ColorTech BT Laboratory Service Fittings
WaterSaver Faucet Co. is celebrating 70 years of service to the laboratory industry. From humble origins, we have grown to become the largest worldwide manufacturer of taps, valves, safety equipment and related products for use in science laboratories.

We are in our third generation of family ownership and management, but continue to execute the strategy established by our founders: never compromise on quality, respond to the needs of our customers and treat people with dignity and respect. We are as dedicated to these values today as the day we started.

All WaterSaver products are manufactured in Chicago, Illinois, USA in two state-of-the-art manufacturing plants. Both facilities are Gold certified by the U.S. Green Building Council under the “Leadership in Energy and Environmental Design” (LEED) program for environmental sustainability and energy efficiency.

This ColorTech BT Laboratory Service Fitting catalog (CTBT-LSF-0619) presents an overview of our ColorTech BT range of laboratory fittings. The models shown here are representative of the over 1,000 models in this product range. For further information, please visit our website (wsflab.com) or consult with our sales offices.

All WaterSaver products are designed and manufactured to meet or exceed industry standards, including Scientific Equipment and Furniture Association standard SEFA 7-2007 “Recommended Practice for Laboratory Service Fixtures.”

We owe our success to the contributions of dedicated employees and the loyalty of our customers. For 70 years, we have devoted ourselves to fulfilling the confidence placed in us by those who buy and use our products. We are dedicated to continuing that tradition for generations to come.

Steven A. Kersten
President

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Additional Resources

In addition to the products shown in this catalog, WaterSaver offers the following catalogs highlighting additional segments of our product line:

Product Finishes
Fume Cupboard Fittings
Pressure Regulator Fittings
Flexible Lab Fittings
Laboratory Safety Equipment
Installation, Operation and Maintenance Guide
**Standard Product Line**

**FEATURES:**
- Styling traditionally used in the U.S. market.
- Polished chrome plated finish is standard. Options for polished chrome with clear epoxy coating and satin finishes.
- Product engineering, including indexing, inlet connections and threads, based on U.S. standards.

**PRODUCT RANGE:**
- Laboratory Service Fixtures
- Fume Hood Fittings
- Electrical Fixtures
- Pressure Regulator Fixtures
- Vandal-Resistant Products
- Laboratory Safety Equipment
- Installation, Operation and Maintenance Products

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**ColorTech Product Line**

**FEATURES:**
- Sleek, streamlined “European” styling.
- White epoxy powder coated finish is standard. Options for additional colors, polished chrome and satin finishes.
- Product engineering, including indexing, inlet connections and threads, based on U.S. standards.

**PRODUCT RANGE:**
- Laboratory Service Fixtures
- Fume Hood Fittings
- Electrical Fixtures
- Pressure Regulator Fixtures
- Vandal-Resistant Products
- Laboratory Safety Equipment
- Installation, Operation and Maintenance Products
**ColorTech BT Product Line**

**FEATURES:**
- Sleek, streamlined “European” styling.
- White powder coated finish is standard. Options for additional colors, polished chrome and satin finishes.
- Product engineering, including indexing, inlet connections and threads, based on international norms and standards.

**PRODUCT RANGE:**
- Laboratory Service Fittings
- Fume Cupboard Fittings
- Pressure Regulator Fittings
- Laboratory Safety Equipment
- Installation, Operation and Maintenance Products

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**Flexible Lab Fittings**

**FEATURES:**
- Fittings for flexible/reconfigurable laboratories.
- Polished chrome plated finish.
- Product engineering, including indexing, inlet connections and threads, complies with U.S. and international norms and standards.

**PRODUCT RANGE:**
- Quick Connects
- Flexible Hose Connectors
- Service Manifolds
- Modular Panel Systems
WaterSaver ColorTech BT water fittings utilize an interchangeable renewable unit cartridge that incorporates a replaceable stainless steel seat. Fittings are certified by (i) CSA International to meet the requirements of ANSI/ASME A112.18.1M and CAN/CSA B.125.M89 and (ii) the Water Regulations Advisory Scheme (WRAS) of the United Kingdom under EN 200. All water fittings meet the requirements of SEFA-7 “Recommended Practices for Laboratory Service.” Features of WaterSaver water fittings include:

**Coupling**
- Coupling has G3/8 thread for attachment of outlet fittings.

**Cartridge**
- WaterSaver self-contained renewable cartridge (see below for key features). All working components are contained in the cartridge.

**Dimensions**
- Goosenecks are available in 100mm (4’’), 150mm (6’’), 200mm (8’’), 230mm (9’’), 254mm (10’’) and 305mm (12’’) spreads as standard. Other spreads and special heights are made to order.

**Gooseneck**
- Gooseneck is fabricated from 3/8” IPS size brass tubing with a 2.2mm (.085”) wall for maximum strength and durability.
- Gooseneck has either rigid or convertible rigid/swing construction. Select the construction most suitable for the particular application.

**Hose End**
- Anti-splash seven serration hose end reduces spraying and splashing while accommodating a wide range of tubing sizes with maximum gripping ability.

**Handle**
- Molded nylon hooded handle for ease of gripping and turning. Handle conceals valve stem. Handle is color coded and indexed per EN 13792.

**Body**
- Forged brass body for superior strength and surface finish.

**Packing**
- Molded PTFE stem packing. Seals valve stem and prevents leakage over hundreds of thousands of cycles.

**Seat**
- Valve seat is stainless steel. Ultra-hard seating surface provides durable service in even the harshest water conditions.

**Barrel**
- Barrel has outer serrations to lock into tap body. Unit cannot turn or move in tap body, even with wrist blade or lever handles.

**Volume Control**
- Optional adjustable volume control regulates flow of water through valve. By adjusting orifice, volume control can be used to conserve water, compensate for high water pressure, minimize splashing and achieve precise flow control.
WaterSaver water fittings are available with a choice of three valve cartridges. All three cartridges are dimensionally identical and therefore totally interchangeable.

All cartridges are completely self-contained and include all working components of the valve mechanism. No wearing components are separate from the valve unit. The tap body itself is thus not subject to wear, making it virtually everlasting. Replacement of the cartridge instantly produces a “new” tap or valve.

**Compression Unit (BT Series)**

- Cartridge has outer serrations to lock into tap body. Unit cannot turn or move in tap body, even with wrist blade handles.
- Molded PTFE stem packing seals valve stem. Packing prevents leakage over hundreds of thousands of cycles. Adjustable packing nut permits take-up of wear.
- Valve seat is stainless steel. Ultra-hard seating surface provides durable service in even the harshest water conditions. Seat will outperform brass or other materials.
- Hard synthetic rubber valve disc provides positive shut-off of water flow. Valve does not have “spongy” feel.
- Manual and self-closing valve units are interchangeable. Field conversion can be accomplished in seconds.

**Compression Unit with Adjustable Volume Control (BTA Series)**

- Same construction features as compression unit (stainless steel seat, PTFE stem packing, etc.).
- Adjustable volume control can be adjusted to regulate size of inlet port of valve. Volume control may be used to compensate for high water pressure and conserve water.

**Ceramic Disc Unit (BTC Series)**

- Rotating ceramic discs control flow of water. Discs are ultra-hard and self-lubricating for durable service.
- 180° rotation from closed to open to permit metering of flow. Available with optional 90° rotation for use with wrist blade handles.
- Wear-resistant thrust washer is low friction for smooth opening and closing of valve.
- Internal baffles reduce noise as water flows through valve.
WaterSaver gooseneck water fittings are available with a choice of two types of gooseneck construction. Each type of construction has its own advantages; lab designers and users can therefore choose the type of gooseneck best suited to their particular application.

Goosenecks are fabricated from heavy wall brass tubing with a wall thickness of 2.2mm (.085”). Goosenecks will therefore resist bending and stand up to even the most demanding lab conditions.

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**Rigid Construction (RG Series)**

- Gooseneck is threaded directly into top of tap body.
- Gooseneck is held absolutely rigid and cannot be turned. This type of construction is advantageous at cup sinks where the tap outlet should be directed over the sink at all times.
- Taps may be ordered with gooseneck positioned as right hand, left hand or 180°. If not specified, right hand position is furnished.

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**Rigid/Swing Construction (RS Series)**

- Gooseneck has union-style construction with union nut and two O-ring seals.
- Taps with rigid/swing goosenecks may be installed in the field in either rigid or swing configuration. Two spacers are furnished with each gooseneck. For rigid construction, the brass spacer is installed. For swing construction, the nylon spacer is installed. Taps may be readily converted from rigid to swing and vice versa.
- Union-style construction facilitates changing goosenecks in the field, should a different spread or height be desired. Simply loosen union nut, remove the gooseneck and install the replacement gooseneck.
The ColorTech BT product range incorporates a wide variety of valves for laboratory gas services. Lab planners and users can select the valve best suited for any particular application. Key features and options of these valves are as follows:

**Outlet**
Valves have a G3/8 female outlet. A wide array of outlet fittings (serrated hose ends, quick connects, compression fittings, etc.) may be installed.

**Handle**
Molded nylon hooded handle for ease of gripping and turning. Handle conceals valve stem and packing nut. Handle is color coded and indexed per EN 13792.

**Body**
Forged brass body for superior strength and surface finish.

**Purity**
ColorTech BT fittings are available in both brass and stainless steel construction. Fittings may be used for ultra-high purity (5.0) and standard lab gases. Fittings can accommodate the most demanding lab requirements.

**Valve Construction**
Internal valve construction depends on the requirements of the particular application. Valve types include:

- **Fine Control Needle Valve**
  Precise flow control and high purity gas use.

- **Needle Valve**
  Good flow control for all lab gases.

- **Push/Turn Gas Valve**
  For burning gases. Locking safety handle mechanism prevents accidental opening. Furnished with pop-up indicator buttons to indicate if valve is open or closed.
Fine control needle valves provide precise flow control of all laboratory gases. They are used where precision metering of flow and higher working pressures are involved. Valves are individually tested at 25 bar (375 PSI) nitrogen pressure and are rated for use at working pressures up to 17 bar (250 PSI). Fine control needle valves are cleaned for high purity gas as standard. All fine control needle valves meet the requirements of SEFA-7 “Recommended Practices for Laboratory Service Fixtures.” Features of these valves include:

- Floating stainless steel needle self-centers on valve seat. As the valve is used, the needle and seat form a matched fit, making the valve easier to open and close. The valve actually “improves with age.”

- Valves are specially cleaned, lubricated, assembled and packaged for oxygen and high purity gas service. Please refer to WaterSaver standard procedure “Cleaning for Pure Gas Systems” for further information.

- Ultra-fine stem threads for micro-control. Valve goes from closed to fully open in six full revolutions of the handle, thus giving the user a wide range of settings to select when throttling the flow. Valve is capable of delivering one bubble of nitrogen or other special gas at a time.

- Molded PTFE stem packing with adjustable packing nut. Packing seals valve stem into body. Adjustable nut permits take-up of wear, minimizing the need to ever replace packing.

- Replaceable stainless steel seat threads into valve body. While the valve seat is easily replaced, there is rarely a need to do so since the valve improves with use.
Engineering Information

Needle Valves

Standard needle valves provide excellent flow control of all laboratory gases. They are the most versatile and widely used WaterSaver valve, well suited for almost every laboratory application. Valves are certified by CSA International to comply with ANSI Z21.15 and CGA 9.1 for use on natural gas systems at pressures up to 1/2 PSI. Valves are individually tested at 17 bar (250 PSI) nitrogen pressure and are rated for use at working pressures up to 10 bar (150 PSI). All needle valves meet the requirements of SEFA-7 “Recommended Practices for Laboratory Services Fixtures.” Features of these valves include:

- Replaceable stainless steel seat threads into valve body. While the valve seat is easily replaced, there is rarely a need to do so since the valve improves with use.
- Fine stem threads for good metering of flow. Valve goes from closed to fully open in two full revolutions of the handle.
- Where used for oxygen and other pure gases, valves are specially cleaned, lubricated, assembled and packaged to maintain and enhance the purity of the media. Please refer to WaterSaver standard procedure “Cleaning for Pure Gas Systems” for further information.
- Molded PTFE stem packing with adjustable packing nut. Packing seals valve stem into body. Adjustable nut permits take-up of wear, virtually eliminating the need to ever replace packing.
- Floating stainless steel needle self-centers on valve seat. As the valve is used, the needle and seat form a matched fit, making the valve easier to open and close. The valve actually “improves with age.”

Please refer to WaterSaver standard procedure “Cleaning for Pure Gas Systems” for further information.
WaterSaver Faucet Co. offers a wide selection of valves for use with laboratory gases. The selection of a valve for any particular application depends upon many factors, including the working pressure of the gas, the degree of metering or control desired and the characteristics (including the corrosiveness) of the gas. This Valve Selection Guide is presented to assist in selecting the most appropriate valve for an application. However, care must be taken in selecting valves and WaterSaver cannot be responsible for the results obtained from using any particular valve in any particular application. In particular, reference must be made to applicable plumbing and piping codes, life safety standards and project specifications when selecting valves.

### Valve Selection Guide

<table>
<thead>
<tr>
<th>Models</th>
<th>Fine Control Needle Valve</th>
<th>Standard Needle Valve</th>
<th>Push/Turn Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BT2870, BT3170, BT4870, BT5170, etc.</td>
<td>BT2880, BT3180, BT4880, BT5180, etc.</td>
<td>BT2860, BT3160, BT4860, BT5160, etc.</td>
</tr>
<tr>
<td>Construction</td>
<td>Needle Point</td>
<td>Needle Point</td>
<td>Ceramic Disc</td>
</tr>
<tr>
<td>Control</td>
<td>Precise Metering</td>
<td>Good Metering</td>
<td>On/Off</td>
</tr>
<tr>
<td>Body Material</td>
<td>Brass or St Steel</td>
<td>Brass or St Steel</td>
<td>Brass</td>
</tr>
<tr>
<td>Handle</td>
<td>Hooded Nylon</td>
<td>Hooded Nylon</td>
<td>Hooded Metal or Nylon</td>
</tr>
<tr>
<td>Test Pressure/Media</td>
<td>25 bar (375 PSI)/Nit</td>
<td>17 bar (250 PSI)/Nit</td>
<td>10 bar (150 PSI)/Air</td>
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<tr>
<td>Maximum Working Pressure</td>
<td>17 bar (250 PSI)</td>
<td>10 bar (150 PSI)</td>
<td>7 bar (100 PSI)</td>
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<td>CSA Certified for Natural Gas</td>
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<td>Yes</td>
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<tr>
<td>Use with Pressure Regulator</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Cleaned for High Purity Gas</td>
<td>Standard</td>
<td>When Ordered</td>
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### Gas Compatibility by Service

<table>
<thead>
<tr>
<th>Service</th>
<th>BT2870</th>
<th>BT3170</th>
<th>BT4870</th>
<th>BT5170</th>
<th>BT2880</th>
<th>BT3180</th>
<th>BT4880</th>
<th>BT5180</th>
<th>BT2860</th>
<th>BT3160</th>
<th>BT4860</th>
<th>BT5160</th>
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<td>Air</td>
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<td>Ammonia</td>
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<td>Acetylene</td>
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<td>Yes</td>
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<td>Argon</td>
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<td>Yes</td>
<td>No</td>
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<td></td>
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<tr>
<td>Butane</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Carbon Dioxide</td>
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<td>Yes</td>
<td>No</td>
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<td>Carbon Monoxide</td>
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<td>Compressed Air</td>
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<tr>
<td>Cylinder Gas (Note 1)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<td>Natural Gas</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Helium</td>
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<td>Yes</td>
<td>No</td>
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<tr>
<td>High Vacuum</td>
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<td>Yes</td>
<td>No</td>
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<td>Hydrogen</td>
<td>Yes</td>
<td>Yes (Specially Clean)</td>
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<td>Low Vacuum</td>
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<td>Yes</td>
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<tr>
<td>Methane</td>
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<td>Yes</td>
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<td>Nitrogen</td>
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<td>Oxygen</td>
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<td>Yes</td>
<td>No</td>
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<td>Propane</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Special Gas (Note 1)</td>
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<tr>
<td>Vacuum</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

**Note**

1. For gases not specifically listed here, please refer to the WaterSaver website (wsflab.com).
2. Steam service requires a valve with specialized internal construction only. Refer to the WaterSaver website (wsflab.com) for information.
Except for water taps with wrist blade handles, ColorTech BT fittings are furnished with handles that are color coded and indexed per EN 13792 "Colour Coding of Taps and Valves for Use in Laboratories." Wrist blade handles are finished in the same color as the tap body. The index disc color matches the "Disc Color" shown below.

