Emergency showers and eye washes

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GIA emergency showers – and eye washes

GIA is the leading manufacturer in Sweden of emergency showers and eye/face wash units and has since the early 1990s continuously developed new types of showers. The production from Gia is certified according to ANSI Z358.1-2004.

We offer one of the widest range of eye/face washes units, safety showers, as well as safety mixers.

Some things to consider when selecting equipment
Rinsing aggressive substances from the skin or eyes usually takes longer time than anyone can imagine. Splash of acid in the eyes must be continuously washed for at least 15 minutes.
It is therefore important to select the right equipment that has sufficient flow of soft water.

It is also important that the emergency showers are designed in such a way that, independent of water pressure, the eyewash has a proper flush picture.

GIA emergency showers are equipped with automatic pressure and flow control which guarantee a proper flush picture as long as the water pressure stays between 2 - 7 bar.

GIA showers are equipped with drainage in order to minimize the risk of bacterial growth.

For installation of safety showers in aggressive environments models in stainless steel, PVC or painted design should be considered.

Recommended flushing time:
- Sulphuric acid: at least 15 min
- Hydrochloric acid: at least 15 min
- Ammonia solution: 15-30 min
- Sodium hydroxide: 15-30 min
- Caustic soda: 4-6 hours

All our emergency showers and eyewash units fulfil the requirements of SS-EN 15154-1 & 2:2006 and ANSI Standard Z358.1-2004.
Content

Rules and requirements ................................................. 4

Eye- and face showers .................................................. 6

Body Showers ............................................................... 8

Combined body- and eye / face showers ............................. 9

Combined body- and eye/face showers with pre-mounted safety mixers ........................................ 12

Body and eye/face showers for laboratories and schools ....... 14

Hand Showers ............................................................... 17

Body and eye/face showers for outdoor use .......................... 18

Tempering of eye and body showers .................................. 20

Accessories ................................................................. 22

Spare parts ................................................................. 25

Drinking water coolers .................................................... 27
IMPORTANT!

- Material in the shower should be adapted to the environment where it is placed
- The performance of the shower should be adapted to its potential users
- Showers should be in the immediate vicinity, and be reachable within a few seconds
- Tempered water should always be considered
- After activation of water will come after 1 second
- The valves must not be self-closing
- Protection should be of nozzles on eye-/facial showers
- Pressure and flow-regulated water is a major advantage
- All emergency showers should be well aware of clear sign
- Functional Test equipment regularly, and document
- A safety mixer that is adapted for your purpose should be installed
- The water should be of good quality
- Install noise/flashing alarm of showers that are located alone

**Body shower Capacity**

**ANSI Standard Z358.1 2004**

- 75.7 l/min at least for 15 min.

**EN 15154-1**

- At least 60 l/min.

**Flush figure body shower**

**ANSI Standard Z358.1 2004**

- 1524 mm above the floor should the figure at least be 508 mm wide.

**EN 15154-1**

- 700 mm below the strainer the squirts will contain 50% of the water in a radius of 200 mm.

**Eye Shower Capacity**

**ANSI Standard Z358.1 2004**

- 1.5 l/min for 15 min and eye/facial shower at least 11.4 l/min for at least 15 min.

**EN 15154-1**

- Minimum of 6 l/min at the specified minimum pressure.

**Flush figure eye-/face shower**

**ANSI Standard Z358.1 2004**

- From floor to water nozzle 838–1143 mm.

**EN 15154-1**

- Squirts height 100–300 mm, from floor to water nozzle 800–1200 mm.
Eye- and face showers

SS-EN 15154-1 & 2:2006

- Kapacitet 75,7 l/min
- Öppen yta
- min 406 mm
- max 1524 mm
- min 153 mm
- 2083–2438 mm
- Öppen yta
- 2100–2300 mm
- 800–1200 mm
- max 1753 mm

ANSI Standard Z358.1 2004

- Kapacitet 60 l/min
- min 1,5 l/min
- Ø 508 mm
- min Ø 400 mm
- Öppen yta
- 2000–2050 mm
- 800–1200 mm
- max 1750 mm
- 700 mm
Eye- and face showers

822 3506 Wall mounted without dust cover
822 3514 Floor mounted without dust cover

