



## Eye Wash System

**SYSBEL** eyewash complies with the standard of ANSI Z358.1-2014 and has been tested and approved by CSA. (Canadian Standards Association). As the emergency safety protection equipment, eyewash station series can be used for flushing the parts exposed to the splashed chemicals and other substances, such as the body, face or eyes, to promptly reduce the damage caused by chemicals, achieve rapid primary self-aid and save more time for further professional treatment.



## Eye/Face Washes

As the emergency protection equipment, the eyewash can be used to maintain the occupational health and safety. It is widely applied in chemical plants, university laboratories, institutes and wastewater treatment plants, etc. OSHA (Occupational Safety and Health Association) has specified to provide "a safe and healthy working environment" for workers, and also develop special safety standards and regulations on improvement of the working environments for employees. In 29 CFR 1910.151, it is required that the appropriate equipment shall be set in the working area where the human eyes or body may be exposed to hazardous or corrosive materials, to rapidly flush the eyes and body in case of an emergency.



It complies with the regulations in ANSI Z358.1-2014 standard and OSHA 29 CFR 1910.151(C) issued by ANSI has acquired CE Certification

## Standards and Certification

The American National Standards Institute (ANSI), founded in 1918, is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States. ANSI Z358.1 was originally published in 1981 for emergency eyewash and shower equipment, it was revised in 1990, 1998, 2004, 2009. The 2014 version of the standard is the latest.

- \* Established minimum performance and use requirements.
- \* As a guideline for the proper design, certification, installation, maintenance and training.
- \* CSA has certified that SYSBEL Emergency Equipment products meet ANSI Z358.1 - 2014.



## Eyewash Systems

**SYSBEL** provides various eyewashes for different applications:

- (1) Wall-mounted eyewash for the workshop and laboratory, etc. to save the space;
- (2) Vertical eyewash used under no-wall mounting conditions;
- (3) Safety shower used only for rapid showering of the body;
- (4) Combination units of eyewash and safety shower dedicated to emergency removal of chemical and liquid splashing hazards to the body, eyes and face;
- (5) Portable eyewash station required in places without water supply and drainage facilities.

