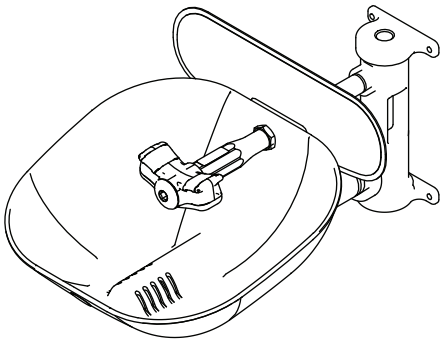
Installation



S19224FWPT
S19224 Series

Halo™ Wall-Mount Eyewash or Eye/Face Wash

Patents Pending

Halo™ douche oculaire/faciale du mur

Brevets en instance

Halo™ Lavaojos/rostro montado en pared

Patentes pendiente

215-1686 Rev. L; ECN 13-05-007B
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Bradley

P.O. Box 309, Menomonee Falls, WI USA 53052-0309
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bradleycorp.com

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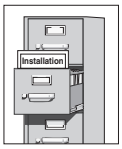
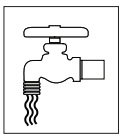
IMPORTANT!

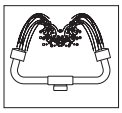


Read this installation manual completely to ensure proper installation, then file it with the owner or maintenance department. Compliance and conformity to drain requirements and other local codes and ordinances is the responsibility of the installer.

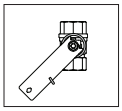
Separate parts from packaging and make sure all parts are accounted for before discarding any packaging material.



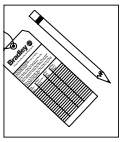
Flush the water supply lines before beginning installation and after installation is complete. Test the unit for leaks and adequate water flow. Main water supply to the eyewash should be "ON" at all times. Provisions shall be made to prevent unauthorized shutoff.



The ANSI Z358.1 standard requires an uninterrupted supply of flushing fluid. Bradley plumbed emergency fixtures require a minimum of 30 PSI (0.21 MPa) flowing pressure. Flushing fuid should be tepid per ANSI Z358.1.



Self-closing spring-loaded valves are not UL classified to ANSI Z358.1.



The inspection and testing results of this equipment should be recorded weekly to verify proper operation. This equipment should be inspected annually to ensure compliance with ANSI Z358.1.

Workers who may come in contact with potentially hazardous materials should be trained regarding the placement and proper operation of emergency equipment per ANSI Z358.1.

For questions regarding the operation or installation of this product, visit www.bradleycorp.com or call 800-BRADLEY (272.3539).

Product warranties and parts information may also be found under "Products" on our web site at bradleycorp.com.

NOTICE! Avoid cleaners containing organic solvents, alcohols, and hydrocarbons. Rinse with water after cleaning.

Supplies Required:

- (4) ¼" anchors and bolts
- Teflon tape and pipe sealant
- Piping to ½" NPT water supply inlet (30–90 psi)
- Piping to 1¼" NPT drain outlet on unit (if included with unit)
- OPTIONAL: sign-mounting hardware

Local codes may require the installation of a backflow prevention valve to complete proper installation. Compliance with local codes is the responsibility of the installer. Valve must be tested annually to verify that it is functioning properly. Backflow prevention valves are not included with the fixture and may be supplied by the contractor or purchased from Bradley Corporation.

Halo Pre-Configured Models

Halo Model Number	Description
Eyewashes	
☐ S19224EW*	Halo Eyewash, plastic bowl
☐ S19224PT*	Halo Eyewash, plastic bowl, p-trap
☐ S19224B*	Halo Eyewash, stainless steel bowl
☐ S19224BPT*	Halo Eyewash, stainless steel bowl, p-trap
Eyewashes with Dust Cover	
☐ S19224PDC*	Halo Eyewash, plastic bowl w/ dust cover
☐ S19224DC*	Halo Eyewash, stainless steel bowl & hinged dust cover
☐ S19224DCPT*	Halo Eyewash, stainless steel bowl & hinged dust cover, p-trap
Eye-Face Washes	
☐ S19224FW*	Halo Eye/face wash, plastic bowl
☐ S19224FWPT*	Halo Eye/face wash, plastic bowl, p-trap
☐ S19224T*	Halo Eye/face wash, stainless steel bowl
☐ S19224P*	Halo Eye/face wash, stainless steel bowl w/ hose spray, tailpiece
☐ S19224TPT*	Halo Eye/face wash, stainless steel bowl, p-trap
☐ S19224Y*	Halo Eye/face wash, stainless steel bowl, hand/foot operated, tailpiece
Eye-Face Washes with Dust Covers	
☐ S19224PDCFW*	Halo Eye/face wash, plastic bowl w/ dust cover
☐ S19224DCFW*	Halo Eye/face wash, stainless steel bowl & hinged dust cover
☐ S19224DCRPT*	Halo Eye/face wash, stainless steel bowl & hinged dust cover, p-trap
All Stainless Steel Eye/Face Wash	
☐ S19224SC	Halo stainless steel eye/face wash, bowl and cover
☐ S19224SS	Halo stainless steel eye/face wash and bowl

* European models available. For European model number, add a Z to end of existing part number. For example, S19224EW will be S19224EWZ.

