Globe is proud to introduce the new Model RCW Water Control Valve for dry pipe, preaction and deluge applications.

It is uniquely engineered to minimize many of the field issues historically seen with hydraulically operated differential-style valves. All system types use one common valve body — and its lighter weight and smaller size make it easier and faster to install.

1 VALVE
10 TRIM CONFIGURATIONS

- One valve comes in 10 different cULus-Listed/FM-Approved trim configurations, lowering your inventory costs.
- The 4" and 6" RCW is lighter than any other manufacturer’s valve currently on the market. In each trim configuration, it is lighter than other makers’ versions.
- The RCW has the shortest end-to-end dimensions of any water control valve on the market.
- Double-seat design means no additional check valve is needed for preaction systems.
- Single-bolt clapper seal replacement, easy access to hinge pin and minimal bolts for handhole cover removal make the RCW easier to maintain and inspect.
- Diaphragm-to-clapper latching mechanism uses our unique, patent-pending “roller arm” design, offering lower friction loss and ensuring dependable performance unimpeded by corrosion or debris.
The Globe RCW Water Control Valve — and each of its trim options — have been engineered to meet the most important needs of both the installer and end user.

**INSTALLATION**

As an installer, you need only stock one valve for a variety of different system configurations. The RCW’s compact design makes it lighter and shorter in size than any other comparable valve on the market. This makes installation easier and, often, faster. The completed assembly takes up a smaller footprint in the building. The RCW’s double-seat design means no additional check valve is required. And you are backed by Globe’s renowned customer service and technical support every step of the way.

**OPERATION**

The RCW is designed to perform. Its diaphragm-to-clapper mechanism is a unique new design featuring a low-friction roller arm. It uses a positive action spring force to assist movement of the diaphragm away from the clapper when diaphragm chamber water pressure is evacuated. Coupled with the minimal movement of the roller assembly, this results in faster operation on pressure drop and more dependable operation. The robust design allows for free movement of the lever arm assembly, even if debris or corrosion are present.

The RCW is a differential latching valve with a convenient external reset knob. Internal inspections and maintenance are easier, thanks to unique features such as one-bolt clapper seal replacement and easy handhole cover removal. And color-coded handles make it easy to identify, at a glance, if trim valves are in their proper positions.
The Globe RCW Valve is available pre-trimmed or loose-trimmed in the following system configurations:

**Dry System**
- Available with Standard or Low Pressure Actuator
- Optional Accelerator

**Deluge System**
- Electric Actuation
- Dry Pilot Actuation
- Wet Pilot Actuation

**Single Interlock Preaction System**
- Electric Actuation
- Dry Pilot Actuation
- Wet Pilot Actuation

**Double Interlock Preaction System**
- Electric/Electric Actuation
- Electric/Pneumatic Actuation
  - Available with Standard or Low Pressure Actuator

**Non Interlock Preaction System**
Dry pipe sprinkler systems are typically used in unheated areas and other locations exposed to freezing temperatures, where water-filled pipe cannot be used. When set for service, a dry pipe sprinkler system incorporating automatic sprinklers (closed) is pressurized with air or nitrogen. In response to heat from a fire, an operated automatic sprinkler causes a loss of air pressure and permits the dry pipe valve to open. This allows a flow of water into the sprinkler system piping.

Dry systems are used in any unheated portion of a building:
- Warehouses
- Loading Docks
- Unheated Attic Spaces
- Shipping Platforms
- Cold Storage
- Parking Garages
- Outdoor Piers
- Unheated Attic Spaces

Robert C. Worthington was a pioneer in fire sprinkler system engineering, with a long and successful career before he purchased Globe in 1988. Mr. Worthington made a commitment to producing a high-quality product in the U.S. This valve is named in honor of his spirit of innovation and his lifelong dedication to saving lives and protecting property from fire.
**DELUGE SYSTEMS**

Deluge systems are used for special hazards where there are easily ignitable and fast-burning substances which promote rapid fire development. They are typically used for fire extinguishment, fire control or exposure protection in applications such as:

- With materials having high rates of heat release
- Conveyors
- Water Curtains
- Fuel Storage Tanks
- Electrical Transformers
- Aircraft Hangars
- Chemical Plants

**SINGLE INTERLOCK PREACTION SYSTEMS**

Single interlock preaction systems are used in any portion of a building where it is undesirable to have water-filled pipes over the hazard being protected. Such systems typically employ air or nitrogen under pressure, with a supplemental detection system installed in the same area as the sprinkler system.