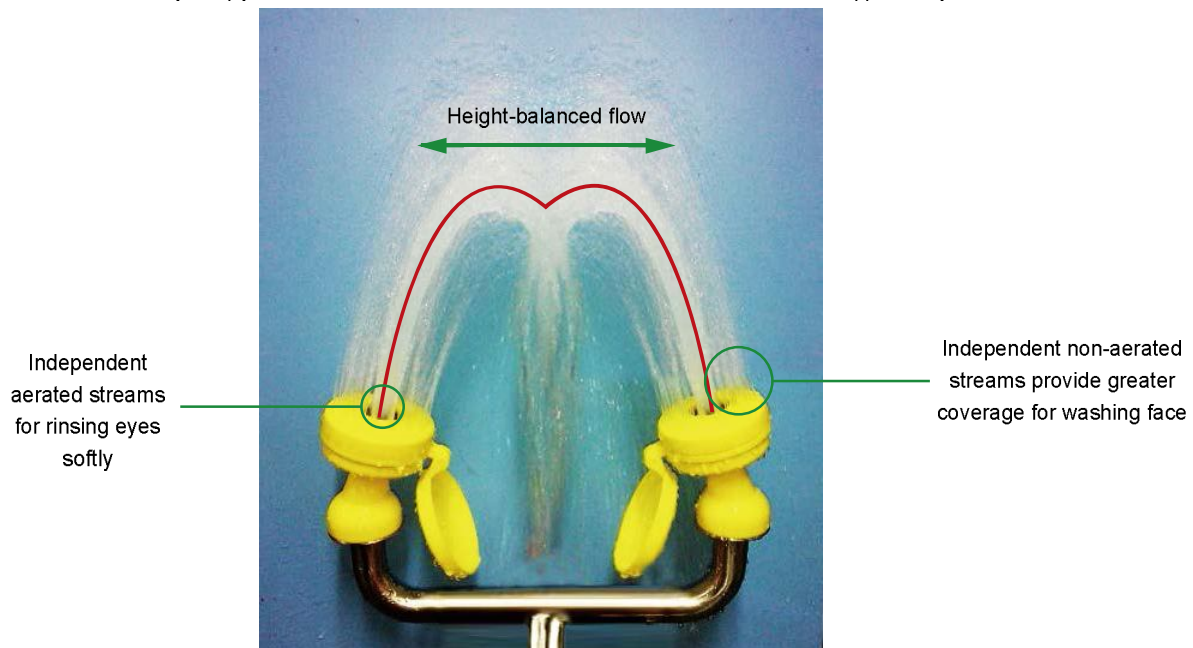


## Eye/Face Wash

**SYSBEL's** new nozzle heads colligate traditional aerators and spray heads with holes. Zero velocity point provides more comfort and control for effective sweeping hazardous contaminants away from the face and eyes using a soft aerated stream for eye wash and independently angled face wash stream for optimum coverage. This series of products fully complies with ANSI Z358.1-2014 and AS 4775-2007, and has been tested and approved by CSA.



- The unique nozzle design is adopted. The same height can be maintained under certain water pressure, to avoid the operating obstacles caused by water pressure.
- The nozzle can be used for spraying two kinds of water at the same time, with balanced heights. The water flow is steady and uniform due to the built-in flow limiter.
- The aerator with a coin slot is easy to remove and install, and thus simple to clean and maintain.
- The dust-proof cover can protect the nozzle from being contaminated by dust in the air. Once the eyewash is started, the dust-proof cover will be opened automatically under water flow.
- The copper nut is built in the 304SS nozzle base and connected to the horn elbow, and its strength is enough to allow repeated removal and installation and ensure longer service life.
- The nozzle is made of AES engineering plastic which is superior to ABS engineering plastic, and has outstanding features of weather resistance, high rigidity, corrosion resistance, UV resistance, etc.
- The main fittings and other accessories are made of 304 stainless steel and applicable to adverse workplaces.
- The bright yellow plastic is used to facilitate observation and identification.
- The quick connector is equipped with a built-in filter to prevent debris or impurities from flowing into the nozzle, in order to avoid secondary damage to the eyes. In addition, the connector is easy to operate, which is conducive for cleaning and maintenance on a regular basis.
- The eye/face wash series fully comply with ANSI Z358.1-2014 and AS 4775-2007, and has been tested and approved by CSA.



**Note:**

To meet ANSI Z358.1-2014 and AS4775-2007 minimum performance requirements, SYSBEL safety showers require: Minimum flow rate of 3.0gpm (11.4 lpm) at a dynamic pressure of 210 kPa (30 psi).

Supply piping shall be adequately sized to meet flow requirements. We strongly recommend customer to use steel tube for connecting. Any flexible hoses are prohibited.



**WG7023 / WG7023Y****Wall Mounted Eye/Face Wash**

- Application: Eye/Face wash for wall mounting. The bowl guides waste water to drain and keeps floor clean
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Activated by push handle easily
- The coin slot hidden faucet aerator is easy to remove and clean
- Dust cover is removed once unit started
- Comply with ANSI Z358.1-2014 and AS 4775-2007

**WG7020****Wall Mounted Eye/Face Wash(no bowl)**

- Application: Eye/Face wash for wall mounting without bowl or drain for waste water.
- Note: Floor drain should be provided underneath unit to prevent accumulation of water on floor.
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Activated by push handle easily
- The coin slot hidden faucet aerator is easy to remove and clean
- Dust cover is removed once unit started
- Comply with ANSI Z358.1-2014 and AS 4775-2007

**WG7033F / WG7033FY****Pedestal Mounted Eye/Face Wash**

- Application: Free standing, fixed on the ground when it is not convenient for wall-mounting
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acidproof, alkali prevention performances, 304SS is ideal for harsh environment
- Be activated by push handle or foot pedal easily
- The coin slot hidden faucet aerator is easy to remove and clean
- Dust cover is removed once unit started
- Comply with ANSI Z358.1-2014 and AS 4775-2007

