The outstanding performance of the STEAMIX 203 is due to the simplicity and ruggedness of its operating mechanism with its intrinsic fail safe construction. The illustrations below demonstrate how the STEAMIX 203 works and why its reliability is guaranteed – even with poor water conditions.

1. With no flow, the water pressure each side of the diaphragm is equal and the spring holds the poppet valve on the seating to prevent steam flow.

2. Only when water flows will a differential pressure across the diaphragm cause it to lift and therefore the poppet valve to rise against the spring and allow the steam to flow.

3. As flow is reduced, back pressure on the outlet side of the diaphragm increases until water pressure on both sides of the diaphragm becomes equal. As the pressures equalize, the spring pushes the poppet valve onto its seating and closes off the steam supply.
## Table WM-279-1. Armstrong Washdown Equipment and Accessories

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Type</th>
<th>Connections</th>
<th>Body Material</th>
<th>Model</th>
<th>Max. Flow Rate m³/h</th>
<th>Max. Inlet Press. bar</th>
<th>Check Valves</th>
<th>Flow Controls</th>
<th>Hose Rack</th>
<th>Spray Nozzle</th>
<th>Shutdown Feature</th>
<th>Hose</th>
<th>Located on Page</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>NPT</td>
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<tr>
<td></td>
<td>Steam &amp; Water Mixing Unit</td>
<td>3/4&quot;</td>
<td>Bronze</td>
<td>2030/2030S</td>
<td>2*</td>
<td>10*</td>
<td>S only</td>
<td>●</td>
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<td></td>
<td>Steam &amp; Water Hose Station</td>
<td></td>
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<td></td>
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<td>WM-283</td>
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<td>2032/2032S</td>
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<tr>
<td></td>
<td></td>
<td>Ball Flow Indicators</td>
<td>1/2&quot;</td>
<td>Brass</td>
<td>BFI-003-02-STD</td>
<td>1,6</td>
<td>7</td>
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<td>WM-289</td>
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<td></td>
<td>1/2&quot;</td>
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<td>BFI-003-31</td>
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<td>BFI-003-30 High Pressure</td>
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<td>3/4&quot;</td>
<td>Fiberglass Enclosure</td>
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<td>3/4&quot;</td>
<td>Stainless Steel</td>
<td>F/SMCD Cabinet Assembly</td>
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<td></td>
<td>1/2&quot;</td>
<td>See Specification</td>
<td>038 Spray Nozzle</td>
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<td>10</td>
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<td>WM-290</td>
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<td>3/4&quot; x 1/2&quot;</td>
<td>See Specification</td>
<td>045 Washdown Hose</td>
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<td></td>
<td>3/4&quot;</td>
<td>Enameled Steel/Stainless Steel</td>
<td>047 Hose Reel</td>
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<td>10</td>
<td></td>
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<td>WM-293</td>
<td></td>
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</tr>
</tbody>
</table>

* Valve only at 37°C X 1" @ 4 bar steam/water to OPEN outlet.

† 2.7 m/s flow velocity

All steam equipment comply with the Pressure Equipment Directive PED 97/23/EC. For details, see specific product page or Armstrong PED Certificate.
**STEAMIX® Will Not Pass Live Steam**

**Whisper quiet** operation is achieved by special steam diffuser design.

**Rugged** steam valve seat is made from new high-temperature-resistant polymer.

**Will not pass live steam** if cold water pressure falls or fails completely.

**Fails safe** STEAMIX® will deliver only cold water if the primary operating component (diaphragm) is damaged.

**Intrinsically safe** operating principle means steam can flow only if water is already flowing.

**Reliable** all stainless steel internal parts move freely every time flow takes place.

**User friendly** single-handle temperature control means no “juggling” of inlet supply globe valves is required to find temperature.

**Flexibility** of application allows STEAMIX® to operate at lower steam pressures than older style dual globe valve Mixing “Y.”

**Lock in the temperature** Tamper-resistant locking device option allows STEAMIX® to be preset to a desired temperature and locked. Discourages adjustment by unauthorized personnel.

**2-years warranty** on mixing unit wetted components
Engineered for Safety and Reliability

The Safest Steam and Water Mixing Valve

STEAMIX® mixing valve, featured on all STEAMIX Steam and Water Hose Stations by Armstrong, WILL NOT PASS LIVE STEAM in the event of either a significant pressure reduction or complete failure of the cold water supply.