Set forth below is a list of services, handle colors and index symbols prescribed by EN 13792:

<table>
<thead>
<tr>
<th>Water</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Tower/Sprinkling Water</td>
<td>WCS</td>
<td>Green</td>
<td>Green</td>
<td>Yellow</td>
</tr>
<tr>
<td>Potable Water, Hot</td>
<td>WPH</td>
<td>Green</td>
<td>Green</td>
<td>Red</td>
</tr>
<tr>
<td>Potable Water, Cold</td>
<td>WPC</td>
<td>Green</td>
<td>Green</td>
<td>Blue</td>
</tr>
<tr>
<td>Spring Water</td>
<td>WSP</td>
<td>Green</td>
<td>Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>Non-Potable Water, Hot</td>
<td>WNH</td>
<td>Green</td>
<td>Yellow</td>
<td>Red</td>
</tr>
<tr>
<td>Non-Potable Water, Cold</td>
<td>WNC</td>
<td>Green</td>
<td>Yellow</td>
<td>Blue</td>
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<tr>
<td>Steam</td>
<td>WST</td>
<td>Green</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td>Condensate</td>
<td>WCO</td>
<td>Green</td>
<td>Red</td>
<td>Blue</td>
</tr>
<tr>
<td>Super-Clean Water, Hot</td>
<td>WCH</td>
<td>Green</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Super-Clean Water, Cold</td>
<td>WCC</td>
<td>Green</td>
<td>Blue</td>
<td>White</td>
</tr>
<tr>
<td>Coolant Water Feed</td>
<td>WCF</td>
<td>Green</td>
<td>Blue</td>
<td>Blue</td>
</tr>
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<td>Coolant Water Return</td>
<td>WCR</td>
<td>Green</td>
<td>Blue</td>
<td>Red</td>
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<td>Surface Water, Hot</td>
<td>WSH</td>
<td>Green</td>
<td>Black</td>
<td>Red</td>
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<td>Surface Water, Cold</td>
<td>WSC</td>
<td>Black</td>
<td>Blue</td>
<td>Black</td>
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<tr>
<td>Deionised Water, Hot</td>
<td>WDH</td>
<td>Green</td>
<td>Gray</td>
<td>Red</td>
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<tr>
<td>Deionised Water, Cold</td>
<td>WDC</td>
<td>Green</td>
<td>Gray</td>
<td>Blue</td>
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<tr>
<td>River Water, Hot</td>
<td>WRH</td>
<td>Green</td>
<td>White</td>
<td>Red</td>
</tr>
<tr>
<td>River Water, Cold</td>
<td>WRC</td>
<td>Green</td>
<td>Blue</td>
<td>Red</td>
</tr>
<tr>
<td>Distilled Water</td>
<td>WDI</td>
<td>Green</td>
<td>White</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Flammable Gases, Including Combustion-Enhancing Gases</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>N₂</td>
<td>Blue</td>
<td>Green</td>
<td>Red</td>
</tr>
<tr>
<td>Dinitrogen Monoxide</td>
<td>N₂O</td>
<td>Blue</td>
<td>Green</td>
<td>Blue</td>
</tr>
<tr>
<td>Air, Synthetic, 80/20</td>
<td>SA</td>
<td>Blue</td>
<td>Blue</td>
<td>Green</td>
</tr>
<tr>
<td>Compressed Air</td>
<td>CA</td>
<td>Blue</td>
<td>Blue</td>
<td>Yellow</td>
</tr>
<tr>
<td>Oxygen</td>
<td>O₂</td>
<td>Blue</td>
<td>Blue</td>
<td>Blue</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>CO₂</td>
<td>Blue</td>
<td>Blue</td>
<td>Black</td>
</tr>
<tr>
<td>Regulated Air</td>
<td>RA</td>
<td>Blue</td>
<td>Blue</td>
<td>Gray</td>
</tr>
<tr>
<td>Breathing Air</td>
<td>BA</td>
<td>Blue</td>
<td>Blue</td>
<td>White</td>
</tr>
<tr>
<td>Carbogen (CO₂ + O₂)</td>
<td>CB</td>
<td>Blue</td>
<td>Black</td>
<td>Blue</td>
</tr>
<tr>
<td>Krypton</td>
<td>Kr</td>
<td>Blue</td>
<td>Gray</td>
<td>Blue</td>
</tr>
<tr>
<td>Xenon</td>
<td>Xe</td>
<td>Blue</td>
<td>Gray</td>
<td>Red</td>
</tr>
<tr>
<td>Neon</td>
<td>Ne</td>
<td>Blue</td>
<td>Gray</td>
<td>Black</td>
</tr>
<tr>
<td>Argon</td>
<td>Ar</td>
<td>Blue</td>
<td>Gray</td>
<td>Gray</td>
</tr>
<tr>
<td>Helium</td>
<td>He</td>
<td>Blue</td>
<td>Gray</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxic Gases</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>NH₃</td>
<td>Black</td>
<td>Green</td>
<td>Red</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>NO₂</td>
<td>Black</td>
<td>Green</td>
<td>Blue</td>
</tr>
<tr>
<td>Nitrogen Monoxide</td>
<td>NO</td>
<td>Black</td>
<td>Green</td>
<td>Black</td>
</tr>
<tr>
<td>Hydrogen Sulphide</td>
<td>H₂S</td>
<td>Black</td>
<td>Red</td>
<td>Yellow</td>
</tr>
<tr>
<td>Arsine</td>
<td>AsH₃</td>
<td>Black</td>
<td>Red</td>
<td>Black</td>
</tr>
<tr>
<td>Phosphine</td>
<td>PH₃</td>
<td>Black</td>
<td>Red</td>
<td>Gray</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>HCl</td>
<td>Black</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Sulphur Dioxide</td>
<td>SO₂</td>
<td>Black</td>
<td>Blue</td>
<td>Yellow</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>CO</td>
<td>Black</td>
<td>Blue</td>
<td>Black</td>
</tr>
<tr>
<td>Phosgene</td>
<td>COCl₂</td>
<td>Black</td>
<td>Black</td>
<td>White</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Cl₂</td>
<td>Black</td>
<td>White</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vacuum</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Vacuum (1,000 – 1mbar)</td>
<td>V</td>
<td>Gray</td>
<td>Gray</td>
<td>Black</td>
</tr>
<tr>
<td>Fine Vacuum</td>
<td>VF</td>
<td>Gray</td>
<td>Gray</td>
<td>Gray</td>
</tr>
<tr>
<td>High Vacuum</td>
<td>VH</td>
<td>Gray</td>
<td>Gray</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miscellaneous</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde Solution</td>
<td>CH₂O</td>
<td>White</td>
<td>Red</td>
<td>Green</td>
</tr>
<tr>
<td>Propanol</td>
<td>C₃H₆O</td>
<td>White</td>
<td>Red</td>
<td>Yellow</td>
</tr>
<tr>
<td>Methanol</td>
<td>CH₃O</td>
<td>White</td>
<td>Red</td>
<td>Blue</td>
</tr>
<tr>
<td>Acetone</td>
<td>C₃H₆O</td>
<td>White</td>
<td>Red</td>
<td>Gray</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>C₃H₆Cl₃</td>
<td>White</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Perchloric acid</td>
<td>HClO₄</td>
<td>White</td>
<td>White</td>
<td>Red</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammable Gaseous Hydrocarbons</th>
<th>Symbol</th>
<th>Handle Color</th>
<th>Ring Color</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>G</td>
<td>Yellow</td>
<td>Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>Propane/Butane (liquefied gases)</td>
<td>LPG</td>
<td>Yellow</td>
<td>Red</td>
<td>Yellow</td>
</tr>
<tr>
<td>Methane</td>
<td>CH₄</td>
<td>Yellow</td>
<td>Blue</td>
<td>Yellow</td>
</tr>
<tr>
<td>Propane</td>
<td>C₃H₈</td>
<td>Yellow</td>
<td>Blue</td>
<td>Red</td>
</tr>
<tr>
<td>Butane</td>
<td>C₃H₁₀</td>
<td>Yellow</td>
<td>Blue</td>
<td>Blue</td>
</tr>
<tr>
<td>Ethene</td>
<td>C₂H₄</td>
<td>Yellow</td>
<td>Black</td>
<td>Green</td>
</tr>
<tr>
<td>Propene</td>
<td>C₃H₆</td>
<td>Yellow</td>
<td>Black</td>
<td>Red</td>
</tr>
<tr>
<td>Butene</td>
<td>C₂H₆</td>
<td>Yellow</td>
<td>Black</td>
<td>Blue</td>
</tr>
<tr>
<td>Acetylene</td>
<td>C₂H₃</td>
<td>Yellow</td>
<td>White</td>
<td>Green</td>
</tr>
</tbody>
</table>
**Water**

- **WPH**: Potable Water, Hot
- **WPC**: Potable Water, Cold
- **WNH**: Non-Potable Water, Hot
- **WNC**: Non-Potable Water, Cold
- **WCF**: Coolant Water Feed
- **WCR**: Coolant Water Return

**Pure Water**

- **WCH**: Super-Clean Water, Hot
- **WCC**: Super-Clean Water, Cold
- **WDH**: Deionised Water, Hot
- **WDC**: Deionised Water, Cold
- **WDI**: Distilled Water

**Flammable Gaseous Hydrocarbons**

- **G**: Natural Gas
- **CH₄**: Methane
- **C₂H₆**: Propane
- **C₃H₈**: Butane
- **C₂H₂**: Acetylene

**Non-Flammable Gases (Including Combustion-Enhancing Gases)**

- **SA**: Air, Synthetic, 80/20
- **BA**: Air, Breathing
- **CA**: Air, Compressed
- **RA**: Air, Regulated
- **Ar**: Argon
- **CB**: Carbogen (CO₂ + O₂)
- **CO₂**: Carbon Dioxide
- **He**: Helium
- **N₂**: Nitrogen
- **O₂**: Oxygen

**Vacuum**

- **V**: Low Vacuum
- **VF**: Fine Vacuum
- **VH**: High Vacuum

**Other Media**

- **NH₃**: Ammonia
- **H₂**: Hydrogen
- **H₂/He**: Hydrogen/Helium
- **H₂N₂**: Hydrogen/Nitrogen
- **WST**: Steam
Pipe Sizing and Material

Requirements for the size and material of supply piping are generally covered by applicable plumbing codes. Reference should be made to such codes when laying out piping for service fittings and safety equipment. Pipe sizing is also affected by the number of valves or outlets installed on a run. However, typical piping standards for single fittings and outlets are as follows:

<table>
<thead>
<tr>
<th>Service</th>
<th>Piping Material</th>
<th>Minimum Pipe Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>Black Iron or Stainless Steel</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Inert Gases</td>
<td>Copper</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Special Gases</td>
<td>Copper or Stainless Steel</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Water</td>
<td>Copper</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Distilled, Deionised and Purified Water</td>
<td>PVC/ Polypropylene/ PVDF</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Emergency Showers</td>
<td>Copper</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Eye, Eye/Face Wash and Drench Hose Units</td>
<td>Copper</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Safety Stations</td>
<td>Copper</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

Service Piping Material

<table>
<thead>
<tr>
<th></th>
<th>Minimum Pipe Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Inert Gases</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Special Gases</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Water</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Distilled, Deionised and Purified Water</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Emergency Showers</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Eye, Eye/Face Wash and Drench Hose Units</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Safety Stations</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

Inlet Shanks/Hole Sizing

WaterSaver fittings are furnished with standard size inlet shanks to penetrate the bench or wall surface. Minimum hole sizes for these shanks are listed below:

<table>
<thead>
<tr>
<th>Inlet Shank</th>
<th>Minimum Hole Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/2 Mounting Shank</td>
<td>22mm (7/8&quot;)</td>
</tr>
<tr>
<td>1-3/16&quot; diameter Mounting Shank (ex: BT400 series mixer taps)</td>
<td>32mm (1-1/4&quot;)</td>
</tr>
<tr>
<td>G1 Mounting Shank (ex: BTEW1022 eyewash/drench hose unit)</td>
<td>35mm (1-3/8&quot;)</td>
</tr>
</tbody>
</table>

Locator Pins

Except for fume cupboard outlet fittings, all ColorTech BT fittings are furnished with (2) locator pins to prevent the fitting from turning on the counter or panel. Pins are 3.2mm diameter x 2.4mm exposed length. When drilling countertops or panels, provide holes in the required locations for the locator pins. Locator pins are pressed into the base of the fitting. If the pins are not required, they are easily removed with pliers.

Installation Procedures

Installing WaterSaver laboratory taps, valves and safety equipment requires the use of common plumbing installation techniques. Observing the following guidelines will help to assure trouble-free installation:

1. Thoroughly clean and flush supply lines prior to installing taps and valves. Pipe shavings, scale, tape and other debris can be carried through a pipe and into a tap or valve when the system is activated. This debris can damage valve components and interfere with the proper operation of the tap or valve.

2. When placing a tap or valve on a laboratory countertop or wall, secure the fitting using the lockwasher and locknut provided. Tighten the locknut sufficiently to secure the fitting to the counter or wall. Do not overtighten.

3. ColorTech BT fittings are furnished with either (i) G inlet threads in accordance with ISO 228-1 or (ii) plain tube ends in metric sizes. For fittings with G inlet threads, a PTFE gasket is supplied for the inlet of the thread to be used with a mating fitting. Since a pressure-tight joint is not made on the thread, there should be no need to use pipe or thread sealant. If sealant is used, do not apply the sealant in a way that will permit it to enter into the tap or valve.

4. Observe the maximum test and working pressures for taps and valves. Testing or using a valve at pressures for which it is not designed can result in leakage or failure. Refer to the Valve Selection Guide on page 11 for information on maximum test and working pressures.

5. Do not use valves for services and applications for which they are not intended. In particular:
   - Valves for oxygen service and high purity gases must be specially cleaned, lubricated, assembled and packaged. Valves that have not been specially cleaned are not acceptable.
   - Needle valves should be used for gas services only. They are not suitable for water or steam services.
   - Push/tturn valves should be used for burning gas services only. They are not recommended for use with other gases.
   - Valves for ammonia and acetylene must be stainless steel.

6. To prevent surface damage, use caution when applying a wrench or other tool to the exterior of a tap or valve.

7. Every ColorTech BT fitting is fully assembled and pressure tested at the factory. Full assembly enables us to inspect and test the fitting as a complete assembly. Fittings are tagged when testing is complete. If a fitting is received without an inspection tag, please notify the factory.

8. Clean fittings using a soft cloth and soapy water. Do not use abrasives, detergents or other cleaners that can damage the finish on the fitting. In particular, do not use any solvent in or near a tap or valve. Solvents can dissolve the lubricants used in the valve mechanism.
BT2800-231WSA Water Valve, Bench Mounted

Application: Laboratory water valve fitting for bench or countertop mounting.

Mounting: Turret base for bench mounting with locator pins.

Valve Body: Straight pattern forged brass.

Headwork: WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

**Ordering Information**

<table>
<thead>
<tr>
<th>Valve Construction Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compression valve cartridge</td>
<td>BT2800-231WSA</td>
<td>BT2800-232AWSA</td>
<td>BT2800-232SWSA</td>
<td>BT2800-234WSA</td>
</tr>
<tr>
<td>Ceramic disc valve cartridge</td>
<td>BTC2800-231WSA</td>
<td>BTC2800-232AWSA</td>
<td>BTC2800-232SWSA</td>
<td>BTC2800-234WSA</td>
</tr>
<tr>
<td>Internal check valve to prevent backflow</td>
<td>BT2800CV-231WSA</td>
<td>BT2800CV-232AWSA</td>
<td>BT2800CV-232SWSA</td>
<td>BT2800CV-234WSA</td>
</tr>
</tbody>
</table>

**Product Finish**

<table>
<thead>
<tr>
<th>Finish</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td>BT2800-231WSA</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td>BTC2800-231WSA</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td>BT2800CV-231WSA</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
<td></td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
<td></td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
BT2800-231WSA Water Valve, Bench Mounted

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052318
Application: Laboratory water valve fitting for wall, panel or overhead mounting.

Mounting: Flanged inlet with locator pins.

Valve Body: Straight pattern forged brass.

Headwork: WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

Ordering Information

Valve Construction Options

<table>
<thead>
<tr>
<th>Construction</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compression valve cartridge</td>
<td>BT4800F-226WSA</td>
</tr>
<tr>
<td>Ceramic disc valve cartridge</td>
<td>BTC4800F-226WSA</td>
</tr>
<tr>
<td>Internal check valve to prevent backflow</td>
<td>BT4800F-CV-226WSA</td>
</tr>
</tbody>
</table>

Product Finish

<table>
<thead>
<tr>
<th>Finish</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>BT4800F-226WSA</td>
</tr>
<tr>
<td>GRY</td>
<td>BTC4800F-226WSA</td>
</tr>
<tr>
<td>GRD</td>
<td>BT4800F-CV-226WSA</td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
</tbody>
</table>

Note: Refer to "Product Finishes" catalog for complete information on finishes.

Media
NOTES:
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052318
BT5100F-226WSA Water Valve, Wall/Panel Mounted

Application: Laboratory water valve fitting for wall or panel mounting.

Mounting: Flanged inlet with locator pins.

Valve Body: Angle pattern forged brass.

Headwork: WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

Ordering Information

Valve Construction Options

- Compression valve cartridge
  - BT5100F-226WSA
- Ceramic disc valve cartridge
  - BTCS100F-226WSA
- Internal check valve to prevent backflow
  - BT5100F-CV-226WSA

Product Finish

- WHT Gloss white powder coated finish
- PCL Polished chrome plated finish with clear epoxy coating
- GRY Gloss light gray powder coated finish
- SCC Satin chrome plated finish with clear epoxy coating
- GRD Gloss dark gray powder coated finish
- SNC Satin nickel plated finish with clear epoxy coating
- STM Starburst metallic powder coated finish

Note: Refer to "Product Finishes" catalog for complete information on finishes.

Media
NOTES:
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052318
BT380 Single Water Tap, Bench Mounted

**Application:** Laboratory water tap for cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Riser:** Brass riser with 150mm (6”) spread.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

---

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Construction</td>
<td>Compression valve cartridge</td>
<td>BT380</td>
</tr>
<tr>
<td></td>
<td>Ceramic disc valve cartridge</td>
<td>BTC380</td>
</tr>
<tr>
<td>Riser</td>
<td>Riser with 200mm (8”) spread in place of 150mm (6”)</td>
<td>BT380-8</td>
</tr>
<tr>
<td>Outlet Fitting</td>
<td>BO055 aerator in place of hose end</td>
<td>BT380-55</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT380-118</td>
</tr>
</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
BT380 Single Water Tap, Bench Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

This space for architect/engineer approval

Notes:
1. Fitting is fully assembled and factory tested prior to shipment.
2. Maximum working pressure is 10 bar (150 PSI).