Working pressure: 2–7 bar
Capacity: 26 l/min
Connection: 1/2” BSP
Drainage: 1 1/4” BSP
Ball valve: Chrome plated brass
Bowl: Stainless steel
Accessories: Safety mixer 755 9750

822 3522 Wall mounted with dust cover
822 3523 Wall mounted without dust cover
822 3530 Floor mounted with dust cover
822 3555 Wall mounted with dust cover and hand shower 822 3654

Working pressure: 2–7 bar
Capacity: 14 l/min
Connection: 1/2” BSP
Drainage: 1 1/4” BSP
Ball valve: Chrome plated brass
Bowl/cover: Stainless steel
Accessories: Safety mixer 755 9750
Eye- and face showers

822 3548  Wall mounted without bowl
822 3567  Wall mounted with bowl

Working pressure: 2–7 bar
Capacity: 26 lit/min
Connection: 1/2” BSP
Drainage: 1 1/4” BSP
Ball valve: Chrome plated brass
Bowl: Stainless steel
Accessories: Safety mixer 755 9750

Eye showers

822 3563  Wall mounted with dust cover
822 3566  Wall mounted without dust cover
822 3571  Floor mounted with dust cover

Working pressure: 2–7 bar
Capacity: 8 lit/min
Connection: 1/2” BSP
Drainage: 1 1/4” BSP
Ball valve: Chrome plated brass
Bowl/cover: Stainless steel
Accessories: Safety mixer 755 9750
Body showers

822 3613  Wall mounted, stainless steel
822 3614  Roof mounted, stainless steel
822 3621  Wall mounted, galvanized
822 3622  Roof mounted, galvanized

822 3605  Floor mounted, galvanized

Working pressure: 2–7 bar
Capacity: 78 lit/min
Connection: 1” BSP
Ball valve: Chrome plated brass
Shower head: Stainless steel
Accessories: Safety mixer 755 9734
Combined body- and eye-/face showers

- **822 3627**  
  Floor mounted, galvanized

- **822 3629**  
  Wall mounted, galvanized

- **822 3631**  
  Wall mounted, white painted

- **822 3697**  
  Wall mounted, chrome plated brass

**Specifications:**

- **Working pressure:** 2–7 bar
- **Capacity:** $78+14$ lit/min
- **Connection:** 3/4” BSP
- **Ball valve:** Chrome plated brass
- **Shower head:** Stainless steel
- **Bowl/cover:** Stainless steel
- **Drainage:** 1 1/4” BSP
- **Eye wash:** See 822 3522/822 3523
- **Accessories:** Safety mixer 755 9734
Combined body- and eye-/face showers

822 3696  Floor mounted with dust cover, galvanized
822 3699  Floor mounted without dust cover, galvanized
822 3635  Wall mounted with dust cover, galvanized

822 3670  Floor mounted without bowl, galvanized
822 3662  Floor mounted with bowl, galvanized

**Working pressure:** 2–7 bar
**Capacity:** 78+14 lit/min
**Connection:** 1 1/4” BSP
**Ball valve:** Chrome plated brass
**Shower head:** Stainless steel
**Bowl/cover:** Stainless steel
**Drainage:** 1 1/4” BSP
**Eye wash:** See 822 3522/822 3523
**Accessories:** Safety mixer 755 9734

**Working pressure:** 2–7 bar
**Capacity:** 78+26 lit/min
**Connection:** 1 1/4” BSP
**Ball valve:** Chrome plated brass
**Shower head:** Stainless steel
**Bowl/cover:** Stainless steel
**Drainage:** 1 1/4” BSP
**Eye wash:** See 822 3506/822 3548
**Accessories:** Safety mixer 755 9734
## Combined body- and eye-/face showers