STEAMIX is designed to improve efficiency and reduce risk when mixing STEAM and WATER for washdown. When your process demands high washdown temperatures, adjusting the mix of steam and water becomes much more difficult and dangerous. With the older style dual globe valve Mixing “Y,” it is only too easy to introduce too much steam – with risky consequences for your personnel. Not with STEAMIX!

Four Steps to Maximum Safety and Effectiveness

1. STEAMIX has a single control lever for ease of temperature selection. With three full turns from cold to full hot, STEAMIX can deliver an infinite range of outlet temperatures OR can be “locked” at a predetermined single setting that the user cannot override. No proportioning or “juggling” of inlet supplies necessary to find temperature.

2. It is mechanically impossible for STEAMIX to operate without cold water pressure upon its main operating diaphragm. Because the operating diaphragm dictates if and how much the steam poppet will open, the valve is intrinsically safe. THE UNIT IS INOPERABLE WITHOUT A COLD WATER SUPPLY!

3. Because every moving part of STEAMIX is exercised during operation, and it does not rely upon tightly fitted metal-to-metal internal components, high mineral content water supplies become more manageable. Keep using the valve and the “free flowing” internal components will remain functional.

4. STEAMIX, like all mechanical equipment, has the potential for internal component failure. If the primary operating mechanism (diaphragm) within STEAMIX fails, the unit will pass only cold water.
Assembly 2030 – Standard
STEAMIX 2030 comprises a STEAMIX Steam/Water Mixing Valve of brass/stainless steel (SS) construction.

STEAMIX 2030 is a steam/water heater and is recommended for use in various washing machines, vessel filling, container “top off,” barrel washing and other similar applications.

STEAMIX 2030 is designed for a horizontal (temperature control handle at top) installation and is supplied as standard with a SS wall mounting bracket. Consult drawing below for suggested installation/mounting orientation.

Assembly 2030S – Premium
As above, with corrosion-resistant industrial nickel-plated finish.

Safety
- In the event of either a complete failure of the inlet cold water supply or a reduction in cold water pressure to below 1.3 bar (+/- 0.3 bar) STEAMIX will respond with a complete shutdown of outlet flow.
- In the event of a structural failure of the primary operating component (diaphragm), STEAMIX will “fail-safe” to cold water.
- To prevent over-temperature selection by the user and the potential for overheated water and flash steam presentation common with other types of hose stations, STEAMIX can be provided with either a single temperature lock-out or maximum temperature limiting option.

Technical Specifications
- 3/4” NPT inlets and outlet(s)
- Brass and stainless steel construction with double-sided ultra-durable EPDM diaphragm
- Operating pressures for steam and water:
  - Maximum: 10 bar
  - Minimum: 1.4 bar
- Inlet check valves strongly recommended; not supplied
- Shipping weight: 12.7 kg

† IMPORTANT NOTE: Lower steam pressures significantly reduce outlet flow rates.

Flow Rates
The capacity charts indicate STEAMIX 203 flow rates at steam and water pressures commonly available in the average manufacturing plant. The STEAMIX 203 can handle a wide diversity of pressures and temperatures. Three typical outlet temperatures shown in the flow tables were selected to demonstrate the valve’s flow rate at:
- A) “User safe” temperature (approx. 48°C)
- B) “Hot hose down” temperature (approx. 65/71°C)
- C) “Common bacteria kill” temperature (approx. 82°C)★

Note: All flow rates shown are with open outlet, and a reduction of flow is to be expected depending on the length and diameter of outlet pipework, washdown hose, spray nozzle, etc.

★ The phrase “common bacteria kill” is not meant to imply sterilization capability but to indicate the ability of STEAMIX 203 to handle the higher temperatures required in food, beverage, pharmaceutical plants, etc.

This model comply with the article 3.3 of the PED (97/23/EC).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Assembly 2031 – Standard
STEAMIX 2031 comprises a STEAMIX Steam/Water Mixing Valve of brass/stainless steel (SS) construction.