Rev. 052318

Rev. 071718
**BT611** Single Water Tap, Bench Mounted, Rigid Gooseneck

**Application:** Laboratory water tap for cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Gooseneck:** 150mm (6”) rigid gooseneck. Gooseneck is set in right hand configuration unless left hand or 180° is specified.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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### Ordering Information

**Options**

**Valve Construction**
- Compression valve cartridge
  - BT611
- Ceramic disc valve cartridge
  - BTC611

**Gooseneck**
- 200mm (8”) gooseneck in place of 150mm (6”)
  - BT611-8

**Outlet Fitting**
- BO055 aerator in place of hose end
  - BT611-55
- BT118 pipe interrupter fitting with hose end
  - BT611-118

**Product Finish**
- WHT Gloss white powder coated finish
- PCL Polished chrome plated finish with clear epoxy coating
- GRY Gloss light gray powder coated finish
- SCC Satin chrome plated finish with clear epoxy coating
- GRD Gloss dark gray powder coated finish
- SNC Satin nickel plated finish with clear epoxy coating
- STM Starburst metallic powder coated finish

*Note: Refer to “Product Finishes” catalog for complete information on finishes.*
BT611 Single Water Tap, Bench Mounted, Rigid Gooseneck

1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 050918

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4"). Rev. 052118
**BT611BH** Single Water Tap, Bench Mounted, Rigid Gooseneck, Wrist Blade Handle

- **Application**: Laboratory water tap for cold water.
- **Mounting**: Bench or countertop mounted with locator pins.
- **Body**: Forged brass.
- **Headwork**: WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.
- **Handle**: Forged brass wrist blade handle with color coded index disc. Index disc is marked per EN 13792.
- **Gooseneck**: 150mm (6”) rigid gooseneck. Gooseneck is set in right hand configuration unless left hand or 180° is specified.
- **Inlet**: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.
- **Outlet**: G3/8 female outlet with removable anti-splash serrated hose end.
- **Quality Assurance**: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

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<th>Options</th>
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<tr>
<td></td>
<td>Ceramic disc valve cartridge</td>
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<tr>
<td><strong>Gooseneck</strong></td>
<td>200mm (8”) gooseneck in place of 150mm (6”)</td>
</tr>
<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055 aerator in place of hose end</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
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<table>
<thead>
<tr>
<th>Product Finish</th>
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<td>GRD</td>
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<td>STM</td>
<td>Starburst metallic powder coated finish</td>
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<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
</tbody>
</table>

**Note**: Refer to “Product Finishes” catalog for complete information on finishes.

### Media

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WaterSaver Faucet Co.  
wsflab.com  
25
BT611BH Single Water Tap, Bench Mounted, Rigid Gooseneck, Wrist Blade Handle

1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 031819
BT614 Single Water Tap, Bench Mounted, Rigid/Swing Gooseneck

**Application:** Laboratory water tap for cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Gooseneck:** 150mm (6”) convertible rigid/swing gooseneck. Gooseneck may be configured as either rigid or swing, as desired.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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**Ordering Information**

**Options**

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<td>Ceramic disc valve cartridge</td>
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<td>BTC614</td>
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<td>BT614-8</td>
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</thead>
<tbody>
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<td>BT614-55</td>
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</table>

| BT118 pipe interrupter fitting with hose end |                  | BT614-118 |

**Product Finish**

<table>
<thead>
<tr>
<th>Media</th>
<th>Options</th>
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<td>GRY</td>
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<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td></td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
</tr>
</tbody>
</table>

**PCL** Polished chrome plated finish with clear epoxy coating

**SCC** Satin chrome plated finish with clear epoxy coating

**SNC** Satin nickel plated finish with clear epoxy coating

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**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
BT614 Single Water Tap, Bench Mounted, Rigid/Swing Gooseneck

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 050918

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REV. 052218

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
BT614BH Single Water Tap, Bench Mounted, Rigid/Swing Gooseneck, Wrist Blade Handle

**Application:** Laboratory water tap for cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

**Handle:** Forged brass wrist blade handle with color coded index disc. Index disc is marked per EN 13792.

**Gooseneck:** 150mm (6") convertible rigid/swing gooseneck. Gooseneck may be configured as either rigid or swing, as desired.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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### Ordering Information

<table>
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<td></td>
<td>Ceramic disc valve cartridge</td>
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<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>BT614-8BH</td>
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<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055 aerator in place of hose end</td>
<td>BT624</td>
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<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT614-118BH</td>
</tr>
</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GYR** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.

**Media**

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BT614BH Single Water Tap, Bench Mounted, Rigid/Swing Gooseneck, Wrist Blade Handle

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 031819

DETAIL A

POSITIONING PINS
(SEE DETAIL A)

G1/2 MOUNTING SHANK
WITH LOCKNUT AND WASHER

REV. 031819

Water Fittings
Single Water Taps

BT614BH Single Water Tap, Bench Mounted, Rigid/Swing Gooseneck, Wrist Blade Handle

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4"). Rev. 031819

30 wsflab.com WaterSaver Faucet Co.
**Application:** Laboratory water tap with two outlets for cold water.

**Mounting:** Bench or countertop mounted with locator pins. On BT381, valves are mounted at 180° to each other. On BT382, valves are mounted side-by-side.

**Bodies:** Forged brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

**Riser:** Brass riser with 150mm (6”) spread to each valve.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlets:** G3/8 female outlets with removable anti-splash serrated hose ends.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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### Ordering Information

<table>
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<th>Options</th>
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<td>Compression valve cartridge</td>
<td>☑ BT381</td>
</tr>
<tr>
<td></td>
<td>Ceramic disc valve cartridge</td>
<td>☑ BTC381</td>
</tr>
<tr>
<td><strong>Riser</strong></td>
<td>Riser with 200mm (8”) spread in place of 150mm (6”)</td>
<td>☑ BT381-8</td>
</tr>
<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055 aerators in place of hose ends</td>
<td>☑ BT381-55</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fittings with hose ends</td>
<td>☑ BT381-118</td>
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### Product Finish

<table>
<thead>
<tr>
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<tr>
<td>☑ GRY</td>
<td>Gloss light gray powder coated finish</td>
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<tr>
<td>☑ GRD</td>
<td>Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td>☑ STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
<tr>
<td>☑ PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>☑ SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>☑ SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
BT381 Double Water Tap, Bench Mounted, Two Valves at 180°

BT382 Double Water Tap, Bench Mounted, Two Valves Side-by-Side

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

NOTES:
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052118

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL
BT385RS Three-Way Water Tap, Bench Mounted

**Application:** Laboratory water tap with three outlets for cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Bodies:** Forged brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

**Riser:** Brass riser with 150mm (6”) spread to each side valve.

**Spout:** 150mm (6”) convertible rigid/swing top spout.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlets:** G3/8 female outlets with removable anti-splash serrated hose ends.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

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<td>Ceramic disc valve cartridge</td>
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<tr>
<td>Top Spout</td>
<td>200mm (8”) spout in place of 150mm (6”)</td>
<td>BT385RS8</td>
</tr>
<tr>
<td>Outlet Fitting</td>
<td>BO055 aerator in place of hose end</td>
<td>BT385RS55</td>
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<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose ends</td>
<td>BT385RS118</td>
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</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
BT385RS Three-Way Water Tap, Bench Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

NOTES:
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052318
**Application:** Laboratory water mixer tap for hot and cold water.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

**Gooseneck:** 150mm (6") convertible rigid/swing gooseneck.

**Inlets:** (2) 10mm OD flexible copper tubes. Furnished complete with 30.5mm (1-3/16") dia. mounting shank, locknut and washer.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
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<td>Ceramic disc valve cartridge</td>
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<td>Gooseneck</td>
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<td>Outlet Fitting</td>
<td>BO055 aerator in place of hose end</td>
<td>BT414-55</td>
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<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT414-118</td>
</tr>
<tr>
<td>Inlet Connections</td>
<td>Braided stainless steel flexible connectors in place of copper tubes</td>
<td>BT414HSP</td>
</tr>
</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.

### Media

- [ ]

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WaterSaver Faucet Co.  wsflab.com  35
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 081718

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Rev. 010219

1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

36 wsflab.com
Application: Laboratory water mixer tap for hot and cold water.

Mounting: Bench or countertop mounted with locator pins.

Body: Forged brass.


Handles: Forged brass wrist blade handles with color coded index discs. Index discs are marked per EN 13792.

Gooseneck: 150mm (6") convertible rigid/swing gooseneck.

Inlets: (2) 10mm OD flexible copper tubes. Furnished complete with 30.5mm (1-3/16") dia. mounting shank, locknut and washer.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

## Ordering Information

### Options

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<tr>
<td>Outlet Fitting</td>
<td>BO055 aerator in place of hose end</td>
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<td></td>
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<td>BT414-118BH</td>
</tr>
<tr>
<td>Inlet Connections</td>
<td>Braided stainless steel flexible connectors in place of copper tubes</td>
<td>BT414BH-HSP</td>
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</table>

### Product Finish

- [ ] WHT  Gloss white powder coated finish
- [ ] GRY  Gloss light gray powder coated finish
- [ ] GRD  Gloss dark gray powder coated finish
- [ ] STM  Starburst metallic powder coated finish
- [ ] PCL  Polished chrome plated finish with clear epoxy coating
- [ ] SCC  Satin chrome plated finish with clear epoxy coating
- [ ] SNC  Satin nickel plated finish with clear epoxy coating

Note: Refer to “Product Finishes” catalog for complete information on finishes.
BT414BH Mixer Tap, Bench Mounted, Wrist Blade Handles

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 031819
**Application:** Laboratory water mixer tap for hot and cold water.

**Mounting:** Bench or countertop mounted.

**Body:** Cast brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

**Gooseneck:** 150mm (6”) convertible rigid/swing gooseneck.

**Inlets:** (2) G1/2 male inlets on 180mm center dimension. Furnished with G1/2 mounting shanks, locknuts and washers.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

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<td>BT118 pipe interrupter fitting with hose end</td>
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</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

*Note:* Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

- [ ]
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”). Rev. 071618

Notes:
1. Fitting is fully assembled and factory tested prior to shipment.
2. Maximum working pressure is 10 bar (150 PSI).

Rev. 052318
**Application:** Laboratory water mixer tap for hot and cold water.

**Mounting:** Bench or countertop mounted.

**Body:** Cast brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Forged brass wrist blade handles with color coded index discs. Index discs are marked per EN 13792. On BT1614BH-WSA, handles rotate forward toward user to open, back to close. On BT1614BHR-WSA, handles rotate back to open, forward to close.

**Gooseneck:** 150mm (6") convertible rigid/swing gooseneck.

**Inlets:** (2) G1/2 male inlets on 180mm center dimension. Furnished with G1/2 mounting shanks, locknuts and washers.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

---

**Ordering Information**

<table>
<thead>
<tr>
<th>Options</th>
<th>BT1614BH-WSA</th>
<th>BT1614BHR-WSA</th>
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</thead>
<tbody>
<tr>
<td><strong>Valve Construction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compression valve cartridges</td>
<td>BT1614BH-WSA</td>
<td>BT1614BHR-WSA</td>
</tr>
<tr>
<td>Ceramic disc valve cartridges</td>
<td>BTC1614BH-WSA</td>
<td>BTC1614BHR-WSA</td>
</tr>
<tr>
<td><strong>Gooseneck</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>BT1614-8BH-WSA</td>
<td>BT1614-8BHR-WSA</td>
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<tr>
<td><strong>Outlet</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BO055 aerator in place of hose end</td>
<td>BT1624WSA</td>
<td>BT1624R-WSA</td>
</tr>
<tr>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT1614-118BH-WSA</td>
<td>BT1614-118BHR-WSA</td>
</tr>
</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

*Note: Refer to “Product Finishes” catalog for complete information on finishes.*

---

**Media**

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WaterSaver Faucet Co.
BT1614BH-WSA  Mixer Tap, Bench Mounted, Wrist Blade Handles

BT1614BHR-WSA  Mixer Tap, Bench Mounted, Wrist Blade Handles (Reversed)

NOTES:
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 052318
**BT1714WSA** Mixer Tap, Wall/Panel Mounted

*Application:* Laboratory water mixer tap for hot and cold water.

*Mounting:* Wall or panel mounted.

*Body:* Cast brass.

*Headworks:* WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

*Handles:* Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

*Gooseneck:* 150mm (6") convertible rigid/swing gooseneck.

*Inlets:* (2) G1/2 male inlets on 150mm (6") center dimension. Furnished with G1/2 mounting shanks, locknuts and washers.

*Outlet:* G3/8 female outlet with removable anti-splash serrated hose end.

*Quality Assurance:* Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
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<td><strong>Valve Construction</strong></td>
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<tr>
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<td>BT1714WSA</td>
</tr>
<tr>
<td></td>
<td>Ceramic disc valve cartridges</td>
</tr>
<tr>
<td></td>
<td>BTC1714WSA</td>
</tr>
<tr>
<td><strong>Gooseneck</strong></td>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
</tr>
<tr>
<td></td>
<td>BT1714-8WSA</td>
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<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055 aerator in place of hose end</td>
</tr>
<tr>
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<td>BT1714-55WSA</td>
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<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
</tr>
<tr>
<td></td>
<td>BT1714-118WSA</td>
</tr>
</tbody>
</table>

#### Product Finish

- **WHT** Gloss white powder coated finish
- **GRY** Gloss light gray powder coated finish
- **GRD** Gloss dark gray powder coated finish
- **STM** Starburst metallic powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **SCC** Satin chrome plated finish with clear epoxy coating
- **SNC** Satin nickel plated finish with clear epoxy coating

*Note:* Refer to “Product Finishes” catalog for complete information on finishes.
NOTE:
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 050318
**Application:** Laboratory water mixer tap for hot and cold water.

**Mounting:** Wall or panel mounted.

**Body:** Cast brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats.

**Handles:** Forged brass wrist blade handles with color coded index discs. Index discs are marked per EN 13792.

**Gooseneck:** 150mm (6”) convertible rigid/swing gooseneck.

**Inlets:** (2) G1/2 male inlets on 150mm (6”) center dimension. Furnished with G1/2 mounting shanks, locknuts and washers.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

---

### Ordering Information

**Options**

**Valve Construction**
- Compression valve cartridges
- Ceramic disc valve cartridges

**Gooseneck**
- 200mm (8”) gooseneck in place of 150mm (6”)

**Outlet Fitting**
- BO055 aerator in place of hose end
- BT118 pipe interrupter fitting with hose end

**Product Finish**

- **WHT** Gloss white powder coated finish
- **GRY** Gloss light gray powder coated finish
- **GRD** Gloss dark gray powder coated finish
- **STM** Starburst metallic powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **SCC** Satin chrome plated finish with clear epoxy coating
- **SNC** Satin nickel plated finish with clear epoxy coating

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
BT1714BH-WSA Mixer Tap, Wall/Panel Mounted, Wrist Blade Handles

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

Rev. 031819
Application: Laboratory water mixer tap for hot and cold water.
Mounting: Bench or countertop mounted with locator pins.
Body: Brass bar stock.
Handle: Cast zinc handle finished to match mixer.
Gooseneck: 150mm (6") convertible rigid/swing gooseneck.
Inlets: (2) 10mm OD flexible copper tubes. Furnished complete with 30.5mm (1-3/16") dia. mounting shank, locknut and washer.
Outlet: G3/8 female outlet with removable anti-splash serrated hose end.
Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

**Ordering Information**

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Gooseneck</td>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>BT4604-8WSA</td>
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<tr>
<td>Outlet Fitting</td>
<td>BO055 aerator in place of hose end</td>
<td>BT4604-55WSA</td>
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<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT4604-118WSA</td>
</tr>
<tr>
<td>Inlet Connections</td>
<td>Braided stainless steel flexible connectors in place of copper tubes</td>
<td>BT4604HSP</td>
</tr>
</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

*Note: Refer to "Product Finishes" catalog for complete information on finishes.*

**Media**

- [ ]
BT4604 Single Handle Mixer Tap, Bench Mounted

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

**Rev. 122718**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 122718
Water Fittings
Foot-Operated Taps – Valves

☐ BT3001 Floor Mounted Foot-Operated Mixing Valve
☐ BT3050 Floor Mounted Foot-Operated Single Valve

Application: Floor mounted foot-operated valve. BT3001 is a mixing valve for hot and cold water. BT3050 is a single valve for cold or tempered water only. The valve is furnished with a polished chrome plated finish.

Mounting: Floor mounted.

Body: Forged brass.

Headworks: Self-closing renewable units with stainless steel valve stems.

Pedals: Forged brass pedals mounted on hinged bracket.

Inlets: G1/2 female. BT3001 has two inlets. BT3050 has a single inlet.

Outlet: G1/2 female.

Quality Assurance: Valve is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.
**BT3001** Floor Mounted Foot-Operated Mixing Valve

**BT3050** Floor Mounted Foot-Operated Single Valve

---

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

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Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

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Rev. 122718
Water Fittings
Foot-Operated Taps – Goosenecks

**BT071** Panel Mounted Gooseneck Fitting, Rigid Gooseneck

**BT074** Panel Mounted Gooseneck Fitting, Rigid/Swing Gooseneck

---

**Application:** Panel mounted gooseneck fitting for water.

**Body:** Brass bar stock (BT071) or forged brass (BT074).

**Gooseneck:** 150mm (6") brass. BT071 has rigid gooseneck. BT074 has convertible rigid/swing gooseneck.

**Escutcheon:** Molded nylon three-piece escutcheon color coded and marked per EN 13792.

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**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. Available with choice of inlet connections (see below).

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

---

**Ordering Information**

<table>
<thead>
<tr>
<th>Inlet Connection Options</th>
<th>G1/2 Male</th>
<th>G1/4 Female</th>
<th>1/4 NPT Female</th>
<th>10mm Push/Fit Tube</th>
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<tbody>
<tr>
<td>Rigid Gooseneck</td>
<td>BT071</td>
<td>BT071-G2F</td>
<td>BT071-2F</td>
<td>BT071-M10PF</td>
</tr>
<tr>
<td>Rigid/Swing Gooseneck</td>
<td>BT074</td>
<td>BT074-G2F</td>
<td>BT074-2F</td>
<td>BT074-M10PF</td>
</tr>
</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

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WaterSaver Faucet Co.
**Application:** Bench or countertop mounted gooseneck fitting for water.

**Body:** Brass bar stock.

**Gooseneck:** 150mm (6") brass. BT081 has rigid gooseneck. BT084 has convertible rigid/swing gooseneck.

**Escutcheon:** Molded nylon three-piece escutcheon color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. Available with choice of inlet connections (see below).

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Inlet Connection Options</th>
<th>G1/2 Male</th>
<th>G1/4 Female</th>
<th>1/4 NPT Female</th>
<th>10mm Push/Fit Tube</th>
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</thead>
<tbody>
<tr>
<td>Rigid Gooseneck</td>
<td>BT081</td>
<td>BT081-G2F</td>
<td>BT081-2F</td>
<td>BT081-M10PF</td>
</tr>
<tr>
<td>Rigid/Swing Gooseneck</td>
<td>BT084</td>
<td>BT084-G2F</td>
<td>BT084-2F</td>
<td>BT084-M10PF</td>
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### Product Finish

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
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<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
</tbody>
</table>

*Note: Refer to “Product Finishes” catalog for complete information on finishes.*

### Media

- [wsflab.com](http://wsflab.com)

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Application: Laboratory tap for distilled, deionised or reverse osmosis water. All components in contact with pure water have an interior lining of pure tin.

Mounting: Bench or countertop mounted with locator pins.

Body: Forged brass.

Headwork: WaterSaver self-contained self-closing valve cartridge with replaceable stainless steel seat. Valve closes when handle is released.

Handle: Forged brass four-arm style handle (BT681) or forged brass lever handle (BT681LE), as ordered.

Gooseneck: 150mm (6") rigid gooseneck. Gooseneck is set in right hand configuration unless left hand or 180° is specified.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>BT681</th>
<th>BT681LE</th>
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<tbody>
<tr>
<td>Gooseneck</td>
<td>BT681</td>
<td>BT681LE</td>
</tr>
<tr>
<td>150mm (6&quot;) gooseneck</td>
<td>BT681</td>
<td>BT681LE</td>
</tr>
<tr>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>BT681-8</td>
<td>BT681-8LE</td>
</tr>
<tr>
<td>Outlet Fitting</td>
<td>BT681-55</td>
<td>BT681-55LE</td>
</tr>
<tr>
<td>BO055 aerator in place of hose end</td>
<td>BT681-55</td>
<td>BT681-55LE</td>
</tr>
<tr>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT681-118</td>
<td>BT681-118LE</td>
</tr>
</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

Note: Refer to "Product Finishes" catalog for complete information on finishes.