Halo Configurator

Standard Selections (Must select one from each category)

Configuration

☐ **0**	Standard Wall Mount

Pipe Material

☐ **A**	NPT, Yellow BradTect Galvanized Steel
☐ **B**	NPT, All 304 Stainless Steel
☐ **C**	NPT, All 316 Stainless Steel
☐ **D**	NPT, Chrome-Plated
☐ **F**	BSP, Yellow BradTect Galvanized Steel ‡
☐ **G**	BSP, All 304 Stainless Steel ‡
☐ **J**	BSP, Chrome-Plated ‡

Ball Valve

☐ **1**	Stay-Open Eyewash, Chrome-Plated brass
☐ **2**	Stay-Open Eyewash, 316 SS

Eyewash – 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
☐ **F**	304 SS Halo Eye/Face Wash, 304 SS Yoke
☐ **G**	Halo Eyewash, 316 SS Yoke
☐ **H**	Halo Eye/Face Wash, 316 SS Yoke
☐ **J**	316 SS Halo Eye/Face Wash, 316 SS Yoke

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

Activation

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

Waste

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

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

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

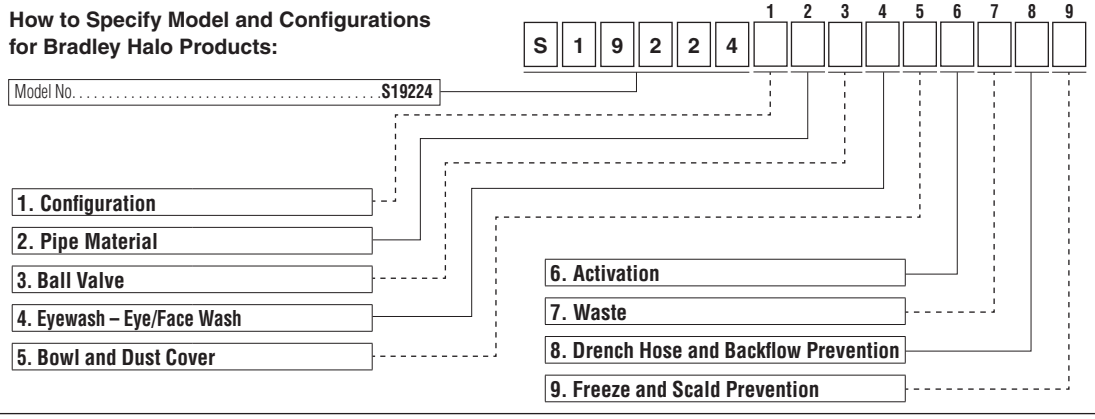
* Not available with barrier-free configurations.

‡ Not available in the U.S.

☑ *NPT = National Pipe Thread*

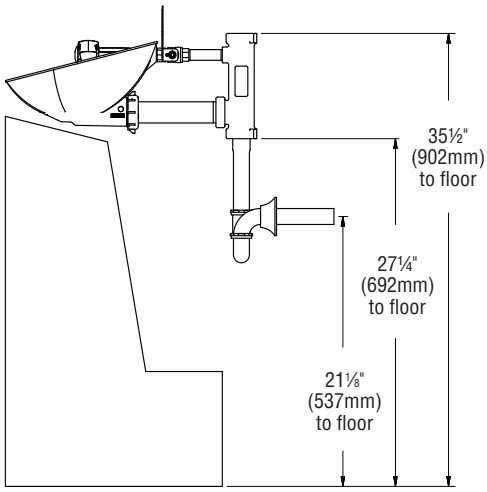
☑ *BSP = British Standard Pipe Thread*

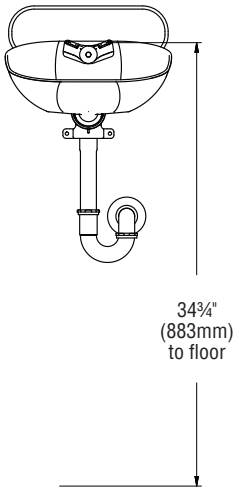
How to Specify Model and Configurations for Bradley Halo Products:



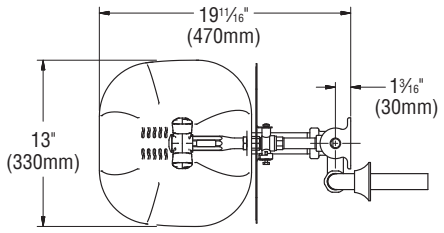
Dimensions

S19224 shown with Eyewash and Plastic Bowl

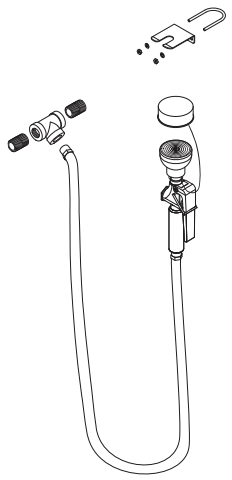




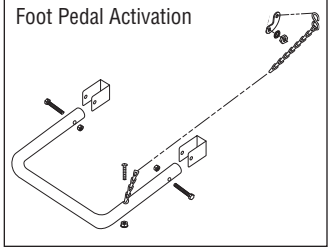
Eyewash Bowl



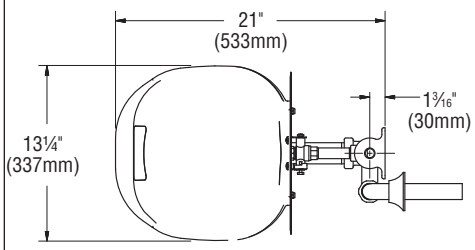
S19-430EH Drench Hose



Foot Pedal Activation



Dust Cover

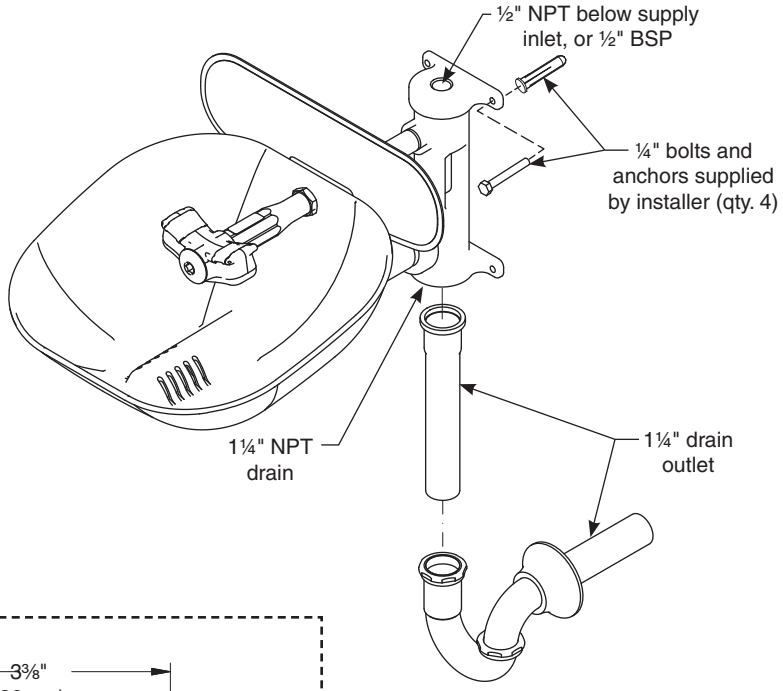


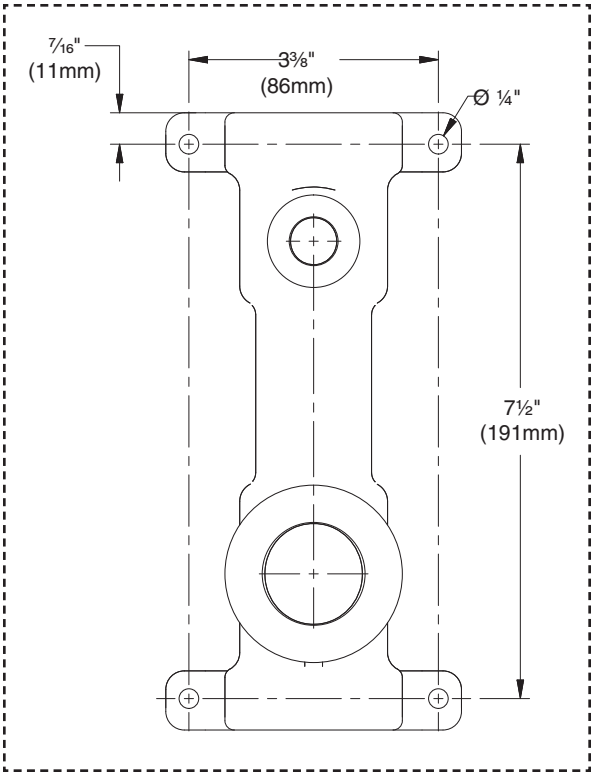
Water Flow Rate	
Eyewash	4–5¼ gpm
Eye/Face Wash	4–5¼ gpm
Body Wash	2–8 gpm

All dimensions assume standard thread engagement. Variations in manufacturing allow for +/- ⅛" (3mm) per threaded joint. To find the tolerance of a dimension, add the number of thread joints across the length of the dimension and multiply it by ⅛" (3mm).

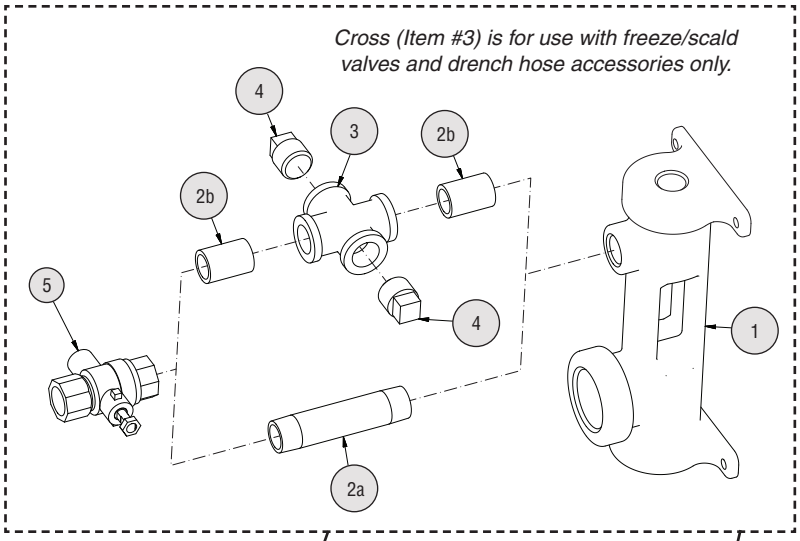
1 Install Eyewash

- ☑ *Standard eyewash unit is shown. Other units are similar.*
- ☑ *When connecting components, use the rubber grip pad (provided) around pipes to prevent marring.*
- ☑ *Apply pipe sealant (supplied by installer) to all male-threaded pipe joints, making sure not to get any excess over the edge of the pipes.*
- ☑ *BSP = British Standard Pipe Thread (not available in the U.S.)*