STEAMIX 2031 is supplied as standard with integral inlet supply risers comprising 3/4" Y-Type strainers and 3/4" ball valves cross-linked by a SS bridge piece and lever for simultaneous on/off control of both inlet supplies. Unit is supplied fully assembled and pressure tested. Inlet check valves required.

STEAMIX 2031 is a steam/water heater and is recommended for use in various vessel filling, container “top off,” barrel washing and other similar applications or for use as a hose station when a hose reel is desired.

Assembly 2031S – Premium
As above, with corrosion-resistant industrial nickel-plated finish and integral inlet check valves.

Safety
- In the event of either a complete failure of the inlet cold water supply or a reduction in cold water pressure to below 1.3 bar (+/- 0.3 bar) STEAMIX will respond with a complete shutdown of outlet flow.
- In the event of a structural failure of the primary operating component (diaphragm), STEAMIX will “fail-safe” to cold water.
- To prevent over-temperature selection by the user and the potential for overheated water and flash steam presentation common with other types of hose stations, STEAMIX can be provided with either a single temperature lock-out or maximum temperature limiting option.

Technical Specifications
- 3/4" NPT inlets and outlet(s)
- Brass and stainless steel construction with double-sided ultra-durable EPDM diaphragm
- Operating pressures for steam and water:
  - Maximum: 10 bar
  - Minimum: 1.4 bar
- Inlet check valves strongly recommended; not supplied
- Shipping weight: 13.6 kg

IMPORTANT NOTE: Lower steam pressures significantly reduce outlet flow rates.

Flow Rates
The capacity charts indicate STEAMIX 203 flow rates at steam and water pressures commonly available in the average manufacturing plant. The STEAMIX 203 can handle a wide diversity of pressures and temperatures. Three typical outlet temperatures shown in the flow tables were selected to demonstrate the valve’s flow rate at:

A) “User safe” temperature (approx. 48°C)
B) “Hot hose down” temperature (approx. 65/71°C)
C) “Common bacteria kill” temperature (approx. 82°C)**

Note: All flow rates shown are with open outlet, and a reduction of flow is to be expected depending on the length and diameter of outlet pipework, washdown hose, spray nozzle, etc.

** The phrase “common bacteria kill” is not meant to imply sterilization capability but to indicate the ability of STEAMIX 203 to handle the higher temperatures required in food, beverage, pharmaceutical plants, etc.

This model comply with the article 3.3 of the PED (97/23/EC).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Assembly 2032 – Standard
STEAMIX 2032 comprises a STEAMIX Steam/Water Mixing Valve of brass/stainless steel (SS) construction with optional nickel-plated finish (VES).

STEAMIX 2032 is supplied as standard with integral inlet supply risers comprising 3/4” Y-Type strainers and 3/4” ball valves cross-linked by a SS bridge piece and lever for simultaneous on/off control of both inlet supplies. Complete unit is supplied fully assembled and pressure tested, installed on a SS hose rack. Inlet check valves required.

Assembly 2032S – Premium
As above, with corrosion-resistant industrial nickel-plated finish and integral inlet check valves.

Safety
- In the event of either a complete failure of the inlet cold water supply or a reduction in cold water pressure to below 1.3 bar (+/- 0.3 bar) STEAMIX will respond with a complete shutdown of outlet flow.
- In the event of a structural failure of the primary operating component (diaphragm), STEAMIX will “fail-safe” to cold water.
- To prevent over-temperature selection by the user and the potential for overheated water and flash steam presentation common with other types of hose stations, STEAMIX can be provided with either a single temperature lock-out or maximum temperature limiting option.

Technical Specifications
- 3/4” NPT inlets and outlet(s)
- Brass and stainless steel construction with double-sided ultra-durable EPDM diaphragm
- Operating pressures for steam and water:
  - Maximum: 10 bar
  - Minimum: 1.4 bar
- Inlet check valves strongly recommended; not supplied
- Shipping weight: 18 kg

† IMPORTANT NOTE: Lower steam pressures significantly reduce outlet flow rates.