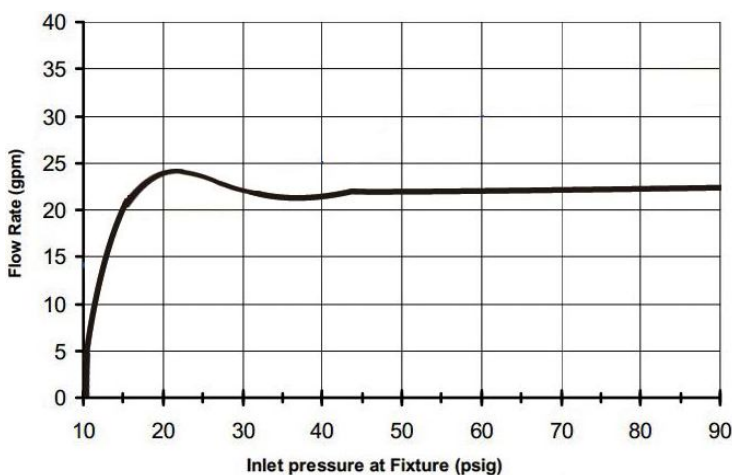
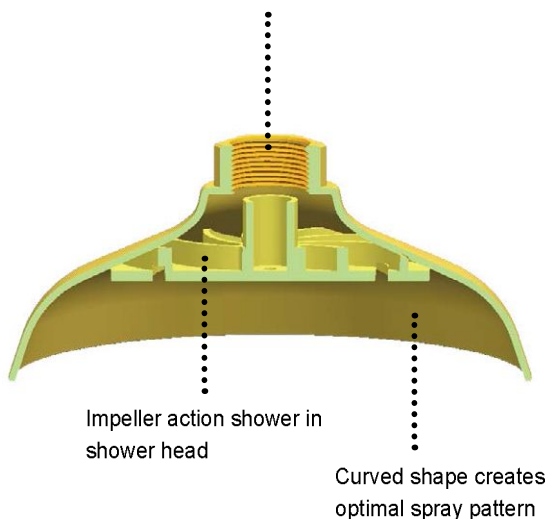
**Eye/Face Wash**

Product	Main Material	Water Bowl		Flow Rate (L/min)	Inlet	Outlet	Pressure KPa	Packing size LxWxH(cm)	G.W. (kgs.)	N.W. (kgs.)	Certification	Model
		Material	Diameter x Height (cm)									
Wall Mounted Eye/Face Wash		304 Stainless Steel	32x9.5	11.4	1/2"	1-1/4"	210kPa or 2.1bar or 30psi	58x36x25.5	3.1	1.9	ANSI Z358.1 AS 4775 CE	WG7023
		AES plastic	32x9.5			1-1/4"			2.9	1.7		WG7023Y
Wall Mounted Eye/Face Wash(no bowl)	304 Stainless Steel	-	-			-			2.4	1.2		WG7020
Pedestal Mounted Eye/Face Wash		304 Stainless Steel	32x9.5			1"		95x35x26.5	5.8	4.0		WG7033F
		AES plastic	32x9.5			1"			5.6	3.8		WG7033FY

## Shower head

**SYSBEL**'s safety showers provide conical water pattern and gently deliver large volumes of water to realize complete decontamination without injury to skin. It ensures the fastest, most effective removal of contaminants in emergency. The shower equipment complies with the standard of ANSI Z358.1-2014 and approved by CSA.

Flow regulator in shower arm provides a minimum of 20gpm(75.7LPM)



304 Stainless Steel

The high performance showerhead provides the maximum corrosion resistance and durability for highly corrosive and abusive applications.



AES Plastic

high weather resistance properties, high rigidity and high tenacity.