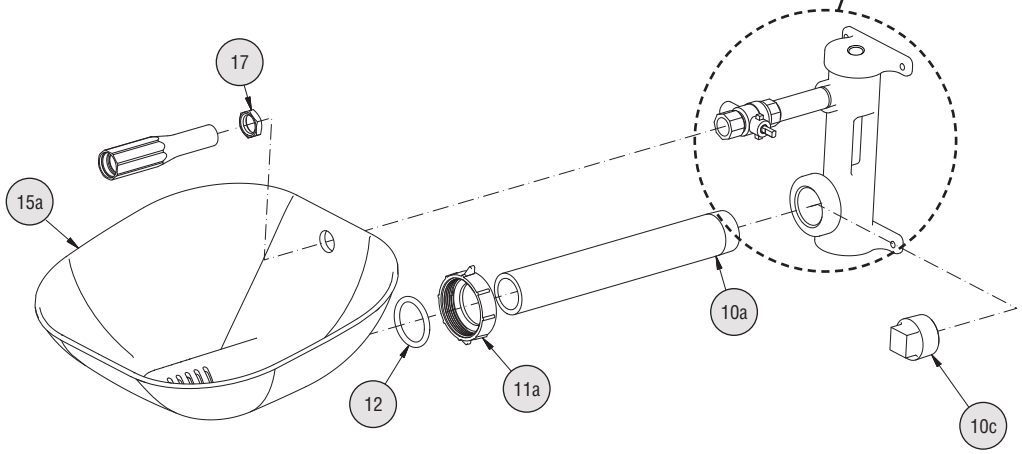




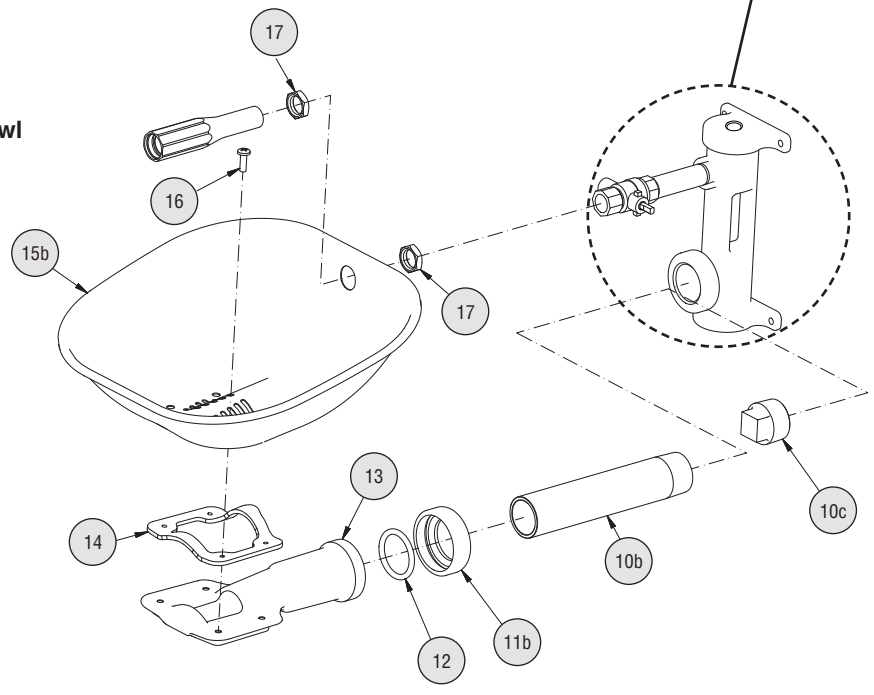
Service Parts —— Bowl and Hub



Hub with Plastic Bowl



Hub with Stainless Steel Bowl



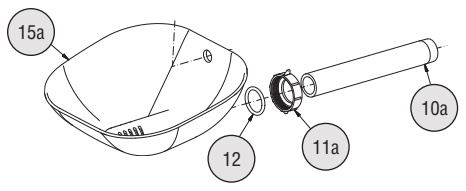
Service Parts List —— Bowl and Hub

☑ *BSP = British Standard Pipe Thread (not available in the U.S.)*

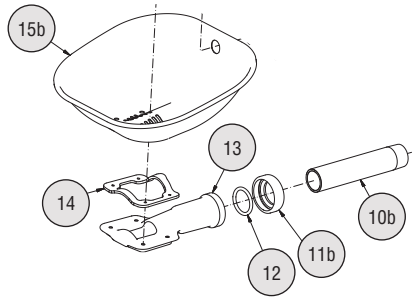
Item	Part No.	Qty	Description
1	111-096	1	Hub
1	111-096B	1	Hub, BSP
1	111-097	1	Hub stainless steel
1	111-103	1	Hub stainless steel 316
1	111-098	1	Hub stainless steel polish
2a	113-006LQ	1	Pipe ½" x 3½"
2a	113-965	1	Pipe ½" x 3½" stainless steel
2a	113-1211	1	Pipe ½" x 3½" stainless steel 316
2a	113-596	1	Pipe ½" x 3½" chrome
2b	113-006LG	2	Pipe ½" x close
2b	113-867	2	Pipe ½" x close stainless steel
2b	113-1210	2	Pipe ½" x close stainless steel 316
2b	113-006aw	2	Pipe ½" x close chrome
3	169-1090	1	Cross ½"
3	169-1091	1	Cross ½" stainless steel
3	169-1098	1	Cross ½" stainless steel 316
3	169-1097	1	Cross ½" chrome
4	300-0393	2	Plug ½" chrome
4	153-230	2	Plug ½" stainless steel
4	153-460	2	Plug ½" stainless steel 316
5	S27-327	1	Ball valve ½" with nut
5	S27-328	1	Ball valve ½" ss 316 with nut
5	S27-329	1	Ball valve ½" frost proof with nut
5	S27-330	1	Ball valve ½" ss 316 frost proof with nut
5.1	110-215	1	Nut
5.1	110-248	1	Nut stainless steel 316

Item	Part No.	Qty	Description
10a	113-1202	1	Pipe 1¼" x 11" thd. one end
10a	113-1203	1	Pipe 1¼" x 11" thd. one end stn. steel
10b	113-1204	1	Pipe 1¼" x 7" thd. one end
10b	113-1205	1	Pipe 1¼" x 7" thd. one end stainless steel
10b	113-1206	1	Pipe 1¼" x 7" thd. one end chrome
10b	113-1212	1	Pipe 1¼" x 7" thd. one end stn. steel 316
10c	169-724	1	Plug 1¼" painted galvanized
10c	269-251	1	Plug 1¼" chrome
10c	269-238	1	Plug 1¼" stainless steel
10c	269-1402	1	Plug 1¼" stainless steel 316
11a	110-239	1	Nut plastic, slip joint
11b	110-240	1	Nut, stainless steel slip joint
11b	110-242	1	Nut, stainless steel 316 slip joint
12	125-176	1	O-ring
13	111-099	1	Bowl mount aluminum
13	111-100	1	Bowl mount aluminum painted
13	111-101	1	Bowl mount stainless steel
13	111-102	1	Bowl mount stainless steel 316
14	124-082	1	Bowl gasket
15a	187-320	1	Bowl plastic
15b	S90-393	1	Bowl stainless steel (includes Item 14)
15b	S90-394	1	Bowl stn. steel 316 (includes Item 14)
16	160-467	4	Screw
17	110-115a	as req'd.	Nut ½" NPSM chrome brass
17	110-238	as req'd.	Nut ½" NPSM stainless steel
17	110-241	as req'd.	Nut ½" NPSM stainless steel 316

