.bradleycorp.com/customerservice/
litrequest.jsp#Emergency Fixtures](http://www.bradleycorp.com/customerservice/litrequest.jsp#Emergency%20Fixtures)

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FAST SHIPPING

Bradley's **Bradex®** shipping program allows you to prepare for upcoming inspections and respond to changing workplace needs. Fast replacements are just a phone call away and will ship within two days. The **Bradex®** shipping feature is available for a wide range of product, at no extra cost.

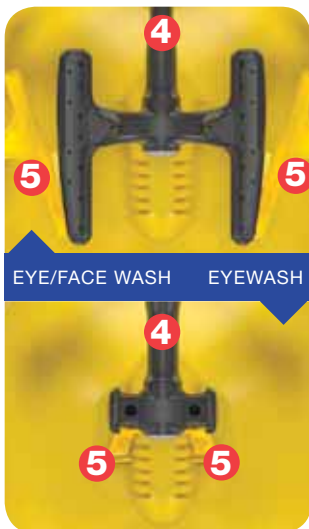
NEW

Halo

EYE/FACEWASH

Halo surrounds you with the fastest, most effective relief in the industry. Bradley's new eye & eye/face wash provides the most washdown coverage for your face of any model on the market. In an emergency, your eyes and face can't afford to trust anything but the best in the industry.

- 1 Enhanced dust cover design** in clear translucent yellow allowing for easy inspection. When the cover is opened, water flow starts automatically giving the user instant relief.
- 2 New ergonomic hand activation** is easy to reach from any direction.
- 3 Separate supply waste and pipes** to eye/face wash are industry first and exclusive to Bradley! Meets CEN and Plumbing requirements.



- 4 The Aqueduct** design is the only selfdraining design for standard eyewash models — another industry first and Bradley exclusive. The self-draining Aqueduct helps reduce the risk of bacteria growth when unit is not in use.

Integral strainer inside the Aqueduct reduces debris in the water for additional eye protection and also prevents clogging.

- 5 New dust cover caps** on the eyewash are hinged for a more secure hold – keeping dust and debris off the water spouts.

Anti-microbial protection protects the eyewash and eye/facewash heads.

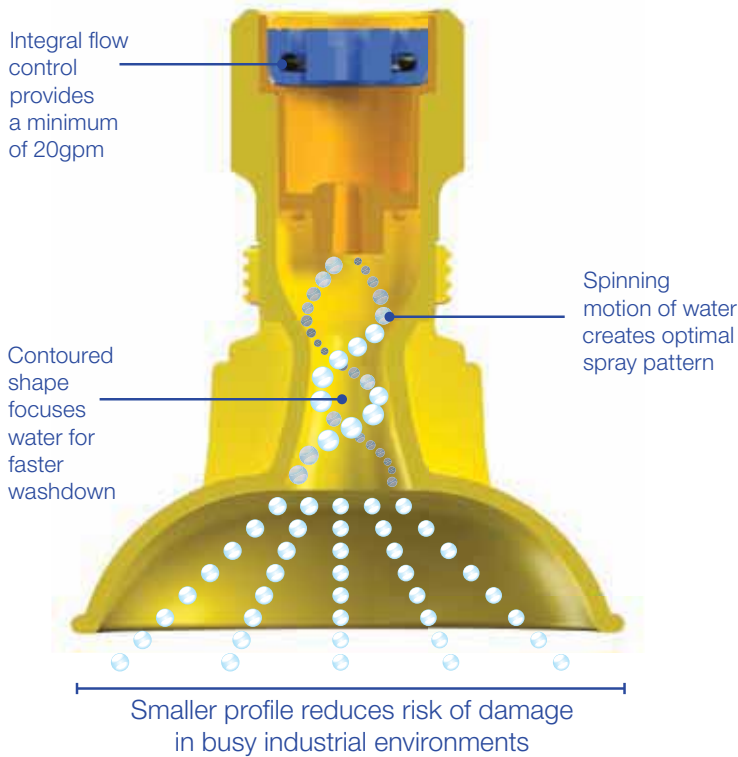
SpinTec™

SHOWERHEADS

SpinTec™ showerheads incorporate the latest technology in fluid dynamics and provide the most consistent distribution of water from a drench shower. That means the fastest, most effective removal of contaminants in the industry.

SpinTec Standard Showerhead

Showerhead is constructed of ABS plastic so it is highly corrosion resistant.



SPINTEC

Uniform distribution



OLD

Uneven distribution



SpinTec High Performance Stainless Steel

The 304 & 316 Stainless Steel showerhead provides the maximum corrosion resistance and durability for highly corrosive and abusive applications.



Recessed Flush-Mounted SpinTec Showerhead

Provides the smallest footprint and clean appearance of in-ceiling mounting. Easy to install.



SpinTec Showerhead with Stainless Steel Shroud

Provides new showerhead with a traditional looking shroud.



INTRODUCING

Keltech

TANKLESS TEMPERING SYSTEMS

**TOUGH ENOUGH
FOR THE MOST EXTREME
ENVIRONMENTS ON EARTH**

EFFICIENT. PRECISE. FAST.

**On demand supply of ANSI-required tepid
water for safety showers and eye/face
washes – in seconds.**

- No need to keep a 300 gallon tank heated 24/7/365
- Easy to install – just add water and power. All you need is one electrical connection and a cold water line
- Under constant flow and pressure, temperatures stay within +/-1° F of set point
- Precision systems custom engineered to fit your application
- Meets ANSI Z358.1 standards and third-party verified to UL/CSA standards
- Only ASME and NB certified electric Tankless Tempering Systems in the world
- Optional features include NEMA 4X stainless steel enclosures, explosion proof purge system, and freeze protection to -30°F



IMPORTANT INFORMATION ABOUT COMPLIANCE

The U.S. Code of Federal Regulations 29CFR 1910.151 states: “Where the eyes or body of any person may be exposed to injurious or corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use.”

The American National Standards Institute (ANSI) establishes standards for minimum performance and use requirements for eyewash and shower equipment.

The ANSI Z358.1-2009 for Emergency Eyewash and Shower Equipment provides detailed guidelines to which OSHA, State OSHA and other regulatory agencies commonly refer.

The Joint Commission 2009 EC Standard for Hospitals requires: “The hospital takes action to minimize or eliminate identified safety and security risks in the physical environment.” Furthermore, hospitals are required to “Minimize risk associated with selecting, handling, storing, transporting, using, and disposing hazardous chemicals.” Surveyors commonly refer to OSHA requirements and the ANSI Standard for further guidance on best demonstrated practices.

Canadian Provincial authorities also typically refer to ANSI standards when auditing for or advising proper requirements for emergency eyewash showers.

Environmental and hazardous chemicals and site conditions

within these industries warranting additional consideration are shown below. This list is not intended to be exhaustive, but rather, to serve as a starting point to begin the evaluation process of what types of hazards warrant the installation of a drench shower or eyewash fixture that provides an ANSI-compliant 15-minute flush. Industries subject to a higher accident ratio and an increased rate of OSHA audits are:

- Healthcare
- Industrial
- Education
- Construction
- Agriculture
- Government
- Hospitality
- Retail
- Laboratories
- Food Processing
- Paper Mills
- Automotive
- Mining
- Trades
- Aerospace
- Ethanol/Oil Refineries
- Wastewater Treatment
- Utilities

Common hazards that require a 15-minute flush

- Dust, Dirt, Salt, Sand, Cardboard, Wood Chips, Powder, Fine Particulate
- Nails, Wood Splinters, Staples
- Metal Shavings, Filings, Dust, Concrete, Cement chips,
- Smoke, Flammable or Poisonous Gases
- Insecticides, Pesticides, Herbicides, Fumigants
- Solvents, Stains, Paint, Thinner, Acetone
- Bloodborne Pathogens; Blood, Bodily Fluids and Remains
- Caustic Water Treatment Chemicals
- Gas, Diesel, Cleaning Solvents, Antifreeze
- Laboratory Chemicals, Oxygen
- Bleach, Chlorine, Ammonia
- Battery Acid, Starter Fluid, Paints, Oils, Hydraulic Fluid
- Bacteria, Germs, Biohazards
- Falling, Flying or Shifting Debris, Rocks, Building Materials and Glass
- Thermal Hazards, UV Radiation Burns (welder’s flash), Electrical Arcs
- Acids, Bases, Solvents, Lime
- Flammable Liquids



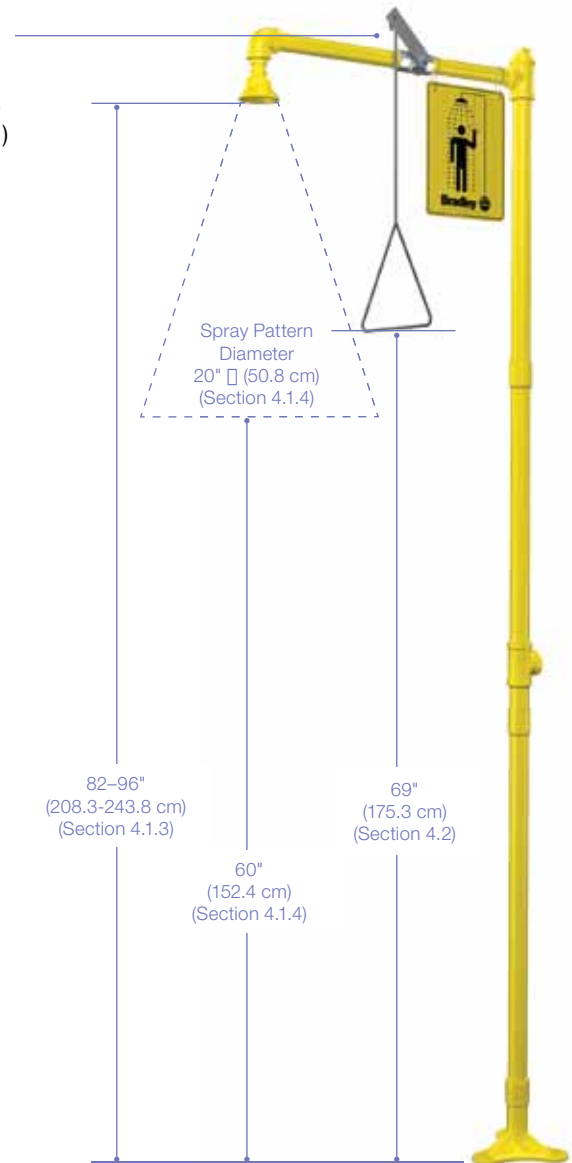
COMPLIMENTARY CONFIDENTIAL EVALUATION!

We offer a **confidential no-charge evaluation** of your workspaces to assess your current situation and suggest a plan for your emergency equipment needs.

This guide serves as a supplement to the ANSI Z358.1-2009 standard.

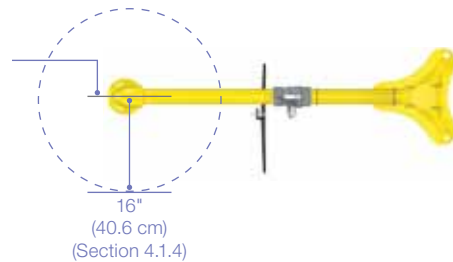
Safety Drench Showers

- Valve mechanism opens in one second or less; it stays open until manually closed. (Section 4.2)
- Supply with flushing fluid (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”). (Definitions, Sections 4.1.1, 4.4.1)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on the same plane as hazard and free of obstructions. (Section 4.5.2, Appendix B5)
- Doors are an obstruction. (Appendix B5)
- Must resist corrosion in the presence of flushing fluid. (Section 4.1.5)
- Audible, visual and central control alarm systems deter vandals and notify personnel that an accident occurred. (Appendix B4)
- Environmental conditions often require freeze or scald protection equipment. (Section 4.5.5)



Top Down View

- Requires a 16" radius from the center of the drench shower spray pattern to be free of obstructions. (Section 4.1.4)



FREE CONFIDENTIAL SAFETY EVALUATION 800.BRADLEY BRADLEYSAFETY.COM

15-MINUTE FLUSH

Compliant showers release a continuous flow of at least 20 gpm of tepid flushing fluid for a period of at least 15 minutes. (Sections 4.1.2, 4.4.1, 4.5.5, 4.5.6)

TEPID WATER

Tepid water (lukewarm):

- 60–100°F
- 15.6–37.8°C

Encourages full 15-minute flush or until medical personnel arrive. (Definitions, Section 4.5.6, Appendix B6)

THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Section 4.6.2)

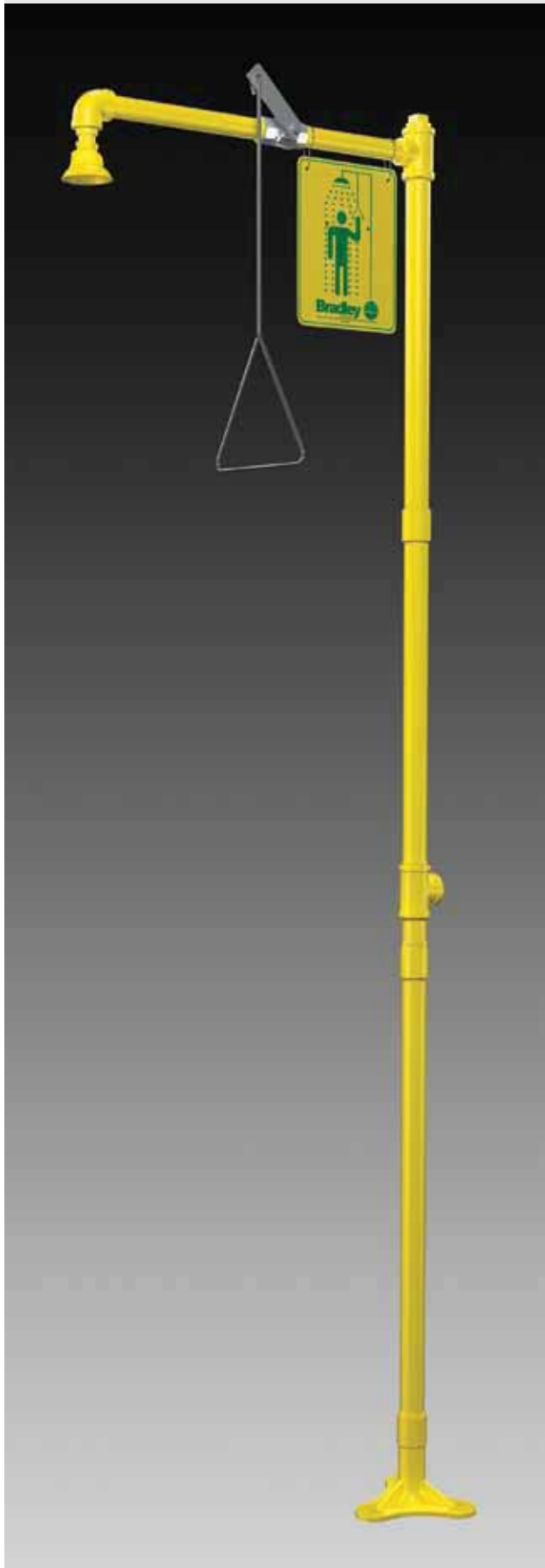
ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Section 4.6.5)



FREESTANDING DRENCH SHOWERS

S19-110 SERIES



KEY FEATURES

SpinTec™ showerhead improves water distribution

Exceeds ANSI minimum water flow of 20 GPM at 30 PSI

Stay-open ball valve with single-step activation

Triangular stainless steel pull rod

Universal ID sign

BradTect® corrosion-resistant yellow coating (except on stainless steel, PVC and chrome models)

1/4" NPT inlet

One-year warranty

Top- or mid-level supply standard on all drench showers and combination units

All items comply with ANSI Z358.1

OVERVIEW

When there's the possibility of full-body chemical contamination, the first choice is an ANSI-compliant, full-body drench shower. Bradley drench showers, the S19-110 line of products, are a great choice when a wall-mounted drench shower isn't practical. And with the BradTect® corrosion-resistant yellow coating standard on most units, these drench showers are not only easy to see, but durable enough for your tough work environment.

EMERGENCY FIXTURE FACTS

Drench showers are required to have 16 inches of clearance around the fixture, from the center of the spray pattern.

ANSI Z358.1 Section 4.1.4

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems	PAGE 43-44
Drench Hose Spray Kits	PAGE 72
Retrofit Dust Cover Kits	PAGE 77
Foot Treadle Kits	PAGE 68-69, 78
Freeze and Scald Protection Valves	PAGE 78

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

S19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60-100°F/15.5-37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

FREESTANDING DRENCH SHOWERS

FREESTANDING DRENCH SHOWERS

S19-110

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead
- UL classified to meet ANSI Z358.1



S19-110SS

- Same features as S19-110, except is an all stainless steel fixture
- Bradley's stainless steel emergency fixtures in 304 stainless recommended for harsh environments
- UL classified to meet ANSI Z358.1



FROST-PROOF, FREESTANDING DRENCH SHOWER

S19-110HFP

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic eyewash bowl
- Underground plumbing to prevent water freezing in the supply line
- Available in five bury depths:
 - S19-110HFP18 (18")
 - S19-110HFP3 (3') – standard
 - S19-110HFP4 (4')
 - S19-110HFP5 (5')
 - S19-110HFP6 (6')
- UL classified to meet ANSI Z358.1



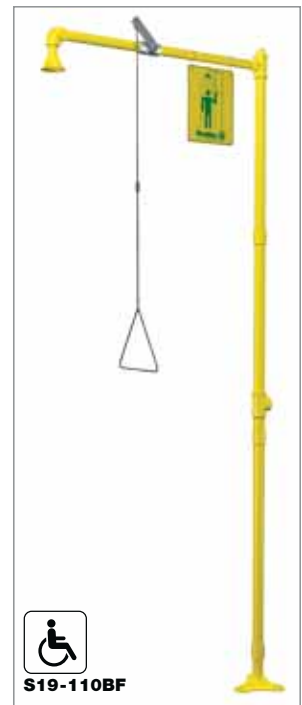
BARRIER-FREE, FREESTANDING DRENCH SHOWERS

S19-110BF

- Barrier-free design – fully accessible to people with physical disabilities
- BradTect corrosion-resistant yellow coating
- Plastic showerhead
- UL classified to meet ANSI Z358.1

S19-110BFSS

- Same features as S19-110BF, except is an all stainless steel fixture
- Bradley's stainless steel emergency fixtures in 304 stainless recommended for harsh environments
- UL classified to meet ANSI Z358.1



Please see page 4 for a complete listing of Bradley's barrier-free emergency products.