Flow Rates
The capacity charts indicate STEAMIX 203 flow rates at steam and water pressures commonly available in the average manufacturing plant. The STEAMIX 203 can handle a wide diversity of pressures and temperatures. Three typical outlet temperatures shown in the flow tables were selected to demonstrate the valve’s flow rate at:
A) “User safe” temperature (approx. 48°C)
B) “Hot hose down” temperature (approx. 65/71°C)
C) “Common bacteria kill” temperature (approx. 82°C)**

Example: Table WM-284-1

** The phrase “common bacteria kill” is not meant to imply sterilization capability but to indicate the ability of STEAMIX 203 to handle the higher temperatures required in food, beverage, pharmaceutical plants, etc.

This model comply with the article 3.3 of the PED (97/23/EC).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Assembly 2033 – Standard
STEAMIX 2033 comprises a STEAMIX Steam/Water Mixing Valve of brass/stainless steel (SS) construction.

STEAMIX 2033 is supplied as standard with integral inlet supply risers comprising 3/4" Y-Type strainers and 3/4" ball valves cross-linked by a SS bridge piece and lever for simultaneous on/off control of both inlet supplies. Unit is supplied fully assembled and pressure tested, installed on a SS Hose rack.

STEAMIX 2033 also includes SS dual scale outlet thermometer, 7.5 m of “Safety Yellow” washdown hose rated for 28 bar and 88°C, low heat transfer polymer spray nozzle with trigger guard, swivel adapter and SS nozzle hook. Inlet check valves required.

Assembly 2033S – Premium
As above, with corrosion-resistant industrial nickel-plated finish and integral inlet check valves.

Safety
- In the event of either a complete failure of the inlet cold water supply or a reduction in cold water pressure to below 1,3 bar (+/- 0,3 bar) STEAMIX will respond with a complete shutdown of outlet flow.
- In the event of a structural failure of the primary operating component (diaphragm), STEAMIX will “fail-safe” to cold water.
- To prevent over-temperature selection by the user and the potential for overheated water and flash steam presentation common with other types of hose stations, STEAMIX can be provided with either a single temperature lock-out or maximum temperature limiting option.

Technical Specifications
- 3/4" NPT inlets and outlet(s)
- Brass and stainless steel construction with double-sided ultra-durable EPDM diaphragm
- Operating pressures for steam and water:
  - Maximum: 10 bar
  - Minimum: 1,4 bar
- Inlet check valves strongly recommended; not supplied
- Shipping weight: 29 kg

1 IMPORTANT NOTE: Lower steam pressures significantly reduce outlet flow rates.

Flow Rates
The capacity charts indicate STEAMIX 203 flow rates at steam and water pressures commonly available in the average manufacturing plant. The STEAMIX 203 can handle a wide diversity of pressures and temperatures. Three typical outlet temperatures shown in the flow tables were selected to demonstrate the valve’s flow rate at:
- A) “User safe” temperature (approx. 48°C)
- B) “Hot hose down” temperature (approx. 65/71°C)
- C) “Common bacteria kill” temperature (approx. 82°C)†††

Note: All flow rates shown are with open outlet, and a reduction of flow is to be expected depending on the length and diameter of outlet pipework, washdown hose, spray nozzle, etc.

††† The phrase “common bacteria kill” is not meant to imply sterilization capability but to indicate the ability of STEAMIX 203 to handle the higher temperatures required in food, beverage, pharmaceutical plants, etc. This model comply with the article 3.3 of the PED (97/23/EC).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
The Armstrong Series 4000 Detergent Injection System is designed specifically to introduce detergent or a sanitizing liquid into the flowing line for washdown purposes.

The Armstrong Series 4000 pumped system is designed to maximize the available washdown water pressure and volume to achieve maximum plant hygiene in the shortest possible time.

Because the Armstrong Series 4000 pump is driven by compressed air, no electrical hook-ups are required in your washdown areas.

The Armstrong Series 4000 Detergent Injection System incorporates an all polymer construction pneumatic pump with a Teflon internal operating diaphragm and 1/4" connections. Each unit comes supplied with an in-line air filter, pressure gauge, air and chemical flow regulating needle valves, all preassembled, piped and pressure tested. The pump assembly is first mounted on a stainless steel 292 x 343 mm wall plate with a 133 mm shelf, then secured within a NEMA 4X rated fiberglass enclosure with stainless steel latches and padlock hasps. The 304 x 355 x 203 mm enclosure features a shatterproof 254 x 304 mm Lexan “view” window. The complete assembly includes 1/4" air inlet and chemical inlet and 1/4" outlet fittings, a detergent supply hose with strainer, an outlet ball valve for flow control and two check valves to eliminate cross connection potential (an in-line vacuum breaker is also available for installation where local code stipulates).