### Media
**BT681** Pure Water Tap, Bench Mounted, Self-Closing Control

**BT681LE** Pure Water Tap, Bench Mounted, Self-Closing Control, Lever Handle

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**NOTES:**

1. FITTING HAS INTERIOR LINING OF PURE TIN.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

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Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 031819
Water Fittings
Pure Water Taps – Tin-Lined

BT691 Pure Water Tap, Bench Mounted, Manual Control
BT691BH Pure Water Tap, Bench Mounted, Manual Control, Wrist Blade Handle

Application: Laboratory tap for distilled, deionised or reverse osmosis water. All components in contact with pure water have interior lining of pure tin.

Mounting: Bench or countertop mounted with locator pins.

Body: Forged brass.

Headwork: WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat.

Handle: Molded nylon hooded style handle (BT691) or forged brass wrist blade handle (BT691BH).

Gooseneck: 150mm (6”) rigid gooseneck. Gooseneck is set in right hand configuration unless left hand or 180° is specified.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with removable anti-splash serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

Ordering Information

Options BT691 BT691BH

Gooseneck
150mm (6”) gooseneck
200mm (8”) gooseneck in place of 150mm (6”)

Outlet Fitting
BOO55 aerator in place of hose end
BT118 pipe interrupter fitting with hose end

Product Finish

WHT Gloss white powder coated finish
PCL Polished chrome plated finish with clear epoxy coating

GRY Gloss light gray powder coated finish
SCC Satin chrome plated finish with clear epoxy coating

GRD Gloss dark gray powder coated finish
SNC Satin nickel plated finish with clear epoxy coating

STM Starburst metallic powder coated finish

Note: Refer to “Product Finishes” catalog for complete information on finishes.

Media
Water Fittings
Pure Water Taps – Tin-Lined

- **BT691** Pure Water Tap, Bench Mounted, Manual Control
- **BT691BH** Pure Water Tap, Bench Mounted, Manual Control, Wrist Blade Handle

---

**NOTES:**
1. FITTING HAS INTERIOR LINING OF PURE TIN.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

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**DETAIL A**

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<th>Dimension</th>
<th>Description</th>
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<td>G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER</td>
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<td>Ø3.2mm (1/8&quot;)</td>
<td>POSITIONING PINS</td>
</tr>
<tr>
<td>2.4mm (3/32&quot;)</td>
<td>EXPOSED LENGTH</td>
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</table>

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**Rev. 031819**

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Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

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Rev. 031819
BT3133 Pure Water Tap, Bench Mounted

**Application:** Laboratory tap for distilled, deionised or reverse osmosis water. All components in contact with pure water have interior lining of pure tin.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained valve cartridge with replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index disc are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Valve Construction</strong></td>
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<td>BT3133</td>
</tr>
<tr>
<td></td>
<td>Self-closing control</td>
<td>BT3133SC</td>
</tr>
<tr>
<td><strong>Riser</strong></td>
<td>Riser with 200mm (8&quot;) spread in place of 150mm (6&quot;)</td>
<td>BT3133-8</td>
</tr>
<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055 aerator in place of hose end</td>
<td>BT3133-55</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BT3133-118</td>
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### Product Finish

<table>
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<tr>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
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<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
</tbody>
</table>

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).
**Application:** Laboratory tap for distilled, deionised or reverse osmosis water. All components in contact with pure water are stainless steel.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Stainless steel.

**Headwork:** WaterSaver self-contained valve cartridge with replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index disc are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Compression (manual on/off) control</th>
<th>Self-closing control</th>
<th>Riser with 200mm (8&quot;) spread in place of 150mm (6&quot;)</th>
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<tr>
<td><strong>Valve Construction</strong></td>
<td>BT6833</td>
<td>BT6833SC</td>
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<tr>
<td><strong>Riser</strong></td>
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**Product Finish**

<table>
<thead>
<tr>
<th>Media</th>
<th>SS</th>
<th>Satin stainless steel finish</th>
<th>GRD</th>
<th>Gloss dark gray powder coated finish</th>
<th>WHT</th>
<th>Gloss white powder coated finish</th>
<th>STM</th>
<th>Starburst metallic powder coated finish</th>
<th>GRY</th>
<th>Gloss light gray powder coated finish</th>
</tr>
</thead>
</table>

*Note:* Refer to “Product Finishes” catalog for complete information on finishes.
**BT6833 Pure Water Tap, Bench Mounted**

**NOTES:**
1. FITTING HAS STAINLESS STEEL CONSTRUCTION.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

**DETAIL A**

- 33.3mm (1-5/16”)
- 241mm (9-1/2”)
- 54mm (2-1/8”)
- Ø48mm (1-7/8”)

**Positioning Pins**
- Ø3.2mm (1/8”)
- 2.4mm (3/32”)

**Exposed Length**
- 2.4mm (3/32”)

**Valve Body**
- STAINLESS STEEL
- REMOVABLE SEVEN SERRATION HOSE END

**G1/2 Mounting Shank**
- WITH LOCKNUT AND WASHER

**Handle Color-Coded**
- MOLDED NYLON HOODED
- HANDLE COLOR-CODED PER EN STANDARD

**Pure Water Tap, Bench Mounted**
- 229mm (9”)
- 150mm (6”)
- 318mm (12-1/2”)

---

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 092118

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THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL
**Pure Water Taps – Plastic-Lined**

**Application:** Laboratory tap for distilled, deionised or reverse osmosis water. Tap has exterior brass casing and interior lining of either inert polypropylene or polyvinylidene fluoride (PVDF), as ordered. Pure water comes in contact only with inert plastic.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** Diaphragm-type valve. Brass valve stem and bonnet with inert PTFE diaphragm.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Riser:** Brass riser with 150mm (6'') spread.

**Inlet:** 10mm OD tube end. Furnished with G1/2 mounting shank, locknut and washer.

**Outlet:** Six serration plastic hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

---

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Polypropylene-Lined</th>
<th>PVDF-Lined</th>
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</thead>
<tbody>
<tr>
<td>Valve Construction</td>
<td></td>
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</tr>
<tr>
<td>Compression (manual on/off control)</td>
<td>BT7833</td>
<td>BT7833PVDF</td>
</tr>
<tr>
<td>Combination manual/self-closing control</td>
<td>BT7833MSC</td>
<td>BT7833MSC-PVDF</td>
</tr>
<tr>
<td>Self-closing control</td>
<td>BT7833SC</td>
<td>BT7833SC-PVDF</td>
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<tr>
<td>Riser</td>
<td>BT7833-8</td>
<td>BT7833-8PVDF</td>
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### Product Finish

<table>
<thead>
<tr>
<th>Media</th>
<th>Finish Type</th>
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<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
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<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
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<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
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<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
</tbody>
</table>

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
Rev. 052318

NOTES:
1. ALL COMPONENTS IN CONTACT WITH PURE WATER ARE INERT PLASTIC.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

DETAIL A

33.3mm (1-5/16"

Ø48mm (1-7/8"

57mm (2-1/4"

500mm (19-11/16"

10mm O.D.
PLASTIC TUBE

INLET BUSHING

G1/2 MOUNTING SHANK
WITH LOCKNUT AND WASHER

POSITIONING PINS
(SEE DETAIL A)

SIX SERRATION
INERT PLASTIC
HOSE END

FORGED BRASS
VALVE BODY WITH
INERT PLASTIC INTERIOR

COMPRESSION CONTROL
DIAPHRAGM VALVE
WITH PTFE DIAPHRAGM

MOLDED NYLON HOODED
HANDLE COLOR-CODED
PER EN STANDARD

Ø3.2mm (1/8"
POSITIONING PINS
2.4mm (3/32"
EXPOSED LENGTH

318mm
(12-1/2"

244mm
(9-5/8"

150mm
(6"

282mm
(11"

282mm
(11"

317mm
(12"

500mm
(19-11/16"

Per EN Standard
HANDLE COLOR-CODED
MOLDED NYLON HOODED

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 052218
Application: Laboratory tap for distilled, deionised or reverse osmosis water. Tap has exterior brass casing and interior lining of either inert polypropylene or polyvinylidene fluoride (PVDF), as ordered. Pure water comes in contact only with inert plastic.

Mounting: Wall or panel mounted with locator pins.

Body: Forged brass.

Headwork: Diaphragm-type valve. Brass valve stem and bonnet with inert PTFE diaphragm.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Riser: Brass extension piece with 150mm (6”) spread.

Inlet: 10mm OD tube end. Furnished with G1/2 mounting shank, locknut and washer.

Outlet: Six serration plastic hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

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### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Polypropylene-Lined</th>
<th>PVDF-Lined</th>
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<tbody>
<tr>
<td>Valve Construction</td>
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<tr>
<td>Compression (manual on/off) control</td>
<td>BT7834</td>
<td>BT7834PVDF</td>
</tr>
<tr>
<td>Combination manual/self-closing control</td>
<td>BT7834MSC</td>
<td>BT7834MSC-PVDF</td>
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<tr>
<td>Self-closing control</td>
<td>BT7834SC</td>
<td>BT7834SC-PVDF</td>
</tr>
<tr>
<td>Extension</td>
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<td></td>
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<tr>
<td>Extension piece with 200mm (8”) spread in place of 150mm (6”)</td>
<td>BT7834-8</td>
<td>BT7834-8PVDF</td>
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</table>

### Product Finish

- [ ] WHT  Gloss white powder coated finish
- [ ] PCL  Polished chrome plated finish with clear epoxy coating
- [ ] GRY  Gloss light gray powder coated finish
- [ ] SCC  Satin chrome plated finish with clear epoxy coating
- [ ] GRD  Gloss dark gray powder coated finish
- [ ] SNC  Satin nickel plated finish with clear epoxy coating
- [ ] STM  Starburst metallic powder coated finish

*Note: Refer to "Product Finishes" catalog for complete information on finishes.*
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

NOTES:
1. ALL COMPONENTS IN CONTACT WITH PURE WATER ARE INERT PLASTIC.
2. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
3. MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Rev. 052318
Water Fittings
Pure Water Taps – Plastic-Lined

BT7853 Pure Water Tap, Bench Mounted, Polypropylene-Lined
BT7853PVDF Pure Water Tap, Bench Mounted, PVDF-Lined

Application: Laboratory tap for distilled, deionised or reverse osmosis water. Tap has brass exterior casing and interior lining of either inert polypropylene or polyvinylidene fluoride (PVDF), as ordered. Pure water comes in contact only with inert plastic.

Mounting: Bench or countertop mounted with locator pins.

Body: Forged brass.

Headwork: Diaphragm-type valve. Brass valve stem and bonnet with inert PTFE diaphragm.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Gooseneck: 150mm (6") rigid gooseneck. Gooseneck is set in right hand configuration unless left hand or 180° is specified.

Inlet: 10mm OD tube end. Furnished with 30.5mm (1-3/16") dia. mounting shank, locknut and washer.

Outlet: Six serration plastic hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>Polypropylene-Lined</th>
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<tbody>
<tr>
<td>Gooseneck</td>
<td></td>
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<tr>
<td>150mm (6&quot;)</td>
<td>BT7853</td>
<td>BT7853PVDF</td>
</tr>
<tr>
<td>200mm (8&quot;)</td>
<td>BT7853-8</td>
<td>BT7853-8PVDF</td>
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</table>

Product Finish

<table>
<thead>
<tr>
<th></th>
<th>WHT</th>
<th>PCL</th>
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</thead>
<tbody>
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<td>GRY</td>
<td>SCC</td>
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<td></td>
<td>Gloss light gray powder coated finish</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
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<tr>
<td></td>
<td>GRD</td>
<td>SNC</td>
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<tr>
<td></td>
<td>Gloss dark gray powder coated finish</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td></td>
<td>STM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Starburst metallic powder coated finish</td>
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</table>

Note: Refer to "Product Finishes" catalog for complete information on finishes.

Media
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).
Valves for Laboratory Gases
Fine Control Needle Valves

BT2870-141WSA Double Fine Control Needle Valve, Wall/Panel Mounted

Application: Precise flow regulation of laboratory gases. Ideal for special gases such as nitrogen, oxygen, helium and hydrogen. Valve is specially cleaned, lubricated and packaged for use with high purity gases.

Mounting: Wye fitting for wall/panel mounting with locator pins.

Valve Bodies: Straight pattern forged brass.

Headworks: Replaceable self-centering stainless steel needle and replaceable stainless steel seat. Needle is finely tapered for precise metering of flow. Valve is capable of delivering one bubble of nitrogen gas at a time.

Handles: Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlets: G3/8 female outlets. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 25 bar (375 PSI) nitrogen test pressure and 17 bar (250 PSI) maximum working pressure.

Ordering Information

Outlet Fitting Options

- Serrated hose end  [ ] BT2870-141WSA
- Angle serrated hose end  [ ] BT2872-141WSA
- G3/8 quick connect fitting  [ ] BT2873-141WSA
- 10mm OD compression fitting  [ ] BT2874-141WSA

Product Finish

- WHT  Gloss white powder coated finish  [ ]
- GRY  Gloss light gray powder coated finish  [ ]
- GRD  Gloss dark gray powder coated finish  [ ]
- STM  Starburst metallic powder coated finish  [ ]
- PCL  Polished chrome plated finish with clear epoxy coating  [ ]
- SCC  Satin chrome plated finish with clear epoxy coating  [ ]
- SNC  Satin nickel plated finish with clear epoxy coating  [ ]

Note: Refer to "Product Finishes" catalog for complete information on finishes.

Media
Valves for Laboratory Gases
Fine Control Needle Valves

BT2870-141WSA Double Fine Control Needle Valve, Wall/Panel Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 060718

Notes:
1. Fitting is cleaned, degreased and packed for high purity gas service.
2. Fitting is factory assembled and tested at 25 bar (375 PSI). Maximum working pressure is 17 bar (250 PSI).

Rev. 051418
Valves for Laboratory Gases
Fine Control Needle Valves

BT2870-231WSA Fine Control Needle Valve, Bench Mounted

Application: Precise flow regulation of laboratory gases. Ideal for special gases such as nitrogen, oxygen, helium and hydrogen. Valve is specially cleaned, lubricated and packaged for use with high purity gases.

Mounting: Turret base for bench mounting with locator pins.

Valve Body: Straight pattern forged brass

Headwork: Replaceable self-centering stainless steel needle and replaceable stainless steel seat. Needle is finely tapered for precise metering of flow. Valve is capable of delivering one bubble of nitrogen gas at a time.

Handle: Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 25 bar (375 PSI) nitrogen test pressure and 17 bar (250 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
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</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT2870-231WSA</td>
<td>BT2870-232AWSA</td>
<td>BT2870-232SWSA</td>
<td>BT2870-234WSA</td>
</tr>
<tr>
<td>Angle serrated hose end</td>
<td>BT2872-231WSA</td>
<td>BT2872-232AWSA</td>
<td>BT2872-232SWSA</td>
<td>BT2872-234WSA</td>
</tr>
<tr>
<td>G3/8 quick connect fitting</td>
<td>BT2873-231WSA</td>
<td>BT2873-232AWSA</td>
<td>BT2873-232SWSA</td>
<td>BT2873-234WSA</td>
</tr>
<tr>
<td>10mm OD compression fitting</td>
<td>BT2874-231WSA</td>
<td>BT2874-232AWSA</td>
<td>BT2874-232SWSA</td>
<td>BT2874-234WSA</td>
</tr>
</tbody>
</table>

Product Finish

- WHT  Gloss white powder coated finish
- GRY  Gloss light gray powder coated finish
- GRD  Gloss dark gray powder coated finish
- PCL  Polished chrome plated finish with clear epoxy coating
- SCC  Satin chrome plated finish with clear epoxy coating
- SNC  Satin nickel plated finish with clear epoxy coating
- STM  Starburst metallic powder coated finish

Note: Refer to “Product Finishes” catalog for complete information on finishes.

Media

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WaterSaver Faucet Co.  wsflab.com
**BT2870-231WSA** Fine Control Needle Valve, Bench Mounted

**Valves for Laboratory Gases**

*Fine Control Needle Valves*

**ColorTech BT**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

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**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

**Valves for Laboratory Gases**

*Fine Control Needle Valves*

**ColorTech BT**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

---

**NOTES:**

1. FITTING IS CLEANED, DEGREASED AND PACKED FOR HIGH PURITY GAS SERVICE.
2. FITTING IS FACTORY ASSEMBLED AND TESTED AT 25 BAR (375 PSI). MAXIMUM WORKING PRESSURE IS 17 BAR (250 PSI).

Rev. 052318
**Application:** Precise flow regulation of laboratory gases. Ideal for special gases such as nitrogen, oxygen, helium and hydrogen. Valve is specially cleaned, lubricated and packaged for use with high purity gases.

**Mounting:** Turret base for overhead mounting with locator pins.

**Valve Body:** Angle pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat. Needle is finely tapered for precise metering of flow. Valve is capable of delivering one bubble of nitrogen gas at a time.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 25 bar (375 PSI) nitrogen test pressure and 17 bar (250 PSI) maximum working pressure.

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### Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
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</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>☐ BT3170-231WSA</td>
<td>☐ BT3170-232AWSA</td>
<td>☐ BT3170-232SWSA</td>
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<tr>
<td>Angle serrated hose end</td>
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<td>☐ BT3172-232AWSA</td>
<td>☐ BT3172-232SWSA</td>
<td>☐ BT3172-234WSA</td>
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<tr>
<td>G3/8 quick connect fitting</td>
<td>☐ BT3173-231WSA</td>
<td>☐ BT3173-232AWSA</td>
<td>☐ BT3173-232SWSA</td>
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<tr>
<td>10mm OD compression fitting</td>
<td>☐ BT3174-231WSA</td>
<td>☐ BT3174-232AWSA</td>
<td>☐ BT3174-232SWSA</td>
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</tr>
</tbody>
</table>

### Product Finish

- WHT  Gloss white powder coated finish
- PCL  Polished chrome plated finish with clear epoxy coating
- GRY  Gloss light gray powder coated finish
- SCC  Satin chrome plated finish with clear epoxy coating
- GRD  Gloss dark gray powder coated finish
- SNC  Satin nickel plated finish with clear epoxy coating
- STM  Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
Valves for Laboratory Gases
Fine Control Needle Valves

BT3170-231WSA Fine Control Needle Valve, Overhead Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 042418

ColorTech BT

WaterSaver Faucet Co.
BT4870F-226WSA Fine Control Needle Valve, Wall/Panel/Overhead Mounted

**Application:** Precise flow regulation of laboratory gases. Ideal for special gases such as nitrogen, oxygen, helium and hydrogen. Valve is specially cleaned, lubricated and packaged for use with high purity gases.