These valves are activated by a single event, an electrical detector activation, an activation of a pilot sprinkler connected to pilot lines under air pressure (dry pilot), or an activation of a pilot sprinkler connected to pilot lines under water pressure (wet pilot). They are commonly used in:

- Computer Rooms
- Libraries
- Archives
- Document Storage Centers
Double interlock preaction systems are used in any portion of a building where flooding or inadvertent discharge of water would be especially damaging. These valves are activated by two separate events: an electric activation plus a sprinkler activation.

In the case of **Electric/Pneumatic Actuation**, a detector activation sends an electrical signal to the release panel, opening a solenoid valve. This event would typically be followed by a sprinkler activation, releasing air pressure in the sprinkler piping, allowing the pneumatic actuator to open, and tripping the RCW valve.

In the case of **Electric/Electric Actuation**, a detector activation will send the first electrical signal to the release panel. The activation of a sprinkler will allow air pressure in the sprinkler piping to escape, activating a low air pressure switch. This sends a second signal to the release panel, which opens the solenoid valve, tripping the RCW valve. They are commonly used in applications such as:

- Freezers
- Valuable Archives
- Critical Document Storage

The simplicity and versatility of the Globe RCW make it an excellent choice for every application. With it, it’s truly “one and done.”

To learn more about the Globe RCW Water Control Valve, contact your local Globe territory manager, contact our customer service team at **(989) 846-4583** or visit **globesprinkler.com/RCW**.
Approvals:
cULus and FM

Maximum System Working Pressure:
300 psi (20.6 bar)

Materials of Bonstruction:
See Table Below

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**TECHNICAL SPECIFICATIONS**

**Models RCW Cross-Section**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>“RCW-2” Body (groove/groove)</td>
<td>Ductile Iron</td>
</tr>
<tr>
<td>2</td>
<td>Seat Ring</td>
<td>Bronze</td>
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<tr>
<td>3</td>
<td>Clapper</td>
<td>Bronze</td>
</tr>
<tr>
<td>4</td>
<td>Retaining Ring</td>
<td>Stainless</td>
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<tr>
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<td>Retaining Bolt</td>
<td>Steel</td>
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<tr>
<td>6</td>
<td>Clapper Facing Disc</td>
<td>EPDM</td>
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<td>7</td>
<td>Latch Arm</td>
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<td>8</td>
<td>Clapper Latch</td>
<td>Bronze</td>
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<tr>
<td>9</td>
<td>Reset Plunger</td>
<td>Bronze</td>
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<td>Push Rod</td>
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<td>11</td>
<td>Roller</td>
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<td>Diaphragm Retainer</td>
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<td>Diaphragm</td>
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<td>Diaphragm Cover</td>
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<td>Handhole Cover Gasket</td>
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<td>Diaphragm Spring</td>
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<td>Cover Bolt</td>
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<td>Roller Arm Hinge Pin Clip</td>
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<td>25</td>
<td>Reset Plunger Knob</td>
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<td>26</td>
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<td>Reset Plunger Spring</td>
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<td>1/2” NPT Plug</td>
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<tr>
<td>33</td>
<td>Clapper Latch Bushing</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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**Take out dimensions (end to end):**

- 4” (DN100) Valve 13.13” (333,5 mm)
- 4” (DN100) Valve w/ Model GLR300G 17.66” (448,5 mm)
- 6” (DN150) Valve 14.47” (367,5 mm)
- 6” (DN150) Valve w/ Model GLR300G 19.69” (500 mm)