The Armstrong Series 4000 is recommended for use with existing washdown stations or as an accessory item to Armstrong Models 1033-25/50, 2033-25/50 and 3033-25/50.

The durable, low-maintenance PVDF and Teflon pump unit is designed for liquid chemical flows to 0.34 m³/h and is suitable for inlet air pressure supplies up to 8.6 bar. The pump unit is designed to shut itself off in a no-flow condition and then reactivate upon flow demand, thereby giving “remote” operation at the end of the primary washdown hose by using a self-closing trigger spray nozzle.

Supplied fully assembled and pressure tested with the following standard components:
- 1/4" NPT air line connection
- 1/4" PVDF/Teflon pneumatic pump
- 1 needle valve
- Detergent supply hose with intake filter/foot strainer
- 2 check valves and outlet ball valve
- Air filter with pressure gauge
- Housed in durable fiberglass enclosure with Lexan window

Technical Specifications
- Pump flow capacities up to 0.34 m³/h
- Chemical mix ratios up to 100:1
- Maximum operating air pressure 8.6 bar
- Shipping weight: 12 kg

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Hose Station Cabinet Assembly

**FMCD**
The FMCD (Flush Mount Cabinet with Doors) is designed for recessed installation. A type 304 stainless steel, two-door cabinet with a 50 mm flange. Cabinet doors feature a recessed "toggle" handle. All exposed surfaces have a #4 brushed finish. The bottom of the cabinet is crosscut to drain any water accidentally discharged within the cabinet via a 1/2" NPT hole and plug, which is provided for optional connection to an external drain.

The FMCD is designed specifically to house the following hose stations:
- 1033-25/50
- 2033-25/50 (shown above)
- 3033-25/50

FMCD cabinets include, as standard, integral check valves (039V-S), union connections on each inlet supply, a separate 3/8" utility tapping and a utility inlet/inspection port.

To specify, tag the model number of the hose station selected with FMCD. For example, 2033 FMCD. Maximum hose length that can be installed within FMCD is 15 m.

FMCD cabinets are manufactured to order and can be modified to include custom requirements such as increased dimensions, vacuum breakers, compressed air and/or fluid lines, pressure reducing valves and gauges, extra hose lengths, and more.

**SMCD**
SMCD (Surface Mounted Cabinet with Doors) is the same as FMCD except it is designed for surface installation and is supplied without the 2" flange, utility line tapping and utility inlet/inspection port.

Please consult your local Representative.

Dimensions supplied are approximate for design purposes only. Dimensions may vary dependent upon mixing unit selected. Check with factory prior to installation.

Shipping weight (cabinet only): 68 kg

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All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Assembly HBWM

The HBWM (Heated Box Wall Mounted) cabinet is designed for outside all-weather use. The aluminum cabinet features a single door hinged left with a 4 1/2” wall flange for mounting.

To ensure freeze protection, the cabinet will contain an SS fin tube steam coil for cabinet heating with an Armstrong 2010 SS steam trap for condensate removal. The SS fin tube steam coil shall emit 1090 kJ/h at 3 bar steam; 1320 kJ/h at 7 bar steam and 1485 kJ/h at 10 bar steam. In event of steam shutdown during freezing conditions, a 500 watt 5 amp 110 volt AC heater is included for backup. When freeze protection is not desired, the steam coil may be turned off by an inlet ball valve.

The HBWM will include the STEAMIX 2031 Steam/Water Hose Station of brass/stainless steel construction with single handle temperature control, “Fail Safe” feature, integral inlet supply risers comprising 3/4” Y-type strainers and 3/4” ball valves cross-linked by an SS bridge piece and lever for simultaneous on/off control of BOTH inlet supplies and SS dual scale top mount thermometer. The HBWM shall also include 3/4” inlet vertical check valves, inlet unions, complete steam coil/trap assembly, 500 watt 5 amp 110 volt AC heater, and bottom hose outlet quick-disconnect, which allows the washdown hose to be removed and stored indoors when required. Unit supplied pressure tested and fully assembled with a “satellite” hose rack (part #041) for mounting immediately adjacent to the cabinet.