**Mounting:** Flanged inlet with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat. Needle is finely tapered for precise metering of flow. Valve is capable of delivering one bubble of nitrogen gas at a time.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 25 bar (375 PSI) nitrogen test pressure and 17 bar (250 PSI) maximum working pressure.

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**Ordering Information**

### Outlet Fitting Options

- Serrated hose end [BT4870F-226WSA]
- Angle serrated hose end [BT4872F-226WSA]
- G3/8 quick connect fitting [BT4873F-226WSA]
- 10mm OD compression fitting [BT4874F-226WSA]

### Product Finish

- WHT Gloss white powder coated finish
- GRY Gloss light gray powder coated finish
- GRD Gloss dark gray powder coated finish
- STM Starburst metallic powder coated finish
- PCL Polished chrome plated finish with clear epoxy coating
- SCC Satin chrome plated finish with clear epoxy coating
- SNC Satin nickel plated finish with clear epoxy coating

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

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WaterSaver Faucet Co.
**Valves for Laboratory Gases**

**Fine Control Needle Valves**

**BT4870F-226WSA** Fine Control Needle Valve, Wall/Panel/Overhead Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

**Furnished with**
- Threaded Escutcheon, Mounting Shank, Locknut and Washer for Securing to Panel.
- Fitting is Cleaned, Degreased and Packed for High Purity Gas Service.
- Fitting is Factory Assembled and Tested at 25 BAR (375 PSI). Maximum Working Pressure is 17 BAR (250 PSI).

**NOTES:**
1. **G3/8 Thread** for securing to panel.
2. **Fine Metering Stainless Steel Needle**
3. **Replaceable Stainless Steel Seat**
4. **Replaceable Self-Centering**
5. **Forged Brass Valve Body**
6. **Removable Seven Serration Hose End**
7. **Repositioning Pins**
8. **Molded Nylon Hooded Handle Color-Coded Per EN Standard**
9. **Stainless Steel Needle Valve**

**Specifications:**
- **Thread:** G3/8
- **Working Pressure:** 17 BAR (250 PSI)
- **Tested at:** 25 BAR (375 PSI)
- **Maximum:**

**Dimensions:**
- **Positioning Pins:** Ø3.2mm (1/8”)
- **Exposed Length:** 33.3mm (1-5/16”)
- **G1/2 Mounting Shank with Locknut and Washer:** 83mm (3-1/4”)
- **Ø48mm (1-7/8”)**
- **54mm (2-1/8”)**
- **70mm (2-3/4”)**
- **143mm (5-5/8”)**
- **54mm (2-1/8”)**

**Rev:** 050318

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Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

**Rev:** 052218

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**WaterSaver Faucet Co.**

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Valves for Laboratory Gases
Fine Control Needle Valves

**BT5170F-226WSA** Fine Control Needle Valve, Wall/Panel Mounted

**BT5270F-226WSA** Fine Control Needle Valve, Wall/Panel Mounted, Angle Outlet

**Application:** Precise flow regulation of laboratory gases. Ideal for special gases such as nitrogen, oxygen, helium and hydrogen. Valve is specially cleaned, lubricated and packaged for use with high purity gases.

**Mounting:** Flanged inlet with locator pins.

**Valve Body:** Angle pattern forged brass.

**Headwork:** Replaceable self-centering tapered stainless steel needle and replaceable stainless steel seat. Valve is capable of delivering one bubble of nitrogen gas at a time.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 25 bar (375 PSI) nitrogen test pressure and 17 bar (250 PSI) maximum working pressure.

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<th>BT5170F</th>
<th>BT5270F</th>
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<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT5170F-226WSA</td>
<td>BT5270F-226WSA</td>
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<tr>
<td>G3/8 quick connect fitting</td>
<td>BT5173F-226WSA</td>
<td>BT5273F-226WSA</td>
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<tr>
<td>10mm OD compression fitting</td>
<td>BT5174F-226WSA</td>
<td>BT5274F-226WSA</td>
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**Product Finish**

<table>
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<tbody>
<tr>
<td>WHT Gloss white powder coated finish</td>
<td></td>
</tr>
<tr>
<td>PCL Polished chrome plated finish with clear epoxy coating</td>
<td></td>
</tr>
<tr>
<td>GRY Gloss light gray powder coated finish</td>
<td></td>
</tr>
<tr>
<td>SCC Satin chrome plated finish with clear epoxy coating</td>
<td></td>
</tr>
<tr>
<td>GRD Gloss dark gray powder coated finish</td>
<td></td>
</tr>
<tr>
<td>SNC Satin nickel plated finish with clear epoxy coating</td>
<td></td>
</tr>
<tr>
<td>STM Starburst metallic powder coated finish</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.
Valves for Laboratory Gases
Fine Control Needle Valves

- **BT5170F-226WSA** Fine Control Needle Valve, Wall/Panel Mounted
- **BT5270F-226WSA** Fine Control Needle Valve, Wall/Panel Mounted, Angle Outlet

**NOTES:**
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS CLEANED, DEGREASED AND PACKED FOR HIGH PURITY GAS SERVICE.
3. FITTING IS FACTORY ASSEMBLED AND TESTED AT 25 BAR (375 PSI). MAXIMUM WORKING PRESSURE IS 17 BAR (250 PSI).

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).
**Application:** Flow regulation of all laboratory gases, including special gases such as nitrogen, oxygen, helium and hydrogen. When ordered, valve may be specially cleaned, lubricated and packaged for pure gas service. Valve is certified for natural gas service by CSA International.

**Mounting:** Wye fitting for wall/panel mounting with locator pins.

**Valve Bodies:** Straight pattern forged brass.

**Headworks:** Replaceable self-centering stainless steel needles and replaceable stainless steel seats.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlets:** G3/8 female outlets. Furnished with removable straight or angle serrated hose ends, quick connect fittings or compression fittings, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 17 bar (250 PSI) nitrogen test pressure and 10 bar (150 PSI) maximum working pressure.

---

**Ordering Information**

**Outlet Fitting Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Model Number</th>
</tr>
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<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT2880-141WSA</td>
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<tr>
<td>Angle serrated hose end</td>
<td>BT2882-141WSA</td>
</tr>
<tr>
<td>G3/8 quick connect fitting</td>
<td>BT2883-141WSA</td>
</tr>
<tr>
<td>10mm OD compression fitting</td>
<td>BT2884-141WSA</td>
</tr>
</tbody>
</table>

**Note:** If fitting is to be cleaned for oxygen and pure gas service, add suffix “CLN” to model number.

**Product Finish**

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Finish Description</th>
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<tbody>
<tr>
<td>WHT</td>
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<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
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<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
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<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

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**Vals for Laboratory Gases**

**Needle Valves**

**BT2880-141WSA** Double Needle Valve, Wall/Panel Mounted
Valves for Laboratory Gases
Needle Valves

BT2880-141WSA Double Needle Valve, Wall/Panel Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 17 BAR (250 PSI). MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
2. IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED, ADD SUFFIX "CLN".
**Application:** Flow regulation of all laboratory gases, including special gases such as nitrogen, oxygen, helium and hydrogen. When ordered, valve may be specially cleaned, lubricated and packaged for pure gas service. Valve is certified for natural gas service by CSA International.

**Mounting:** Turret base for bench mounting with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 17 bar (250 PSI) nitrogen test pressure and 10 bar (150 PSI) maximum working pressure.

---

**Ordering Information**

**Valve Configurations**

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
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</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT2880-231WSA</td>
<td>BT2880-232AWSA</td>
<td>BT2880-232SWSA</td>
<td>BT2880-234WSA</td>
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<tr>
<td>Angle serrated hose end</td>
<td>BT2882-231WSA</td>
<td>BT2882-232AWSA</td>
<td>BT2882-232SWSA</td>
<td>BT2882-234WSA</td>
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<tr>
<td>G3/8 quick connect fitting</td>
<td>BT2883-231WSA</td>
<td>BT2883-232AWSA</td>
<td>BT2883-232SWSA</td>
<td>BT2883-234WSA</td>
</tr>
<tr>
<td>10mm OD compression fitting</td>
<td>BT2884-231WSA</td>
<td>BT2884-232AWSA</td>
<td>BT2884-232SWSA</td>
<td>BT2884-234WSA</td>
</tr>
</tbody>
</table>

**Note:** If fitting is to be cleaned for oxygen and pure gas service, add suffix "CLN" to model number.

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.

**Media**

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**Single Valve**

**BT2880-231WSA** Needle Valve, Bench Mounted

**Two Valves at 90°**

**BT2880-232AWSA**

**Two Valves at 180°**

**BT2880-232SWSA**

**Four Valves**

**BT2880-234WSA**
Valves for Laboratory Gases
Needle Valves

**BT2880-231WSA** Needle Valve, Bench Mounted

- MOLDED NYLON HOODED HANDLE COLOR-CODED PER EN STANDARD
- FORGED BRASS VALVE BODY
- REMOVABLE SEVEN SERRATION HOSE END
- G3/8 OUTLET
- Ø41mm (1-5/8"
- POSITIONING PINS (SEE DETAIL A)
- G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER
- Ø3.2mm (1/8"
- POSITIONING PINS 2.4mm (3/32"
- EXPOSED LENGTH
- 33.3mm (1-5/16"

**DETAIL A**

- REPLACABLE STAINLESS STEEL SEAT
- REPLACABLE SELF-CENTERING STAINLESS STEEL NEEDLE

**SINGLE VALVE:** BT2880-231WSA

**TWO VALVES AT 90°:** BT2880-232AWSA

**TWO VALVES AT 180°:** BT2880-232WSA

**FOUR VALVES:** BT2880-234WSA

**NOTES:**

1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 17 BAR (250 PSI). MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
2. IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED, ADD SUFFIX "CLN".

Rev. 050018

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**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4"

Rev. 052218
**Application:** Flow regulation of all laboratory gases, including special gases such as nitrogen, oxygen, helium and hydrogen. When ordered, valve may be specially cleaned, lubricated and packaged for pure gas service. Valve is certified for natural gas service by CSA International.

**Mounting:** Turret base for overhead mounting with locator pins.

**Valve Body:** Angle pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 17 bar (250 PSI) nitrogen test pressure and 10 bar (150 PSI) maximum working pressure.

### Ordering Information

#### Outlet Fitting Options

<table>
<thead>
<tr>
<th></th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angle serrated hose end</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G3/8 quick connect fitting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10mm OD compression fitting</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Note:** If fitting is to be cleaned for oxygen and pure gas service, add suffix “CLN” to model number.

#### Product Finish

<table>
<thead>
<tr>
<th></th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
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<tbody>
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<td></td>
<td></td>
</tr>
<tr>
<td>PCL</td>
<td></td>
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</tr>
<tr>
<td>GRY</td>
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<td>SCC</td>
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<td>GRD</td>
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<tr>
<td>SNC</td>
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</tr>
<tr>
<td>STM</td>
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</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

#### Media

<table>
<thead>
<tr>
<th></th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
</table>
**Valves for Laboratory Gases**

**Needle Valves**

**BT3180-231WSA** Needle Valve, Overhead Mounted

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**DETAIL A**

- **FORGED BRASS VALVE BODY**
- **G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER**
- **G3/8 OUTLET**
- **REMOVABLE SEVEN SERRATION HOSE END**
- **REPLACEABLE STAINLESS STEEL SEAT**
- **REPLACEABLE SELF-CENTERING STAINLESS STEEL NEEDLE**
- **MOLDED NYLON HOODED HANDLE COLOR-CODED PER EN STANDARD**

**POSITIONING PINS** (SEE DETAIL A)

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 17 BAR (250 PSI). MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
2. IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED, ADD SUFFIX "CLN".

Rev: 050118

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**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev: 052218

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wsflab.com  WaterSaver Faucet Co.


**Valves for Laboratory Gases**

**Needle Valves**

**BT4880F-226WSA Needle Valve, Wall/Panel/Overhead Mounted**

**Application:** Flow regulation of all laboratory gases, including special gases such as nitrogen, oxygen, helium and hydrogen. When ordered, valve may be specially cleaned, lubricated and packaged for pure gas service. Valve is certified for natural gas service by CSA International.

**Mounting:** Flanged inlet with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight or angle serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 17 bar (250 PSI) nitrogen test pressure and 10 bar (150 PSI) maximum working pressure.

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**Ordering Information**

**Outlet Fitting Options**

<table>
<thead>
<tr>
<th>Serrated hose end</th>
<th>BT4880F-226WSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle serrated hose end</td>
<td>BT4882F-226WSA</td>
</tr>
<tr>
<td>G3/8 quick connect fitting</td>
<td>BT4883F-226WSA</td>
</tr>
<tr>
<td>10mm OD compression fitting</td>
<td>BT4884F-226WSA</td>
</tr>
</tbody>
</table>

*Note:* If fitting is to be cleaned for oxygen and pure gas service, add suffix “CLN” to model number.

**Product Finish**

<table>
<thead>
<tr>
<th>WHT</th>
<th>Gloss white powder coated finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
</tbody>
</table>

*Note:* Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

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WaterSaver Faucet Co.  wsflab.com  83
BT4880F-226WSA Needle Valve, Wall/Panel/Overhead Mounted

NOTES:
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS FACTORY ASSEMBLED AND TESTED AT 17 BAR (250 PSI). MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
3. IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED, ADD SUFFIX "CLN".

Rev. 050318

due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
Valves for Laboratory Gases
Needle Valves

- **BT5180F-226WSA** Needle Valve, Wall/Panel Mounted
- **BT5280F-226WSA** Needle Valve, Wall/Panel Mounted, Angle Outlet

**Application:** Flow regulation of all laboratory gases, including special gases such as nitrogen, oxygen, helium and hydrogen. When ordered, valve may be specially cleaned, lubricated and packaged for pure gas service. Valve is certified for natural gas service by CSA International.

**Mounting:** Flanged inlet with locator pins.

**Valve Body:** Angle pattern forged brass.

**Headwork:** Replaceable self-centering stainless steel needle and replaceable stainless steel seat.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight serrated hose end, quick connect fitting or compression fitting, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 17 bar (250 PSI) nitrogen test pressure and 10 bar (150 PSI) maximum working pressure.

### Ordering Information

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<th>Outlet Fitting Options</th>
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<td>Serrated hose end</td>
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<td>G3/8 quick connect fitting</td>
<td>BT5183F-226WSA</td>
<td>BT5283F-226WSA</td>
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<tr>
<td>10mm OD compression fitting</td>
<td>BT5184F-226WSA</td>
<td>BT5284F-226WSA</td>
</tr>
</tbody>
</table>

**Note:** If fitting is to be cleaned for oxygen and pure gas service, add suffix “CLN” to model number.

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

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ColorTech BT
WaterSaver Faucet Co.
Valves for Laboratory Gases
Needle Valves

- BT5180F-226WSA Needle Valve, Wall/Panel Mounted
- BT5280F-226WSA Needle Valve, Wall/Panel Mounted, Angle Outlet

**BT5180F-226WSA**
- MOLDED NYLON HOODED HANDLE COLOR-CODED PER EN STANDARD
- FORGED BRASS VALVE BODY
- POSITIONING PINS (SEE DETAIL A)
- Ø48mm (1-7/8") EXPOSED LENGTH
- Ø3.2mm (1/8") POSITIONING PINS 2.4mm (3/32")
- 70mm (2-3/4") REMOVABLE SEVEN SERRATION HOSE END
- G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER
- REPLACEMENT SELF-CENTERING STAINLESS STEEL NEEDLE

**BT5280F-226WSA**
- 60mm (2-3/8") REPLACEMENT STAINLESS STEEL SEAT
- 45° REVERSE SENSITIVITY

**NOTES:**
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS FACTORY ASSEMBLED AND TESTED AT 17 BAR (250 PSI). MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
3. IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED, ADD SUFFIX "CLN".

Rev. 052318

**Rev. 052218**

*Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").*
**Valves for Laboratory Gases**

**Burning Gas Valves – Push/Turn**

### BT2860I Push/Turn Gas Valve, Hose End Outlet

**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Self-contained push/turn cartridge with rotating ceramic discs. Valve locks in closed position.

**Handle:** Forged brass handle with index disc and pop-up indicator buttons. Handle locks in closed position. Handle must be pushed down to unlock and open valve. Red pop-up buttons indicate if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

**Note:** If red pop-up indicator buttons are not required, delete suffix “I”. Fitting will be furnished with molded nylon handle.

**Inlet:** G3/8 male inlet.

**Outlet:** BT2860I is furnished with removable straight serrated hose end. BT2863HI is furnished with quick connect fitting with hose end. Quick connect has internal valve to shut off gas flow when hose end is removed.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

### BT2863HI Push/Turn Gas Valve, Quick Connect with Hose End Outlet

**Ordering Information**

<table>
<thead>
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<th>Media</th>
<th>WHT</th>
<th>GRY</th>
<th>GRD</th>
<th>STM</th>
</tr>
</thead>
<tbody>
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<td>Product Finish</td>
<td>WHT</td>
<td>GRY</td>
<td>GRD</td>
<td>STM</td>
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<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
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<tr>
<td>SNC</td>
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<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
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</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

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WaterSaver Faucet Co.
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

- **BT2860I** Push/Turn Gas Valve, Hose End Outlet
- **BT2863HI** Push/Turn Gas Valve, Quick Connect with Hose End Outlet

- **PUSH/TURN HANDLE**
  - Color-coded per EN standard

- **FORGED BRASS VALVE BODY**

- **REMOVABLE SEVEN SERRATION HOSE END**

- **G3/8 OUTLET**
  - 102mm (4”)

- **G3/8 MALE THREAD**

- **QUICK CONNECT FITTING WITH HOSE END**

- **REPLACEABLE PUSH/TURN CERAMIC DISC CARTRIDGE**

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Rev. 122818

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Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”). Rev. 082418
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

BT2860I-141WSA Double Push/Turn Gas Valve, Wall/Panel Mounted

- **Application**: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

- **Mounting**: Wye fitting for wall/panel mounting with locator pins.

- **Valve Bodies**: Straight pattern forged brass.

- **Headworks**: Self-contained push/turn cartridges with rotating ceramic discs. Valves lock in closed position.

- **Handles**: Forged brass handles with index discs and pop-up indicator buttons. Handles lock in closed position. Handles must be pushed down to unlock and open valves. Red pop-up buttons indicate if valves are open or closed. Handles and index discs are color coded and marked per EN 13792.

- **Inlet**: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

- **Outlets**: G3/8 female outlets. Furnished with removable straight serrated hose end or quick connect fitting with hose end, as ordered (see below).