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<th>Description</th>
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<tbody>
<tr>
<td>822 3688</td>
<td>Floor mounted with dust cover, stainless steel</td>
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<tr>
<td>822 3698</td>
<td>Floor mounted without dust cover, stainless steel</td>
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<tr>
<td>3699PVC</td>
<td>Floor mounted without dust cover, PVC</td>
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<tr>
<td>Connection: 1 1/4&quot; BSP</td>
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<tr>
<td>Ball valve: Stainless steel</td>
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<tr>
<td>Shower head: Stainless steel</td>
</tr>
<tr>
<td>Bowl: Stainless steel</td>
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<tr>
<td>Drainage: 1 1/4&quot; BSP</td>
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<tr>
<td>Eye wash: See 822 3567</td>
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<tr>
<td>Accessories: Safety mixer 755 9734</td>
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<td>Connection: 3/4&quot; BSP</td>
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<td>Ball valve: Stainless steel</td>
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<td>Shower head: PVC / ABS</td>
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<td>Bowl: PVC / ABS</td>
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<tr>
<td>Drainage: 2&quot; BSP</td>
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<tr>
<td>Eye wash: See 3566P</td>
</tr>
<tr>
<td>Accessories: Safety mixer 755 9734</td>
</tr>
</tbody>
</table>
Combined body- and eye/face showers
with mounted safety mixers

- 822 3626: Floor mounted with dust cover, galvanized
- 822 3628: Wall mounted with dust cover, galvanized
- 822 3630: Wall mounted without dust cover, white painted

**822 3626**
- Working pressure: 2–7 bar
- Capacity: 78+14 l/min
- Connection: 3/4" BSP
- Ball valve: Chrome plated brass
- Shower head: Stainless steel
- Bowl/cover: Stainless steel
- Drainage: 1 1/4"BSP
- Floor/wall brackets incl.
- Eye wash: See 822 3522/822 3523

**822 3632**
- Floor mounted with dust cover, galvanized

**822 3636**
- Wall mounted with dust cover, galvanized

**822 3636**
- Working pressure: 2–7 bar
- Capacity: 78+14 l/min
- Connection: 1 1/4" BSP
- Ball valve: Chrome plated brass
- Shower head: Stainless steel
- Bowl/cover: Stainless steel
- Drainage: 1 1/4"BSP
- Floor/wall brackets incl.
- Eye wash: See 822 3522/822 3523
Combined body- and eye/face showers with mounted safety mixers

822 3634
Floor mounted without bowl, galvanized

**Working pressure:** 2–7 bar  
**Capacity:** 78+26 lit/min  
**Connection:** 1 1/4" BSP  
**Ball valve:** Chrome plated brass  
**Shower head:** Stainless steel  
**Eye wash:** See 822 3548

822 3633
Floor mounted with bowl, galvanized

**Working pressure:** 2–7 bar  
**Capacity:** 78+26 lit/min  
**Connection:** 1 1/4" BSP  
**Ball valve:** Chrome plated brass  
**Shower head:** Stainless steel  
**Bowl:** Stainless steel  
**Drainage:** 1 1/4"BSP  
**Eye wash:** See 822 3506
GIA has in close cooperation with different customers, developed a complete new range of showers adapted to the requirements SS-EN15154-1 & 2:2006 for the laboratories. For clean rooms class spaces are also showers in the range.

Showers for the laboratory environment are in white painted, chrome, or stainless steel design. Other colours can be ordered.

Eye- and face shower in folding design. Arm’s length 330 alternative 130 mm.

**Working pressure:** 2–7 bar  
**Capacity:** 26 lit/min  
**Connection:** 1/2” BSP
9601  Body shower, white painted with wall bracket 820630
822 3597  Table mounted, with swivel joint
9604  Table mounted, with swivel joint
9603  Wall mounted with bowl
822 3624  Body shower, chrome plated
822 3630  Combined wall mounted body- and eye/face shower, white painted.
822 3631  As above, with safety mixer

Body shower, white painted

**Working pressure:** 2–7 bar  
**Capacity:** 78 lit/min  
**Connection:** 1” BSP  
**Ball valve:** Chrome plated brass  
**Bracket:** P/n 820630

Eye wash, swivel joint 360 degr. chrome plated

**Working pressure:** 2–7 bar  
**Capacity:** 8 lit/min  
**Connection:** 1/2” BSP  
**Ball valve:** Chrome plated brass

Eye- and face wash with bowl

**Working pressure:** 2–7 bar  
**Capacity:** 14 lit/min  
**Connection:** 1/2” BSP  
**Ball valve:** Chrome plated brass  
**Bowl:** Stainless steel  
**Drainage:** 1 1/4”BSP  
**Bracket:** White painted

Combined wall mounted body- and eye/face shower, white painted.