S19-120 and S19-130 SERIES



KEY FEATURES

- SpinTec™ showerhead improves water distribution
- Stainless steel pull rod with triangular handle
- Stay-open ball valve
- BradTect® coated galvanized steel pipe
- Horizontal/vertical: 1" water supply
- Freestanding: 1¼" water supply
- All items comply with ANSI Z358.1
 - Exceptions are S19-120G and S19-130F
- One-year warranty

OVERVIEW

A drench shower is required anywhere a MSDS sheet indicates that a full body flush may be required or where exposure to hazardous material is likely. Bradley's drench showers provide a complete full body deluge of water, to ensure that contaminants are rinsed from the body as rapidly and efficiently as possible. With water resources at a premium, Bradley's patent pending design features an integral 23 GPM flow restrictor that works in tandem with the showerhead flow pattern to ensure that the most effective ANSI 15-minute flush is achieved. Maximize your precious water resources by choosing Bradley.

EMERGENCY FIXTURE FACTS

Bradley equips all ANSI-compliant emergency fixtures with a valve that will stay open until manually closed, allowing the user free use of their hands during an emergency.

ANSI Z358.1 Section 4.2

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems	PAGE 43-44
Drench Hose Spray Kits	PAGE 72
Freeze and Scald Protection Valves	PAGE 78

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

S19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

HORIZONTAL DRENCH SHOWER WITH HOSE SPRAY

S19-120P

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Impact-resistant plastic showerhead
- Includes 8' drench hose for body rinse
- Easily wall mounted
- UL classified to meet ANSI Z358.1



BARRIER-FREE HORIZONTAL DRENCH SHOWERS

S19-120BF

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Impact-resistant plastic showerhead
- UL classified to meet ANSI Z358.1



CHROME-PLATED BRASS HORIZONTAL DRENCH SHOWER

S19-120T

- Chrome-plated, brass pipe and fittings for bright, mirror finish
- Impact-resistant stainless steel shroud
- Easily wall mounted
- UL classified to meet ANSI Z358.1



S19-120ABF

- Same features as S19-120BF, except with stainless steel shroud
- UL classified to meet ANSI Z358.1



S19-120SSBF

- Same features as S19-120ABF, except is an all stainless steel fixture
- UL classified to meet ANSI Z358.1



FLUSH-MOUNTED HORIZONTAL DRENCH SHOWER

S19-120FM

- Integral flange mounts flush with ceiling
- Concealed pipe and fittings
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- UL classified to meet ANSI Z358.1



BARRIER-FREE, FLUSH-MOUNTED HORIZONTAL DRENCH SHOWER

S19-120FMBF

- Integral flange mounts flush with ceiling
- Concealed pipe and fittings
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- UL classified to meet ANSI Z358.1



VERTICAL DRENCH SHOWERS

VERTICAL DRENCH SHOWERS

S19-130

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Impact-resistant plastic showerhead
- UL classified to meet ANSI Z358.1



S19-130A

- Same features as S19-130, except with stainless steel shroud
- UL classified to meet ANSI Z358.1



S19-130SS

- Same features as S19-130A, except is an all stainless steel fixture
- UL classified to meet ANSI Z358.1



BARRIER FREE



All barrier-free models feature extended pipe lengths to accommodate disabled users while continuing to provide the ease of use of a standard fixture.

CORD-OPERATED VERTICAL DRENCH SHOWER

S19-130F

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Impact-resistant plastic showerhead
- Includes self-closing ball valve
- Self-closing valve does not comply with ANSI Z358.1
- UL classified to meet ANSI Z358.1



BARRIER-FREE VERTICAL DRENCH SHOWERS

S19-130BF

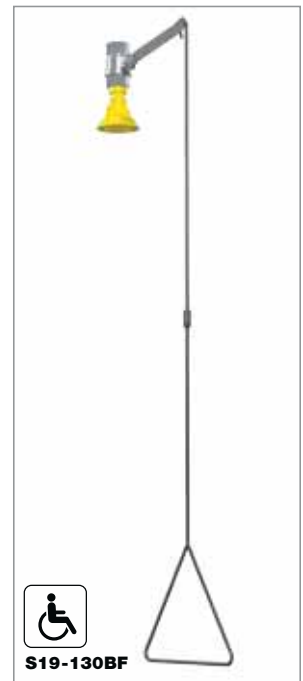
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Impact-resistant plastic showerhead
- UL classified to meet ANSI Z358.1

S19-130ABF

- Same features as S19-130BF, except with stainless steel showerhead
- UL classified to meet ANSI Z358.1

S19-130SSBF

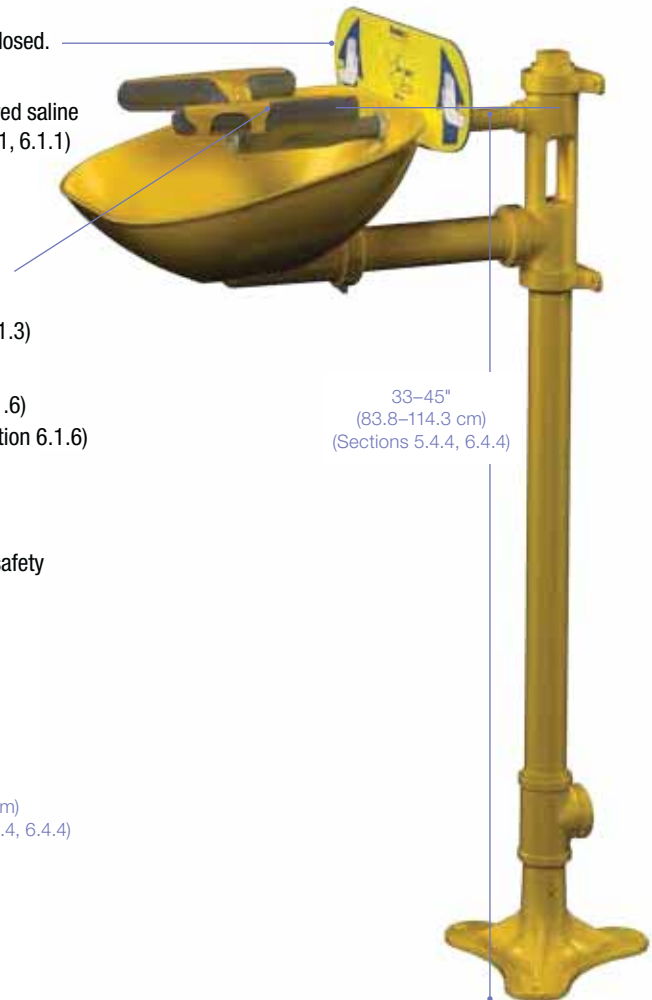
- Same features as S19-130ABF, except is an all stainless steel fixture
- UL classified to meet ANSI Z358.1



This guide serves as a supplement to the ANSI Z358.1-2009 standard.

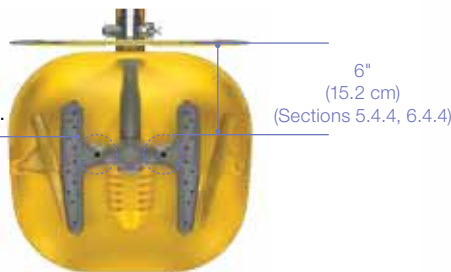
Eye and Eye/Face Wash Fixtures

- Valve mechanism opens in one second or less; it stays open until manually closed. (Sections 5.2, 6.2)
- Supply with flushing fluid, (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”) Definitions, Sections 5.1.1, 6.1.1)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on the same plane as hazard and free of obstructions. (Sections 5.4.2, 6.4.2, Appendix B5)
- Must resist corrosion in the presence of flushing fluid. (Sections 5.1.5, 6.1.5)
- Protect eye and eye/face wash heads from contaminants. (Sections 5.1.3, 6.1.3)
- Flow Rates:
 - Eyewash unit delivers a minimum of .4 gpm for 15 minutes. (Section 5.1.6)
 - Eye/face wash unit delivers a minimum of 3.0 gpm for 15 minutes. (Section 6.1.6)
- Use a flow meter to test flow rate; use a test gauge to test flow pattern. (Sections 5.1.8, 5.3.1, 6.1.7, 6.1.8, 6.3, 6.3.1)
- Audible, visual and central control alarm systems deter vandalism and alert safety personnel. (Appendix B4)
- Environmental conditions often require freeze or scald protection equipment. (Sections 5.4.5, 6.4.5)



Top down view

- Required to be free of obstructions a minimum of 6" from the outside of the eye or eye/face wash sprayheads. (Sections 5.4.4, 6.4.4)



- Use a Bradley test gauge (Model 269-1444) to check flow pattern.



FREE CONFIDENTIAL SAFETY EVALUATION 800.BRADLEY BRADLEYSAFETY.COM

15-MINUTE FLUSH

Compliant fixtures release a continuous flow of tepid flushing fluid for a minimum of 15 minutes. (Sections 5.1.6, 5.4.5, 5.4.6, 6.1.6, 6.4.5, 6.4.6)

TEPID WATER

Tepid water (lukewarm):

- 60–100°F
- 15.6–37.8°C

Encourages full 15 minute flush or until medical personnel arrive. (Definitions, Sections 5.4.6, 6.4.6, Appendix B6)



THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Sections 5.5.2, 6.5.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Sections 5.5.2, 5.5.5, 6.5.2, 6.5.5)

S19214 SERIES



KEY FEATURES

HALO eyewashes and eye/face washes provide the most washdown coverage available

Exceed ANSI-mandated flow rates

Universal activation

BradTect coated galvanized steel pipe

½" water supply

1¼" waste

All pedestal-mounted units with Halo meet barrier-free requirements

All items comply with ANSI Z358.1

One-year warranty

**DON'T SEE THE PRODUCT YOU ARE LOOKING FOR?
GO TO PAGE 18 TO USE THE S19214 CONFIGURATOR**

OVERVIEW

Safety and maintenance personnel often select pedestal-mounted eyewashes where a wall-mounted fixture is not practical due to site conditions. As a leading manufacturer of emergency fixtures, Bradley provides a variety of eyewash solutions; barrier-free, frost-proof or stainless steel fixtures with a variety of different spray patterns. Committed to providing a strong value proposition, Bradley also offers complimentary annual inspections to facilities, providing expert advice about emergency fixture solutions.

EMERGENCY FIXTURE FACTS

The emergency fixture must provide a continuous flow of flushing fluid.

ANSI Z358.1 Section 5.4.5, 6.4.5

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems	PAGE 43-44
Drench Hose Spray Kits	PAGE 72
Retrofit Dust Cover Kits	PAGE 77
Foot Treadle Kits	PAGE 68-69, 78
Freeze and Scald Protection Valves	PAGE 78

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV NAVIGATOR EFX 8

S19-2000

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

PEDESTAL-MOUNTED EYEWASHES

S19214EW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



S19214DC

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



S19214B

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYE/FACE WASHES

S19214FW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYEWASHES WITH HINGED DUST COVER

S19214PDC

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl and dust cover
- UL classified to meet ANSI Z358.1



S19214Y

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES

S19214YF

- Hand or foot operation
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



S19214DCFW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYE/FACE WASH WITH HOSE SPRAY

S19214P

- 8' hand-held drench hose attachment for body rinse
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



FROST-PROOF PEDESTAL-MOUNTED EYEWASH

S19-210HFP

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- Available in five bury depths:
 - S19-210HFP18 (18")
 - S19-210HFP3 (3') – standard
 - S19-210HFP4 (4')
 - S19-210HFP5 (5')
 - S19-210HFP6 (6')
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYE/FACE WASHES WITH HINGED DUST COVER

S19214PDCFW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl and dust cover
- UL classified to meet ANSI Z358.1



PEDESTAL-MOUNTED EYEWASH WITH CHROME-PLATED BRASS FINISH

S19-210U

- Chrome-plated brass pipe and fittings for bright, mirror finish
- Stainless steel bowl
- UL classified to meet ANSI Z358.1

ALL STAINLESS STEEL PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES

S19-210BSS

- All stainless steel fixture
- UL classified to meet ANSI Z358.1



S19-210BSS

S19-210SC

- All stainless steel fixture
- Hinged dust cover
- UL classified to meet ANSI Z358.1

ALL STAINLESS STEEL PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES

S19-210SS

- All stainless steel fixture
- Hand or foot operation
- Chrome-plated circular spray ring for full face spray
- UL classified to meet ANSI Z358.1



S19-210SS

S19-210X

- All stainless steel fixture
- Hand or foot operation
- Stainless steel bowl w/spray ring
- UL classified to meet ANSI Z358.1

EYEWASHES

When the safety risk targets the eye area, Bradley's eyewashes are the recommended solution for emergency care. The chrome-plated eyewash sprayheads flow at approximately 4.3 gallons per minute, exceeding ANSI's 0.4 GPM flow rate. The flow gently flushes water directly on the eye to wash out contaminants.



EYE/FACE WASHES

When chemicals and other hazardous liquids can contaminate the face and eyes, an eye/face wash is the solution. Bradley's eye/face wash heads feature integral flow controls that provide a soft flush of approximately 4.3 gallons per minute. Eye/face washes are considered premium fixtures that exceed ANSI's 3.0 GPM mandate.

EYE/FACE WASH WITH SPRAY RING

The eye/face spray ring provides a circular pattern of water to flush the face while the chrome-plated eyewash heads flush the eyes. Fixtures that feature an eye/face spray ring provide a superior flush that gently covers the entire face. Bradley fixtures with a face/spray ring distribute approximately 3.7 GPM of water across the entire face in a constant flow, which exceeds ANSI's 3.0 GPM requirement.



DUST COVERS

The most effective way to keep the unit clean and functioning properly is to have a dust cover over the eye or eye/face wash. See-through plastic dust covers provide effective dust protection, but also allow for easy inspection.

These covers automatically open when the eye or eye/face wash is activated. Dust covers are available as standard equipment on many eye and eye/face washes, or can be ordered as a retrofit kit.

FOOT TREADLE

Foot treadles provide hands-free activation for eye and eye/face washes.

Foot treadles are available as standard equipment on some eye and eye/face washes, or can be ordered as a retrofit kit.



S19224 SERIES



KEY FEATURES

HALO eyewashes and eye/face washes provide the most washdown coverage available

Dust cover protects fixture from dust and debris

Fixtures exceed ANSI-mandated flow rates

Single-step activation

BradTect corrosion-resistant yellow coating

All wall-mounted units with Halo meet barrier-free requirements

All items comply with ANSI Z358.1

One-year warranty

DON'T SEE THE PRODUCT YOU ARE LOOKING FOR? GO TO PAGE 24 TO USE THE S19224 CONFIGURATOR

OVERVIEW

Wall-mounted emergency units are classic fixtures that originated from safety's early days. The classic fixture evolved from a basic eyewash model with little to no options, to the fixtures of today with standard high visibility, yellow, corrosion-resistant coating, plastic and stainless steel dust covers, various flow rates and flow patterns to flush the most elusive contaminants from the face. Wall-mounted fixtures are among the most compact, versatile safety solutions on the market. They can be found in industrial facilities, airports, auto repair shops, food processing environments and paper mills to name a few.

EMERGENCY FIXTURE FACTS

An ANSI-compliant eyewash provides 15-minutes of flushing fluid.

ANSI Z358.1 Section 5.1.6, 6.1.6

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems	PAGE 43-44
Drench Hose Spray Kits	PAGE 72
Retrofit Dust Cover Kits	PAGE 77
Foot Treadle Kits	PAGE 68-69, 78
Freeze and Scald Protection Valves	PAGE 78

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 8

S19-2000

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes.

A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

WALL-MOUNTED EYEWASHES AND EYE/FACE WASHES

WALL-MOUNTED EYEWASHES

S19224EW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



S19224EW

S19224PT

- Tailpiece and P-trap
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



S19224PT

S19224B

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



S19224B

S19224BPT

- Tailpiece and P-trap
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



S19224BPT

WALL-MOUNTED EYEWASHES WITH HINGED DUST COVER

S19224PDC

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl and dust cover
- UL classified to meet ANSI Z358.1



S19224PDC

S19224DC

- Galvanized stainless steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



S19224DC

S19224DCPT

- Tailpiece and P-trap
- Galvanized stainless steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



S19224DCPT

WALL-MOUNTED EYE/FACE WASHES

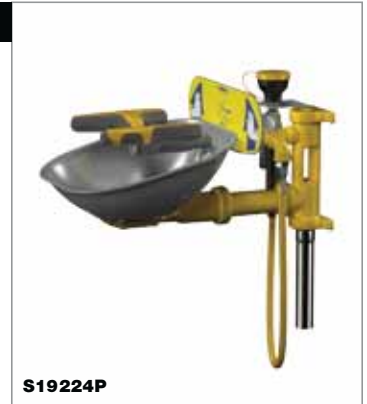
S19224FW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



S19224P

- 8' hand-held drench hose for body rinse
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



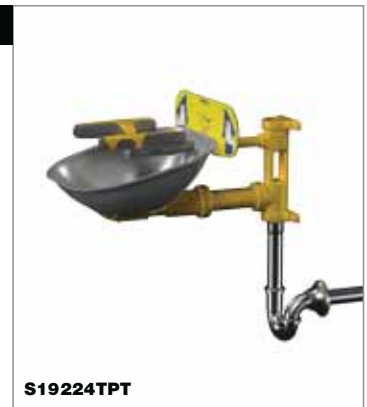
S19224FWPT

- Tailpiece and P-trap
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl
- UL classified to meet ANSI Z358.1



S19224TPT

- Tailpiece and P-trap
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



S19224T

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



S19224Y

- Hand or foot operation
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- UL classified to meet ANSI Z358.1



WALL-MOUNTED EYE/FACE WASHES WITH HINGED DUST COVER

S19224PDCFW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic bowl and dust cover
- UL classified to meet ANSI Z358.1



S19224DCFW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



S19224DCRPT

- Tailpiece and P-trap
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl and dust cover
- UL classified to meet ANSI Z358.1



EYE AND EYE/FACE WASH BOWLS

Bradley's eye and eye/face wash bowls come in two different materials – plastic and stainless steel.