- **Quality Assurance**: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

---

### Ordering Information

#### Outlet Fitting Options

- Serrated hose end
- Quick connect fitting with hose end

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated</td>
<td>BT2860I-141WSA</td>
</tr>
<tr>
<td>Quick connect</td>
<td>BT2863HI-141WSA</td>
</tr>
</tbody>
</table>

**Note**: If red pop-up indicator buttons are not required, delete suffix “I”. Fitting will be furnished with molded nylon handles.

#### Product Finish

- WHT  Gloss white powder coated finish
- PCL  Polished chrome plated finish with clear epoxy coating
- GRY  Gloss light gray powder coated finish
- SCC  Satin chrome plated finish with clear epoxy coating
- GRD  Gloss dark gray powder coated finish
- SNC  Satin nickel plated finish with clear epoxy coating
- STM  Starburst metallic powder coated finish

**Note**: Refer to “Product Finishes” catalog for complete information on finishes.
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

BT2860I-141WSA Double Push/Turn Gas Valve, Wall/Panel Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

---

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

**Rev. 051418**
BT2860I-231WSA Push/Turn Gas Valve, Bench Mounted

**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

**Mounting:** Turret base for bench mounting with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Self-contained push/turn cartridge with rotating ceramic discs. Valve locks in closed position.

**Handle:** Forged brass handle with index disc and pop-up indicator buttons. Handle must be pushed down to unlock and open valve. Red pop-up buttons indicate if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight serrated hose end or quick connect fitting with hose end, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT2860I-231WSA</td>
<td>BT2860I-232AWSA</td>
<td>BT2860I-232SWSA</td>
<td>BT2860I-234WSA</td>
</tr>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT2863HI-231WSA</td>
<td>BT2863HI-232AWSA</td>
<td>BT2863HI-232SWSA</td>
<td>BT2863HI-234WSA</td>
</tr>
</tbody>
</table>

*Note: If red pop-up indicator buttons are not required, delete suffix “I”. Fitting will be furnished with molded nylon handle.*

### Product Finish

<table>
<thead>
<tr>
<th>Media</th>
<th>Product Finish</th>
<th>Valve Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td>BT2860I-231WSA BT2860I-232AWSA BT2860I-232SWSA BT2860I-234WSA</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td>BT2863HI-231WSA BT2863HI-232AWSA BT2863HI-232SWSA BT2863HI-234WSA</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td>BT2863HI-231WSA BT2863HI-232AWSA BT2863HI-232SWSA BT2863HI-234WSA</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td>BT2863HI-231WSA BT2863HI-232AWSA BT2863HI-232SWSA BT2863HI-234WSA</td>
</tr>
</tbody>
</table>

*Note: Refer to “Product Finishes” catalog for complete information on finishes.*
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

BT2860I-231WSA Push/Turn Gas Valve, Bench Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

WORKING PRESSURE IS 7 BAR (100 PSI).
TESTED AT 10 BAR (150 PSI). MAXIMUM

1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Rev.050318

Details:
- PUSH/TURN HANDLE COLOR-CODED PER EN STANDARD
- FORGED BRASS VALVE BODY
- REMOVABLE SEVEN SERRATION HOSE END
- G3/8 OUTLET (SEE DETAIL A)
- POSITIONING PINS (SEE DETAIL A)
- G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER
- Ø41mm (1-5/8”)
- Ø3.2mm (1/8”)
- EXPOSED LENGTH
- 33.3mm (1-5/16”)
- Ø3.2mm (1/8”)
- POSITIONING PINS
- 2.4mm (3/32”)
- EXPOSED LENGTH
- 62mm (2-7/16”)
- 60mm (2-3/8”)
- 79mm (3-1/8”)
- 60mm (2-3/8”)
- 124mm (4-7/8”)
- 60mm (2-3/8”)

Repriseable push/turn ceramic disc cartridge
SINGLE VALVE: BT2860I-231WSA
TWO VALVES AT 90°: BT2860I-232AWSA
TWO VALVES AT 180°: BT2860I-232WSA
FOUR VALVES: BT2860I-234WSA

NOTES:

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 050318
BT3160I-231WSA Push/Turn Gas Valve, Overhead Mounted

**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

**Mounting:** Turret base for overhead mounting with locator pins.

**Valve Body:** Angle pattern forged brass.

**Headwork:** Self-contained push/turn cartridge with rotating ceramic discs. Valve locks in closed position.

**Handle:** Forged brass handle with index disc and pop-up indicator buttons. Handle must be pushed down to unlock and open valve. Red pop-up buttons indicate if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet. Furnished with removable straight serrated hose end or quick connect fitting with hose end, as ordered (see below).

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT3160I-231WSA</td>
<td>BT3160I-232AWSA</td>
<td>BT3160I-232SWSA</td>
<td>BT3160I-234WSA</td>
</tr>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT3163HI-231WSA</td>
<td>BT3163HI-232AWSA</td>
<td>BT3163HI-232SWSA</td>
<td>BT3163HI-234WSA</td>
</tr>
</tbody>
</table>

**Note:** If red pop-up indicator buttons are not required, delete suffix “I”. Fitting will be furnished with molded nylon handle.

### Product Finish

<table>
<thead>
<tr>
<th>Media</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

BT3160I-231WSA Push/Turn Gas Valve, Overhead Mounted

- Forged Brass Valve Body
- With Locknut and Washer
- G1/2 Mounting Shank
- G3/8 Outlet
- Positioning Pins (See Detail A)
- POSITIONING PINS
- Ø3.2mm (1/8”)
- 2.4mm (3/32”)
- Exposed Length

- Push/Turn Handle
- Color-Coded Per EN Standard
- Removable Seven Serration Hose End
- Replaceable Push/Turn Ceramic Disc Cartridge

- Single Valve: BT3160I-231WSA
- Two Valves at 90°: BT3160I-232AWSA
- Two Valves at 180°: BT3160I-232WSAB
- Four Valves: BT3160I-234WSAB

- Working Pressure is 7 BAR (100 PSI).
- Tested at 10 BAR (150 PSI).

Notes:
1. Fitting is factory assembled and tested at 10 BAR (150 PSI). Maximum working pressure is 7 BAR (100 PSI).

Rev. 050318

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”). Rev. 052218
Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

Mounting: Flanged inlet with locator pins.

Valve Body: Straight pattern forged brass.

Headwork: Self-contained push/turn cartridge with rotating ceramic discs. Valve locks in closed position.

Handle: Forged brass handle with index disc and pop-up indicator buttons. Handle must be pushed down to unlock and open valve. Red pop-up buttons indicate if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet. Furnished with removable straight serrated hose end or quick connect fitting with hose end, as ordered (see below).

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

Outlet Fitting Options

| Serrated hose end      | BT4860FI-226WSA |
| Quick connect fitting with hose end | BT4863HFI-226WSA |

Note: If red pop-up indicator buttons are not required, delete suffix "I". Fitting will be furnished with molded nylon handle.

Product Finish

- WHT  Gloss white powder coated finish
- GRY  Gloss light gray powder coated finish
- GRD  Gloss dark gray powder coated finish
- STM  Starburst metallic powder coated finish
- PCL  Polished chrome plated finish with clear epoxy coating
- SCC  Satin chrome plated finish with clear epoxy coating
- SNC  Satin nickel plated finish with clear epoxy coating

Note: Refer to "Product Finishes" catalog for complete information on finishes.

Media

- [ ]
Push/Turn Gas Valve, Wall/Panel/Overhead Mounted

BT4860FI-226WSA

NOTES:
1. FURNISHED WITH THREADED ESCUTCHEON, MOUNTING SHANK, LOCKNUT AND WASHER FOR SECURING TO PANEL.
2. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

□ BT5160FI-226WSA Push/Turn Gas Valve, Wall/Panel Mounted
□ BT5260FI-226WSA Push/Turn Gas Valve, Wall/Panel Mounted, Angle Outlet

Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

Mounting: Flanged inlet with locator pins.

Valve Body: Angle pattern forged brass.

Headwork: Self-contained push/turn cartridge with rotating ceramic discs. Valve locks in closed position.

Handle: Replaceable self-centering brass handle with index disc and pop-up indicator buttons. Handle locks in closed position. Handle must be pushed down to unlock and open valve. Red pop-up buttons indicate if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: G3/8 female outlet with choice of fittings, as ordered (see below). On BT5160FI-226WSA, outlet is perpendicular to centerline of valve (i.e., outlet fitting points down). On BT5260FI-226WSA, outlet is at a 45° angle to centerline of valve.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>BT5160FI</th>
<th>BT5260FI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Quick connect fitting with hose end</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Note: If red pop-up indicator buttons are not required, delete suffix "I". Fitting will be furnished with molded nylon handles.

Product Finish

<table>
<thead>
<tr>
<th></th>
<th>WHT Gloss white powder coated finish</th>
<th>PCL Polished chrome plated finish with clear epoxy coating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GRY Gloss light gray powder coated finish</td>
<td>SCC Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td></td>
<td>GRD Gloss dark gray powder coated finish</td>
<td>SNC Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td></td>
<td>STM Starburst metallic powder coated finish</td>
<td></td>
</tr>
</tbody>
</table>

Note: Refer to “Product Finishes” catalog for complete information on finishes.

Media

□
Valves for Laboratory Gases
Burning Gas Valves – Push/Turn

- **BT5160FI-226WSA** Push/Turn Gas Valve, Wall/Panel Mounted
- **BT5260FI-226WSA** Push/Turn Gas Valve, Wall/Panel Mounted, Angle Outlet

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**NOTES:**
1. Furnished with threaded escutcheon, mounting shank, locknut and washer for securing to panel.
2. Fitting is factory assembled and tested at 10 bar (150 PSI). Maximum working pressure is 7 bar (100 PSI).
Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

Valve Body: Straight pattern forged brass.

Headwork: Quarter-turn ball valve construction with stainless steel valve stem, chrome plated brass ball and molded PTFE seals. Valve locks in closed position.

Handle: Spring-loaded molded nylon handle with brass insert and index disc. Handle locks in closed position. Handle must be pulled up to unlock and turned to open valve. Handle alignment indicates if valve is open or closed. Handle and index disc are color coded and marked per EN 13792.

Inlet: G3/8 male inlet.

Outlet: BT4160 is furnished with integral (nonremovable) serrated hose end. BT4163H is furnished with integral quick connect fitting with hose end. Quick connect has internal valve to shut off gas flow when hose end is removed.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Media</th>
<th>Product Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WHT Gloss white powder coated finish</td>
</tr>
<tr>
<td></td>
<td>GRY Gloss light gray powder coated finish</td>
</tr>
<tr>
<td></td>
<td>GRD Gloss dark gray powder coated finish</td>
</tr>
<tr>
<td></td>
<td>STM Starburst metallic powder coated finish</td>
</tr>
<tr>
<td></td>
<td>PCL Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td></td>
<td>SCC Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td></td>
<td>SNC Satin nickel plated finish with clear epoxy coating</td>
</tr>
</tbody>
</table>

Note: Refer to "Product Finishes" catalog for complete information on finishes.
Valves for Laboratory Gases
Burning Gas Valves – Lift/Turn

- **BT4160**: Lift/Turn Gas Valve, Hose End Outlet
- **BT4163H**: Lift/Turn Gas Valve, Quick Connect with Hose End Outlet

**BT4160**
- Chrome plated brass ball with molded PTFE seals
- Forged brass valve body
- Color-coded nylon lift-to-turn handle
- Colored plastic index disc
- Nonremovable seven serration hose end
- G3/8 male thread valve stem
- 79mm (3-1/8")
- 13mm (1/2")

**BT4163H**
- Nonremovable quick connect fitting with hose end
- 114mm (4-1/4")
- 13mm (1/2")

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
Valves for Laboratory Gases
Burning Gas Valves – Lift/Turn

BT4160-141WSA Double Lift/Turn Gas Valve, Wall/Panel Mounted

Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

Mounting: Wye fitting for wall/panel mounting with locator pins.

Valve Bodies: Straight pattern forged brass.

Headworks: Quarter-turn ball valve construction with stainless steel valve stems, chrome plated brass balls and molded PTFE seals. Valves lock in closed position.

Handles: Spring-loaded molded nylon handles with brass inserts and index discs. Handles lock in closed position. Handles must be pulled up to unlock and turned to open valves. Handle alignment indicates if valves are open or closed. Handles and indexes are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlets: BT4160 has integral (nonremovable) serrated hose end. BT4163H has integral quick connect fitting with serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

Outlet Fitting Options

<table>
<thead>
<tr>
<th>Serrated hose end</th>
<th>BT4160-141WSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT4163H-141WSA</td>
</tr>
</tbody>
</table>

Note: If internal check valve to prevent backflow is required, add suffix “CV” to model number.

Product Finish

<table>
<thead>
<tr>
<th>WHT</th>
<th>Gloss white powder coated finish</th>
<th>PCL</th>
<th>Polished chrome plated finish with clear epoxy coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Refer to “Product Finishes” catalog for complete information on finishes.

Media

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WaterSaver Faucet Co.
**NOTES:**

1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).
Valves for Laboratory Gases

Burning Gas Valves – Lift/Turn

Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

Mounting: Turret base for overhead mounting with locator pins.

Valve Bodies: Straight pattern forged brass.

Headworks: Quarter-turn ball valve construction with stainless steel valve stems, chrome plated brass balls and molded PTFE seals. Valves lock in closed position.

Handles: Spring-loaded molded nylon handles with brass inserts and index discs. Handles lock in closed position. Handles must be pulled up to unlock and turned to open valves. Handle alignment indicates if valves are open or closed. Handles and indexes are color coded and marked per EN 13792.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlets: BT4160 has an integral (nonremovable) serrated hose end. BT4163H has an integral quick connect fitting with serrated hose end.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

Valve Configurations

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT4160-148WSA</td>
<td>BT4160-148-2SWSA</td>
</tr>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT4163H-148WSA</td>
<td>BT4163H-148-2SWSA</td>
</tr>
</tbody>
</table>

Note: If internal check valve to prevent backflow is required, add suffix “CV” to model number.

Product Finish

<table>
<thead>
<tr>
<th></th>
<th>Product Finish</th>
<th>Single Valve</th>
<th>Two Valves at 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td>BT4160-148WSA</td>
<td>BT4160-148-2SWSA</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td>BT4163H-148WSA</td>
<td>BT4163H-148-2SWSA</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCL</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCC</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Refer to ”Product Finishes” catalog for complete information on finishes.

Media

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Valves for Laboratory Gases
 Burning Gas Valves – Lift/Turn

**BT4160-148WSA** Lift/Turn Gas Valve, Overhead Mounted, Single
**BT4160-148-2SWSA** Lift/Turn Gas Valve, Overhead Mounted, Double

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Rev. 052318

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THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 071718
Valves for Laboratory Gases
Burning Gas Valves – Lift/Turn

BT4160-158WSA Lift/Turn Gas Valve, Wall/Panel/Overhead Mounted

**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

**Mounting:** Inlet flange with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Quarter-turn ball valve construction with stainless steel valve stem, chrome plated brass ball and molded PTFE seals. Valve locks in closed position.

**Handle:** Spring-loaded molded nylon handle with brass insert and index disc. Handle locks in closed position. Handle must be pulled up to unlock and turned to open valve. Handle alignment indicates if valve is open or closed. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** BT4160 has integral (nonremovable) serrated hose end. BT4163H has integral quick connect fitting with serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

---

**Ordering Information**

**Outlet Fitting Options**

<table>
<thead>
<tr>
<th>Serrated hose end</th>
<th>BT4160-158WSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT4163H-158WSA</td>
</tr>
</tbody>
</table>

**Note:** If internal check valve to prevent backflow is required, add suffix “CV” to model number.

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

- ____________________________
Valves for Laboratory Gases
Burning Gas Valves – Lift/Turn

**BT4160-158WSA** Lift/Turn Gas Valve, Wall/Panel/Overhead Mounted

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

Rev. 052318
**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International.

**Mounting:** Turret base for bench mounting with locator pins.

**Valve Body:** Straight pattern forged brass.

**Headwork:** Quarter-turn ball valve construction with stainless steel valve stem, chrome plated brass ball and molded PTFE seals. Valve locks in closed position.

**Handle:** Spring-loaded molded nylon handle with brass insert and index disc. Handle locks in closed position. Handle must be pulled up to unlock and turned to open valve. Handle alignment indicates if valve is open or closed. Handle and index are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** BT4160 has integral (nonremovable) serrated hose end. BT4163H has quick connect fitting with serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

---

### Ordering Information

<table>
<thead>
<tr>
<th>Outlet Fitting Options</th>
<th>Single Valve</th>
<th>Two Valves at 90°</th>
<th>Two Valves at 180°</th>
<th>Four Valves</th>
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</thead>
<tbody>
<tr>
<td>Serrated hose end</td>
<td>BT4160-231WSA</td>
<td>BT4160-232AWSA</td>
<td>BT4160-232SWSA</td>
<td>BT4160-234WSA</td>
</tr>
<tr>
<td>Quick connect fitting with hose end</td>
<td>BT4163H-231WSA</td>
<td>BT4163H-232AWSA</td>
<td>BT4163H-232SWSA</td>
<td>BT4163H-234WSA</td>
</tr>
</tbody>
</table>

**Note:** If internal check valve to prevent backflow is required, add suffix "CV" to model number.

### Product Finish

<table>
<thead>
<tr>
<th>Media</th>
<th>Product Finish</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT</td>
<td>Gloss white powder coated finish</td>
<td>Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRY</td>
<td>Gloss light gray powder coated finish</td>
<td>Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD</td>
<td>Gloss dark gray powder coated finish</td>
<td>Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
**Valves for Laboratory Gases**

**Burning Gas Valves – Lift/Turn**

**BT4160-231WSA** Lift/Turn Gas Valve, Bench Mounted

---

**LIFT/TURN HANDLE**
- COLOR-CODED
- PER EN STANDARD

**STAINLESS STEEL VALVE STEM**

**CHROME PLATED BRASS BALL**
- WITH MOLDED PTFE SEALS

**NONREMOVABLE SEVEN SERRATION HOSE END**

**FORGED BRASS VALVE BODY**
- 105mm (4-1/8”)
- 44mm (1-3/4”)
- 62mm (2-7/16”)
- 60mm (2-3/8”)

**POSITIONING PINS**
- (SEE DETAIL A)
- Ø3.2mm (1/8”)
- POSITIONING PINS
- 2.4mm (3/32”)
- EXPOSED LENGTH
- 33.3mm (1-5/16”)

**G1/2 MOUNTING SHANK**
- WITH LOCKNUT AND WASHER

**NOTES:**
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).

---

**DETAIL A**

**SINGLE VALVE:**
- BT4160-231WSA

**TWO VALVES AT 90°:**
- BT4160-232AWSA

**TWO VALVES AT 180°:**
- BT4160-232SWSA

**FOUR VALVES:**
- BT4160-234WSA

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**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

Rev. 07/17/18
BTVR380 Single Water Tap, Bench Mounted, Vandal-Resistant Construction

**Application:** Laboratory water tap for cold water. Tap has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat. Packing nut is secured with set screw to prevent removal.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792. Index disc is cemented in place.

