

How to Replace Frost Plug on Rural Water Tank Restrictors

Restrictor Unit

Both the frost plug and filter are supplied at no charge by the Council, but the consumer is responsible for their maintenance and replacement. Please note that the frost plug **must** be installed from the **inside** of the face as shown in the diagram

FILTER

Designed to prevent fine sediment and extraneous matter from entering the consumers tank. The filter also provides the seal between the restrictor body and face plate.

FACE PLATE

Threaded plate retaining the frost plug and compressing the filter to effect a seal.

FROST PLUG

Designed to pop out at times of freezing to prevent damage to the restrictor unit.

Sealing surfaces of the filter. Replace the filter if these surfaces or the mesh are damaged. If filter is blocked, reverse flush with water.

Restricted supply into ballcock.

BODY

Contains the jet which regulates the volume of water able to be supplied into the tank. Please note that tampering with the jet unit to illegally obtain more water will result in prosecution.

JET

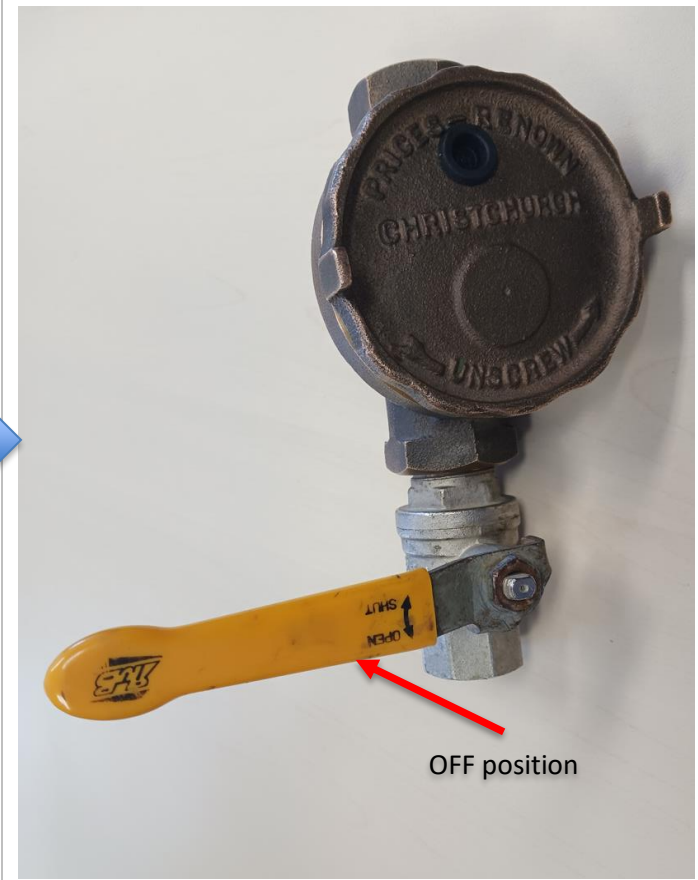
Illustrated is the marac pressure compensating type jet unit. This is held in place by a tamper evident locked retaining nut.

Ball type isolating valve installed upstream of restrictor. It allows the supply to the tank to be isolated when repairs are required to the restrictor or ballcock.

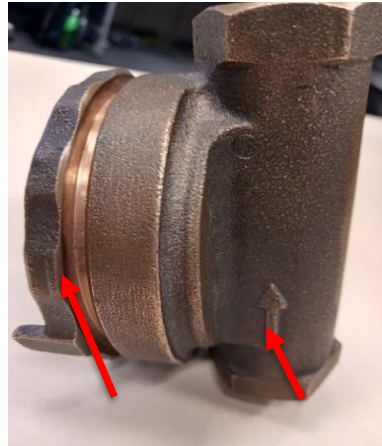
Non restricted supply direct from mains.

Process:

1. Turn OFF water supply carefully at the ball valve located below the restrictor

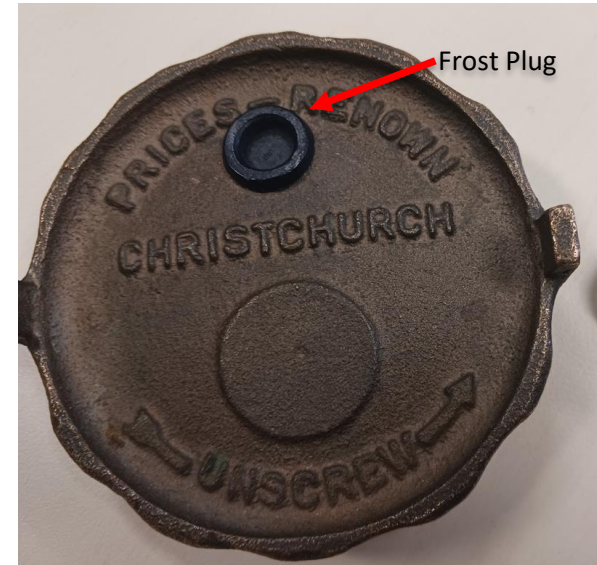


2. Remove the restrictor faceplate by unscrewing in an anti-clockwise direction.



Faceplate

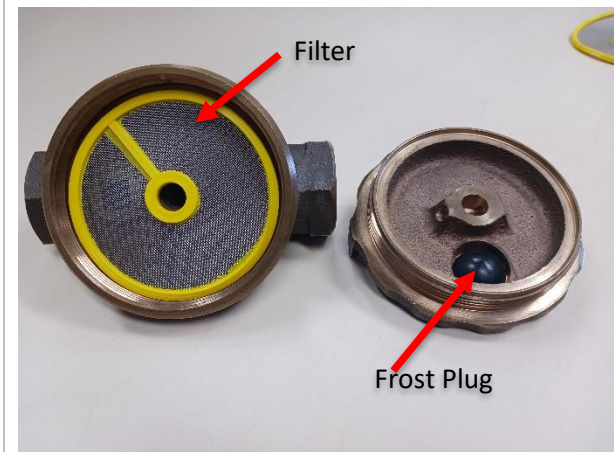
Mains flow
direction



Note 1: Once the restrictor faceplate has been removed, the photo to the right shows the placement of the filter and frost plug.

Note 2: The round or domed shape part of the frost plug is on the **inside** of the faceplate.

Note 3: Cleanliness of the filter

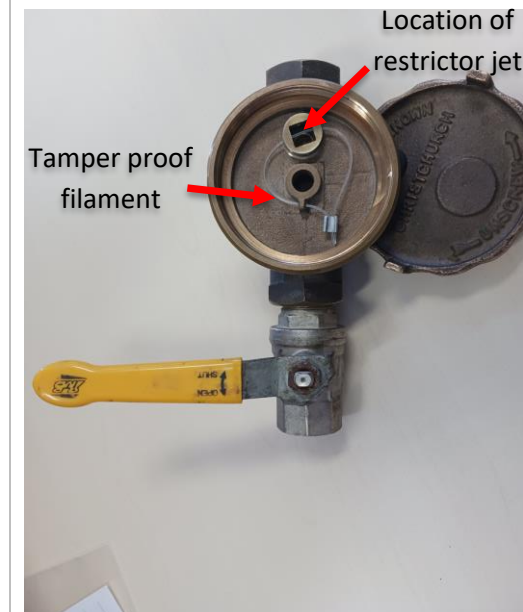


3. Remove the filter and wash thoroughly with clean water to remove any solids.

Note 1: Checking and cleaning of the filter should be done every 6 months.
Note 2: If damaged, it must be replaced. These are available without charge from the Timaru District Council.
Note 3: When you remove the filter you will see a tamperproof filament (photo on the right)

Note: When you remove the filter you will see a tamper proof filament (photo on the right). This contains the restrictor jet that controls the scheme flow. If this has been damaged/removed please contact the Timaru District Council.

The purpose of the filter is to prevent fine sediment and extraneous matter from entering the water storage tank. These filters also provide a seal between the restrictor body and faceplate, so it is important to clean and/or replace if there are any signs of damage.



4. With the **inside** of the face plate pointing towards you, replace frost plug by pushing the small end of the new plug through the hole in first so the rounded/domed shape part of the plug is facing upwards towards you.

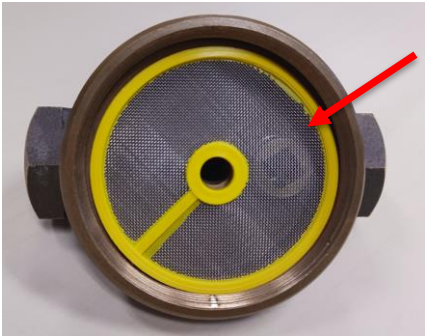
Note 1: The frost plug **MUST** be installed from the inside of the face plate.

Note 2: The purpose of the frost plug is to prevent damage to pipes when the water freezes inside them. This means the frost plug must be seated tightly into the hole in the face plate. This in turn can make insertion of the plug a tricky exercise. Many plumbers will use a screwdriver to help lever the plug into position. However, care must be taken not to damage the plug when using this tip.

Immersing the frost plug into some warm water can also help soften it up a little to aid this process.

Note 3: Photo on the right shows the replacement frost plug in place (Note the dome shaped end facing inwards)



5. Refit clean/new filter	Refit the filter into the restrictor	 New/Clean filter in place
6. Put faceplate back onto restrictor.		
	Screw the face plate back on in a clockwise direction. Hand tighten, then pinch up tight with a screwdriver or metal bar as the seal must be reasonably tight.	

7. Turn water back on	Turn the ball valve back to the vertical position (ON position) slowly.
8. Check for leaks	If there is leaking, the following are possible causes which need to be checked: 1. Frost plug not in correctly 2. Frost plug damaged 3. Filter damaged 4. Face plate has not been put on tight enough so not achieving a good seal.