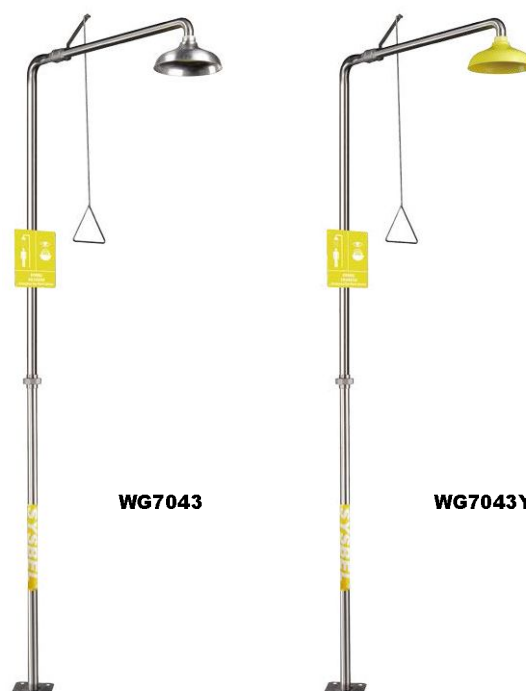


### NOTE:

Spinkler head features flow regulator (exceeds minimum water flow of 20 GPM (75.7LPM) at 30 PSI (2.0 bar)) in shower arm pipe, which not only delivering adequate and stable flushing fluid, but conserving water as well as helping users to decontaminate more effectively.

**WG7043 / WG7043Y****Pedestal Mounted Safety Shower**

- Application: For emergency showering in the position with hazardous chemical materials
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Pull rod with triangular handle is easy to operate for showers
- The design with equal length of main pipes makes packaging more compact so that helps to save space and cost
- Equipped with flat washer in quick coupling to prevent leakage between joints and fitting
- Flow regulator is built in shower arm tube
- The shower head delivers a large volume flushing fluid spread evenly in a precise pattern and controlled flow rate.
- Comply with ANSI Z358.1-2014 and AS 4775-2007

**WG7043****WG7043Y****WG7043V / WG7043VY****Vertical Safety Drench Shower**

- Application: Emergency shower for horizontal mounting on ceiling
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Pull rod with triangular handle is easy to operate for showers
- Flow regulator is built in shower arm tube
- The shower head delivers a large volume flushing fluid spread evenly in a precise pattern and controlled flow rate.
- Comply with ANSI Z358.1-2014 and AS 4775-2007

**WG7043V****WG7043VY****WG7043H / WG7043HY****Horizontal Safety Drench Shower**

- Application: Emergency shower for horizontal mounting on ceiling or wall
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Pull rod with triangular handle is easy to operate for showers
- Flow regulator is built in shower arm tube
- The shower head delivers a large volume flushing fluid spread evenly in a precise pattern and controlled flow rate.
- Comply with ANSI Z358.1-2014 and AS 4775-2007

**WG7043H****WG7043HY****Safety Drench Shower**

Product	Main Material	Water Bowl		Flow Rate (L/ min)	Inlet	Outlet	Pressure KPa	Packing size LxWxH(cm)	G.W. (kgs.)	N.W. (kgs.)	Certification	Model
		Material	Diameter x Height (cm)									
Pedestal Mounted Safety Shower	304 Stainless Steel	304 Stainless Steel	25.5×7.5	75.7	1"	-	210kPa or 2.1bar or 30psi	120×40×26.5	9.6	6.8	ANSI Z358.1 AS 4775 CSA CE	WG7043
		AES plastic				-		9.5	6.7	WG7043Y		
304 Stainless Steel		-				2.3		1.3	WG7043V			
AES plastic		-				2.2		1.2	WG7043VY			
Horizontal Safety Drench Shower		304 Stainless Steel				-		2.7	1.7	WG7043H		
		AES plastic				-		2.6	1.6	WG7043HY		

# Combination Unit

## WG7050F / WG7050FY

### Combination Unit(no bowl)

- Application: Combination eye/face wash and shower safety station without bowl or drain for waste water.
- Note: Floor drain should be provided underneath unit to prevent accumulation of water on floor
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Pull rod with triangular handle is easy to operate for showers
- The design with equal length of main pipes makes packaging more compact so that helps to save space and cost
- Equipped with flat washer in quick coupling to prevent leakage between joints and fitting
- Flow regulator is built in shower arm tube
- The shower head delivers a large volume flushing fluid spread evenly in a precise pattern and controlled flow rate.
- Activated by push handle or foot pedal easily
- The coin slot hidden faucet aerator is easy to remove and clean
- Dust cover is removed once unit started
- Comply with ANSI Z358.1-2014 and AS 4775-2007