**Working pressure:** 2–7 bar  
**Capacity:** 75+14 lit/min  
**Connection:** 3/4” BSP  
**Bowl:** Stainless steel  
**Drainage:** 1 1/4”BSP  
**Eyewash:** See 9603

Body shower, chrome plated

**Working pressure:** 2–7 bar  
**Capacity:** 75 lit/min  
**Connection:** 1/2” BSP  
**Ball valve:** Chrome plated brass  
**Bracket:** Stainless steel
Body and eye/face showers for laboratories and schools

9680 Wall mounted, built-in

Wall cupboard with operate handle for body shower.

Connection: 1” BSP
Ball valve: Chrome plated brass
Size: 350x200x90 mm

Including pull extension to floor.

9618 Body shower, built-in

Working pressure: 2–7 bar
Capacity: 78 lit/min
Connection: 1” BSP
Ball valve: Chrome plated brass

Delivered with wall bracket and pull extension to floor.

9682 Wall mounted, built-in

Eye wash, built-in type in walls. Delivered complete with safety mixer and waste connection. Also equipped with operate handle for body shower, and pull extension to floor.

Working pressure: 2–7 bar
Capacity: 8 lit/min
Connection: 1/2” and 1” BSP
Ball valve: Chrome plated brass
Size: 465x585x90 mm
Eye wash, built-in type in walls. Delivered complete with safety mixer and waste connection.

- **Working pressure:** 2–7 bar
- **Capacity:** 8 l/min
- **Connection:** 1/2" BSP
- **Ball valve:** Chrome plated brass
- **Size:** 360x630x90 mm

**9681**

**9618**

**Hand, showers**

- **822 3654** Wall mount, hose L=2 m
- **3654–1** Wall mount, PVC spiral hose L=3 m
- **3654–3** Table mount, hose L=2 m

- **Working pressure:** 2–7 bar
- **Capacity:** 26 l/min
- **Connection:** 1/2" BSP
- **Handle:** Chrome plated brass
- **Wall bracket:** Stainless steel
Body- and eye/face showers for outdoor use

822 3547
Floor mounted, galvanized and cable heated
822 3547–EX
As above, explosion proof
822 3549
Floor mounted, stainless steel and cable heated
822 3549–EX
As above, explosion proof

822 3673
Floor mounted, galvanized and cable heated
822 3673–EX
As above, explosion proof
822 3674
Floor mounted, stainless steel and cable heated
822 3674–EX
As above, explosion proof

Capacity: 26 lit/min
Working Pressure: 2–7 bar
Connection: 1 1/4“ BSP
Ball valve: Stainless steel
Piping: Stainless steel or galvanized steel
Heating cable: Reliable self-regulating heat cable Raychem CHEMELEX 3BTV2CT
Thermostat/junction box: Raystat EX-03 / Raychem AT-TS13, IP65
Isolation: Glass wool, Isover AluComfort Euroclass A
Jacket: Grey, PVC plastic
Shower heads: Twin ABS plastic eye/face wash heads with integral flip top dust covers.

822 3673
Floor mounted, galvanized and cable heated
822 3673–EX
As above, explosion proof
822 3674
Floor mounted, stainless steel and cable heated
822 3674–EX
As above, explosion proof

Capacity: 78 + 26 lit/min
Working Pressure: 2–7 bar
Connection: 1 1/4“ BSP
Shower head: Stainless steel
Ball valve: Stainless steel
Piping: Stainless steel or galvanized steel
Heating cable: Reliable self-regulating heat cable Raychem CHEMELEX 3BTV2CT
Thermostat/junction box: Raystat EX-03 / Raychem AT-TS13, IP65
Isolation: Glass wool, Isover AluComfort Euroclass A
Jacket: Grey, PVC plastic
Shower heads: Twin ABS plastic eye/face wash heads with integral flip top dust covers.
Activation: Ridgid stainless steel pull rod / Push flag operates a stay open stainless steel ball valve.