**Riser:** Brass riser with 150mm (6") spread. Riser is 1/2" IPS heavy wall pipe to resist bending and breakage.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with anti-splash serrated hose end. Hose end has internal check valve to prevent backflow. Hose end is secured with set screw to prevent removal.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

#### Options

<table>
<thead>
<tr>
<th>Valve Construction</th>
<th>Compression valve cartridge</th>
<th>BTVR380</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ceramic disc valve cartridge</td>
<td>BTVR380</td>
</tr>
<tr>
<td>Riser</td>
<td>Riser with 200mm (8&quot;) spread in place of 150mm (6&quot;)</td>
<td>BTVR380-8</td>
</tr>
<tr>
<td>Outlet Fitting</td>
<td>BO05SVR aerator in place of hose end</td>
<td>BTVR380-55</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BTVR380-118</td>
</tr>
</tbody>
</table>

#### Product Finish

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.

**Media**
**School Fittings**  
**Vandal-Resistant**

**BTVR380 Single Water Tap, Bench Mounted, Vandal-Resistant Construction**

---

**NOTES:**
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
3. ALL THREADED CONNECTIONS ARE SECURED WITH SET SCREWS OR CEMENT.

---

**DETAIL A**

- Ø3.2mm (1/8") POSITIONING PINS
- 2.4mm (3/32") EXPOSED LENGTH
- 33.3mm (1-5/16")
- 229mm (9")
- 241mm (9-1/2")
- 54mm (2-1/8")
- 48mm (Ø1-7/8")
- 150mm (6")
- 318mm (12-1/2")

**MOLDED NYLON HOODED HANDLE COLOR-CODED PER EN STANDARD**

**FORGED BRASS VALVE BODY**

**VANDAL-RESISTANT PACKING NUT SECURED WITH SET SCREW**

**WATER SAVER RENEWABLE UNIT**

**G3/8 OUTLET**

**VANDAL-RESISTANT SEVEN SERRATION HOSE END WITH CHECK VALVE**

---

**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 122818

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Rev. 080318
**Application:** Laboratory water mixer tap for hot and cold water. Tap has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats. Packing nuts are secured with set screws to prevent removal.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792. Index discs are cemented in place.

**Gooseneck:** 150mm (6") rigid gooseneck. Gooseneck riser is 1/2" IPS heavy wall pipe to resist bending and breakage.

**Inlets:** (2) 10mm OD flexible copper tubes. Furnished complete with 30.5mm (1-3/16") dia. mounting shank, locknut and washer.

**Outlet:** G3/8 female outlet with anti-splash serrated hose end. Hose end has internal check valve to prevent backflow. Hose end is secured with set screw to prevent removal.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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**Ordering Information**

<table>
<thead>
<tr>
<th>Options</th>
<th>BTVR411</th>
<th>BTVR414</th>
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<td><strong>Valve Construction</strong></td>
<td>Compression valve cartridges</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceramic disc valve cartridges</td>
<td>BTVC411</td>
</tr>
<tr>
<td><strong>Gooseneck</strong></td>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>BTVR411-8</td>
</tr>
<tr>
<td><strong>Outlet Fitting</strong></td>
<td>BO055VR aerator in place of hose end</td>
<td>BTVR411-55</td>
</tr>
<tr>
<td></td>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>BTVR411-118</td>
</tr>
<tr>
<td><strong>Inlet Connections</strong></td>
<td>Braided stainless steel flexible connectors in place of copper tubes</td>
<td>BTVR411HSP</td>
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</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRY** Gloss light gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

**Media**

- [ ]
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

**BTVR411** Mixer Tap, Bench Mounted, Vandal-Resistant Construction

**BTVR414** Mixer Tap, Bench Mounted, Rigid/Swing Gooseneck, Vandal-Resistant Construction

NOTES:
1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).
3. ALL CONNECTIONS ARE SECURED WITH SET SCREWS OR CEMENT.

Rev. 122818
**Application:** Laboratory water tap for cold water. Tap has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

**Mounting:** Bench or countertop mounted with locator pins.

**Body:** Forged brass.

**Headwork:** WaterSaver self-contained compression valve cartridge with replaceable stainless steel seat. Packing nut is secured with set screw to prevent removal.

**Handle:** Molded nylon hooded style handle with index disc. Handle and index are color coded and marked per EN 13792. Index disc is cemented in place.

**Gooseneck:** 150mm (6") rigid gooseneck. Gooseneck riser is 1/2" IPS heavy wall pipe to resist bending and breakage. Gooseneck is set in right hand configuration unless left hand or 180° is specified.

**Inlet:** Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

**Outlet:** G3/8 female outlet with anti-splash serrated hose end. Hose end has internal check valve to prevent backflow. Hose end is secured with set screw to prevent removal.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

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### Ordering Information

#### Options

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<td>Ceramic disc valve cartridge</td>
<td>BTVR611-8</td>
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<table>
<thead>
<tr>
<th>Gooseneck</th>
<th>BTVR611-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
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</table>

<table>
<thead>
<tr>
<th>Outlet Fitting</th>
<th>BTVR611-55</th>
</tr>
</thead>
<tbody>
<tr>
<td>BO05SVR aerator in place of hose end</td>
<td></td>
</tr>
</tbody>
</table>

| BT118 pipe interrupter fitting with hose end | BTVR611-118 |

#### Product Finish

- **WHT** Gloss white powder coated finish
- **GRY** Gloss light gray powder coated finish
- **GRD** Gloss dark gray powder coated finish
- **STM** Starburst metallic powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **SCC** Satin chrome plated finish with clear epoxy coating
- **SNC** Satin nickel plated finish with clear epoxy coating

**Note:** Refer to "Product Finishes" catalog for complete information on finishes.

#### Media

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WaterSaver Faucet Co.  wsflab.com  113
BTVR611 Single Water Tap, Bench Mounted, Vandal-Resistant Construction

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

1. FITTING IS FULLY ASSEMBLED AND FACTORY TESTED PRIOR TO SHIPMENT.

NOTES:
2. MAXIMUM WORKING PRESSURE IS 10 BAR (150 PSI).

DETAIL A

Ø3.2mm (1/8”) POSITIONING PINS 2.4mm (3/32”) EXPOSED LENGTH

G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER

VANDAL-RESISTANT SEVEN SERRATION HOSE END WITH CHECK VALVE

WATERSAVER RENEWABLE UNIT

FORGED BRASS VALVE BODY

MOLDED NYLON HOODED HANDLE COLOR-CODED PER EN STANDARD

HEAVY WALL RISER (GOOSENECK SHOWN AS SIDE VIEW FOR DIMENSIONS ONLY)

VANDAL-RESISTANT PACKING NUT SECURED WITH SET SCREW

POSITIONING PINS (SEE DETAIL A)

G3/8 COUPLING

305mm (12”)

194mm (7-5/8”)

150mm (6”)

89mm (3-1/2”)

67mm (2-5/8”)

150mm (6”)

41mm (1-5/8”)

70mm (2-3/4”)

38.1mm (1-1/2”)

54mm (2-1/8”)

Ø44mm (1-3/4”)

WaterSaver Faucet Co.

Rev. 031819
School Fittings
Vandal-Resistant

- **BTVR1611WSA** Mixer Tap, Bench Mounted, Vandal-Resistant Construction
- **BTVR1614WSA** Mixer Tap, Bench Mounted, Rigid/Swing Gooseneck, Vandal-Resistant Construction

**Application:** Laboratory water mixer tap for hot and cold water. Tap has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

**Mounting:** Bench or countertop mounted.

**Body:** Cast brass.

**Headworks:** WaterSaver self-contained compression valve cartridges with replaceable stainless steel seats. Packing nuts are secured with set screws to prevent removal.

**Handles:** Molded nylon hooded style handles with index discs. Handles and indexes are color coded and marked per EN 13792. Index discs are cemented in place.

**Gooseneck:** 150mm (6") rigid gooseneck. Gooseneck riser is 1/2" IPS heavy wall pipe to resist bending and breakage.

**Inlets:** (2) G1/2 male inlets on 180mm center dimension. Furnished with G1/2 mounting shanks, locknuts and washers.

**Outlet:** G3/8 female outlet with removable anti-splash serrated hose end. Hose end has internal check valve to prevent backflow. Hose end is secured with set screw to prevent removal.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and maximum working pressure.

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>BTVR1611WSA</th>
<th>BTVR1614WSA</th>
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</thead>
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<td><strong>Valve Construction</strong></td>
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</tr>
<tr>
<td>Compression valve cartridges</td>
<td>□ BTVR1611WSA</td>
<td>□ BTVR1614WSA</td>
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<tr>
<td>Ceramic disc valve cartridges</td>
<td>□ BTVR1611WSA</td>
<td>□ BTVR1614WSA</td>
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<tr>
<td><strong>Gooseneck</strong></td>
<td></td>
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<tr>
<td>200mm (8&quot;) gooseneck in place of 150mm (6&quot;)</td>
<td>□ BTVR1611-8WSA</td>
<td>□ BTVR1614-8WSA</td>
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<td><strong>Outlet Fitting</strong></td>
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<td></td>
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<tr>
<td>BO055VR aerator in place of hose end</td>
<td>□ BTVR1611-55WSA</td>
<td>□ BTVR1614-55WSA</td>
</tr>
<tr>
<td>BT118 pipe interrupter fitting with hose end</td>
<td>□ BTVR1611-118WSA</td>
<td>□ BTVR1614-118WSA</td>
</tr>
</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **GRY** Gloss light gray powder coated finish
- **GRD** Gloss dark gray powder coated finish
- **STM** Starburst metallic powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **SCC** Satin chrome plated finish with clear epoxy coating
- **SNC** Satin nickel plated finish with clear epoxy coating

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.

### Media

- W.

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WaterSaver Faucet Co.
BTVR1611WSA  Mixer Tap, Bench Mounted, Vandal-Resistant Construction
BTVR1614WSA  Mixer Tap, Bench Mounted, Rigid/Swing Gooseneck, Vandal-Resistant Construction

NOTES:
1. Fitting is fully assembled and factory tested prior to shipment.
2. Maximum working pressure is 10 bar (150 PSI).
3. All connections are secured with set screws or cement.

Rev. 122818
School Fittings
Vandal-Resistant

Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International. Fitting has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

Mounting: Wye fitting with two outlets and locator pins.

Valve Bodies: Straight pattern forged brass.

Headworks: Quarter-turn ball valve construction with stainless steel valve stems, chrome plated brass balls and molded PTFE seals. Valves lock in closed position. Valves have integral check valves to prevent backflow.

Handles: Spring-loaded molded nylon handles with brass inserts and index discs. Handles lock in closed position. Handles must be pulled up to unlock and turned to open valves. Handle alignment indicates if valves are open or closed. Handles and indexes are color coded and marked per EN 13792. Index discs are cemented in place.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlets: BT4160 is furnished with integral (nonremovable) serrated hose end. BT4163H is furnished with integral quick connect fitting with hose end. Quick connect has internal valve to shut off gas flow when hose end is removed.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

Product Finish

- WHT  Gloss white powder coated finish
- GRY  Gloss light gray powder coated finish
- GRD  Gloss dark gray powder coated finish
- STM  Starburst metallic powder coated finish
- PCL  Polished chrome plated finish with clear epoxy coating
- SCC  Satin chrome plated finish with clear epoxy coating
- SNC  Satin nickel plated finish with clear epoxy coating

Note: Refer to “Product Finishes” catalog for complete information on finishes.

Media

- ________________________________
School Fittings
Vandal-Resistant

BTVR4160-141WSA Double Lift/Turn Gas Valve, Wall/Panel Mounted, Vandal-Resistant
BTVR4163H-141WSA Double Lift/Turn Gas Valve, Wall/Panel Mounted, Vandal-Resistant

G1/2 MOUNTING SHANK WITH LOCKNUT AND WASHER
LIFT/TURN HANDLE COLOR-CODED PER EN STANDARD
INTERNAL CHECK VALVE
POSITIONING PINS (SEE DETAIL A)
NONREMOVABLE SEVEN SERRATION HOSE END
STAINLESS STEEL VALVE STEM
CHECK VALVE INTERNAL
FORGED BRASS VALVE BODY
THIS VALVE IS ROTATED 90° FOR DIMENSIONS ONLY

NOTES:
1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 10 BAR (150 PSI). MAXIMUM WORKING PRESSURE IS 7 BAR (100 PSI).
2. ALL THREADED CONNECTIONS ARE SECURED WITH CEMENT.

Rev. 122818

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 080618
School Fittings
Vandal-Resistant

Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Valve is certified for natural gas service by CSA International. Fitting has heavy duty construction to withstand bending, breakage and disassembly. All threaded connections are secured with cement.

Mounting: Turret base for bench mounting with locator pins.

Valve Body: Straight pattern forged brass.

Headwork: Quarter-turn ball valve construction with stainless steel valve stem, chrome plated brass ball and molded PTFE seals. Valve locks in closed position. Valve has integral check valve to prevent backflow.

Handle: Spring-loaded molded nylon handle with brass insert and index disc. Handle locks in closed position. Handle must be pulled up to unlock and turned to open valve. Handle alignment indicates if valve is open or closed. Handle and index are color coded and marked per EN 13792. Index disc is cemented in place.

Inlet: Furnished with G1/2 mounting shank, locknut and washer. G1/2 male inlet.

Outlet: BT4160 is furnished with integral (nonremovable) serrated hose end. BT4163H is furnished with integral quick connect fitting with hose end. Quick connect has internal valve to shut off gas flow when hose end is removed.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 10 bar (150 PSI) test pressure and 7 bar (100 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Product Finish</th>
<th>Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHT Gloss white powder coated finish</td>
<td>PCL Polished chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRY Gloss light gray powder coated finish</td>
<td>SCC Satin chrome plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>GRD Gloss dark gray powder coated finish</td>
<td>SNC Satin nickel plated finish with clear epoxy coating</td>
</tr>
<tr>
<td>STM Starburst metallic powder coated finish</td>
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</tbody>
</table>

Note: Refer to “Product Finishes” catalog for complete information on finishes.
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
School Fittings
Burning Gas Fittings

- **BT2920-1BM** Single Lift/Turn Gas Valve, Bench Mounted
- **BT2920-2A-BM** Double Lift/Turn Gas Valve, 90°, Bench Mounted
- **BT2920-2S-BM** Double Lift/Turn Gas Valve, 180°, Bench Mounted
- **BT2920-4M** Four-Way Lift/Turn Gas Valve, Bench Mounted

**Application:** Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Fitting is designed as an alternative to the "drop lever" valves used for low pressure gas applications in the United Kingdom and other markets.

**Mounting:** Turret base with locator pins.

**Valve Bodies:** Straight pattern forged brass.

**Headworks:** Quarter-turn ball valve construction with chrome plated brass balls and molded PTFE seals. Valves lock in closed position.

**Handle:** Spring-loaded molded nylon handles. Handles lock in closed position. Handles must be pulled up to unlock and turned to open valves. Handle alignment indicates if valves are open or closed. Handles are color coded and marked per EN 13792.

**Inlet:** Furnished with G1/4 mounting shank, locknut and washer. G1/4 male inlet.

**Outlet:** Integral (nonremovable) serrated hose end.

**Quality Assurance:** Fitting is fully assembled and factory tested prior to shipment. 8.5 bar (125 PSI) test pressure and 5 bar (75 PSI) maximum working pressure.

---

**Ordering Information**

**Product Finish**

- **WHT** Gloss white powder coated finish
- **GRY** Gloss light gray powder coated finish
- **GRD** Gloss dark gray powder coated finish
- **STM** Starburst metallic powder coated finish

*Note: Refer to "Product Finishes" catalog for complete information on finishes.*

**Media**
School Fittings
Burning Gas Fittings

- **BT2920-1BM** Single Lift/Turn Gas Valve, Bench Mounted
- **BT2920-2A-BM** Double Lift/Turn Gas Valve, 90°, Bench Mounted
- **BT2920-2S-BM** Double Lift/Turn Gas Valve, 180°, Bench Mounted
- **BT2920-4M** Four Way Lift/Turn Gas Valve, Bench Mounted

**NOTES:**
- WORKING PRESSURE IS 5 BAR (75 PSI).
- TESTED AT 8.5 BAR (125 PSI).

1. FITTING IS FACTORY ASSEMBLED AND TESTED AT 8.5 BAR (125 PSI). MAXIMUM WORKING PRESSURE IS 5 BAR (75 PSI).

Rev. 122818

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 080318
Application: Flow control of burning or combustible gases such as natural gas, propane and bottled gas. Fitting is designed as an alternative to the "drop lever" valves used for low pressure gas applications in the United Kingdom and other markets.

Mounting: Flange or wye fitting with locator pins.

Valve Bodies: Straight pattern forged brass.

Headworks: Quarter-turn ball valve construction with chrome plated brass balls and molded PTFE seals. Valves lock in closed position.

Handles: Spring-loaded molded nylon handles. Handles lock in closed position. Handles must be pulled up to unlock and turned to open valves. Handle alignment indicates if valves are open or closed. Handles are color coded and marked per EN 13792.

Inlet: Furnished with G1/4 mounting shank, locknut and washer. G1/4 male inlet.

Outlets: Integral (nonremovable) serrated hose ends.

Quality Assurance: Fitting is fully assembled and factory tested prior to shipment. 8.5 bar (125 PSI) test pressure and 5 bar (75 PSI) maximum working pressure.

Ordering Information

<table>
<thead>
<tr>
<th>Product Finish</th>
<th>Code</th>
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<tbody>
<tr>
<td>WHT Gloss white powder coated finish</td>
<td>BT2920-1PM, BT2920-2PM</td>
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<tr>
<td>GRY Gloss light gray powder coated finish</td>
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<tr>
<td>GRD Gloss dark gray powder coated finish</td>
<td></td>
</tr>
<tr>
<td>STM Starburst metallic powder coated finish</td>
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</tr>
</tbody>
</table>

Note: Refer to "Product Finishes" catalog for complete information on finishes.
School Fittings
Burning Gas Fittings

**BT2920-1PM** Single Lift/Turn Gas Valve, Wall/Panel Mounted
**BT2920-2PM** Double Lift/Turn Gas Valve, Wall/Panel Mounted

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

**Notes:**
1. Fitting is factory assembled and tested at 8.5 bar (125 PSI). Maximum working pressure is 5 bar (75 PSI).

Rev. 122818

Precision Fab. Design and Engineering - Toronto, Canada

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**THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL**

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

Rev. 082418
WaterSaver offers two styles of goosenecks for ColorTech BT water fittings. Rigid goosenecks thread directly into the top of the tap body. The gooseneck is thus absolutely rigid. Convertible rigid/swing goosenecks have a union-style construction with retainer nut and two O-rings. Goosenecks can be set as either rigid or swing in the field.