WG7050F



WG7050FY

## WG7053F / WG7053FY

### Combination Unit

- Application: Provide full-body relief from contamination fastly and effectively
- Materials: AES plastic + 304 Stainless Steel
- AES plastic has weather resistance properties and applies to indoors or outdoors
- With good acid-proof, alkali prevention performances, 304SS is ideal for harsh environment
- Pull rod with triangular handle is easy to operate for showers
- The design with equal length of main pipes makes packaging more compact so that helps to save space and cost
- Equipped with flat washer in quick coupling to prevent leakage between joints and fitting
- Flow regulator is built in shower arm tube
- The shower head delivers a large volume flushing fluid spread evenly in a precise pattern and controlled flow rate.
- Activated by push handle or foot pedal easily
- The coin slot hidden faucet aerator is easy to remove and clean
- Dust cover is removed once unit started
- Comply with ANSI Z358.1-2014 and AS 4775-2007



WG7053F



WG7053FY

### Combination Unit

Product	Main Material	Flow Rate (L/ min)		Water Bowl		Shower		Valve		Inlet	Outlet	Pressure KPa	Packing size LxWxH (cm)	G.W. (kgs.)	N.W. (kgs.)	Certification	Model
		Eye/ Face Wash	Shower	Dx H/cm : 32×9.5		Dx H/cm : 25.5×7.5		1/2"	1"								
				AES plastic	304 SS	AES plastic	304 SS										
Combination Unit(no bowl)	304 Stainless Steel	11.4	75.7	✓		✓		✓	✓	1"	-	210	120×40 ×26.5	10.4	7.6	ANSI Z358.1	WG7050F
				✓		✓		✓	✓		-			10.3	7.5	AS 4775	WG7050FY
				✓		✓		✓	✓		1"			12.4	9.4	CSA	WG7053F
Combination Unit				✓		✓		✓	✓		1"			12.2	9.2	CE	WG7053FY

## WG0001

### Mounting Bracket

- SYSBEL provides mounting brackets for installing shower stanchion firmly.