The high-visibility plastic bowls are intended for general use. The impact-resistant plastic will stand up to regular wear and tear.



For the most durable bowl, select stainless steel bowls for rugged environments, where impact could be a problem.



DUST COVERS



The most effective way to keep the unit clean and functioning properly is to have a dust cover over the eye or eye/face wash bowl. See-through plastic dust covers provide effective dust protection, but also allow for easy inspection.

These covers automatically open when the eye or eye/face wash is activated. Dust covers are available as standard equipment on many eye and eye/face washes, or can be ordered as a retrofit kit.

FROST PROOF



Bradley features frost-proof emergency fixtures for when an adjacent outside wall of a heated building is available. They can also be free standing with a buried supply pipe. See your local plumbing codes for code compliance.

BARRIER FREE



All Halo models are barrier-free. This provides ease of use for individuals with disabilities.

ALL STAINLESS STEEL EYEWASHES AND EYE/FACE WASHES

S19-220BSS

- All stainless steel fixture
- UL classified to meet ANSI Z358.1



S19-220SC

- All stainless steel fixture
- Hinged dust cover
- UL classified to meet ANSI Z358.1

S19-220TSS

- All stainless steel fixture
 - Dual eye/face wash
- Note: Sprayheads are ABS plastic*
- UL classified to meet ANSI Z358.1



S19-220DCSS

- All stainless steel fixture
- Dual eye/face wash
- Hinged dust cover
- UL classified to meet ANSI Z358.1



S19-220SS

- All stainless steel fixture
- Includes face spray ring designed with a wider spray pattern for full face spray
- UL classified to meet ANSI Z358.1

BARRIER-FREE, WALL-MOUNTED EYEWASHES

S19-220ABF

- Drain piping and bracket are stainless steel (no wrap-around skirt)
- UL classified to meet ANSI Z358.1



S19-220BBF

- Same features as S19-220ABF, except with stainless steel bowl (no wrap-around skirt)
- UL classified to meet ANSI Z358.1



BARRIER-FREE, WALL-MOUNTED EYE/FACE WASH WITH WRAP-AROUND SKIRT

S19-220BF

- Stainless steel wrap-around skirt and eyewash bowl
- Features chrome-plated circular spray ring for full face spray
- UL classified to meet ANSI Z358.1



FROST-PROOF, WALL-MOUNTED EYEWASH

S19-220HFP

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel bowl
- Available in three wall thicknesses:
 - **S19-220HFP8** (0–8")
 - **S19-220HFP12** (8–12") – standard
 - **S19-220HFP18** (12–18")
- UL classified to meet ANSI Z358.1



S19224 SERIES CONFIGURATOR

Don't see a model that meets your application? Use the selections below to build one to suit your needs. Select one option from each category. Fill in the squares below with the corresponding option letter or number. Use the resulting alphanumeric number to specify the model and configuration for your desired product.

1 Configuration



- 0 Standard Wall Mount

2 Pipe Material



- A NPT, Yellow BradTect® Galvanized Steel, 1/4"
- B NPT, All 304 Stainless Steel, 1/4"
- C NPT, All 316 Stainless Steel,* 1/4"
- D NPT, Chrome-Plated, 1/4"

NOTE: SS pipes require the use of a stainless steel yoke

3 Ball Valve



- 1 Stay-Open Eyewash, Chrome-Plated Brass
- 2 Stay-Open Eyewash, 316 SS

4 Eyewash or Eye/Face Wash



- A Halo Eyewash
- B Halo Eye/Face Wash
- D Halo Eyewash, 304 SS Yoke
- E Halo Eye/Face Wash, 304 SS Yoke
- G Halo Eyewash, 316 SS Yoke
- H Halo Eye/Face Wash, 316 SS Yoke

5 Bowl and Dust Cover



- A Plastic Bowl, No Dust Cover
- B Plastic Bowl, Plastic Dust Cover
- D 304 SS, No Dust Cover
- E 304 SS, 304 SS Dust Cover
- F 304 SS, Plastic Dust Cover
- G 316 SS, No Dust Cover
- H 316 SS, 316 SS Dust Cover
- J 316 SS, Plastic Dust Cover
- 0 No Bowl or Dust Cover

6 Activation



- A 304 SS Handle
- B 316 SS Handle
- D 304 SS Handle with Stainless Steel Foot Pedal*

7 Waste



- A Tailpiece
- D P-trap
- 0 No Waste

8 Drench Hose and Backflow Prevention



- A Drench Hose Kit with Vacuum Breaker
- B Drench Hose Kit with N9 Backflow Preventer
- C Drench Hose Kit with 9D Backflow Preventer
- D Drench Hose Kit without Backflow Preventer
- 0 No Drench Hose and No Backflow Prevention

9 Freeze and Scald Protection



- N Anti-Freeze Valve
- P Anti-Scald Valve
- R Anti-Freeze and Anti-Scald Valves
- 0 No Anti-Freeze Valve and No Anti-Scald Valve

*Not available with barrier-free configurations. **Self-closing valves are not ANSI Z358.1 compliant.

Fill in 1 through 9 to specify the Halo model and configuration for your desired product:

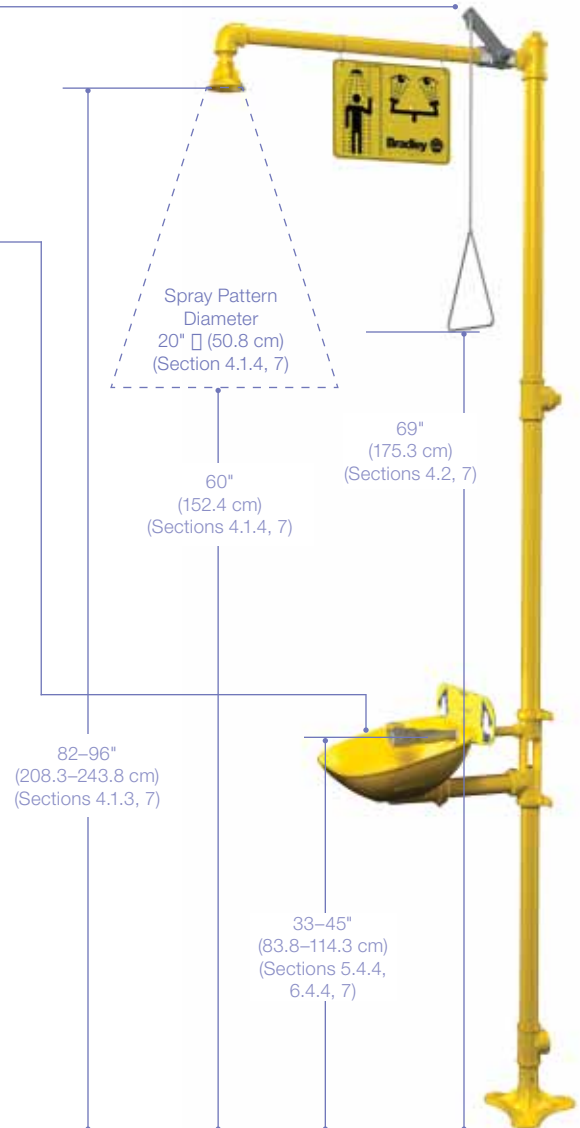
1 2 3 4 5 6 7 8 9

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This guide serves as a supplement to the ANSI Z358.1-2009 standard.

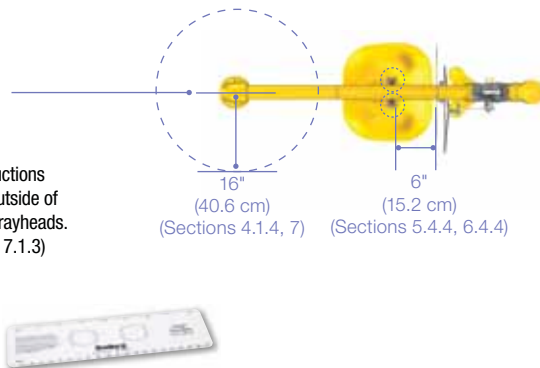
Combination Drench Shower, Eye and Eye/Face Washes

- Valve mechanism opens in one second or less; it stays open until manually closed. (Sections 4.2, 5.2, 6.2, 7.1.1, 7.1.2, 7.1.3)
- Drench shower and eye or eye/face wash must operate simultaneously. (Section 7.4.4)
- Supply with flushing fluid (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”). (Definitions, Sections 4.1.1, 4.4.1, 5.1.1, 6.1.1, 7.1.2, 7.1.3)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on same plane as the hazard, free of obstructions. (Sections 4.5.2, 5.4.2, 6.4.2, 7.1.1, 7.1.2, 7.1.3, 7.4.2, Appendix B5)
- Must resist corrosion in the presence of flushing fluid (Sections 4.1.5, 5.1.5, 6.1.5, 7.1.1, 7.1.2, 7.1.3)
- Protect eye and eye/face wash heads from contaminants. (Sections 5.1.3, 6.1.3, 7.1.2, 7.1.3)
- Flow Rates:
 - An eyewash delivers a minimum of .4 gpm for 15 minutes. (Sections 5.1.6, 7.1.2)
 - An eye/face wash delivers a minimum of 3.0 gpm for 15 minutes. (Sections 6.1.6, 7.1.3)
- Use flow meter to check flow rate; use test gauge to test flow pattern. (Sections 5.1.8, 5.3.1, 6.1.7, 6.3, 7.1.2, 7.1.3)
- Environmental conditions often require freeze or scald protection equipment. (Sections 4.5.5, 5.4.5, 6.4.5, 7.1.1, 7.1.2, 7.1.3)



Top down view

- Requires a 16" radius from the center of the drench shower spray pattern to be free of obstructions. (Sections 4.1.4, 7.1.1)
- Required to be free of obstructions a minimum of 6" from the outside of the eye or eye/face wash sprayheads. (Sections 5.4.4, 6.4.4, 7.1.2, 7.1.3)
- Use a Bradley test gauge (Model 269-1444) to check flow pattern.



FREE CONFIDENTIAL SAFETY EVALUATION 800.BRADLEY BRADLEYSAFETY.COM

15-MINUTE FLUSH

Compliant showers release a continuous flow of at least 20 gpm of tepid flushing fluid for a period of at least 15 minutes. (Sections 4.1.4, 4.4.1, 4.5.5, 4.5.6, 7.1.1)

Compliant eye or eye/face wash fixture releases a continuous flow of flushing fluid for a minimum of 15 minutes. (Sections 5.1.6, 5.4.5, 5.4.6, 6.1.6, 6.4.5, 6.4.6, 7.1.2, 7.1.3)

800-BRADLEY (800.272.3539) bradleycorp.com

TEPID WATER

Tepid water (lukewarm):

- 60–100°F
- 15.6–37.8°C

Encourages full 15-minute flush or until medical personnel arrive. (Definitions, Sections 4.5.6, 5.4.6, 6.4.6, Appendix B6)



THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Sections 4.6.2, 5.5.2, 6.5.2, 7.5.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Section 7.5.5) (Section 4.6.5)

S19314 SERIES



KEY FEATURES

HALO eyewashes and eye/face washes provide the most washdown coverage available

SpinTec™ showerhead improves water distribution

Stay-open ball valve with single-step activation

Triangular stainless steel pull rod

BradTect® corrosion-resistant yellow coating (except on stainless steel, PVC and chrome models)

Frost-proof and barrier-free models available

Universal ID sign

Top- or mid-level supply standard on all drench showers and combination units

Integrated eye or eye/face wash with capped eyewash heads

One-year warranty

1¼" NPT inlet

Single-step eye or eye/face wash activation

Single-step drench shower activation

All items comply with ANSI Z358.1

OVERVIEW

Bradley's S19314 Series is the most complete safety fixture on the market. The drench shower provides full-body relief from contamination, and the eye or eye/face wash targets those areas of the body where a gentle spray of water is optimal.

EMERGENCY FIXTURE FACTS

Locate safety fixtures 10 seconds or 55 feet from a hazardous area.

ANSI Z358.1 Section 7.4.2, Appendix B5

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems	PAGE 43-44
Drench Hose Spray Kits	PAGE 72
Retrofit Dust Cover Kits	PAGE 77
Foot Treadle Kits	PAGE 68-69, 78
Freeze and Scald Protection Valves	PAGE 77

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

S19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

**DON'T SEE THE PRODUCT YOU ARE LOOKING FOR?
GO TO PAGE 34 TO USE THE S19314 CONFIGURATOR**

COMBINATION DRENCH SHOWERS AND EYEWASH UNITS

S19314EW

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314EW

S19314SB

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314SB

S19314P

- 8' hand-held drench hose for body rinse
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314P

S19314LL

- Hand or foot operation for eyewash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314LL

FLOW CONTROLS

In the interest of water conservation, each shower head features an integral 2.3 GPM flow control.

This item must be purchased separately for most competing brands.

COMBINATION DRENCH SHOWERS AND EYE/EYE-FACE WASHES

COMBINATION DRENCH SHOWERS AND EYEWASH UNITS

S19314F

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead with stainless steel shroud and stainless steel bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



COMBINATION DRENCH SHOWERS AND EYEWASH UNITS WITH HINGED DUST COVER

S19314PDC

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Includes hinged plastic dust cover for bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



COMBINATION DRENCH SHOWERS AND EYEWASH UNITS

S19314UU

- Hand or foot operation for eyewash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead with stainless steel shroud and stainless steel eyewash bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314DC

- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Includes hinged stainless steel dust cover for bowl
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



COMBINATION DRENCH SHOWERS AND EYE/FACE WASH UNITS

S19314FW

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314FW

S19314AC

- Hand or foot operation for eye/face wash
- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314AC

S19314SBFW

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314SBFW

S19314TT

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead with stainless steel shroud and stainless steel bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314TT

S19314SPR

- Hand or foot operation for eye/face wash
- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Stainless steel showerhead and stainless steel bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314BF

- Barrier-free design – fully accessible to people with physical disabilities
- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314BFPB

- Barrier-free design – fully accessible to people with physical disabilities
- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314PDCFW

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and plastic bowl
- Includes hinged plastic dust cover for bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314DCFW

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Includes hinged stainless steel dust cover for bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314DCFW

S19314DCBF

- Barrier-free design – fully accessible to people with physical disabilities
- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and stainless steel bowl
- Includes hinged stainless steel dust cover for bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314DCBF

DRENCH SHOWERHEADS

Bradley's drench showers are available with either a plastic or stainless steel showerhead.



The plastic showerheads are high-visibility yellow and made of impact-resistant material.



For the most durable showerhead, select stainless steel which stands up to corrosion and aggressive impact.

EYE AND EYE/FACE WASH BOWLS

Bradley's eye and eye/face wash bowls come in two different materials – plastic and stainless steel.

The high-visibility plastic bowls are intended for general use. The impact-resistant plastic will stand up to regular wear and tear.



For the most durable bowl, select stainless steel bowls for rugged environments, where impact and corrosion could be a problem.



DUST COVERS



The most effective way to keep the unit clean and functioning properly is to have a dust cover over the eye or eye/face wash. See-through plastic dust covers provide effective dust protection, but also allow for easy inspection.

These covers automatically open when the eye or eye/face wash is activated. Dust covers are available as standard equipment on many eye and eye/face washes, or can be ordered as a retrofit kit.

FOOT TREADLE

Foot treadles provide hands-free activation for eye and eye/face washes.

Foot treadles are available as standard equipment on some eye and eye/face washes, or can be ordered as a retrofit kit.



COMBINATION DRENCH SHOWERS AND EYE/EYE-FACE WASHES

COMBINATION DRENCH SHOWERS AND EYE/FACE WASH UNIT WITHOUT EYEWASH BOWL

S19314GG

- Dual eye/face wash
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and no bowl
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19314GG

FROST-PROOF, SIMULTANEOUS OPERATION DRENCH SHOWER AND EYE/FACE WASH FIXTURE

S19-310HFP

- Single push handle operates both eye/face wash and drench shower
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and no bowl
- Available in five bury depths:
 - S19-310HFP18 (18")
 - S19-310HFP3 (3') – standard
 - S19-310HFP4 (4')
 - S19-310HFP5 (5')
 - S19-310HFP6 (6')
- UL classified to meet ANSI Z358.1



S19-310HFP

FROST-PROOF, WALL-MOUNTED COMBINATION DRENCH SHOWER AND EYEWASH

S19-310TW

- Through-wall design
- Galvanized steel protected with BradTect corrosion-resistant yellow coating
- Plastic showerhead and no bowl
- Available in three wall thicknesses:
 - S19-310TW8 (0–8")
 - S19-310TW12 (8–12") – standard
 - S19-310TW18 (12–18")
- UL classified to meet ANSI Z358.1



S19-310TW

ALL STAINLESS STEEL COMBINATION DRENCH SHOWERS AND EYEWASH UNITS OR EYE/FACE WASH UNITS

S19-310BFSS

- Barrier-free design – fully accessible to people with physical disabilities
- All stainless steel fixture
- Eyewash with face spray ring
- Corrosion-resistant for harsh environments
- Bradley's stainless steel emergency fixtures are recommended for harsh environments
- UL classified to meet ANSI Z358.1



S19-310BFSS

COMBINATION DRENCH SHOWERS AND EYE/EYE-FACE WASHES

S19-310FSS

- All stainless steel fixture
- Bradley's stainless steel emergency fixtures are recommended for harsh environments
- Eyewash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19-310FSS

S19-310SS

- Hand or foot operation for eye/face wash
- All stainless steel fixture
- Bradley's stainless steel emergency fixtures are recommended for harsh environments
- Eyewash with face spray ring
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19-310SS

S19-310JJ

- Chrome-plated, brass pipe and fittings for a bright, mirror finish
- Stainless steel shroud and eyewash bowl
- Eye/face wash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19-310JJ

S19-310SS16

- Same features as S19-310FSS, except fixture is all type 316 corrosion-resistant stainless steel for harsh environments and includes eyewash with face spray ring
- All stainless steel fixture
- Bradley's stainless steel emergency fixtures are recommended for harsh environments
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1

S19-310PVC

- Corrosion-resistant schedule 80PVC
- Stainless steel valve fittings
- Plastic showerhead
- Eye/face wash exceeds minimum water flow of 3 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19-310PVC

S19-310SC

- Same features as S19-310FSS, except with dust cover
- All stainless steel fixture
- Bradley's stainless steel emergency fixtures are recommended for harsh environments
- Eye/face wash exceeds minimum water flow of 0.4 GPM at 30 PSI
- UL classified to meet ANSI Z358.1



S19-310SC

S19-300 SERIES



KEY FEATURES

SpinTec™ showerhead improves water distribution

Freeze protection valve

1¼" galvanized steel pipe

All items comply with ANSI Z358.1

One-year warranty

OVERVIEW

The heat trace combination unit is a custom emergency fixture selected by safety personnel searching for a combination drench shower and eye or eye/face wash that will not freeze when installed in a frigid environment, indoors or outdoors (-50°F/-45.5°C). The high-visibility fixture is insulated and covered by a yellow PVC shell, it features an integral freeze protection bleed valve, and is electrically rated as a Class I Division I or a Class I Division II explosion-proof fixture. Bradley's standard heat trace is equipped with galvanized pipe wrapped with heat trace cable; however corrosion-resistant stainless steel options are available upon request. Heat trace fixtures are available with an optional alarm system, indicator light, drench hose or anti-scald valve that complement this premium emergency fixture.