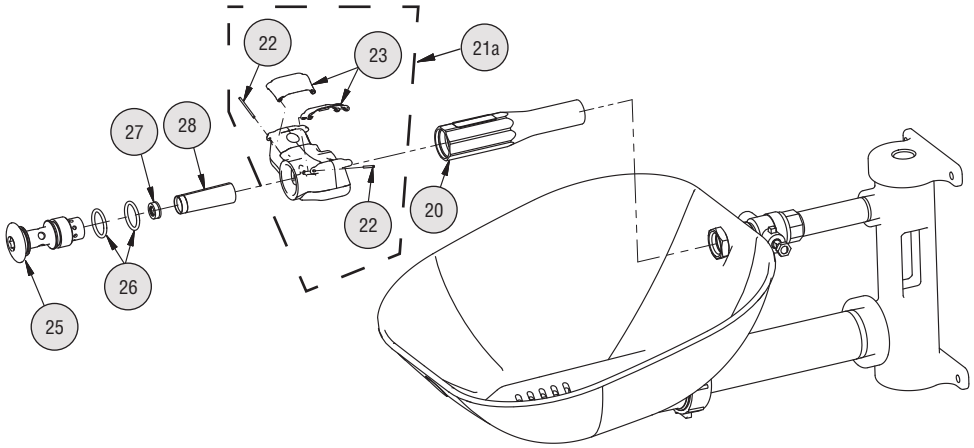
S90-395 Plastic Prepack includes items 10a, 11a, 12, 15a



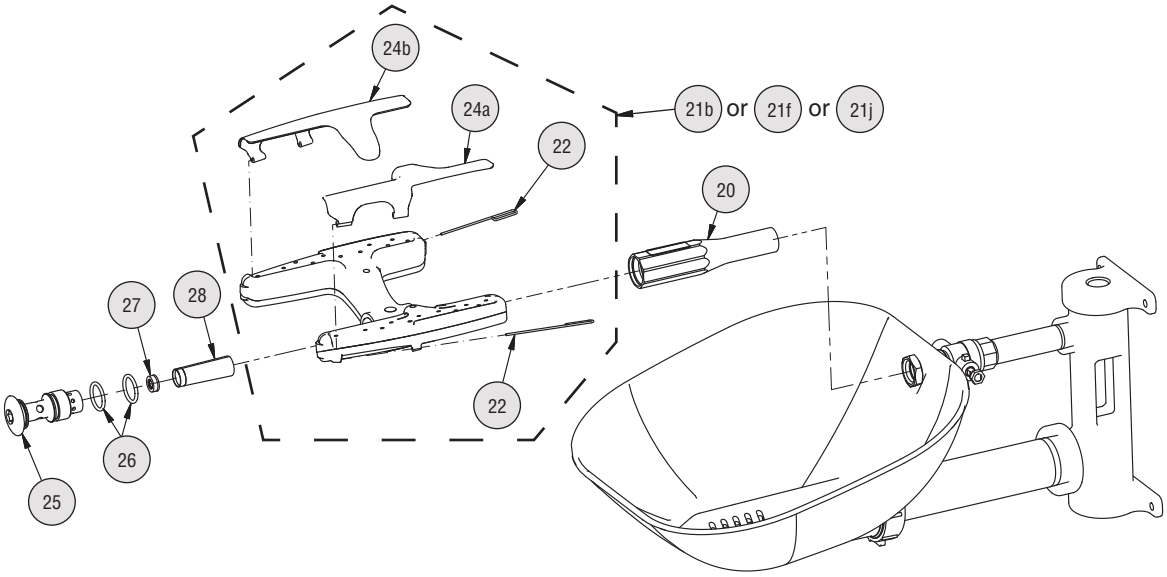
300 Series SS Prepack S90-391 includes items 10b, 11b, 12, 13, 14, 15b
316 Series SS Prepack S90-392 includes items 10b, 11b, 12, 13, 14, 15b



Service Parts — Eyewash



Service Parts — Eye/Face Wash

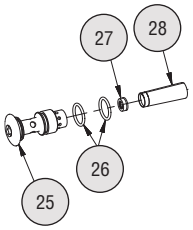


Prepack S65-339 includes items 26, 27, 28

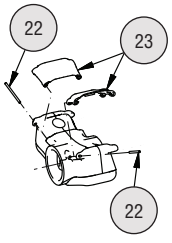
Prepack S88-068 includes items 25, 26, 27, 28

Prepack S88-069 includes items 25, 26, 27, 28 (300 series ss)

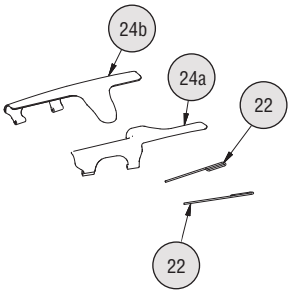
Prepack S88-070 includes items 25, 26, 27, 28 (316 ss)