EYE AND FACE WASH
Capacity: 26 lit/min
Working Pressure: 2.4–7 bar
Ball valve: Stainless steel
Nozzle: ABS plastic with flip-up cover
Body- and eye/face showers for outdoor use

822 3552  Wall mounted, without bowl, freeze resistant
822 3712  Wall mounted, with bowl, freeze resistant

**Working pressure:** 2.4–7 bar
**Capacity:** 26 lit/min
**Connection:** 1/2 “ BSP
**Ball valve:** Chrome plated brass

---

822 3738  Wall mounted, freeze resistant

**Working pressure:** 2.4–7 bar
**Capacity:** 8 lit/min
**Connection:** 1/2 “ BSP
**Ball valve:** Chrome plated brass
**Drainage:** 1 ¼ “ BSP
**Bowl:** Stainless steel

---

Connection pipes (dashed on the sketch) are not included.
Safety mixer GIA-15

Tempering – safety mixers

Gia have a wide range of safety mixers for eye- and face wash units as well as for body showers.

What is a safety mixer?
A safety mixer is a valve with unique characteristic to guarantee all thinkable securities. The safety mixer should not be mixed up with a conventional valve.

A thermostatic valve with high mixing capacity
The valve is special designed to temper water for eye/face washes. The mixed water temperature is adjustable. When the mixer is shipped from factory the temperature is set to + 25°C.

The temperature is adjustable through the adjustment screw on the unit.

In case of a breakdown on the cold water side, the valve will automatically close the flow of hot water.

On the other hand if a break down occurs of hot water the valve will go into cold-water bypass flow and continue to deliver cold water to the safety shower.

The Unit is manufactured of bronze, brass, copper and stainless steel.

The valve is delivered including two strainers to prevent dust from damage the valve.

Thermostatic safety mixer for eye- and face wash units, complete with non return valves.

GIA-15 safety mixer
Art no: 755 9750
Flow rate: 30 lit/min
Connection: ½” BSP
Body: Brass

Flow rate, l/sec
Differential pressure, MPa
The thermostatic mixer is a modern valve with extremely high mixing capacity.

The mixed water temperature is adjustable in the range from +15 - +35°C. The adjustment of the temperature is made through the adjustment screw. To increase the present temperature, turn the screw anti-clock wise. One turn = 5°C. When the mixer is shipped from factory the temperature is set to approx. 25°C.

For safety reason the valve has one unique characteristic: In case the cold water for any reason will stop, the thermostat will immediately stop the flow of hot water.

On the other hand if a breakdown occurs of hot water the valve will go into cold-water bypass flow and continue to deliver cold water to the safety shower.

Maximum working pressure: \( \text{PN 10} \)
Max working temperature: \( 65^\circ \text{C} \)

The valve will be delivered with solder fittings.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Flow</th>
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<tbody>
<tr>
<td>755 9733</td>
<td>Safety mixer – Premix 20</td>
<td>90 l/min</td>
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<tr>
<td>755 9734</td>
<td>Safety mixer – Premix 25</td>
<td>150 l/min</td>
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<tr>
<td>755 9735</td>
<td>Safety mixer – Premix 32</td>
<td>240 l/min</td>
</tr>
<tr>
<td>755 9736</td>
<td>Safety mixer – Premix 40</td>
<td>360 l/min</td>
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DN | A | B | C | D | E | F |
---|---|---|---|---|---|---|
20 | 22| 12|40 |100|120|215|
25 | 22| 12|40 |100|120|215|
32 | 35|20 |50 |120|150|265|
40 | 35|20 |50 |120|150|265|
820740  Foot pedal with wall bracket
Sturdy foot pedal made of stainless steel. Easy activate for eye- face wash as well as body showers.

820750  Foot pedal with pipe brackets, DN32 (42,4 mm)
Sturdy foot pedal made of stainless steel. Easy activate for eye- face wash as well as body showers.

820398  Platform actuation for safety showers
730x730 mm Grating in galvanized steel, spring returned. Mounted in a frame of stainless steel.