EMERGENCY FIXTURE FACTS

In geographic areas where an emergency fixture may freeze, safety personnel should consider purchasing a freeze-protected fixture or additional accessories to prevent the pipes from freezing.

ANSI Z358.1 Section 6.4.5

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

S19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

HEAT TRACE COMBINATION DRENCH SHOWER AND EYEWASH

HEAT TRACE COMBINATION DRENCH SHOWER AND EYE/EYE-FACE WASH

S19-300

- Electric heat trace cable
 - Thermal rating:
5 watts/foot
 - Self regulated to
-50°F (-45.6°C)
 - Protects against
overheating and
cold spots
 - ¾" polyethylene
pipe insulation
- ABS plastic outer shell
 - Easy to maintain
 - Four easy-to-remove
sections
- Sealed with vinyl trim
- Thermostat opens at
64°F (18°C) and
closes at 54°F (12°C)
- Four-hub, aluminum junction box accepts ¾" conduit
- Valve opens at 35°F (2°C) internal water temperature
to prevent freezing
- Stainless steel pull rod with triangular handle
- Chrome-plated brass, stay-open ball valve
- ½" eyewash valve
- 1" shower valve
- UL Plumbing listed to meet ANSI Z358.1
- CSA certified 161166



Standard selections are in bold. Units will ship with these features if not otherwise specified. Selection should be made in each category. Incoming supply (top or bottom) must be indicated.

VERSIONS

- D2 Class 1 Division 2 – Groups B, C, D**
- D1 Class 1 Division 1 – Groups C, D

WATER SUPPLY

- T Top Supply
- B Bottom Supply

VOLTAGE

- 1 120V**
- 2 220V

SHOWERHEAD

- A ABS Plastic**
- S Stainless Steel

EYEWASH

- EFW Eye/Face Wash**
- EW Eyewash Only

ALARM

- N No Alarm**
- WA Waterproof Alarm
- D2A Class 1 Div 2 Alarm
- D1A Class 1 Div 1 Alarm

INDICATOR LIGHT

- N No Light**
- L NEMA 3 Indicator Light
- D2L Class 1 Division 2 Light
- D1L Class 1 Division 1 Light

DRENCH HOSE

- N No Drench Hose**
- H Drench Hose

ANTI-SCALD VALVE

- N No Anti-Scald Valve**
- S Anti-Scald Valve

Additional product information, including Technical Data and Installation Instructions, is available online at

bradleycorp.com

This guide serves as a supplement to the ANSI Z358.1-2009 standard.

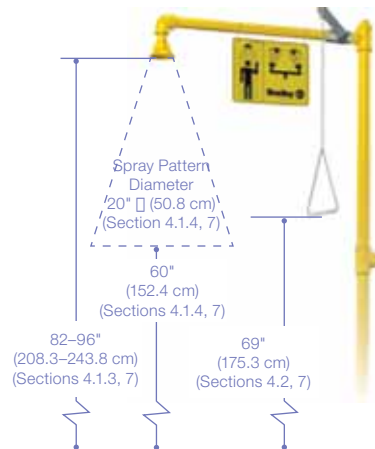
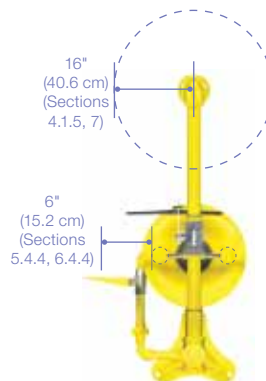
Enclosed Safety Showers



- Colder ambient temperature may require an enclosure for added protection. (Section B6)
- Valve mechanism opens in one second or less; it stays open until manually closed. (Sections 4.2, 5.2, 6.2, 7.1.1, 7.1.2, 7.1.3)
- Drench shower and eye or eye/face wash must operate simultaneously. (Section 7.4.4)
- Supply with flushing fluid ("potable water, preserved water, preserved buffered saline solution or other medically acceptable solution..."). (Definitions, Sections 4.1.1, 4.4.1, 5.1.1, 6.1.1, 7.1.2, 7.1.3)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on same plane as the hazard, free of obstructions. (Sections 4.5.2, 5.4.2, 6.4.2, 7.1.1, 7.1.2, 7.1.3, 7.4.2, Appendix B5)
- Must resist corrosion in the presence of flushing fluid (Sections 4.1.5, 5.1.5, 6.1.5, 7.1.1, 7.1.2, 7.1.3)
- Protect eye and eye/face wash heads from contaminants. (Sections 5.1.3, 6.1.3, 7.1.2, 7.1.3)
- Requires a 16" radius from the center of the drench shower spray pattern to be free of obstructions. (Sections 4.1.4, 7.1.1)
- Required to be free of obstructions a minimum of 6" from the outside of the eye or eye/face wash sprayheads. (Sections 5.4.4, 6.4.4, 7.1.2, 7.1.3)
- Eye/face wash nozzle height 33–45" (83.8–114.3 cm) from standing surface. (Sections 5.4.4, 6.4.4, 7)
- Flow Rates:
 - An eyewash delivers a minimum of .4 gpm for 15 minutes. (Sections 5.1.6, 7.1.2)
 - An eye/face wash delivers a minimum of 3.0 gpm for 15 minutes. (Sections 6.1.6, 7.1.3)
- Use flow meter to check flow rate; use test gauge to test flow pattern. (Sections 5.1.8, 5.3.1, 6.1.7, 6.3, 7.1.2, 7.1.3)
- Use a Bradley test gauge (Model 269-1444) to check flow pattern.
- Environmental conditions often require freeze or scald protection equipment. (Sections 4.5.5, 5.4.5, 6.4.5, 7.1.1, 7.1.2, 7.1.3)



Top down view



FREE CONFIDENTIAL SAFETY EVALUATION 800.BRADLEY BRADLEYSAFETY.COM

15-MINUTE FLUSH

Compliant showers release a continuous flow of at least 20 GPM of tepid flushing fluid for a period of at least 15 minutes. (Sections 4.1.4, 4.4.1, 4.5.5, 4.5.6, 7.1.1). Compliant eye or eye/face wash fixture releases a continuous flow of flushing fluid for a minimum of 15 minutes. (Sections 5.1.6, 5.4.5, 5.4.6, 6.1.6, 6.4.5, 6.4.6, 7.1.2, 7.1.3)

TEPID WATER

Tepid water (lukewarm):

- 60–100°F
- 15.6–37.8°C

Encourages full 15-minute flush or until medical personnel arrive. (Definitions, Sections 4.5.6, 5.4.6, 6.4.6, Appendix B6)



THIRD- PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Sections 4.6.2, 5.5.2, 6.5.2, 7.5.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Section 7.5.5) (Section 4.6.5)

ENCLOSED SAFETY SHOWERS

INDOOR & OUTDOOR MODELS



KEY FEATURES

Innovative drenching technology featuring:

- SpinTec™ showerhead for improved water distribution
- Halo™ rinsing platform

Superior design standards

- Vacuum-formed fiberglass
- R-12 insulation rating
- Indoor and Outdoor models

Premium features come standard

- Integral drain
- Portable
- NEMA 4X enclosure
- Drench hose

UL 94 V-0 self-extinguishing fire rating

Resins and insulation are rated as a Class 1 ASTM E84 to flame spread rating of less than 25

100% fiberglass surround construction highly resistant to chemicals and corrosion

Ideal for both indoor and outdoor applications

Custom engineered systems available

OVERVIEW

Protect your people from extreme environments with a customized safety solution. Turnkey shower, eyewash and drench hose systems offer an injured party a humane triage experience. Enclosed safety systems address the physical and psychological needs of the injured party by providing privacy, delivering warm water, warm ambient temperature and a shelter from the elements.

Armed with a fire-rated insulated fiberglass structure, tepid water delivery capabilities, and reliable chemical and corrosion resistance, Bradley's enclosed safety shower provides superior washdown capability in emergency situations, while withstanding harsh chemicals.

EMERGENCY FIXTURES FACTS

Safety systems with multiple drenching platforms, (shower, eyewash and drench hose) must be capable of simultaneous activation while delivering tepid water for a duration of 15 minutes.

ANSI Z358.1 Section 7.4.4

An enclosure is recommended to protect against cold ambient temperatures.

ANSI Z358.1 Appendix B6

INDOOR ENCLOSED SAFETY SHOWERS



S19372 SERIES

- Tempered water inlet

S19374 SERIES

- Hot water tank

S19376 SERIES

- Self-contained

S19378 SERIES

- Tankless hot water heater

OUTDOOR ENCLOSED SAFETY SHOWERS



S19382 SERIES

- Tempered water inlet

S19384 SERIES

- Hot water tank

S19386 SERIES

- Self-contained

S19388 SERIES

- Tankless hot water heater

TANKLESS TEMPERING SYSTEMS

EYE/FACE WASH AND SHOWER MODELS



KEY FEATURES

- No need to keep a 300 gallon tank heated 24/7/365
- Easy to install – just add water and power. All you need is one electrical connection and a cold water line
- Under constant flow and pressure, temperatures stay within $\pm 1^{\circ}\text{F}$ of set point
- Precision systems custom engineered to fit your application
- Meets ANSI Z358.1 standards and third-party verified to UL/CSA standards
- Only ASME and NB certified electric Tankless Tempering Systems in the world
- Optional features include NEMA 4X stainless steel enclosures, explosion proof purge system, and freeze protection to -30°F

OVERVIEW

The safety of your employees is paramount. Keltech electric tankless emergency water heaters control systems are engineered to ensure that water temperature is just right – not too hot, not too cold. Under constant flow and pressure, temperatures stay within $\pm 1^{\circ}\text{F}$ of set point. If the flow rate changes drastically, there is no need to worry about being scalded. These units sense the transition and purge latent heat, keeping the output temperature below 90°F . A separate set of circuits monitors for “over temperature” conditions. Large internal passageways minimize pressure drop.

These units perform on demand for efficient energy usage. Unlike boilers, tankless water heaters only draw energy when needed. Utility costs are minimized because there is no need to keep a 300 gallon tank heated 24/7/365. Easy to install – just add water and power. All you need is one electrical connection

and a cold water line. All models are precision-engineered with materials, such as copper tubing and robust brass castings, that exceed the standards of any application – anywhere in the world.

EMERGENCY FIXTURES FACTS

ANSI requires that an emergency fixture be supplied with tepid flushing fluid between $60-100^{\circ}\text{F}$ ($15.5-37.7^{\circ}\text{C}$) to avoid premature cessation of the recommended 15 minute flush.

ANSI Z358.1 Section 7.4.5, Appendix B6

FOR SAFETY EYE/FACE WASH APPLICATIONS



S193 SERIES

- Available in a variety of wattages and voltages

FOR SAFETY SHOWER APPLICATIONS



S194 SERIES

- Available in a variety of wattages and voltages

S19-320 series



KEY FEATURES

- Automatic, audible and visual alarm system
- Activates when shower is activated; pre-assembled
- Requires a minimum of 2.4 GPM water flow to activate
- ½" NPT inlet piping
- Double pole, double throw flow switch

OVERVIEW

Whether your intent is to prevent vandalism caused by false activations, or to be sure your safety team and medical personnel are notified during an emergency, alarm systems may be the solution. Each Bradley alarm system is equipped with a double pole, double throw flow switch. To complement the audible and visual indicator, each flow switch provides the extra set of contacts necessary to connect the fixture to a central control system that monitors the fixture. Alarms

provide peace of mind, they discourage vandals, yet notify safety personnel when and where an emergency occurs.

EMERGENCY FIXTURE FACTS

According to ANSI guidelines, audible alarms may be a desirable accessory to audibly or electronically alert safety personnel that an emergency occurred.

ANSI Z358.1, Appendix B4

ALARMS FOR EYE OR EYE/FACE WASHES

- Automatic, audible and visual alarm system
- Activates when shower is activated; preassembled
- Requires a minimum of 2.4 GPM water flow to activate
- ½" NPT inlet piping
- Double pole, double throw flow switch
- For indoor and outdoor applications

S19-320A

- UL listed ½" brass flow switch
- NEMA 3 alarm system
- 6' Cable

S19-320D

- UL listed ½" brass flow switch
- NEMA 3 alarm system
- 12' Cable

STANDARD ALARMS FOR DRENCH SHOWERS OR COMBINATION UNITS

- Automatic, audible and visual alarm system
- Activates when shower is activated; preassembled
- Requires a minimum of 2 GPM water flow to activate
- 1¼" NPT inlet piping
- Double pole, double throw flow switch
- For indoor and outdoor applications



S19-320

- Brass UL listed 1¼" flow switch
- NEMA 3 alarm system
- 6' Cable

S19-320C

- Brass, UL listed 1¼" flow switch
- NEMA 3 alarm system
- 12' Cable

S19-320B

- Brass, UL listed 1¼" flow switch
- Includes 120/24 volt AC transformer
- NEMA 3 alarm system
- 6' Cord

S19-320E

- Brass, UL listed 1¼" flow switch
- Includes 120/24 volt AC transformer
- NEMA 3 alarm system
- 12' Cord

EXPLOSION-PROOF ALARMS – CLASS 1 DIVISION 2, GROUPS B, C & D

S19-320EXP120

- 120 volt
- NEMA 4
- Brass, UL listed
1¼" flow switch



S19-320EXP120

EXPLOSION-PROOF ALARMS – CLASS 1 DIVISION 1, GROUPS C AND D

S19-320EXP1A

- 120 volt
- NEMA 4
- Brass, UL listed
1¼" flow switch



S19-320EXP1A

S19-320EXP220

- 220 volt
- NEMA 4
- Brass, UL listed
1¼" flow switch

S19-320EXP1B

- 220 volt
- NEMA 4
- Brass, UL listed
1¼" flow switch

For availability on a brass or stainless steel flow switch only,
contact Bradley Customer Service at

800-BRADLEY (800.272.3539)

FLOW SWITCHES

S19-319B2

- Brass
- ½" NPT
- UL classified to meet ANSI Z358.1



S19-319B2

S19-319S2

- Stainless steel
- ½" NPT
- UL classified to meet ANSI Z358.1



S19-319S2

S19-319B4

- Brass
- 1¼" NPT
- UL classified to meet ANSI Z358.1



S19-319B4

S19-319S4

- Stainless steel
- 1¼" NPT
- UL classified to meet ANSI Z358.1

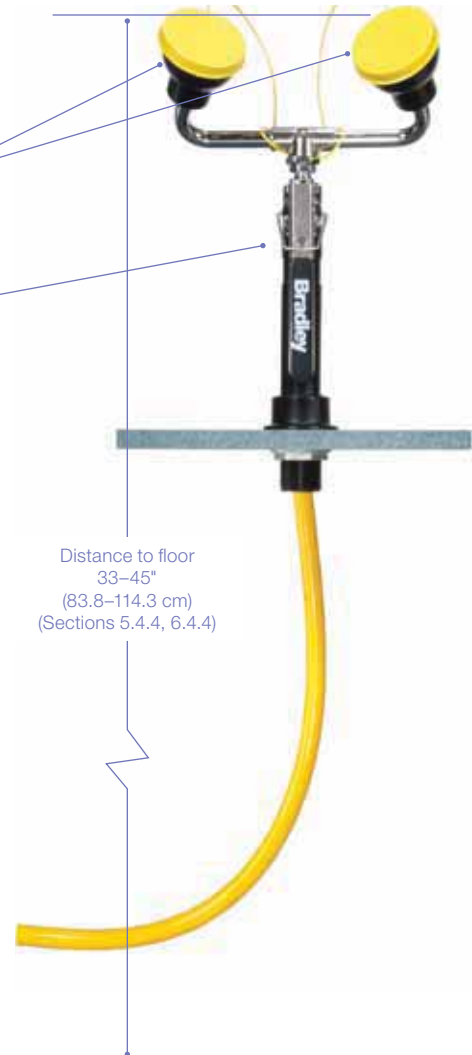


S19-319S4

This guide serves as a supplement to the ANSI Z358.1-2009 standard.

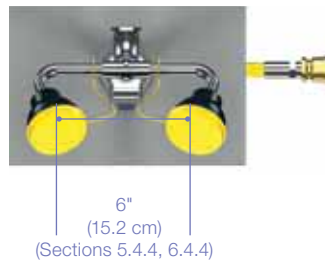
Dual Head Eye/Face Wash & Drench Hose

- Considered an eye/face wash if it complies with the installation and performance requirements of the eye/face wash standard. (Sections 6, 8.2.1)
- Single-head drench hoses complement the 15-minute flush provided by a primary ANSI Z358.1 compliant eyewash fixture. (Section 8)
- Valve mechanism opens in one second or less; it stays open until manually closed. (Sections 6.2, 8.2.1)
- Fixtures compliant as an eye/face wash must remain “on” once activated (Sections 6.2, 8.2.1)
- Supply with flushing fluid (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”) (Definitions, Sections 6.1.1, 8.2.1)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on same plane as the hazard, free of obstructions. (Section 6.4.2, Appendix B5)
- Protect unit heads from contaminants. (Sections 6.1.3, 8.2.1)
- Flow Rates:
 - Eye/face wash unit delivers a minimum of 3.0 GPM for 15 minutes. (Section 6.1.6, 8.2.1)
- Use a flow meter to test flow rate; use a test gauge to test flow pattern. (Sections 6.1.7, 6.3, 8.2.1)



Top down view

- Required to be free of obstructions a minimum of 6" from the outside of the eye/face wash sprayheads. (Sections 6.4.4, 8.2.1)



- Use a Bradley test gauge (Model 269-1444) to check flow pattern.