Eyewash Cover Prepack S45-2675 includes items 22 and 23

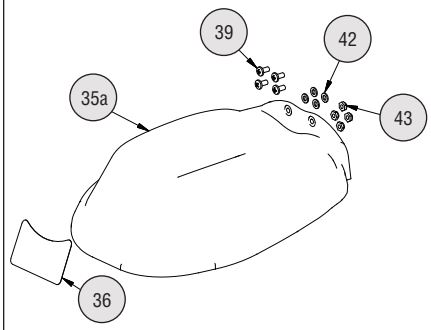


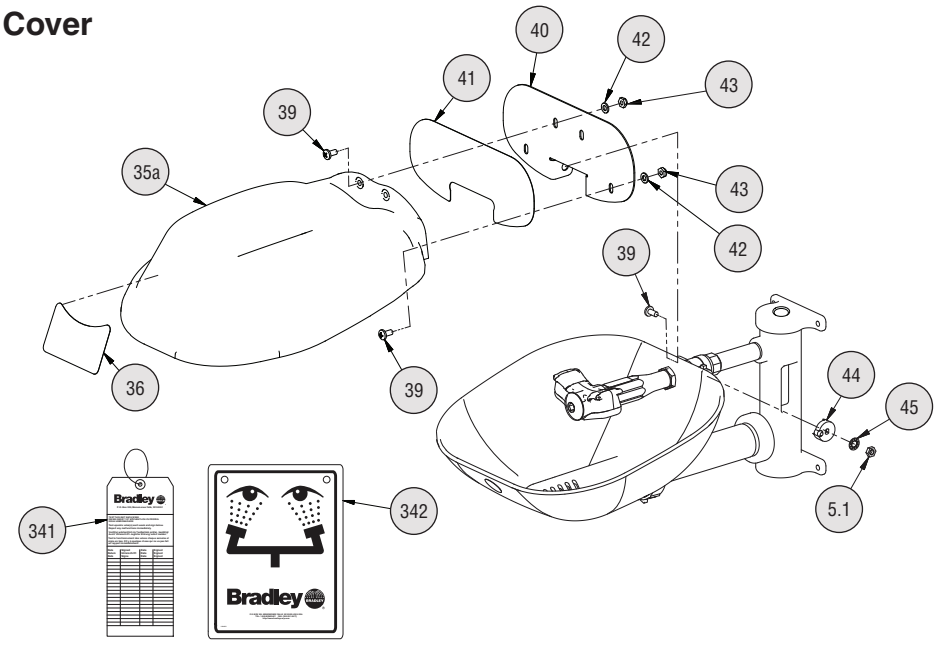
Eye/Face Wash Cover Prepack S45-2676 includes items 22, 24a and 24b



Service Parts — Plastic Bowl Cover

Plastic Bowl Cover Prepack S90-390 includes items 35a, 36, 39, 42, 43

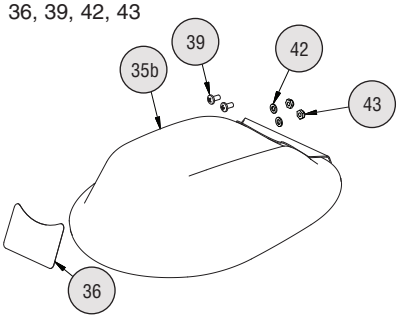


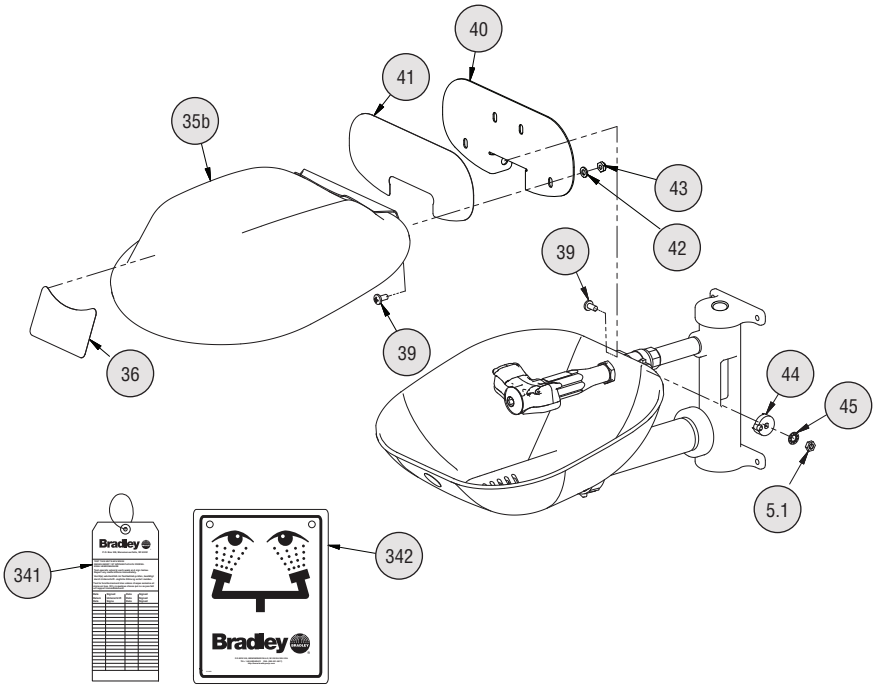


Service Parts — Stainless Steel Bowl Cover

Stainless Steel Bowl Cover Prepack S90-388 includes items 35b, 36, 39, 42, 43

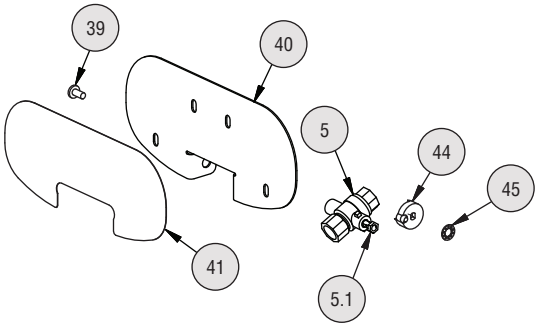
Stainless Steel (316) Bowl Cover Prepack S90-389 includes items 35b, 36, 39, 42, 43