All goosenecks and spouts are fabricated of heavy wall brass tubing with a minimum wall thickness of 2.2mm (.085”). They resist bending and stand up to even the most demanding lab conditions. Goosenecks and spouts have a separate outlet coupling with a G3/8 thread soldered to the end of the tube for attachment of serrated hose ends, aerators and other outlet fittings.

### Rigid Goosenecks

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Spread</th>
<th>Height</th>
<th>Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTRG4</td>
<td>100mm (4”)</td>
<td>197mm (7-3/4”)</td>
<td>130mm (5-1/8”)</td>
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<tr>
<td>BTRG6</td>
<td>150mm (6”)</td>
<td>210mm (8-1/4”)</td>
<td>143mm (5-5/8”)</td>
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<td>BTRG8</td>
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<tr>
<td>BTRG9</td>
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<tr>
<td>BTRG10</td>
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### Rigid/Swing Goosenecks

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<td>BTRS8</td>
<td>200mm (8”)</td>
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<tr>
<td>BTRS9</td>
<td>229mm (9”)</td>
<td></td>
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<tr>
<td>BTRS10</td>
<td>254mm (10”)</td>
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<tr>
<td>BTRS12</td>
<td>305mm (12”)</td>
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### Swing Spouts

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<th>Spread</th>
<th>Height</th>
<th>Clearance</th>
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</thead>
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<td>38mm (1-1/2”)</td>
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<td>BTRSW9</td>
<td>230mm (9”)</td>
<td>130mm (5-1/8”)</td>
<td>57mm (2-1/4”)</td>
</tr>
<tr>
<td>BTRSW12</td>
<td>305mm (12”)</td>
<td>149mm (5-7/8”)</td>
<td>76mm (3”)</td>
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</tbody>
</table>
BI231VR  Turret Base, Single Outlet
BI232A-VR  Turret Base, Two Outlets at 90°
BI232S-VR  Turret Base, Two Outlets at 180°
BI234VR  Turret Base, Four Outlets

BI141VR  Wye Fitting, Panel Mounted, Two Outlets at 90°

BI148-2S-VR  Extended Wye Fitting, Overhead Mounted, Two Outlets at 90°
BI148VR  Extended Wye Fitting, Overhead Mounted, Single Outlet
Accessories and Components
Inlet Fittings

□ BI158VR Flange, Panel Mounted

□ BI226 Threaded Escutcheon, G1/2 Female Thread

□ BI237-02-08R G1/2 Mounting Shank with Locknut and Washer, 63mm (2-1/8") OAL
□ BI237-02-12R G1/2 Mounting Shank with Locknut and Washer, 73mm (2-7/8") OAL
□ BI237-03-08R Mounting Shank with Locknut and Washer, 89mm (3-1/2") OAL

□ BI637-02-02B-R G1/2 Mounting Shank with G1/4 Side Inlet, 54mm (2-1/8") OAL
□ BI637-03-14B-R G1/2 Mounting Shank with G1/4 Side Inlet, 98mm (3-7/8") OAL
BO138S-W Anti-Splash Serrated Hose End for Water
BO138S-G Serrated Hose End for Gases

BO142 Angle Serrated Hose End

BO127S Aspirator
BO124 Splash Eliminator for use with BO127S Aspirator
BO055 Aerator

BO055FC Aerator with Internal Flow Control  
*Note: Specify flow rate in GPM when ordering*

BO055VR Vandal-Resistant Aerator

BO183-10mm 10mm Compression Fitting

BO191B Quick Connect Fitting, G3/8 Male Plug

BO191B-H Quick Connect Fitting, Hose End Plug
BT108 Continuous Pressure Backflow Preventer, G3/8 Female Inlet and Outlet

Note: The BT108 is furnished with a rough brass finish as standard. Specify if other finish is required.

BT118 Pipe Interrupter Fitting, G3/8 Male Inlet

NOTE:
1. FITTING MUST BE INSTALLED SO THAT BOTTOM OF TAP OUTLET IS AT LEAST 300mm ABOVE BENCH TOP OR OTHER SPILLOVER LEVEL.
**ColorTech BT**

**WaterSaver Faucet Co.**

**Accessories and Components**

**Handles**

- **PA210DIN** Molded Nylon Handle for Water Taps and Valves  
  *Note:* Specify color when ordering

- **BA210DIN** Forged Brass Handle for Water Taps and Valves  
  *Note:* Specify color when ordering

- **PA211DIN** Molded Nylon Handle for Needle Valves and Fume Cupboard Valves  
  *Note:* Specify color when ordering

- **BA211DIN** Forged Brass Handle for Needle Valves and Fume Cupboard Valves  
  *Note:* Specify color when ordering

- **PA032** Molded Nylon Index Button  
  *Note:* Specify color and lettering when ordering

- **PA207** Molded Nylon Index Ring  
  *Note:* Specify color when ordering

- **BA044TS** 4” Wrist Blade Handle
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Laboratory Safety Equipment

- **BTEW1020** Drench Hose, Bench Mounted, Reinforced PVC Hose
- **BTEW1020BSH** Drench Hose, Bench Mounted, Braided Stainless Steel Hose

**Application:** Drench hose unit for bench mounting.

**Mounting:** Bench mounted flange with handle locator guide to position handle facing forward at all times.

**Spray Head:** Single FS-Plus™ spray head. Spray head has “flip top” dust cover, internal flow control and filter to remove impurities from the water flow.

**Valve:** Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. All valve components are readily accessible for maintenance.

**Hose:** BTEW1020 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1020BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.

**Note:** Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.

**Supply:** G1/2 female swivel-type inlet with check valve.

**Sign:** Furnished with identification sign.

**Quality Assurance:** Unit is completely assembled and water tested prior to shipment.

---

### Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>PVC Hose</th>
<th>St Steel Hose</th>
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<tbody>
<tr>
<td><strong>Hose Length</strong></td>
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<tr>
<td>1.5m (60&quot;)</td>
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<td>EWI1020BSH-1.5</td>
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<td>2.5m (96&quot;)</td>
<td>EWI1020-2.5</td>
<td>EWI1020BSH-2.5</td>
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</tbody>
</table>

### Product Finish

- **WHT** Gloss white powder coated finish
- **GRNS** Safety green powder coated finish
- **GRY** Gloss light gray powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **RED** Gloss red powder coated finish

*Note: Refer to “Product Finishes” catalog for complete information on finishes.*
Laboratory Safety Equipment

- **BTEW1020** Drench Hose, Bench Mounted, Reinforced PVC Hose
- **BTEW1020BSH** Drench Hose, Bench Mounted, Braided Stainless Steel Hose

**FS-PLUS™ SPRAY HEAD**
- FORGED BRASS SQUEEZE VALVE WITH REPLACEABLE STAINLESS STEEL SEAT

**STAINLESS STEEL SQUEEZE HANDLE WITH PLASTIC COVER**
- NYLON HANDLE
- NYLON BENCH FLANGE WITH HANDLE LOCATOR GUIDES
- FLEXIBLE HOSE

**G1/2 FEMALE SWIVEL INLET WITH CHECK VALVE**

**NOTES:**
1. FS-PLUS™ SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. PROVIDE Ø35mm (1-3/8") HOLE FOR BENCH FLANGE.
3. HOSES SHOULD BE INSPECTED AT LEAST MONTHLY FOR INDICATIONS OF WEAR, ABRASION, LOSS OF FLEXIBILITY OR LOOSENING OF END CONNECTIONS.

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
Laboratory Safety Equipment

BTEW1021 Drench Hose, 45° Panel Mounted, Reinforced PVC Hose
BTEW1021BSH Drench Hose, 45° Panel Mounted, Braided Stainless Steel Hose

Application: Drench hose unit for angle panel mounting.
Mounting: Angle holder for 45° panel mounting. Holder has handle locator guide to keep spray head and handle aligned at all times.
Spray Head Assembly: Single FS-Plus™ spray head. Spray head has “flip top” dust cover, internal flow control and filter to remove impurities from the water flow.
Valve: Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. All valve components are readily accessible for maintenance.
Hose: BTEW1021 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1021BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.
Note: Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.
Supply: G1/2 female swivel-type inlet with check valve.
Sign: Furnished with identification sign.
Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>PVC Hose</th>
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<td>EWI021-1.5</td>
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<td>EWI021BSH-2.5</td>
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</tbody>
</table>

Product Finish

- WHT Gloss white powder coated finish
- GRY Gloss light gray powder coated finish
- GRD Gloss dark gray powder coated finish
- STM Starburst metallic powder coated finish
- RED Gloss red powder coated finish
- GRNS Safety green powder coated finish
- PCL Polished chrome plated finish with clear epoxy coating
- SCC Satin chrome plated finish with clear epoxy coating
- SNC Satin nickel plated finish with clear epoxy coating

Note: Refer to “Product Finishes” catalog for complete information on finishes.
Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").

1. FS-PLUS™ SPRAY HEAD HAS A “FLIP-TOP” DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. HOSES SHOULD BE INSPECTED AT LEAST MONTHLY FOR INDICATIONS OF WEAR, ABRASION, LOSS OF FLEXIBILITY OR LOOSENING OF END CONNECTIONS.
Application: Dual purpose eyewash/drench hose unit functions as both an eyewash and a drench hose. Unit may be left in the deck flange for use as a fixed eyewash, leaving user’s hands free. Alternatively, unit may be removed for use as a drench hose to rinse any part of user’s eyes, face or body.

Mounting: Bench mounted flange with handle locator guide to position spray heads and handle facing forward at all times.

Spray Head Assembly: Two GS-Plus™ spray heads mounted side-by-side. Each head has a “flip top” dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. Locking clip engages when handle is depressed, providing “hands free” operation. Valve stays open until locking clip is released. All valve components are readily accessible for maintenance.

Hose: BTEW1022 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1022BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.

Note: Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.

Supply: G1/2 female swivel-type inlet with check valve.

Sign: Furnished with identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>PVC Hose</th>
<th>St Steel Hose</th>
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<td>EW1022-2.0</td>
<td>EW1022BSH-2.0</td>
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Product Finish

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<th>Description</th>
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<td>PCL</td>
<td>Polished chrome plated finish</td>
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<td>Satin chrome plated finish</td>
</tr>
<tr>
<td>STM</td>
<td>Starburst metallic powder coated finish</td>
</tr>
<tr>
<td>SNC</td>
<td>Satin nickel plated finish</td>
</tr>
<tr>
<td>RED</td>
<td>Gloss red powder coated finish</td>
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</table>

Note: Refer to “Product Finishes” catalog for complete information on finishes.
Laboratory Safety Equipment

BTEW1022 Eyewash/Drench Hose, Bench Mounted, Reinforced PVC Hose
BTEW1022BSH Eyewash/Drench Hose, Bench Mounted, Braided Stainless Steel Hose

NOTES:
1. EACH GS-PLUS™ SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. PROVIDE Ø35mm (1-3/8") HOLE FOR BENCH FLANGE.
3. HOSES SHOULD BE INSPECTED AT LEAST MONTHLY FOR INDICATIONS OF WEAR, ABRASION, LOSS OF FLEXIBILITY OR LOOSENING OF END CONNECTIONS.

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4").
Application: Drench hose for wall or panel mounting.

Mounting: Wall mounted hook holds unit on wall or panel.

Spray Head Assembly: Single FS-Plus™ spray head. Spray head has a “flip top” dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. All valve components are readily accessible for maintenance.

Hose: BTEW1025 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1025BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.

Note: Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.

Supply: G1/2 female swivel-type inlet with check valve.

Sign: Furnished with identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.
Laboratory Safety Equipment

- BTEW1025 Drench Hose, Wall/Panel Mounted, Reinforced PVC Hose
- BTEW1025BSH Drench Hose, Wall/Panel Mounted, Braided Stainless Steel Hose

因产品不断改进，本文件中的信息可能未经通知而更改。所有尺寸 ± 6mm (1/4")。

1. FS-PLUS™ 喷头有一个“翻盖”防尘套，内部流速控制和杂质过滤器以去除水中的杂质。
2. 软管应至少每月检查一次，以检查磨损、磨损、柔韧性丧失或末端接头松动的迹象。

Note:

1. FS-PLUS™ 喷头有一个“翻盖”防尘套，内部流速控制和杂质过滤器以去除水中的杂质。
2. 软管应至少每月检查一次，以检查磨损、磨损、柔韧性丧失或末端接头松动的迹象。

Rev. 052119

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

因产品不断改进，本文件中的信息可能未经通知而更改。所有尺寸 ± 6mm (1/4")。

Rev. 032619
Laboratory Safety Equipment

**BTEW1026** Eyewash/Drench Hose, Wall/Panel Mounted, Reinforced PVC Hose

**BTEW1026BSH** Eyewash/Drench Hose, Wall/Panel Mounted, Braided Stainless Steel Hose

**Application:** Dual purpose eyewash/drench hose unit functions as both an eyewash and a drench hose. Unit may be left in the deck flange for use as a fixed eyewash, leaving user’s hands free. Alternatively, unit may be removed for use as a drench hose to rinse any part of user’s eyes, face or body.

**Mounting:** Bracket with spring clips hold unit on wall or panel. Clips position spray heads and handle to face forward at all times.

**Spray Head Assembly:** Two GS-Plus™ spray heads mounted side-by-side. Each head has a “flip top” dust cover, internal flow control and filter to remove impurities from the water flow.

**Valve:** Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. Locking clip engages when handle is depressed, providing “hands free” operation. Valve stays open until locking clip is released. All valve components are readily accessible for maintenance.

**Hose:** BTEW1026 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1026BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.

**Note:** Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.

**Supply:** G1/2 female swivel-type inlet with check valve.

**Sign:** Furnished with identification sign.

**Quality Assurance:** Unit is completely assembled and water tested prior to shipment.

### Ordering Information

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<th>Options</th>
<th>PVC Hose</th>
<th>St Steel Hose</th>
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<tr>
<td>2.5m (96&quot;) hose length</td>
<td>EW1026-2.5</td>
<td>EW1026BSH-2.5</td>
</tr>
</tbody>
</table>

**Product Finish**

- **WHT** Gloss white powder coated finish
- **GRNS** Safety green powder coated finish
- **GRY** Gloss light gray powder coated finish
- **PCL** Polished chrome plated finish with clear epoxy coating
- **GRD** Gloss dark gray powder coated finish
- **SCC** Satin chrome plated finish with clear epoxy coating
- **STM** Starburst metallic powder coated finish
- **SNC** Satin nickel plated finish with clear epoxy coating
- **RED** Gloss red powder coated finish

**Note:** Refer to “Product Finishes” catalog for complete information on finishes.
Laboratory Safety Equipment

□ BTEW1026 Eyewash/Drench Hose, Wall/Panel Mounted, Reinforced PVC Hose
□ BTEW1026BSH Eyewash/Drench Hose, Wall/Panel Mounted, Braided Stainless Steel Hose

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 6mm (1/4”).

1. EACH GS-PLUS™ SPRAY HEAD HAS A “FLIP-TOP” DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. HOSES SHOULD BE INSPECTED AT LEAST MONTHLY FOR INDICATIONS OF WEAR, ABRASION, LOSS OF FLEXIBILITY OR LOOSENING OF END CONNECTIONS.

Rev. 052119

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Rev. 032619
Application: Dual purpose eyewash/drench hose unit functions as both an eyewash and a drench hose. Unit may be left in the angle holder for use as a fixed eyewash, leaving user's hands free. Alternatively, unit may be removed for use as a drench hose to rinse any part of the user's eyes, face or body.

Mounting: Angle holder for 45° panel mounting. Holder has handle locator guide to keep spray heads and handle aligned at all times.

Spray Head: Two GS-Plus™ spray heads mounted side-by-side. Each head has a "flip top" dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: Forged brass squeeze valve activated by stainless steel lever handle. Valve has replaceable stainless steel seat for exceptional durability. Locking clip engages when handle is depressed, providing "hands free" operation. Valve stays open until locking clip is released. All valve components are readily accessible for maintenance.

Hose: BTEW1041 is furnished with a reinforced PVC hose. Hose has PVC core, polyester braid and PVC outer cover. BTEW1041BSH is furnished with a braided stainless steel hose with silicone inner core. Hoses have 20 bar (290 PSI) maximum working pressure.

Note: Hoses should be inspected at least monthly for indications of wear, abrasion, loss of flexibility or loosening of end connections.

Supply: G1/2 female swivel-type inlet with check valve.

Sign: Furnished with identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Ordering Information

<table>
<thead>
<tr>
<th>Options</th>
<th>PVC Hose</th>
<th>St Steel Hose</th>
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</thead>
<tbody>
<tr>
<td>Hose Length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5m (60&quot;) hose length</td>
<td>EW1041-1 5</td>
<td>EW1041BSH-1 5</td>
</tr>
<tr>
<td>2.0m (79&quot;) hose length</td>
<td>EW1041-2 0</td>
<td>EW1041BSH-2 0</td>
</tr>
<tr>
<td>2.5m (96&quot;) hose length</td>
<td>EW1041-2 5</td>
<td>EW1041BSH-2 5</td>
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</tbody>
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Product Finish

- WHT   Gloss white powder coated finish
- GRN   Safety green powder coated finish
- GRY   Gloss light gray powder coated finish
- PCL   Polished chrome plated finish with clear epoxy coating
- GRD   Gloss dark gray powder coated finish
- SCC   Satin chrome plated finish with clear epoxy coating
- STM   Starburst metallic powder coated finish
- SNC   Satin nickel plated finish with clear epoxy coating
- RED   Gloss red powder coated finish

Note: Refer to “Product Finishes” catalog for complete information on finishes.
Laboratory Safety Equipment

BTEW1041 Eyewash/Drench Hose, 45° Panel Mounted, Reinforced PVC Hose
BTEW1041BSH Eyewash/Drench Hose, 45° Panel Mounted, Braided Stainless Steel Hose

NOTES:
1. GS-PLUS™ SPRAY HEAD HAS A “FLIP-TOP” DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. PROVIDE SUFFICIENT ROOM BEHIND WALL OR PANEL FOR STORING HOSE WHEN UNIT IS NOT IN USE.
3. HOSES SHOULD BE INSPECTED AT LEAST MONTHLY FOR INDICATIONS OF WEAR, ABRASION, LOSS OF FLEXIBILITY OR LOOSENING OF END CONNECTIONS.

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