FREE CONFIDENTIAL SAFETY EVALUATION 800.BRADLEY BRADLEYSAFETY.COM

15-MINUTE FLUSH

Compliant fixtures release a continuous flow of tepid flushing fluid for a minimum of 15 minutes. (Sections 6.1.6, 6.4.5, 6.4.6, 8.2.1)

TEPID WATER

Tepid water (lukewarm):

- 60 – 100°F
- 15.6 – 37.8°C

Encourages full 15-minute flush or until medical personnel arrive. (Definitions, Sections 6.4.6, 8.2.1, Appendix B6)

THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Sections 6.5.2, 8.2.1, 8.2.4.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Sections 6.5.5, 8.2.4.5)



S19-460/S19-430/S19440 SERIES**KEY FEATURES**

Plastic eye/face wash sprayheads

8' drench hose standard
(except where noted)

Squeeze-activated handle
(except where noted)

Locking clip – continuous water flow
once activated

Deck-mounted models include deck
mounting hardware

Wall-mounted models include
wall mounting hardware
(except where noted)

All items comply with ANSI Z358.1

OVERVIEW

Bradley deck-mounted or wall-mounted, dual head drench hoses qualify as an eyewash when installed according to the ANSI Z358.1 guidelines for eyewashes. A dual head drench hose may be used to flush the eyes or body. In contrast, several single head drench hose models exist exclusively for the purpose of serving as auxiliary safety equipment during an emergency. Single head drench hoses may be deck-mounted, wall-mounted or installed as a retrofit in line with an already existing eyewash or drench shower in particularly hazardous locations.

EMERGENCY FIXTURE FACTS

Dual head drench hoses may take the place of a traditional eyewash if it complies with all eyewash performance requirements in Section 5 and/or Section 6 of the standard such as being mounted 6" from any obstruction and 33-45" from the top of the heads to the floor.

ANSI Z358.1 Section 8.2.1

BACKFLOW PREVENTERS

To select the appropriate backflow preventer, check with local governing authorities on local codes and ordinances.

RECOMMENDED EMERGENCY TMV**NAVIGATOR EFX 8****S19-2000**

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes.

A thermostatic mixing valve is needed to mix the hot and cold water supply.

Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

DECK-MOUNTED DRENCH HOSES

S19-460

- Single vertical sprayhead
- UL classified to meet ANSI Z358.1



S19-460

S19-465

- Single angled sprayhead
- UL classified to meet ANSI Z358.1



S19-465

S19-460EFW

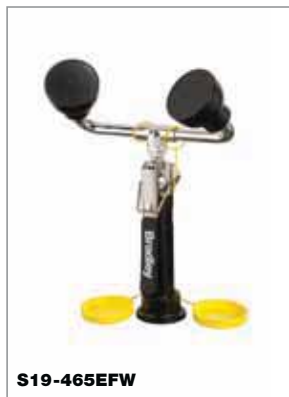
- Dual vertical sprayheads
- ANSI-compliant eye/face wash
- UL classified to meet ANSI Z358.1



S19-460EFW

S19-465EFW

- Dual angled sprayheads
- ANSI-compliant eye/face wash
- UL classified to meet ANSI Z358.1



S19-465EFW

BACKFLOW PREVENTERS

To select the appropriate backflow preventer, check with local governing authorities on local codes and ordinances.

S27-303

- Dual check valve, Series 7



S45-2310

- Dual check vacuum breaker with intermediate atmospheric vent, Series 9D



S45-2309

- Dual check vacuum breaker, Series 9



140-226

- Hose guide bracket
- Mounts under the deck to guide the hose



WALL-MOUNTED DRENCH HOSES

S19-430A

- Single vertical sprayhead
- 6' yellow thermoplastic hose
- UL classified to meet ANSI Z358.1



S19-430D

- Single vertical sprayhead
- 6' flexible stainless steel hose
- UL classified to meet ANSI Z358.1



RETROFIT DRENCH HOSES

S19-430EH

- Single head drench hose
- Retrofits to most eye or eye/face wash fixtures
- UL classified to meet ANSI Z358.1



S19-430SH

- Single head drench hose
- Retrofits to most drench showers or combination units
- UL classified to meet ANSI Z358.1



WALL-MOUNTED DRENCH HOSES WITH RECOIL HOSE

S1944011CBC

- Single vertical sprayhead
- 12' recoiling hose
- Squeeze handle activated
- UL classified to meet ANSI Z358.1



S1944011CBD

- Single vertical sprayhead
- 25' recoiling hose
- Squeeze handle activated
- UL classified to meet ANSI Z358.1

S1944011ABC

- Dual vertical sprayheads
- ANSI-compliant eye/face wash
- 12' recoiling hose
- Squeeze handle activated
- UL classified to meet ANSI Z358.1



S1944011BBC

- Dual angled sprayheads
- ANSI-compliant eye/face wash
- 12' recoiling hose
- Squeeze handle activated
- UL classified to meet ANSI Z358.1

S1944022ABC

- Dual vertical sprayheads
- ANSI-compliant eye/face wash
- 12' recoiling hose
- Paddle activation handle
- UL classified to meet ANSI Z358.1

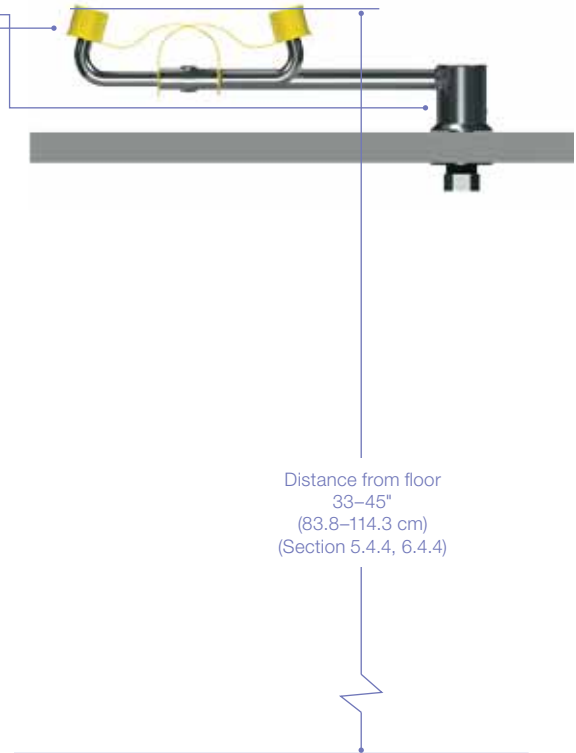


This guide serves as a supplement to the ANSI Z358.1-2009 standard.

Laboratory Eye and Eye/Face Wash Fixtures

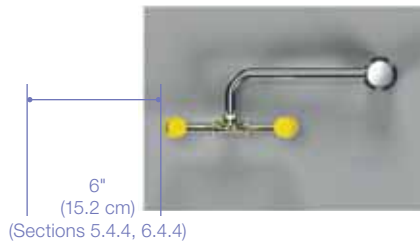
- Valve mechanism opens in one second or less; it stays open until manually closed. (Sections 5.2, 6.2)
- Supply with flushing fluid, (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”) (Definitions, Sections 5.1.1, 6.1.1)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on same plane as the hazard, free of obstructions. (Sections 5.4.2, 6.4.2, Appendix B5)
- Protect unit heads from contaminants. (Sections 5.1.3, 6.1.3)
- Flow Rates:
 - Eyewash unit delivers a minimum of .4 gpm for 15 minutes. (Section 5.1.6)
 - Eye/face wash unit delivers a minimum of 3.0 GPM for 15 minutes. (Section 6.1.6)
- Use a flow meter to test flow rate; use a test gauge to test flow pattern. (Sections 5.1.8, 5.3.1, 6.1.7, 6.3)

The Joint Commission 2009 EC Standard for Hospitals requires: “The hospital takes action to minimize or eliminate identified safety and security risks in the physical environment.” Furthermore, hospitals are required to “Minimize risk associated with selecting, handling, storing, transporting, using, and disposing hazardous chemicals.” Surveyors commonly refer to OSHA requirements and the ANSI Standard for further guidance on best demonstrated practices.



Top down view

- Required to be free of obstructions a minimum of 6" from the outside of the eye or eye/face wash sprayheads. (Sections 5.4.4, 6.4.4)



- Use a Bradley test gauge (Model 269-1444) to check flow pattern.



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15-MINUTE FLUSH

Compliant fixtures release a continuous flow of tepid flushing fluid for a minimum of 15 minutes. (Sections 5.1.6, 5.4.5, 5.4.6, 6.1.6, 6.4.5, 6.4.6)

TEPID WATER

Tepid water (lukewarm):

- 60 – 100°F
- 15.6 – 37.8°C

Encourages full 15 minute flush or until medical personnel arrive. (Definitions, Sections 5.4.6, 6.4.6, Appendix B6)



THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Sections 5.5.2, 6.5.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Sections 5.5.5, 6.5.5)

SWING-ACTIVATED EYE AND EYE/FACE WASHES



KEY FEATURES

- Chrome-plated brass pipe
- Swing-down or swing-over activation
- ½" Inlet
- All items comply with ANSI Z358.1

OVERVIEW

Eyewash or eye/face wash fixtures that are swing activated are often located on lavatory decks that need to be available for a variety of different uses. A swing-activated fixture provides access to an ANSI-compliant fixture, while simultaneously making full use of valuable, yet limited space. Choose from a variety of wall-mounted or deck-mounted designs that swing out of the way when the fixture is in its resting position, but is still accessible for use during an emergency.

EMERGENCY FIXTURE FACTS

ANSI identifies a door as a barrier.
ANSI Z358.1, Appendix B5.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 8

S19-2000

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

For additional safety products typically installed in laboratory applications, please consider:

HORIZONTAL/VERTICAL DRENCH SHOWERS PAGE **9**
PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES PAGE **14**
WALL-MOUNTED EYEWASHES AND EYE/FACE WASHES PAGE **19**

EYEWASHES

S19-270C

- Deck/counter-mounted eyewash
- Swings over sink for easy use
- UL classified to meet ANSI Z358.1



S19-270HD

- Deck/counter-mounted eyewash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1



S19-270HW

- Wall-mounted eyewash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1

S19-280D



- Barrier-free
- Deck/counter-mounted eyewash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1

S19-280W



- Barrier-free
- Wall-mounted eyewash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1

EYE/FACE WASHES

S19-270E

- Deck/counter-mounted eye/face wash
- Swings over sink for easy use
- UL classified to meet ANSI Z358.1



S19-270JD

- Deck/counter-mounted eye/face wash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1



S19-270JW

- Wall-mounted eye/face wash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1

S19-290D

- Barrier-free
- Deck/counter-mounted eye/face wash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1



S19-290W



- Barrier-free
- Wall-mounted eye/face wash
- Swings down over sink for easy use
- UL classified to meet ANSI Z358.1

DECK- AND WALL-MOUNTED EYE AND EYE/FACE WASHES



KEY FEATURES

Chrome-plated brass pipe

Paddle or push down handle activation

1/2" Inlet

All items comply with ANSI Z358.1

FAUCET NOT INCLUDED

OVERVIEW

A variety of laboratory fixtures are available to accommodate traditional and non-traditional installations. Elementary schools, hospitals, universities and research facilities equip their premises with these versatile, yet unique fixtures. Laboratory fixtures may be faucet, deck, wall, or counter-mounted. Bradley offers a diverse variety of fixtures to provide eyewash solutions where space is restricted and safety is of the utmost importance.

EMERGENCY FIXTURE FACTS

The emergency fixture must be on the same level as the hazard.
ANSI Z358.1 Section 5.4.2

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 8

\$19-2000

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

FAUCET-MOUNTED EYEWASH

S19-200B

- One-step activation
- Several adapters included
- UL classified to meet ANSI Z358.1



DECK/COUNTER-MOUNTED

S19-230DT

- Eyewash raised above the counter top
- Stainless steel push handle
- 10" stainless steel bowl
- 1¼" waste
- UL classified to meet ANSI Z358.1

S19-260

- Flush-mounted, stainless steel bowl with eye/face wash
- Push-down activation handle
- 12¾" stainless steel bowl
- 1¼" waste
- UL classified to meet ANSI Z358.1



S19-270B

- Stainless steel push handle
- Eyewash swings 360 degrees
- Right-hand activation
- UL classified to meet ANSI Z358.1



S19-270BL

- Stainless steel push handle
- Eyewash swings 360 degrees
- Left-hand activation
- UL classified to meet ANSI Z358.1

WALL-MOUNTED

S19-240

- Eyewash
- Yellow PVC push handle
- UL classified to meet ANSI Z358.1



S19-240FW

- Eye/face wash
- Yellow PVC push handle
- UL classified to meet ANSI Z358.1

For additional safety products typically installed in laboratory applications, please consider:

HORIZONTAL/VERTICAL DRENCH SHOWERS PAGE 9



PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES PAGE 14



WALL-MOUNTED EYEWASHES AND EYE/FACE WASHES PAGE 19



RECESSED DRENCH SHOWERS, EYE AND EYE/FACE WASHES



KEY FEATURES

SpinTec™ showerhead improves water distribution

Fixtures exceed ANSI-mandated flow rates

Flush-mounted, corrosion-resistant, type 304 stainless steel cabinet

Various modes of activation are available (fully recessed, surface-mounted or pull down handles)

All items comply with ANSI Z358.1

FLOW CONTROLS

In the interest of water conservation, each showerhead features an integral 20 GPM flow control.

This item must be purchased separately for most competing brands.

OVERVIEW

The recessed, corrosion-resistant, brushed stainless steel units offer a sleek, modern look. Frequently installed in hospitals, high schools, universities and laboratories, these fixtures maximize the space available. Many of the fixtures in this category include an integral drain pan, which collects the water run-off from the eyewash and directs it into the drain, encouraging weekly activation.

EMERGENCY FIXTURE FACTS

Emergency fixtures must be activated on a weekly basis and inspected annually.

ANSI Z358.1
Section 4.6.2, 5.5.2, 6.5.2, 7.5.5

SUGGESTED ACCESSORIES

Standard and Explosion-proof Alarm Systems PAGE 43-44

Drench Shower Testers PAGE 77

Other parts and accessories are listed beginning on page 68.

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

\$19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR

BARRIER-FREE, RECESSED DRENCH SHOWERS

S19-125BF

- Fully recessed, push-down, coated stainless steel handle for quick and easy activation
- Extended stainless steel shroud
- UL classified to meet ANSI Z358.1



S19-125SBF

- Same features as S19-125BF, except with stainless steel plate to conceal ball valve
- Surface-mounted, coated stainless steel handle for quick and easy activation
- Extended stainless steel shroud
- UL classified to meet ANSI Z358.1



S19-125FMBF

- Same features as S19-125BF, except with flush-mounted showerhead
- UL classified to meet ANSI Z358.1



S19-125SFMBF

- Same features as S19-125SBF, except with flush-mounted, showerhead
- UL classified to meet ANSI Z358.1



CABINET-MOUNTED SWING-DOWN EYEWASH

S19-270HC

- Activated when arm is pulled down
- Wide access panel in front of unit for easy accessibility and serviceability
- UL classified to meet ANSI Z358.1



S19-270HC

S19-281

- Same features as S19-270HC, except barrier-free
- UL classified to meet ANSI Z358.1



S19-281

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 8

S19-2000

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.

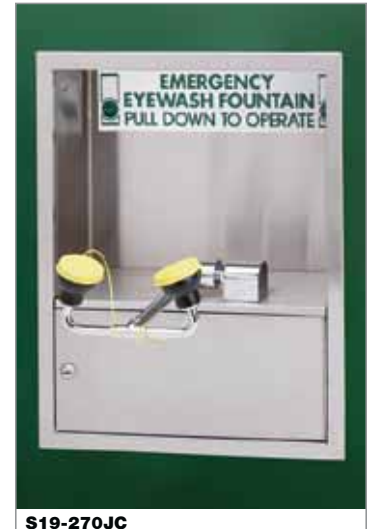


NAVIGATOR

CABINET-MOUNTED SWING-DOWN EYE/FACE WASH

S19-270JC

- Activated when arm is pulled down
- ABS plastic sprayheads
- Wide access panel in front of unit for easy accessibility and serviceability
- UL classified to meet ANSI Z358.1



S19-270JC

S19-291

- Same features as S19-270JC, except barrier-free
- UL classified to meet ANSI Z358.1



EYEWASHES

When the safety risk targets to the eye area, Bradley's eyewashes are the recommended solution for emergency care. The chrome-plated eyewash sprayheads flow at approximately 2.64 gallons per minute, exceeding ANSI's 0.4 GPM flow rate. The flow gently flushes water directly on the eye to wash out contaminants.



EYE/FACE WASHES

When chemicals and other hazardous liquids can contaminate the face and eyes an eye/face wash is the solution. Bradley's eye/face wash heads feature integral flow controls that provide a soft flush of approximately 4.8 gallons per minute. Eye/face washes are considered premium fixtures that exceed ANSI's 3.0 GPM mandate.



BARRIER-FREE, CABINET CONCEALED SWING-DOWN EYEWASH

S19-282

- Concealed, cabinet-mounted eyewash
- Gas spring allows the door to descend in a smooth and controlled manner
- Activated by opening the stainless steel door
- Wide access panel in front of unit for easy accessibility and serviceability
- Bottom-fed emergency TMV may be installed in maintenance compartment below fixture (recommended S19-2000EFX)
- Designed to mount between a 4" wall
- UL classified to meet ANSI Z358.1



S19-282

S19-282PT

- Same features as S19-282, except with P-trap
- UL classified to meet ANSI Z358.1

BARRIER-FREE, CABINET CONCEALED SWING-DOWN EYE/FACE WASH

S19-292

- Concealed, cabinet-mounted eye/face wash
- Gas spring allows the door to descend in a smooth and controlled manner
- Activated by opening the stainless steel door
- Wide access panel in front of unit for easy accessibility and serviceability
- Bottom-fed emergency TMV may be installed in maintenance compartment below fixture (recommended S19-2000EFX)
- Designed to mount between a 6" wall
- UL classified to meet ANSI Z358.1



S19-292

S19-292PT

- Same features as S19-292, except with P-trap
- UL classified to meet ANSI Z358.1

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 8

S19-2000EFX

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes.