820092  Wall bracket
1/2” BSP, white painted

820093  Wall bracket
1” BSP, white painted

820094  Wall bracket
1” BSP, Stainless steel

820623  Wall bracket
3/4” BSP, stainless steel white painted

820630  Wall bracket
1” BSP, stainless steel white painted
820641 Alarm kit for eye wash
820642 Alarm kit for body shower
820643 Alarm kit for combination unit

820628 Flow switch DW-R, 1/2” BSP
820628-1 Flow switch DW-R, 3/4” BSP
820628-2 Flow switch DW-R, 1” BSP
820628-3 Flow switch DW-R, 1 1/4” BSP
(all sizes also available in stainless steel)

820659 Electric instantaneous water heater, hydraulically controlled with bare element heating system, 18 kw 400v, 3x26Amp
820636 Electric instantaneous water heater, hydraulically controlled with bare element heating system, 24kw 400v, 3x35Amp

820350 Vertical, universal emergency eye wash sign 150x150 mm
820350-V Vertical, universal emergency eye wash sign 200x300 mm
820351 Vertical, universal emergency shower sign 150x150 mm
820351-V Vertical, universal emergency shower sign 200x300 mm
820350-1 Additional sign 150x150 mm
Accessories

Shower cabin suitable for combination showers.
Panels of PE plastic and frame made of stainless steel. Dim. 940x1050x2400 mm

Catch basin in stainless steel, fits to shower cabin no. 820514

Plastic grate for above.

Tank safety showers in stainless steel design, with or without panels.

Tank volume between 350 to 2000 lit.
Flush time from 9 to 50 minutes.
<table>
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<tr>
<td>820700</td>
<td>Eye- and face wash assy. 14 l/min</td>
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<tr>
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<td>Connection 1/4” BSP</td>
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<td>820701</td>
<td>Eye wash assy. 8 lit/min</td>
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<td>Connection 1/4” BSP</td>
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<td>820421</td>
<td>Flush nozzle for 26 l/min</td>
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<td>dia. 55 mm</td>
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<td>820558</td>
<td>Flush nozzle for 8 l/min</td>
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<tr>
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<td>dia. 40 mm</td>
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**Pressure and flow regulators**
Gia can offer a wide range of pressure- and flow regulators. These together with someone of above mentioned eye-face wash assy upgrades your equipment according to existing regulations.
Spare parts

- **820187**: Bowl, stainless steel diam. 255 mm
- **820508**: Ball valve DN15 with push plate
- **820122**: Bowl, stainless steel diam. 345 mm
- **820160-1**: Ball valve DN 25 with lever
  **820160-¾”**: Ball valve DN 20 with lever
- **820189**: Bowl with dust cover diam. 255 mm
- **820187**: Bowl, stainless steel diam. 255 mm
- **820583**: Pull rod, complete L=720 mm
- **820443**: Pull extension down to floor. Fits all emergency showers.
- **820808**: Wall bracket, eyewashes with bowl diam. 255mm
- **820127**: Shower head DN15, diam. 120mm
- **820809**: Bracket for bowl diam. 255mm on combination showers.
- **820456**: Shower head DN20, diam. 120mm
- **820262**: Bracket for bowl diam. 345mm on combination unit
- **820126**: Shower head DN25, diam 255 mm
- **820263**: Floor flange
84005  Water cooler, free standing

**Refrigerant:** R-134a  
**Supply:** 240V 50/60Hz  
**Capacity:** 38 lit./Hour

Drinking water fountain provides a steady and well distributed water, thanks to the built-in pressure regulator. The bubbler is made of soft and flexible rubber to prevent dental injuries.

Fountain top is made of deep drawn stainless steel. It is designed to not give splashing and is hygienic.

The engine has automatic overload protection. Lubrication is not needed.

Facing of stainless steel.

84002  Water cooler, wall mounted

**Refrigerant:** R-134a  
**Supply:** 240V 50/60Hz  
**Capacity:** 38 lit./Hour

Drinking water fountain provides a steady and well distributed water. The bubbler is made of soft and flexible rubber to prevent dental injuries.

Fountain top is made of deep drawn stainless steel. It is designed to not give splashing and is hygienic.

Simple activation by a slight pressure on any of the four push buttons. Water beam height is adjustable.

The engine has automatic overload protection. Lubrication is not needed.

Facing of stainless steel.

Supplied complete with wall bracket.
All manufacturing take place in Sweden. Distributors and agent are located in all continents.

In Switzerland, GIA-Premix products are distributed by:
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