HBWM cabinet assemblies require the additional specification of Washdown Hose (035-length), Spray Nozzle (038) and Locking Assembly (042).

Technical Specifications

• 3/4” NPT inlets and outlet
• Red brass and stainless steel construction
• Operating pressures for steam and water:
  Maximum: 10 bar
  Minimum: 1.4 bar*
• Maximum pressure loss ratio 10:1**
• Inlet check valves included
• R factor: 8
• For shipping weight, consult factory

* Low steam pressures reduce flow rates. Always refer to flow tables and calculations to ensure complete satisfaction.
** Ratio of inlet pressures accounting for restrictions on valve outlet (minus back pressure).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Flow Indicator

Ball Type Flow Indicators (BFI)

Principle of Operation. To monitor gas, air, oil, water and other fluids at both maximum and minimum flow rates. The action is simple and highly visible. The flow makes the white ball oscillate in the dome. If the flow stops, the ball drops out of sight. The movement of the ball cannot be missed even in poorly lighted areas and at significant distances, which eliminates guesswork. With only one moving part – the ball – there is nothing to go wrong.

Sizes and Models. The Standard type ball flow indicator is made in 1/2”, 3/4” and 1” NPT sizes, having a die-cast brass body with a shatter-resistant borosilicate dome. The indicators are suitable for temperatures up to 82°C and pressures up to 7 bar.

The 1/2” BFI only is supplied as standard with special high-temperature joint rings and a glass-filled PTFE Teflon ball permitting use with temperatures up to 120°C.

The High Pressure model of the 1/2” BFI has an aluminum bronze body and high-pressure cap assembly for pressures up to 21 bar and contains a high-temperature ball for up to 120°C.

The Stainless Steel 1/2” BFI with Type 316 stainless steel body, high temperature ball and Teflon joint rings is suitable for use with pressures up to 7 bar maximum and temperatures up to 120°C maximum.

Flow Rates

Installation. All Armstrong Ball Flow Indicators are supplied with NPT female-threaded connections. The ball flow indicator must be installed horizontally with the glass dome upwards, so that the indicator ball will drop out of sight when the flow stops. It must be installed so that flow takes place in the direction of the arrow stamped on the indicator body.

Large Diameter Pipes. Flow is easily indicated in large diameter pipes by installing the Armstrong Ball Flow Indicator in parallel with the large diameter pipe.

Maintenance. With only one moving part – the ball – there is practically no maintenance required.

Shipping weights

1/2” BFI 0,9 kg
3/4” BFI 1,8 kg
1” BFI 1,8 kg

Table WM-289-1. Flow Rates

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<th>Flow Indicator Size</th>
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Table WM-289-2. Dimensions

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<tr>
<th>Dimensions in Millimeters</th>
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<td>20 &amp; 25</td>
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All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
038TG Spray Nozzle
The Series 038TG (Trigger Guard) was designed to address several high-temperature washdown issues and concerns.

Heat: Nozzle is rated to 93°C. Washdown water does not pass through the handgrip, increasing user comfort and protection.

Operation: “Lock out” lever and trigger guard minimize the possibility of unintentional operation. Spray nozzle cannot be locked open, which prevents inadvertent discharge when water flow is controlled upstream.

Spray Direction: Well-defined nozzle and ergonomically designed trigger guard and handgrip reduce the potential for self-directed discharge.

Spray Volume: Designed to deliver up to 3.6 m³/h, the 038TG is ideal for the typical industrial washdown application.

Durability: Rugged, shatter-resistant polymer housing resists chemicals and heat better than standard rubber-covered equipment, for longer service life.

Technical Specifications
- 1/2” inlet
- 10 bar maximum operating pressure
- 93°C maximum operating temperature
- Weight: 0.6 kg
- Black polymer construction with brass/stainless steel internal wetted parts

038 Spray Nozzle
Weight: 1.1 kg

Replaced by 038TG on STEAMIX Hose Stations, 038 is suggested for washdown applications below 60°C. It comes with a black, heavy-duty, field-replaceable cover. The rear trigger reduces operator fatigue, and the unit conforms to the longstanding spray nozzle design common in many facilities.

Also available in White. Consult factory for details.