A thermostatic mixing valve is needed to mix the hot and cold water supply.

Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



S19-2000EFX for use only with S19-292 and S19-292PT.

NAVIGATOR

BARRIER-FREE, RECESSED DRENCH SHOWER AND EYEWASH

S19-315BF

- Extended, stainless steel shroud
- Fully recessed, push-down, coated stainless steel handle
- Wide access panel in front of unit for easy accessibility and serviceability
- Gas spring allows the door to descend in a smooth and controlled manner
- Designed to mount between a 4" wall
- UL classified to meet ANSI Z358.1



S19-315FBF

- Same features as S19-315BF, except with flush-mounted showerhead
- UL classified to meet ANSI Z358.1



S19-315FPBF

- Same features as S19-315FBF, except with P-trap
- UL classified to meet ANSI Z358.1

S19-315PBF

- Same features as S19-315BF, except with P-trap
- UL classified to meet ANSI Z358.1

DRENCH SHOWERHEADS

Bradley's drench showers are available with either a plastic or stainless steel showerhead.



Recessed flush-mounted showerhead provides smallest footprint in ceiling.



For the most durable showerhead, select stainless steel which stands up to corrosion and aggressive impact.

BARRIER-FREE, RECESSED DRENCH SHOWER AND EYE/FACE WASH

S19-325BF

- Extended, stainless steel shroud
- ABS plastic sprayheads
- Fully recessed, push-down, coated stainless steel handle
- Wide access panel in front of unit for easy accessibility and serviceability
- Gas spring allows the door to descend in a smooth and controlled manner
- Designed to mount between a 6" wall
- UL classified to meet ANSI Z358.1



S19-325FBF

- Same features as S19-325BF, except with flush-mounted, stainless steel showerhead
- UL classified to meet ANSI Z358.1



S19-325FPBF

- Same features as S19-325FBF, except with P-trap
- UL classified to meet ANSI Z358.1

S19-325PBF

- Same features as S19-325BF, except with P-trap
- UL classified to meet ANSI Z358.1

RECOMMENDED EMERGENCY TMV

NAVIGATOR EFX 25

S19-2100

The current ANSI standard calls for emergency eyewashes and drench showers to deliver tepid water (60–100°F/15.5–37.7°C) for 15 minutes. A thermostatic mixing valve is needed to mix the hot and cold water supply. Bradley's Navigator® TMVs are the most reliable emergency TMVs on the market. One valve is required per plumbed unit.



NAVIGATOR



KEY FEATURES

- Reliable, liquid-filled thermostat
- Accurate temperature control to within $\pm 3^{\circ}$
- Dial thermometer
- Checkstops on inlets
- Built-in cold water bypass
- Positive shut-off of hot supply when cold supply is lost
- Dirt and lime resistant
- Factory assembled and tested
- Universal mounting capability
- Valves are preset at 85°F (29°C) and are adjustable from 65°F (18°C) to 95°F (35°C)
- All items comply with ANSI Z358.1

OVERVIEW

Bradley's Navigator® emergency thermostatic mixing valves provide tepid water (60–100°F/15.5°–37.7°C) by mixing cold and hot water to a predetermined temperature. Tepid water encourages injured workers to remain beneath the deluge of water released from the emergency fixture, for the entire ANSI required 15-minute flush. ANSI Z358.1-1998 first required tepid water and the 2004 standard outlined that definition of the temperature range in its appendix. Each Navigator Emergency TMV features a fixed cold-water bypass that will allow cold water to flow should the hot water exceed the predetermined temperature reflecting Bradley's commitment to customers, quality and its dedication to manufacturing quality products that protect your employees.

EMERGENCY FIXTURE FACTS

ANSI requires that an emergency fixture be supplied with tepid flushing fluid between 60–100°F (15.5°–37.7°C).

ANSI Z358.1 Section 7.4.5, Appendix B6

EMERGENCY THERMOSTATIC MIXING VALVES

THERMOSTATIC MIXING VALVES*

S19-2000	8 GPM @ 30 PSI	Accommodates up to three eyewashes or one eye/face wash
S19-2100	36 GPM @ 30 PSI	Accommodates one combination shower with eyewash or multiple eyewashes
S19-2200	67 GPM @ 30 PSI	Accommodates up to two combination showers with eyewashes or multiple eyewashes
S19-2300	125 GPM @ 30 PSI	Accommodates up to three combination showers with eyewashes or multiple eyewashes

* ANSI Standard Z358.1 requires tempered water supply. Ratings provided at 30 PSI, the minimum pressure required by ANSI Z358.1 to be supplied to eyewash, eyeface wash and combination units. Please reference Bradley's Technical Data Sheets for a full listing of flow capacities.

ADDITIONAL PRODUCT OPTIONS

FINISH	
C	Chrome-plated
PIPED ASSEMBLY	
P*	Piped assembly with inlet and outlet shutoff
CABINETS	
SS	Surface-mounted stainless steel
RS	Recessed stainless steel
SE	Surface-mounted white enamel
RE	Recessed white enamel
W	Plexiglas® window in door

* Option available only on S19-2100 and S19-2200 valves. Standard with cabinet-mounted valves.



FREEZE AND SCALD PROTECTION VALVES

Bradley's freeze and scald protection valves coupled with Navigator tempering systems serve an important role. Although the tempering system supplies the fixture with tepid water, environmental conditions may cause the water to freeze or become scalding hot. To ensure the fixture is ready to use and the water is safe for your employees at all times, consider the addition of a freeze or scald protection valve, to bleed off water in extreme temperatures.

FREEZE PROTECTION VALVES*

S45-1986

- For use with eyewashes

S45-1987

- For use with drench showers

* Classic combination fixtures require one each of S45-1986 and S45-1987.

Halo combination fixtures only require one S45-1986.



SCALD PROTECTION VALVES*

S45-1989

- For use with eyewashes

S45-1990

- For use with drench showers

* Classic combination fixtures require one each of S45-1989 and S45-1990.

Halo combination fixtures only require one S45-1989.



This guide serves as a supplement to the ANSI Z358.1-2009 standard.

Self-Contained Eyewash Fixtures

- Eyewash unit delivers a minimum of .4 GPM for 15 minutes. (Section 5.3.2)
- Valve mechanism opens in one second or less; it stays open until manually closed. (Section 5.3.2)
- Supply with flushing fluid, (“potable water, preserved water, preserved buffered saline solution or other medically acceptable solution...”) (Definitions, Section 5.1.1)
- Locate 10 seconds or 55 feet from contaminants or hazardous materials. Locate on same plane as the hazard, free of obstructions. (Sections 5.4.2, Appendix B5)
- Use a flow meter to test flow rate; use a test gauge to test flow pattern. (Section 5.4.7)
- ❄️ • Frigid conditions require the installation of freeze protection equipment. (Section 5.4.5)



Front view



Top down view

- Required to be free of obstructions a minimum of 6" from the outside of the eyewash sprayheads. (Sections 5.4.4)



6"
(15.2 cm)
(Sections 5.4.4)

Distance from floor
33–45"
(83.8–114.3 cm)
(Section 5.4.4)

- Use a Bradley test gauge (Model 269-1444) to check flow pattern.



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15-MINUTE FLUSH

Compliant fixtures release a continuous flow of tepid flushing fluid for a minimum of 15 minutes. (Sections 5.1.6, 5.4.5, 5.4.6)

TEPID WATER

Tepid water (lukewarm):

- 60 – 100°F
- 15.6 – 37.8°C

Encourages full 15-minute flush or until medical personnel arrive. (Definitions, Section 5.4.6, Appendix B6)

THIRD-PARTY CERTIFICATIONS

Manufacturers may have their safety fixtures independently evaluated by a third-party testing organization. Look for certification when selecting a compliant fixture. (Definitions)

WEEKLY ACTIVATIONS

Flush lines and test by activating weekly. Inspection tags are often included with fixtures to document testing and to satisfy a safety audit. (Section 5.5.2)

ANNUAL INSPECTIONS

ANSI recommends a comprehensive annual inspection of the facility to evaluate modified work space, assess new hazards introduced into the area, and to identify fixtures needing replacement or repair. (Section 5.5.5)

ON-SITE® PORTABLE GRAVITY-FED EYEWASHES



KEY FEATURES

Transparent tank allows solution level to be checked easily

High-visibility yellow, molded pedestal and tank

Vandal-resistant, patented design

7 gallons (60 lbs.) provides full 15-minute flush

Heater jacket available to prevent freezing

Complies with ANSI Z358.1

One-year warranty

OVERVIEW

The On-Site (S19-921) portable eyewash is the most innovative gravity-fed eyewash currently on the market. Employing a patented design, the On-Site is the only eyewash on the market that uses just seven gallons of water combined with eight ounces of preservative that provides a full 15-minute flush, at the ANSI-mandated flow rate and maintains a consistent height throughout the spray pattern until the last drop of liquid is depleted from the tank. The clear yellow polycarbonate tank offers an exclusive vandal-resistant design that makes worker safety a priority.

EMERGENCY FIXTURE FACTS

ANSI requires the visual inspection of self-contained eyewashes to be certain the tank is full and ready for use.

ANSI Z358.1 Section 5.5.3

Ideal for locations where a plumbed water source is not available.

ON-SITE® PORTABLE GRAVITY-FED EYEWASH

S19-921

- Hinged eyewash tray activates in one quick motion
- Stainless steel clamps secure the tank during transport
- Vandal-resistant unit; foreign objects cannot be introduced into tank because all openings are sealed once the tank is installed
- Seven-gallon tank is one of the lightest portable eyewashes on the market
- UL classified to meet ANSI Z358.1



S19-921

Includes:

- Wall bracket (can also deck mount)

ON-SITE HEATER JACKET RETROFIT KIT

S19-921HR

- Heater jacket ships attached to tank
- No tools required

ON-SITE WASTE CART

S19-399

- High-visibility yellow
- Captures used fluid, 56-gallon capacity
- Tapered sump, easy to drain



S19-399

ON-SITE EYEWASH AND HEATER JACKET

S19-921H

- Protects against freezing; down to -10°F (-23.3°C)
- Insulated heater jacket conceals a 121-watt heater
- Secondary thermostat prevents overheating if primary thermostat fails
- Requires 120-volt AC line
- UL classified to meet ANSI Z358.1



S19-921H

ON-SITE WATER PRESERVATIVE KIT

S19-949

- Replacement cap
- Nine liners
- Inspection tag



S19-949

ON-SITE FOAM LINER

269-1379

- Perforated foam liner
- Sold individually

PORTABLE PRESSURIZED EYEWASHES



KEY FEATURES

Built-in carrying handles

Tire filler valve with
0 – 160 PSI air gauge

Pressure relief valve
to prevent over
pressurization

8' drench hose
(unless otherwise
specified)

Chrome-plated
brass eyewash

All items comply with
ANSI Z358.1

OVERVIEW

Looking for a portable eyewash that will withstand corrosive materials in isolated locations, can be used on trucks or areas without plumbing that require a 15-minute flush? Bradley's stainless steel portable pressurized tanks resist corrosion, and offer several options for customers that are looking for an eyewash with a drench hose, or even a tank outfitted with a heater jacket to prevent freezing. Portable pressurized tanks are a versatile, corrosion-resistant solution, to provide an ANSI-compliant fixture in remote or non-plumbed locations.

Portable pressurized fixtures balance the volume of water with a predetermined amount of pressure to maximize the time and volume of solution that provides a flush. The portable pressurized eyewash offers the convenience of a portable unit, is sold in a range of sizes, and the heater jacket option offers flexibility to handle a wide range of applications.

EMERGENCY FIXTURE FACTS

ANSI guidelines require that emergency fixtures supply potable water, preserved water, preserved buffered saline solution, or an alternative medically accepted solution.

ANSI Z358.1

Section 3, Definitions

5-GALLON UNITS

- Eyewash flow: 8 minutes
- Drench hose flow: 2.5 minutes
- Meets ANSI criteria as a personal wash station only

S19-670

- Drench hose, no eyewash

S19-671

- Eyewash only, no drench hose

S19-671H

- 280-watt heater
- Eyewash only



S19-671

S19-672

- Eyewash with drench hose
- UL classified to meet ANSI Z358.1



S19-672

10-GALLON UNITS

- Eyewash flow: 15 minutes
- Drench hose flow: 3.5 minutes
- UL classified to meet ANSI Z358.1

S19-690

- Eyewash with drench hose
- UL classified to meet ANSI Z358.1

S19-690LHS

- Eyewash only, no drench hose
- UL classified to meet ANSI Z358.1

S19-690H

- Jacket prevents freezing
- 510-watt heater
- Eyewash only
- UL classified to meet ANSI Z358.1



S19-690LHS



S19-690H

15-GALLON UNITS

- Eyewash flow: 18 minutes
- Drench hose flow: 5 minutes
- UL classified to meet ANSI Z358.1

S19-788

- Eyewash and drench hose
- UL classified to meet ANSI Z358.1

S19-788LHS

- Eyewash only, no drench hose
- UL classified to meet ANSI Z358.1

S19-788H

- Jacket prevents freezing
- 510-watt heater
- Eyewash only
- UL classified to meet ANSI Z358.1



S19-788

HEATER JACKET RETROFIT KITS FOR PORTABLE PRESSURIZED EYEWASHES

- Jackets intended to prevent freezing; not to be used on fixtures with drench hose
- UL-listed components
- Plug into 120-volt AC line GFCI recommended
- Secondary thermostat prevents overheating

S19-671HR

- Jacket for 5-gallon tank

S19-690HR

- Jacket for 10-gallon tank

S19-788HR

- Jacket for 15-gallon tank

OPTIONAL CART

S19-690A

- Four-wheel, stainless steel transport cart
- For use with fixtures without a heater jacket



FOOT TREADLE KITS

S39-395

- Includes all necessary fittings for attaching to wall-mounted eyewashes for hand or foot operation



S45-572

- Includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers for hand or foot operation



S45-620

- Same as S45-572, except designed for S19-310PVC shower only

S45-1314SS

- Stainless steel 304 foot treadle that includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers/eyewashes for hand or foot operation

S45-1314SS16

- Stainless steel 316 foot treadle that includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers/eyewashes for hand or foot operation

FOOT TREADLE KITS

S45-1544

- Aluminum foot treadle kit for European models

EYEWASH HANDLE, BALL VALVE AND HARDWARE

S30-070

- Stainless steel handle
- Hardware
- ½" NPT stay-open ball valve



S30-072

- Stainless steel handle
- Hardware
- ½" NPT stay-open ball valve
- For stainless steel hinged dust covers only

S30-074

- Left-hand activation conversion kit for pedestal-mounted or combination fixtures
- Stainless steel handle
- Hardware
- ½" stay-open ball valve

S45-122

- Plastic handle
- Hardware
- ½" NPT stay-open ball valve



EYEWASH HANDLE AND HARDWARE ONLY

128-135

- Plastic handle only

S08-336

- Stainless steel handle only
- Vertical valve applications only

S08-338

- Stainless steel handle only
- Horizontal valve applications only

S30-071

- Stainless steel handle
- Hardware

S30-075

- Left-hand activation conversion kit for pedestal-mounted or combination fixtures
- Stainless steel handle
- Hardware
- For S19-270BL eyewash only

S30-087

- Stainless steel handle
- Hardware
- For stainless steel hinged dust covers only

S45-123

- Plastic handle
- Hardware

EYEWASH BALL VALVES ONLY

S27-282

- ½" brass NPT stay-open ball valve only

S27-287

- ½" stainless steel NPT stay-open ball valve

DRENCH SHOWER BALL VALVES

S27-276

- Stainless steel 1" ball valve only

S27-278

- Chrome-plated brass 1" ball valve only

S30-059

- Chrome-plated brass 1" ball valve with lever



S30-059

SELF-CLOSING BALL VALVE

S19-001VV

NOTE: Self-closing ball valves are not ANSI Z358.1 compliant. Appendix B3.

However, an exception may be made in a "school laboratory situation." Contact local authorities regarding specific application.