WG0001



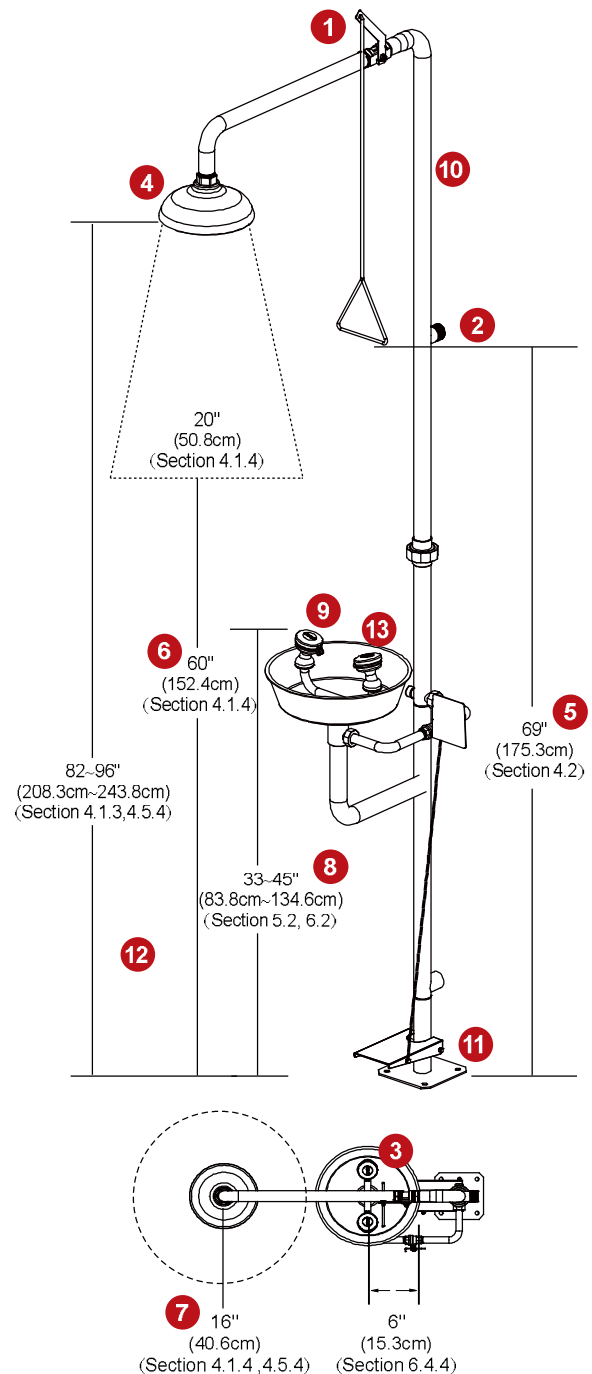
### Accessories

Product	For Products	Material	Ext. Dimension(HxDxW/cm)	Model
Mounting Bracket	Combination Unit(no bowl) & Combination Unit	304 Stainless Steel	17.2x8.7x6	WG0001

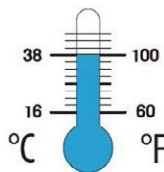


## QUICK COMPLIANCE GUIDE Combination Unit

- 1 Valve mechanism activates in one second or less; it stays open until manually closed. (Section 4.2, 5.2, 6.1.4, 6.2)
- 2 Be connected to a system capable supplying adequate flushing fluid when all components are operated simultaneously. (Section 4.5.5, 7.4.4)
- 3 Height of the flushing fluid column pattern shall be between 82"(208.3cm) and 96"(243.8cm) above floor. (Section 4.1.3, 4.5.4)
- 4 Watersupply shall be sufficient to supply at least 20GPM(75.7LPM) for 15 minutes. (section 4.1.2, 4.5.5)
- 5 Valve actuator shall be located not more than 175.3cm(69") above floor. (section 4.2)
- 6 The diameter shall be minimum of 50.8cm(20") at 152.4cm(60") above floor. (section 4.1.4)
- 7 Center of the flushing fluid pattern shall be at least 16"(40.6cm) from any obstruction. (Section 4.1.4, 4.5.4)
- 8 Water flow pattern shall be positioned between 33"(83.8cm) and 53"(134.6cm) from the level on which user stands and 6"(15.3cm) minimum from the wall or nearest obstruction. (Section 5.4.4, 6.4.4)
- 9 Delivered at least 3.0 gallons(11.4liters) of water per minute for 15-minute (Section 6.1.6, 6.4.5)
- 10 Constructed of materials that will not corrode in the presence of the flushing fluid (Section 7.1.1, 7.1.2, 7.1.3)
- 11 Located 10 seconds or 55 feet from contaminants or hazardous materials. Locate on the same level as hazard and free of obstructions. (Section 7.4.2, B5)
- 12 Protect nozzle head from airborne contamination, dust covers shall be removed by water flow immediately (Section 5.1.3, 6.1.3)
- 13 Provided flushing fluid to both eye and face simultaneously at a velocity low enough without injury to skin (Section 5.1.1, 6.1.1)



1. Water delivered by combination unit shall be tepid (60-100°F/16-38°C) (Section 4.5.6, 5.4.6, 6.4.6, B6)



2. 15-minute Flush Required  
combination unit shall provide at least 3.0gpm(11.4lpm) of water for 15 minute (Section 7.4.5, B6)



### 3. Identification

Be located in an area identified with a highly visible sign, the area around the fixtures shall be well-lit. (Section 7.4.3)



### 4. Training

Instruct all employees who maybe exposed to hazardous materials in the location and proper use of emergency fixtures. (Section 7.5.4)



### 5. Weekly activations & Annually inspections

Activate combination unit at least weekly and inspect annually for compliance with requirements of ANSI-Z358.1 (Appendix B2)



6. Recommend to connect a flushing fluid supply at a flow pressure of 210kPa(30psi) (Appendix B2)