Handle Prepacks include items 39, 40, 41, 44, 45, 5, 5.1

- Prepack S08-390 (for units with brass ball valve)
- Prepack S08-391 (for units with stainless steel ball valve)
- Prepack S08-392 (for units with brass frost-proof ball valve)
- Prepack S08-393 (for units with stainless steel frost-proof ball valve)
- Prepack S08-394 (for units with 316 stainless steel ball valve and handle)
- Prepack S08-395 (for units with 316 stainless steel frost-proof ball valve and handle)



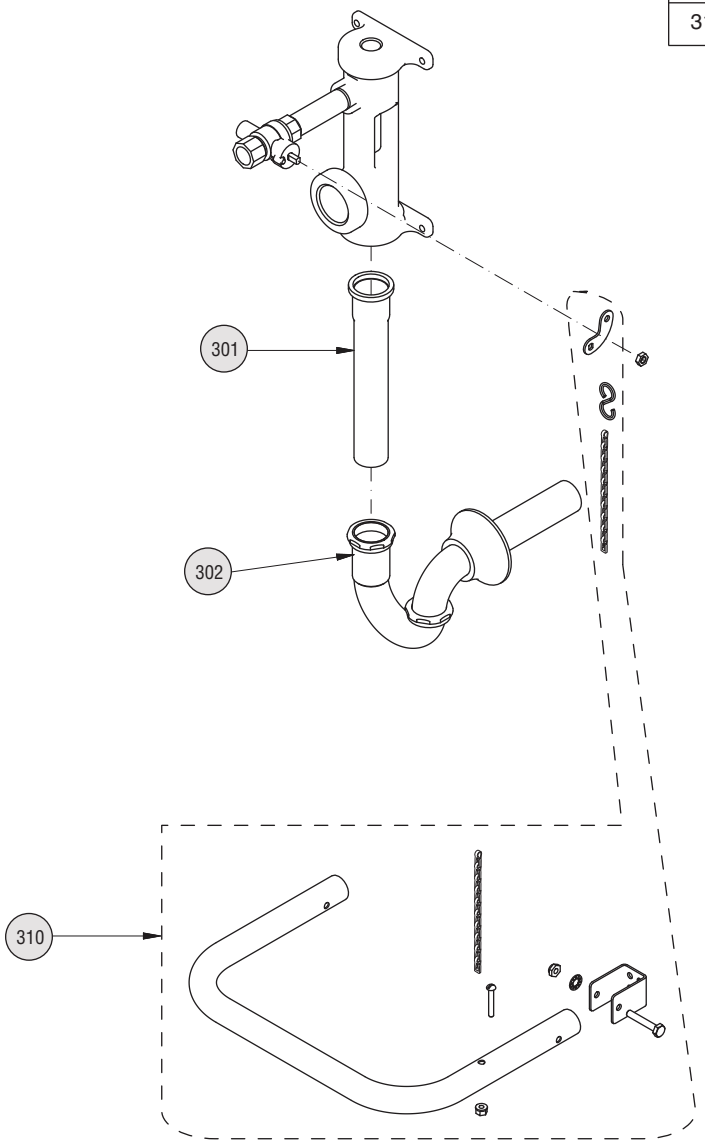
Service Parts List —— Eyewash and Eye/Face Wash

Item	Part No.	Qty	Description
20	171-001	1	Body
20	171-002	1	Body stainless steel
20	171-003	1	Body stainless steel 316
20	171-004	1	Body polished
21a	S05-190	1	Sprayhead ass'y. eyewash (includes)
22	in service kit	2	Pivot pin
23	in service kit	2	Flip cover eyewash
21b	S05-192	1	Sprayhead ass'y. eye/face wash (includes)
22	in service kit	2	Pivot pin
24a	in service kit	1	Flip cover right
24b	in service kit	1	Flip cover left
21f	S05-204	1	Sprayhead stainless steel 304 ass'y. eye/face (includes)
22	in service kit	2	Pivot pin
24a	in service kit	1	Flip cover right
24b	in service kit	1	Flip cover left
21j	S05-205	1	Sprayhead stainless steel 316 ass'y. eye/face (includes)
22	in service kit	2	Pivot pin
24a	in service kit	1	Flip cover right
24b	in service kit	1	Flip cover left
25	115-158	1	Cap
25	115-159	1	Cap stainless steel
25	115-164	1	Cap stainless steel 316
25	115-165	1	Cap polished

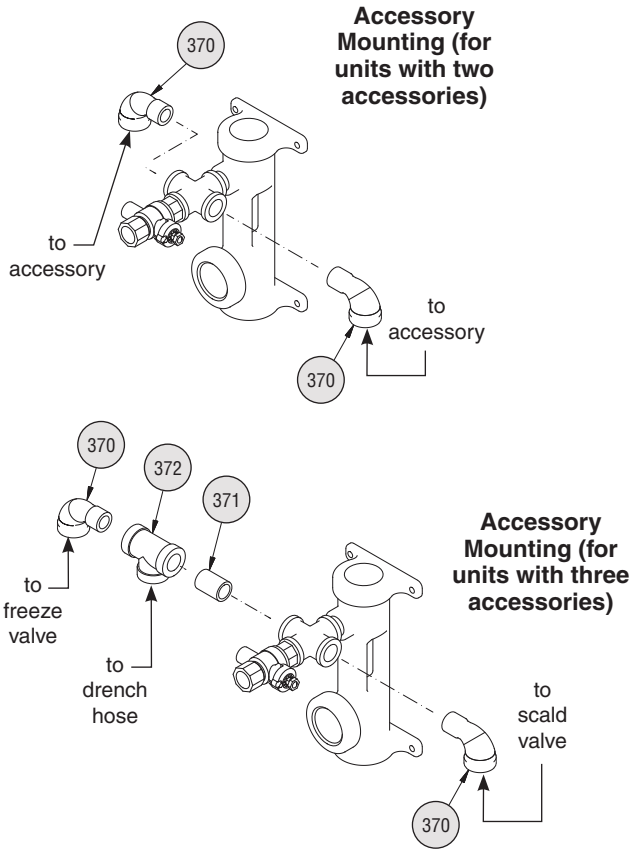
Item	Part No.	Qty	Description
26	125-157	2	O-ring
27	125-175	1	Flow control
28	S65-340	1	Screen (incl. 3 per pack)
35a	in service kit	1	Bowl cover plastic
35b	in service kit	1	Bowl cover stainless steel
35b	in service kit	1	Bowl cover stainless steel 316
36	114-097	1	Bowl cover decal
39	160-389	as req'd.	Screw ¼-20 x ½" stn. steel
39	160-469	as req'd.	Screw ¼-20 x ½" stn. steel 316
40	S08-385	1	Handle ss (incl. items 41, 44, 45, 5.1)
40	S08-388	1	Handle ss 316 (incl. items 41, 44, 45, 5.1)
41	114-096	1	Decal
42	142-002AV	as req'd.	Bowl cover washer
43	161-060	as req'd.	Nut stainless steel
43	161-062	as req'd.	Nut stainless steel 316
44	153-372R	1	Adapter ball valve
44	153-372R316	1	Adapter ball valve stainless steel 316
45	142-002DA	1	Lockwasher
341	204-421	1	Emergency Inspection Tag
342	114-051	1	Eyewash Safety Sign
342	114-051E	1	Eyewash Safety Sign (not available in the U.S.)