ON-SITE WATER PRESERVATIVE KIT

S19-949

- Replacement cap
- Nine liners
- Inspection tag



S19-949

ON-SITE FOAM LINER

269-1379

- Perforated foam liner
- Sold individually

SPRAYHEAD ASSEMBLIES

S05-135

- Includes orange flow control
- 2.4 GPM flow control inside each head; total flow from both heads is 4.8 GPM
- Eye/face wash sprayhead only (sold individually)



S05-135

S39-394

- Eyewash head assembly with supply stem



S39-394

S39-396

- Eye/face wash sprayhead assembly with supply stem



S39-396

S39-681

- Eye/face wash sprayhead assembly
- Stem not included

S39-682

- Eye/face wash assembly
- For use with PVC unit only
- Stem not included

187-320

- Plastic bowl



187-320

S05-190

- Sprayhead assembly



S05-190

S05-192

- Sprayhead assembly



S05-192

S08-390

- Handle kit



S45-2675

S45-2675

- Eyewash cover kit



S45-2675

S45-2676

- Eye/Face wash cover kit



S45-2676

S65-339

- O-ring and screen



S65-339

S88-068

- O-ring screen and flow control



S88-068

S90-388

- Stainless steel bowl cover kit



S90-388

S90-390

- Plastic bowl cover kit



S90-390

S90-391

- Stainless steel bowl kit



S90-391

S90-392

- Stainless steel bowl kit
- 316 stainless steel

SPRAY RING ASSEMBLIES

S05-127

- Spray ring only
- Can only be added to eyewash with cross-connection yoke

S39-397

- Eyewash and spray ring assembly with supply stem



DUST CAPS

107-371

- Dust caps only
- Sold individually; two required per eyewash
- Approximately 1" x 1"
- Yellow plastic tether



S53-063

- Dual eye/face wash dust caps only
- Sold individually; two required per eyewash
- 2¼" x 1"
- Beaded chain tether



S53-310

- Eyewash dust cap
- Sold individually; two required per eyewash
- 1" x 1"
- Not for use with portable pressurized tank eyewashes



DRENCH HOSE SPRAY KITS

- Includes all necessary fittings and hanger for attaching hose to Bradley units to provide a body water drench

S19-430EH

- Drench hose spray kit that attaches to eyewashes



S19-430SH

- Drench hose spray kit for use with drench showers



DRENCH HOSE REPLACEMENT PART VALVES

S39-817

- Replacement valve with drench hose sprayhead



HOSES

S89-002

- 8' yellow thermoplastic hose

S89-003

- Plastic handle
- 6' stainless steel hose



269-053

- 12' yellow thermoplastic hose
- Recoiling

269-054

- 25' yellow thermoplastic hose
- Recoiling

HOSE GUIDE BRACKET

140-226

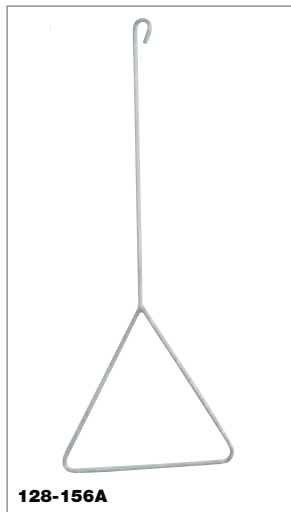
- Drench hose guide bracket
- For deck-mounted applications



DRENCH SHOWER HANDLE FOR STANDARD UNITS

128-156A

- 25 1/2" pull rod only
- Standard pull rod shipped with non-barrier-free showers



128-156B

- 36" pull rod only

DRENCH SHOWER HANDLE FOR BARRIER-FREE UNITS

128-156C

- 48" pull rod only

128-156D

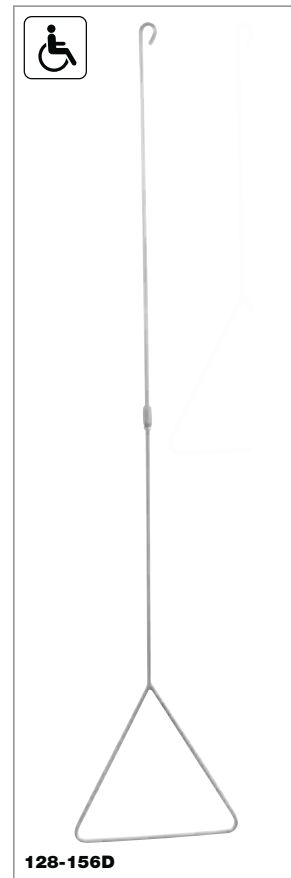
- 45 1/2" pull rod only
- Standard pull rod shipped with barrier-free showers

128-156E

- 57" pull rod only

128-156F

- 69" pull rod only



DRENCH SHOWER HANDLE FOR HEAT TRACE UNITS

128-156G

- 27" pull rod only

BOWLS

154-058

- 10" diameter impact-resistant plastic eyewash bowl



187-053

- 10 3/4" diameter stainless steel eyewash bowl



SPINTEC™ SHOWERHEAD RETROFIT KITS

- Universal retrofit kits include all items shown

S24-192

- Ornamental plastic shroud with ring – showerhead nozzle not included



S24-192

S24-193

- Ornamental stainless steel shroud with ring – showerhead nozzle not included



S24-193

S24-194

- Showerhead nozzle and 90° elbow



S24-194

S24-195

- Ornamental plastic shroud with ring, showerhead nozzle and 90° elbow



S24-195

S24-196

- Ornamental stainless steel shroud with ring, showerhead nozzle and 90° elbow



S24-196

S24-200

- 304 Stainless steel showerhead



S24-200

S24-202

- In-ceiling recessed showerhead, with 5 7/8" white steel shroud, includes 90° elbow



S24-202

154-147

- Ring only

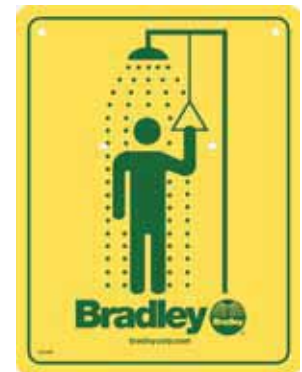


154-147

SAFETY SIGNS

114-050

- Drench shower sign



114-050

114-051

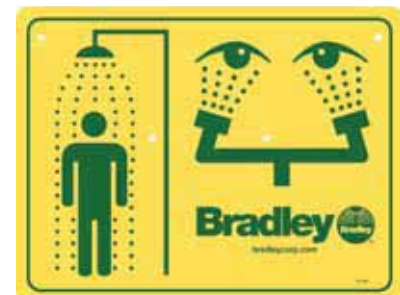
- Eyewash sign



114-051

114-052

- Combination shower and eyewash sign



114-052

CLASSIC STEM ASSEMBLIES

SPRAYHEAD ASSEMBLY	GALVANIZED FIXTURE WITH PLASTIC BOWL	GALVANIZED FIXTURE WITH STAINLESS STEEL BOWL	STANDARD STAINLESS STEEL FIXTURE	316 STAINLESS STEEL FIXTURE	
Eyewash Only	S21-071 113-1185	S21-071 113-1159	S21-072 113-1159	S21-075 113-1159	<ul style="list-style-type: none"> • Spacer 113-1159 or 113-1185 is required for units that shipped on or before 11/2/2005. • Assemblies include stem and appropriate flow control. • Stems S21-036 and S21-050 are obsolete.
Eye/Face Wash with Spray Ring	S21-073 113-1185	S21-073 113-1159	S21-074 113-1159	None	
Eye/Face Wash with Dual Black Heads	113-1150	113-1150	113-1151	None	

SPACERS

113-1159

- Stainless steel stem spacer
- For use in fixtures with stainless steel bowl



113-1185

- Black plastic stem spacer
- For use in fixtures with yellow plastic bowl



STEMS

EYEWASH FIXTURES ONLY

- S21-071 Brass
- S21-072 SS304



EYEWASH WITH SPRAY RING FIXTURES ONLY

- S21-073 Brass
- S21-074 SS303
- S21-075 SS316



REPLACEMENT PARTS/ACCESSORIES

EYEWASH FLOW RESTRICTORS

125-164

- 2.58 GPM flow restrictor
- Lime green
- For eyewash only
- Stem not included



125-167

- 3.7 GPM flow restrictor
- Pink
- For eyewash with face spray ring
- Stem not included



MISCELLANEOUS SUPPLIES

269-964

- Safety yellow touch-up paint
- 12-oz. aerosol



204-421

- Inspection tag
- Sold individually



269-1444

- Eyewash test gauge



RETROFIT CLASSIC DUST COVERS

S45-1964

- Compatible with any Bradley plastic eyewash bowl
- Fixture not included



S45-1964

S45-2396

- For use with any Bradley eyewash bowl
- Includes welded stainless steel clam shell cover, stainless handle with teather and quick release pin



S45-2396

PRIVACY CURTAIN

S19-330

- Universal mounting
- Waterproof, 3-ply reinforced vinyl laminate
- Chemical and mildew resistant
- Curtain
 - Color: high-visibility yellow
 - Dimensions: 70"L x 145"W
- Curtain rail and mounting brackets
 - Stainless steel corrosion resistant
 - Rail dimensions: 1½" x 42" diameter
- For a model compatible with barrier-free fixtures, contact Bradley for more information
- Not compatible with PVC or heat trace units



S19-330

RETROFIT DRENCH HOSES

S19-430EH

- Single head drench hose
- Retrofits to most eye or eye/face wash fixtures
- UL classified to meet ANSI Z358.1



S19-430EH

S19-430SH

- Single head drench hose
- Retrofits to most drench showers or combination units
- UL classified to meet ANSI Z358.1



S19-430SH

DRENCH SHOWER TESTER

S19-330ST

- Heavy-duty tester for required weekly activation
- Water-tight funnel with weighted bottom
- Dimensions: 84" long
- 8' telescoping aluminum handle
- Includes testing record cables



S19-330ST

SHOWER ACCESSORIES/ STANDARD SPECIFICATIONS

FREEZE PROTECTION KITS

S45-1986 S45-1987

- Completely open at 35°F (1.6°C) and closes at 45°F (7.2°C)
- Both the S45-1986 (for eyewashes) and S45-1987 (for drench showers) are required for combination fixtures
 - Call Bradley for more information
- Fittings supplied



S45-1987

SCALD PROTECTION KITS

S45-1989 S45-1990

- Completely open at 105°F (40.5°C) and closes at 85°F (29.4°C)
- Both the S45-1989 (for eyewashes) and S45-1990 (for drench showers) are required for combination fixtures
 - Call Bradley for more information
- Fittings supplied



S45-1989

FOOT TREADLE KITS

S39-395

- Includes all necessary fittings for attaching to wall-mounted eyewashes for hand or foot operation

S45-572

- Includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers for hand or foot operation



S45-572

S45-620

- Same as S45-572, except designed for S19-310PVC shower only

S45-1314SS

- Stainless steel type 304 foot treadle that includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers/eyewashes for hand or foot operation

S45-1314SS16

- Stainless steel type 316 foot treadle that includes all necessary fittings for attaching to Bradley pedestal-mounted eyewashes and combination showers/eyewashes for hand or foot operation

S45-1544

- Aluminum foot treadle kit for European models

STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS - HALO S19214, S19224 & S19314 SERIES

EYEWASH BOWL

- 14" corner to corner, yellow impact-resistant plastic, Type 304 corrosion-resistant stainless steel or Type 316 corrosion-resistant stainless steel

SPRAYHEAD ASSEMBLY

All sprayhead assemblies include flow control to assure safe, steady water flow under varying water supply conditions (up to 90 PSI) and flip-top protective spray covers

HALO EYEWASH

- ABS plastic soft-flow sprayheads designed to gently cleanse the eyes
- Exceeds minimum water flow: 0.4 GPM at 30 PSI
- Flip-open dust covers that open automatically when unit is activated
- Self-draining design eliminates standing water

HALO EYE/FACE WASH

- ABS plastic soft-flow sprayheads designed to gently cleanse the eyes and face
- Exceeds minimum water flow: 3.0 GPM at 30 PSI
- Flip-open dust covers that open automatically when unit is activated
- Self-draining design eliminates standing water

SPINTEC™ SHOWERHEAD

- 3.1" diameter

- Uniform distribution of water
- Integral flow control provides a minimum of 20 GPM

ANSI COMPLIANCE

- Unless otherwise indicated, all units comply with the ANSI Z358.1 2009 standard

EYEWASH VALVE

½" stay-open eye and eye/face wash valve manufactured of the following materials and supplied with either type 304 or 316 stainless steel handle that can be activated from both the left and right side of the unit:

- Chrome-plated brass
- Type 316 stainless steel

SHOWER VALVE

1" stay-open eye and eye/face wash valve manufactured of the following materials and supplied with either type 304 or 316 stainless steel pull rod:

- Chrome-plated brass
- Type 316 stainless steel

PIPE AND FITTINGS

¼" piping assembly manufactured of one of the following materials:

- Galvanized steel with BradTect® safety yellow coating
- Type 304 corrosion-resistant stainless steel
- Type 316 corrosion-resistant stainless steel
- Chrome-plated red brass.

WATER SUPPLY

- Wall-mounted and pedestal-mounted: ½" NPT female

WASTE

- Eyewash: ¼" NPT female drain fitting

TRANSPARENT PLASTIC OR STAINLESS STEEL DUST COVER

- Protects entire bowl to keep contaminants, dust, and other debris from eyewash area
- Dust cover opens when push handle is activated
- Constructed of transparent yellow impact-resistant plastic, type 304 corrosion-resistant stainless steel or type 316 corrosion-resistant stainless steel.

ADDITIONAL FEATURES

- Eyewash mounting:
 - Heavy-gauge aluminum with four clearance holes for wall mounting (hardware not included)
 - All units are barrier free when mounted at the correct height
- Separate supply and waste, eliminates cross contamination risk
- Contains an antimicrobial agent to protect the sprayhead
- UL recognized to meet the ANSI Z358.1 2009 Standard

STANDARD SPECIFICATIONS - CLASSIC MODELS *(exceptions noted)*

EYEWASH BOWL

- 10" diameter, yellow, impact-resistant plastic or corrosion-resistant stainless steel

SPRAYHEAD ASSEMBLY

All sprayhead assemblies include flow control to assure safe, steady water flow under varying water supply conditions (up to 90 PSI) and pop-off protective spray covers

Eyewash

- Chrome-plated brass, soft-flow sprayheads designed to gently cleanse the eyes – stainless steel where specified
- Exceeds minimum water flow: 0.4 GPM at 30 PSI

Eye/Face Wash, Dual Sprayheads

- Contains an antimicrobial agent to protect the sprayhead
- ABS plastic perforated disc sprayheads designed to gently cleanse the eyes and face
- Exceeds minimum water flow: 3.0 GPM at 30 PSI

Face Spray Ring

- Chrome-plated, circular spray ring designed with a wider spray pattern for full face spray

SpinTec SHOWERHEAD

- Yellow, impact-resistant plastic or corrosion-resistant stainless steel
- 3.1" diameter
- Uniform distribution of water
- Integral flow control provides a minimum of 20 GPM

DRENCH HOSE

- 8' yellow, reinforced thermoplastic hose (unless otherwise specified)
- 450 PSI burst strength
- Recoiling hose (where specified) retracts for storage while allowing easy extension in emergency situations

ANSI COMPLIANCE

- Unless otherwise indicated, all units comply with the ANSI Z358.1-2009 standard

DRENCH HOSE SERIES S19-430 THRU S19-630 SPECIFICATIONS

DRENCH HOSE VALVE

Chrome-plated valve with extended reinforced handle remains open once handle is squeezed.

- S19-630: Uses a ½" NPT chrome-plated brass, stay-open ball valve operated by a stainless steel push handle

WATER SUPPLY

- Drench hoses: 3/8" NPT male thread with removable ½" NPT female reducing coupling

SERIES S19-921 ON-SITE® GRAVITY-FED EYEWASHES

ON-SITE GRAVITY-FED EYEWASH

Can be mounted on a wall or deck. Stainless steel bracket included for wall mounting. Molded handle design for easy transportability. Should be placed in a fixed location when completely assembled and filled with fluid.

- Seven-gallon fill capacity
- Easy to clean, refill, and check solution

STANDARD SPECIFICATIONS

- Meets 15-minute minimum flushing requirement at 0.4 GPM
- Transparent yellow, polycarbonate tank – visual reminder when it is time to clean or refill the tank
- Blow-molded design prevents leakage
- Opaque yellow, polypropylene pedestal with hinged eyewash tray
- Eyewash tray pulls down in one quick motion – water flow is activated by this motion
- Removable tank is inverted onto the pedestal, piercing a liner
- Weighs 23 lbs. when empty and 60 lbs. filled

ON-SITE WASTE CART

Utilized with the Gravity-Fed Eyewash product.

- High-visibility yellow, polyethylene with 56-gallon capacity
- Captures used fluid from unit
- Tapered sump allows for easy drainage

GRAVITY-FED HEATER JACKET

- 121-watt heater enclosed in an insulated jacket
- Secondary thermostat with warning light and manual reset button helps prevent overheating in case of primary thermostat failure
- Requires 120-volt AC line
- All UL-listed components

GRAVITY-FED WATER PRESERVATIVE

- Prevents bacteria, fungi, and algae growth for up to four months when utilized according to package directions
- Mixes with potable water – see directions for dilution requirements
- Can be used with any portable eyewash unit (plastic or stainless steel)

DRENCH SHOWER SERIES S19-110 THRU S19-130 AND COMBINATION UNITS SERIES S19-310 SHOWER SPECIFICATIONS

SHOWER VALVE

1" NPT chrome-plated brass, stay-open ball valve operated by a stainless steel pull rod with triangular handle.

- Barrier-free pull rod extends to 48" from floor
- S19-130F and S19-120G
 - Cord operated with self-closing ball valve
 - Not compliant with ANSI Z358.1-2009

PIPE AND FITTINGS

Standard: Galvanized steel pipe protected with BradTect yellow coating (unless otherwise specified).

- Vertical/horizontal shower: 1" pipe
- Freestanding shower, combination units: 1¼" pipe
- PVC combination shower: 2" Schedule 80

WATER SUPPLY

- Vertical/horizontal shower: 1" NPT female
- Freestanding shower, combination and barrier-free units: 1¼" NPT female

DRENCH SHOWERS SERIES S19-110HFP AND 120HFP; EYEWASH SERIES S19-210HFP AND 220HFP; COMBINATION SERIES S19-310HFP, 310NN, 310NNS, 310TW FROST-PROOF UNITS

EYEWASH BOWL/SPRAYHEAD/SHOWERHEAD

- See standard specifications

THROUGH WALL UNITS

- Standard option is 8-12" wall thickness
- 0-8" and 13-18" offered as special orders

BELOW-THE-GROUND BURY DEPTHS

- Standard is 36"
- 18," 48," 60" and 72" offered as special orders

VALVE

- 1" NPT chrome-plated brass, stay-open ball valve is hand operated by a stainless steel handle

PIPE AND FITTINGS

- 1¼" galvanized steel pipe protected by BradTect yellow coating (unless otherwise specified)

WATER SUPPLY

- ½" NPT female (model S19-220HFP)
- 1" NPT female (model S19-120HFP)
- 1¼" NPT female (all other models)

EYEWASH SERIES S19-200 THRU S19-270JC; COMBINATION UNITS SERIES S19-310 PLUMBED EYEWASH SPECIFICATIONS

EYEWASH VALVE

½" NPT chrome-plated brass, stay-open ball valve operated by a high-visibility yellow PVC or stainless steel (where specified) push handle.

- Faucet-mounted unit:
 - Activates when water is turned on at faucet and activator pin on eyewash is pulled toward user
 - Applied water pressure keeps activator pin open
 - Faucet will maintain normal operation for hand washing, etc. when activator pin is closed
- Swing-activated units (where indicated):
 - The swinging motion of the unit operates eyewash valve – no additional handle is required

PIPE AND FITTINGS

Standard: Galvanized steel pipe protected with BradTect yellow coating (unless otherwise specified); laboratory and swing-activated units are primarily chrome-plated brass.