038SS
Weight: 1.1 kg

As above in 316 stainless steel with grey rubber cover.

Note: design/style difference in photograph.

038AL (not shown)
Weight: 0.7 kg

As above in “lightweight” aluminum with light blue rubber cover.

Note: Armstrong recommends the use of heat-protective gloves, garments and safety glasses at all times during the washdown procedure.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Washdown Equipment

038TG-EX Spray Nozzle
The Series 038TG-EX (Trigger Guard-Extension) was designed to address several high-temperature washdown issues and concerns.

Heat: Nozzle is rated to 93°C. Washdown water does not pass through the handgrip, increasing user comfort and protection.

Operation: “Lock out” lever and trigger guard minimize the possibility of unintentional operation. Spray nozzle cannot be locked open, which prevents inadvertent discharge when water flow is controlled upstream.

Spray Management: The 914 mm extension helps the operator clean hard-to-reach areas. Jet-spray and fan-spray tips (included) offer a choice of spray patterns.

Safety and Ease of Use: The 038TG-EX comes fully assembled with two barrel insulators, trigger guard, trigger lock, and support handgrip.

Durability: Rugged, shatter-resistant polymer housing resists chemicals and heat better than standard rubber-covered equipment, for longer service life.

Technical Specifications
- 1/2" inlet
- 10 bar maximum operating pressure
- 93°C maximum operating temperature
- Weight: 2 kg
- Black polymer construction with brass/stainless steel internal wetted parts
- 914 mm extension wand with two barrel insulators and support hand grip
- 1.8 m³/h @ 3 bar

Note: Armstrong recommends the use of heat-protective gloves, garments and safety glasses at all times during the washdown procedure.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Assembly 035 Washdown Hose

Heavy duty Washdown Hose is recommended for water temperatures up to 87.7°C and working pressure up to 28 bar. Designed to withstand the intensities of the industrial environment. Hose is supplied as standard in 7.5 m and 15 m lengths with custom lengths available on demand. Each hose assembly is provided as standard with a 3/4" live male swivel fitting at supply/inlet and a 1/2" live male swivel at the spray/outlet. Each fitting has a one-piece hose barb with ferrule, which is pressure-crimped to resist detachment during use. The supply/inlet end is protected by an anti-kink spring guard to reduce hose fatigue at a primary stress point.

Supplied in Armstrong “Safety Yellow” as standard but may be ordered in differing specifications that alter temperature and pressure ratings in Red, Black, Green or White “Creamery/Packing House” style hose.

Note: Industrial washdown can be a rigorous procedure, and there is a fine relationship between weight and flexibility to reduce user fatigue, and strength and durability, which promote user safety. Armstrong Washdown Hose should not be considered functionally infallible. However, provided that the hose is installed as supplied, the users correctly trained, and the hose is then commissioned, operated, routinely inspected and maintained, the risk of injury because of product failure, while never eliminated, is substantially reduced.

Technical Specifications

- Recommended maximum temperature 87.7°C
- Maximum working pressure 28 bar
- “Safety Yellow” smooth MSHA approved finish
- Anti-kink spring guard and pressure-crimped ferrule
- 4:1 safety factor
- Live swivel connectors at each end
- Lightweight
- Shipping weight
  - 7.5 m: 7 kg
  - 15 m: 12 kg

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.
Washdown Equipment

047-81 Hose Reel
Red Spring Retractable Hose Reel for use with all Armstrong Hose Station assemblies. Guide arm is field adjustable for wall, floor or ceiling mounting. Compact hose reel capable of holding 15 m of 3/4” Washdown Hose.* Includes hose bumper stop and 1,2 m adapter hose from hose reel to hose station.

047-81SS Hose Reel
As above in stainless steel.

047-82 Hose Reel
Red Spring Retractable Hose Reel for use with all Armstrong Hose Station assemblies. Guide arm is field adjustable for wall, floor or ceiling mounting. Compact hose reel capable of holding 22,8 m of 3/4” Washdown Hose.* Includes hose bumper stop and 1,2 m adapter hose from hose reel to hose station.

The 047-82 supersedes the 047-1.

047-82SS Hose Reel
As above in stainless steel.
The 047-82SS supersedes the 047-SS.

* Hose and spray nozzle supplied separately.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.