Service Parts and Parts List —— Drain, P-trap, and Optional Foot Pedal

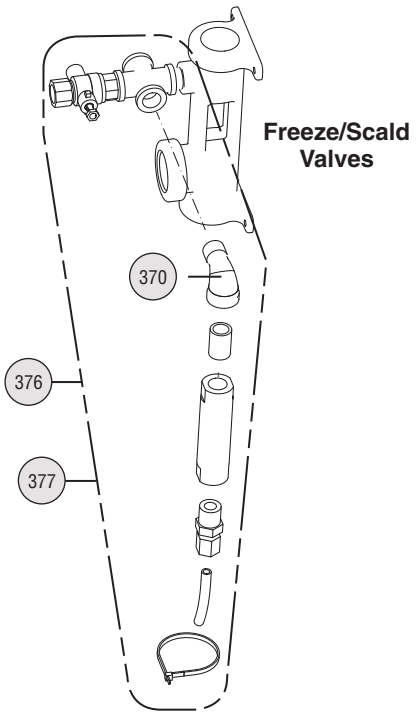
Item	Part No.	Qty	Description
301	269-167	1	Tailpiece
302	269-142	1	P-trap
310	S39-395	1	Foot Pedal Kit



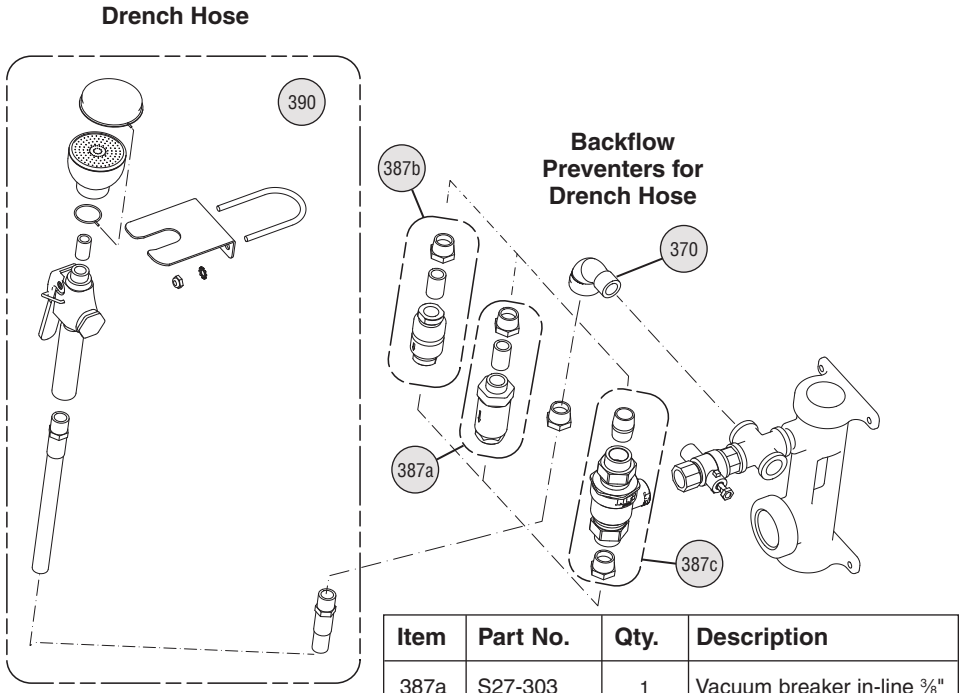
Service Parts and Parts List — Optional Accessories



Item	Part No.	Qty.	Description
370	169-025	as req'd.	Elbow ½"
370	269-241	as req'd.	Elbow ½" stainless steel
370	269-1396	as req'd.	Elbow ½" stainless steel 316
370	169-862	as req'd.	Elbow ½" chrome
371	113-006LG	1	Pipe ½" x close
371	113-867	1	Pipe ½" x close stainless steel
371	113-1210	1	Pipe ½" x close stainless steel 316
371	113-006AW	1	Pipe ½" x close chrome
372	169-838	1	Tee ½"
372	169-1100	1	Tee ½" stainless steel
372	269-280	1	Tee ½" chrome
372	169-1099	1	Tee ½" stainless steel 316



Item	Part No.	Description
376	S45-1986	Freeze Valve kit
377	S45-1989	Scald Valve kit



Item	Part No.	Qty.	Description
387a	S27-303	1	Vacuum breaker in-line ⅜"
387b	S45-2309	1	Backflow preventer N9
387c	S45-2310	1	Backflow preventer 9D
390	S19-430EH	1	Spray Kit