- Wall-mounted eyewash, laboratory eyewash: ½" pipe
- Pedestal eyewash: 1¼" pipe

WATER SUPPLY

- Wall-mounted, pedestal-mounted, swing-activated eyewash: ½" NPT female
- Laboratory: ½" NPT (unless otherwise specified)

WASTE

- Eyewash: Dome-type strainer and 1¼" NPT female drain fitting with tailpiece (P-trap to conform to local codes by others unless otherwise specified)

HINGED STAINLESS STEEL DUST COVER

- Protects entire bowl to keep contaminants, dust, and other debris from eyewash area
- Dust cover springs open when push handle is activated

ADDITIONAL FEATURES

- Eyewash wall bracket:
 - Heavy-gauge aluminum with three clearance holes for wall mounting (hardware not included)
 - Barrier-free unit is stainless steel with four clearance holes for wall mounting
- S19-220BF stainless steel, wrap-around skirt:
 - 10" diameter corrosion-resistant stainless steel
 - Conceals plumbing – unit extends 20" from wall

SERIES S19-300 HEAT TRACED SHOWERS**SHOWERHEAD/SPRAYHEADS**

- See standard specifications

SHOWER VALVE

- 1" NPT chrome-plated brass, stay-open valve is operated by a stainless steel pull rod with triangular handle

EYEWASH VALVE

- ½" NPT chrome-plated brass, stay-open valve hand operated by a stainless steel handle

PIPE AND FITTINGS

- 1¼" galvanized steel

ELECTRIC HEAT TRACE CABLE*

- Wraps around pipe, cable is self-regulated to 50°F (10°C) to protect against overheating and cold spots
- Thermal rating: 5 watts/foot
- Service voltage: 120-volt AC or 240-volt AC
- Amperage/wattage: .7 amp/80 watts at 50°F (10°C) unit water temperature

PIPE INSULATION

- ¾" polyethylene closed cell encases pipe and heat trace cable
- Vertical semi-split allows insulation to be easily removed and re-assembled

PROTECTIVE OUTER SHELL

- UV-stabilized ABS plastic
- Four easy-to-remove sections
- Designed for quick repairs and maintenance
- Sealed with flexible vinyl trim for added weather protection
- Resists chemical and other harsh environments

FREEZE PROTECTION VALVE

- Continual flow of water when internal temperatures drop below 35°F (2°C)
- Valve closes at 45°F (7°C)
- Max pressure rating of 200 PSI

THERMOSTAT*

- Opens at 64°F (18°C) and closes at 54°F (12°C)

JUNCTION BOX

- Four-hub aluminum accepts ¾" NPT conduit

WATER SUPPLY

- 1¾" NPT male top or bottom supply

*Standard specification components are rated Class 1, Division 2, Groups B, C, and D explosion proof. Electrical components are UL listed. A unit rated Class 1, Division 1, Groups C, and D explosion proof is also available.

SERIES S19-670 THRU S19-788 PRESSURIZED STAINLESS STEEL EYEWASH TANKS**EYEWASH SPRAYHEAD/DRENCH HOSE**

- See standard specifications
- Available in 5-, 10-, and 15-gallon capacities. Built-in carrying handles and resilient bottom. Tire filler valve with 0-160 PSI (0-1100 kPa) air gauge. Pressure relief valve prevents accidental over pressurization.

NOTE: Do not exceed 130 PSI tank pressurization.

PORTABLE HEATED UNITS

- Secondary thermostat with manual reset button helps prevent overheating in case of primary thermostat failure
- Plugs into any 120-volt AC line
- All UL listed components.
- 10- and 15-gallon units provide 15 minutes of tempered water flow from eyewash
- GFCI recommended

The Technical Data summarizes product features and components. Specification information is supplied as well as detailed information regarding standard equipment and options available. Dimensional information for the product is also provided on the Tech Data along with general application guidelines.

Each Installation Instruction provides the detailed information required for installing and maintaining your product. Shipped along with every product ordered, this document covers pre-installation information including rough-in requirements (where applicable), additional supplies required, and a list of components included with your product. Step-by-step instructions are supplied for assembly, along with a detailed parts breakdown which facilitates the quick identification of parts for service or replacement.

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HALO VS CLASSIC CROSS REFERENCE MODEL NUMBERS

	CLASSIC MODEL NO.	FORMER HALO MODEL NO.	NEW HALO NO.
PEDESTAL-MOUNTED EYEWASHES			
Eyewash, plastic bowl	S19-210	S192140A1AAA00	S19214EW
Eyewash, stainless steel bowl	S19-210B	S192140A1ADA00	S19214B
PEDESTAL-MOUNTED EYEWASHES WITH HINGED DUST COVER			
Eyewash, plastic bowl w/ dust cover	N/A	S192140A1ABA00	S19214PDC
Eyewash, stainless steel bowl & hinged dust cover	S19-210DC	S192140A1AEA00	S19214DC
PEDESTAL-MOUNTED EYE/FACE WASHES			
Eye/face wash, plastic bowl	S19-210FW	S192140A1BAA00	S19214FW
Eye/face wash, stainless steel bowl	S19-210Y	S192140A1BDA00	S19214Y
Eye/face wash, stainless steel bowl w/spray ring & 8' hand-held drench hose	S19-210P	S192140A1BDAD0	S19214P
Eye/face wash, stainless steel bowl, hand/foot operated	S19-210YF	S192140A1BDC00	S19214YF
BARRIER-FREE, PEDESTAL-MOUNTED EYE/FACE WASHES			
Eye/face wash, barrier-free, stainless steel bowl	S19-210BF	S192140A1BDA00	S19214Y
PEDESTAL-MOUNTED EYE/FACE WASHES WITH HINGED DUST COVER			
Eye/face wash, plastic bowl w/ dust cover	N/A	S192140A1BBA00	S19214PDCFW
Eye/face wash, stainless steel bowl & hinged dust cover	S19-210DCFW	S192140A1BEA00	S19214DCFW
CHROME-PLATED BRASS FINISH PEDESTAL-MOUNTED EYEWASHES			
Eyewash, chrome-plated brass piping & stainless steel bowl	S19-210U	N/A	
ALL STAINLESS STEEL PEDESTAL-MOUNTED EYEWASHES AND EYE/FACE WASHES			
Eyewash, all stainless steel, corrosion-resistant	S19-210BSS	N/A	
Eyewash, all stainless steel with hinged dust cover	S19-210SC	N/A	
Eye/face wash w/spray ring; all stainless steel, corrosion-resistant, hand/foot operated	S19-210SS	N/A	
Eye/face wash, stainless steel bowl w/spray ring, hand/foot operated	S19-210X	N/A	
WALL-MOUNTED EYEWASHES			
Eyewash, plastic bowl	S19-220	S192240A1AAA00	S19224EW
Eyewash, plastic bowl, w/tailpiece & P-trap	S19-220PT	S192240A1AAD00	S19224PT
Eyewash, stainless steel bowl	S19-220B	S192240A1ADAA00	S19224B
Eyewash, stainless steel bowl, with tailpiece & P-trap	S19-220BPT	S192240A1ADAD00	S19224BPT
WALL-MOUNTED EYEWASHES WITH HINGED DUST COVER			
Eyewash, plastic bowl w/ dust cover	N/A	S192240A1ABAA00	S19224PDC
Eyewash, stainless steel bowl & hinged dust cover	S19-220DC	S192240A1AEA00	S19224DC
Eyewash, stainless steel bowl & hinged dust cover, w/tailpiece & P-trap	S19-220DCPT	S192240A1AEAD00	S19224DCPT
WALL-MOUNTED EYE/FACE WASHES			
Eye/face wash, plastic bowl	S19-220FW	S192240A1BAAA00	S19224FW
Eye/face wash, plastic bowl, w/tailpiece & P-trap	S19-220FWPT	S192240A1BAAD00	S19224FWPT
Eye/face wash, stainless steel bowl	S19-220T	S192240A1BDAA00	S19224T
Eye/face wash w/spray ring, stainless steel bowl, 8' hand-held drench hose	S19-220P	S192240A1BDAAD0	S19224P
Eye/face wash, stainless steel bowl, w/tailpiece & P-trap	S19-220TPT	S192240A1BDAD00	S19224TPT
Eye/face wash w/spray ring, stainless steel bowl, hand/foot operated	S19-220Y	S192240A1BDAA00	S19224Y
WALL-MOUNTED EYE/FACE WASHES WITH HINGED DUST COVER			
Eye/face wash, plastic bowl w/ dust cover	N/A	S192240A1BBAA00	S19224PDCFW
Eye/face wash, stainless steel bowl & hinged dust cover	S19-220DCFW	S192240A1BEAA00	S19224DCFW
Eye/face wash, stainless steel bowl & hinged dust cover, w/spray ring	S19-220DCR	S192240A1BEAA00	S19224DCFW
Eye/face wash, stainless steel bowl & hinged dust cover, w/spray ring, tailpiece & P-trap	S19-220DCRPT	S192240A1BEAD00	S19224DCRPT

HALO VS CLASSIC CROSS REFERENCE MODEL NUMBERS

BARRIER-FREE, WALL-MOUNTED EYEWASHES

Eyewash, barrier-free, plastic bowl (no wrap-around skirt)	S19-220ABF	N/A
Eyewash, barrier-free, stainless steel bowl (no wrap-around skirt)	S19-220BBF	N/A

BARRIER-FREE, WALL-MOUNTED EYE/FACE WASH WITH WRAP-AROUND SKIRT

Eye/face wash w/spray ring, barrier-free, stainless steel bowl & wrap-around skirt	S19-220BF	N/A
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ALL STAINLESS STEEL WALL-MOUNTED EYEWASHES AND EYE/FACE WASHES

Eye/face wash, all stainless steel	S19-220BSS	N/A
Eye/face wash, all stainless steel, w/hinged dust cover & ABS plastic sprayheads	S19-220DCSS	N/A
Eyewash, all stainless steel, w/hinged dust cover	S19-220SC	N/A
Eye/face wash w/spray ring, all stainless steel	S19-220SS	N/A
Eye/face wash, all stainless steel except ABS plastic sprayheads	S19-220TSS	N/A

COMBINATION DRENCH SHOWERS AND EYEWASH UNITS

Eyewash; plastic showerhead & bowl	S19-310	S193140A1AAA00	S19314EW
Eyewash; plastic showerhead & bowl w/hose spray	S19-310P	S193140A1AAA00	S19314P
Eyewash; plastic showerhead, stainless steel bowl	S19-310SB	S193140A1AADA00	S19314SB
Eyewash; stainless steel bowl, hand/foot operated eyewash, plastic showerhead	S19-310LL	S193140A1AAD00	S19314LL
Eyewash; stainless steel bowl & showerhead	S19-310F	S193140A1CADA00	S19314F
Eyewash; stainless steel showerhead & bowl, hand/foot operated eyewash	S19-310UU	S193140A1CAD00	S19314UU

COMBINATION DRENCH SHOWERS AND EYEWASH UNITS WITH HINGED DUST COVER

Eyewash; plastic showerhead & bowl w/ dust cover	N/A	S193140A1ABA00	S19314PDC
Eyewash; stainless steel bowl & hinged dust cover, plastic showerhead	S19-310DC	S193140A1AEA00	S19314DC

COMBINATION DRENCH SHOWERS AND EYE/FACE WASH UNITS

Eye/face wash; plastic bowl & showerhead	S19-310FW	S193140A1ABA00	S19314FW
Eye/face wash; stainless steel bowl, plastic showerhead	S19-310SBFW	S193140A1ABDA00	S19314SBFW
Eye/face wash; stainless steel bowl, plastic showerhead, hand/foot operated	S19-310AC	S193140A1ABDC00	S19314AC
Eye/face wash; stainless steel showerhead & bowl	S19-310TT	S193140A1CBDA00	S19314TT
Eye/face wash w/spray ring; stainless steel showerhead & bowl; hand/foot operated	S19-310SPR	S193140A1DBDC00	S19314SPR
Eye/face wash w/spray ring; barrier-free, plastic bowl, plastic showerhead	S19-310BFPB	S19314AA1ABA00	S19314BFPB
Eye/face wash w/spray ring; barrier-free, stainless steel bowl, plastic showerhead	S19-310BF	S19314AA1ABDA00	S19314BF

COMBINATION DRENCH SHOWERS AND EYE/FACE WASH UNITS WITH HINGED DUST COVER

Eye/face wash; plastic showerhead & bowl w/ dust cover	N/A	S193140A1ABBA00	S19314PDCFW
Eye/face wash; stainless steel bowl & hinged dust cover, plastic showerhead	S19-310DCF	S193140A1ABEA00	S19314DCF
Eye/face wash; barrier-free, stainless steel bowl & hinged dust cover, plastic showerhead	S19-310DCBF	S19314AA1ABEA00	S19314DCBF

COMBINATION DRENCH SHOWERS AND EYE/FACE WASH UNIT WITHOUT EYEWASH BOWL

Eye/face wash; plastic showerhead (no bowl)	S19-310GG	S193140A1AB0A00	S19314GG
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ALL STAINLESS STEEL COMBINATION DRENCH SHOWERS AND EYEWASH UNITS OR EYE/FACE WASH UNITS

Eye/face wash w/spray ring, barrier-free, all stainless steel	S19-310BFSS	N/A
Eyewash; all stainless steel, corrosion-resistant	S19-310FSS	N/A
Eyewash; chrome-plated red brass pipe & fittings, stainless steel bowl & showerhead	S19-310JJ	N/A
Eyewash; all stainless steel w/hinged dust cover	S19-310SC	N/A
Eye/face wash w/spray ring; type 304 all stainless steel, hand/foot operated	S19-310SS	N/A
Eyewash; type 316 all stainless steel, hand/foot operated	S19-310SS16	N/A

COMPLIMENTARY CONFIDENTIAL EVALUATION!

We offer a **confidential no-charge evaluation** of your workspaces to assess your current situation and suggest a plan for your emergency equipment needs.

IMPORTANT INFORMATION ABOUT COMPLIANCE

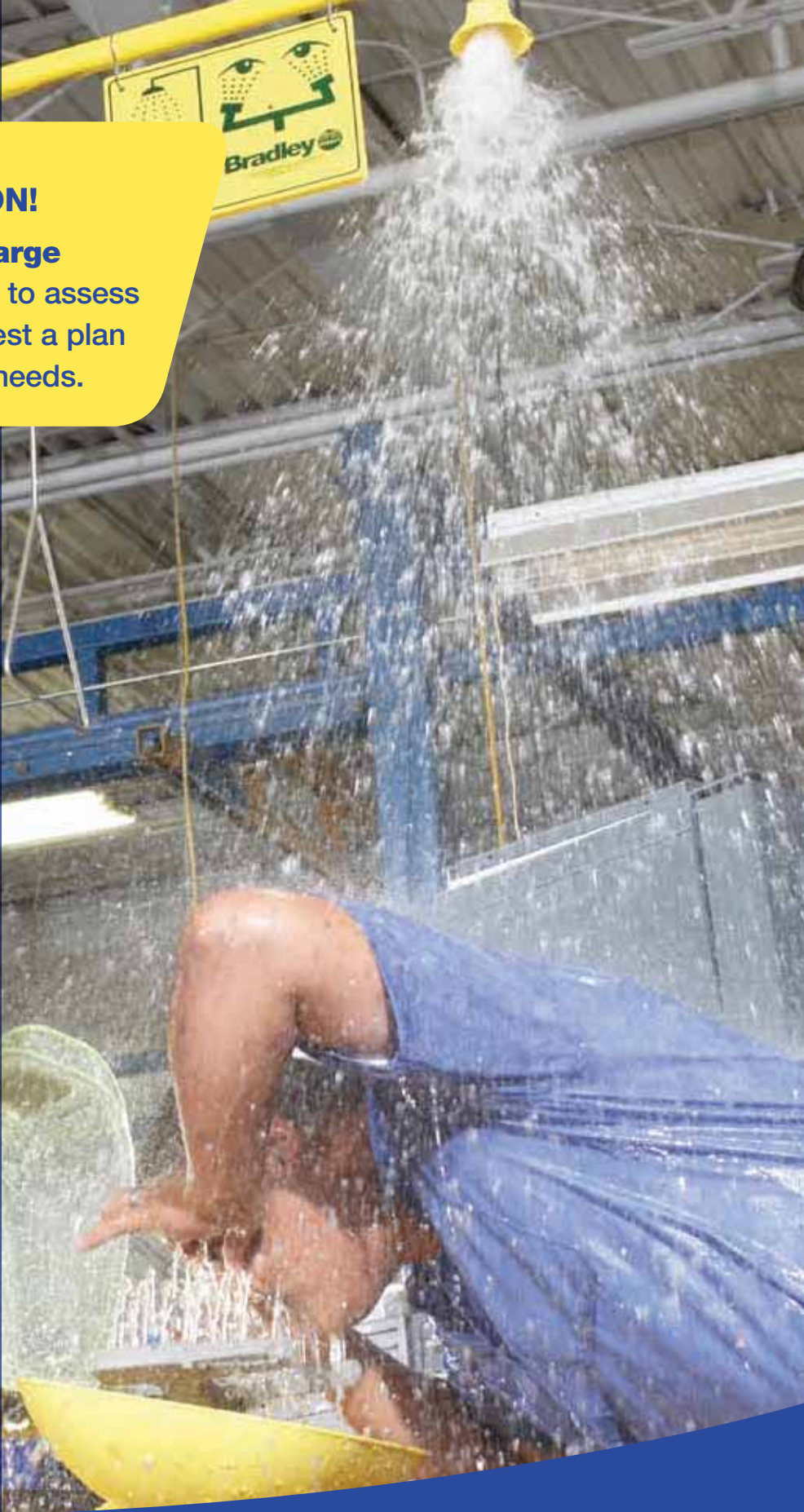
The U.S. Code of Federal Regulations 29CFR 1910.151 states: "Where the eyes or body of any person may be exposed to injurious or corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use."

The American National Standards Institute (ANSI) establishes standards for minimum performance and use requirements for eyewash and shower equipment.

The ANSI Z358.1-2009 for Emergency Eyewash and Shower Equipment provides detailed guidelines to which OSHA, State OSHA and other regulatory agencies commonly refer.

The Joint Commission 2009 EC Standard for Hospitals requires: "The hospital takes action to minimize or eliminate identified safety and security risks in the physical environment." Furthermore, hospitals are required to "Minimize risk associated with selecting, handling, storing, transporting, using, and disposing hazardous chemicals." Surveyors commonly refer to OSHA requirements and the ANSI Standard for further guidance on best demonstrated practices.

Canadian Provincial authorities also typically refer to ANSI standards when auditing for or advising proper requirements for emergency eyewash showers.



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