

Mainline Top-Check Drainage System Pressure Testing

Hydrostatic Full System Test (2-Storey) (use kit 3):

For this test remove the chain off the test ball and use the Mainline downstream strainer which will allow the system to drain while stopping the test ball from going down the system. Air fill hose used with Mainline cleanout plug & seal allows inflating and deflating of the test ball externally while the valve is sealed. Once test ball air is released the water fills the valve body and is drained through the downstream strainer. The cleanout plug & seal contains the water within the valve and keeps the contractor/work area dry.

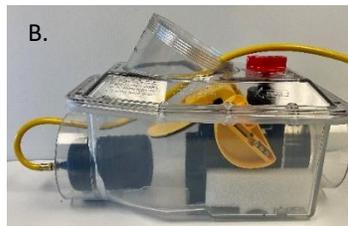
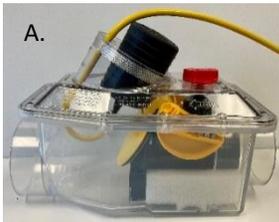
Air Test, Rim Test & Hydrostatic Groundwork Test (3-5 ft max) (use kit 1, 2 or 3):

For this test the chain may be used if not using the downstream strainer. The handle on the chain is larger than the valve cleanout therefore it will act as a stop upon pressure release.

Instructions for Air Testing & Rim-Test & Hydrostatic Groundwork Testing (3-5 ft max) & Hydrostatic Testing (2-storey)

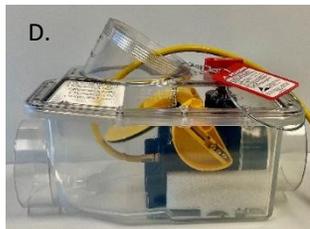
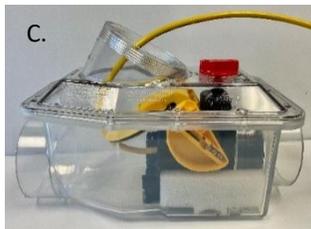
Step 1 (for all tests):

- Move valve gate out of the way (closed position) by pushing it down
- Insert test ball (hose first through cleanout – image A.)
- Slide test ball into valve outlet to clear past the gate (image B.)



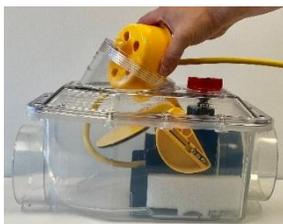
Step 2 (for all tests):

- Return gate to the open position
- Slide test ball under the gate and into the inlet side of the valve (image C.)
- Test ball chain may be used for air testing & groundwork testing if not using Mainline strainer (image D.)



Step 2B: (For Hydrostatic Testing (2-storey) – otherwise proceed to Step 3)

Squeeze downstream strainer and place through valve cleanout and fit into the outlet port of valve (strainer press fits into the outlet – ensure it is inserted up to the stop flange)



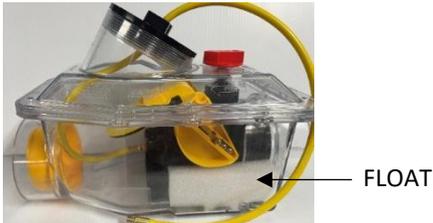
Step 3:

- Ensure test ball is in position – inflate test ball

At this stage you may perform an air test, rim test or hydrostatic groundwork test (3-5 ft max)

Step 3B: **(For Hydrostatic Testing (2-storey) – otherwise proceed to Step 4)**

- Feed air hose through Mainline cleanout seal and install cleanout into valve (system is now ready for testing)



Step 4:

- Once pressure test is complete you can drain the system by releasing air from the air hose
- Test ball will move forward and remain under the gate allowing system to drain
- Once system is drained release remaining air in test ball to bring it back to original size
- *If strainer used, slide test ball back into the inlet side of the valve and remove downstream strainer from the valve*
- Slide test ball back into the valve outlet and remove through valve cleanout
- **IMPORTANT:** ensure gate hinges are fully snapped in and gate moves freely. Upon release floats may turn upright and be required to set back into place horizontally by taking valve apart.

Testing Kits:

Kit 1:



- Test ball with chain
- Fill hose

Can be used for air testing, rim test & hydrostatic groundwork testing (3-5 ft max)

Kit 2:



- Test ball with chain removed
- Fill hose
- Mainline downstream strainer

Can be used for air testing, rim test & hydrostatic groundwork testing (3-5 ft max)

Kit 3:



- Test ball with chain removed
- Fill hose
- Mainline downstream strainer
- Mainline cleanout plug with seal

Can be used for air testing, rim test hydrostatic groundwork testing (3-5 ft max) & hydrostatic testing (2-storey)

Testing Kit Part Number: **ML-TCTESTKIT** (includes downstream strainer and cleanout plug with seal) may be used with other Mainline Valves

Cherne Fill Hose Extension Part Number: **27403**

Testing Videos

Downstream Strainer Method:

<https://www.youtube.com/watch?v=50fpKNK3Mj0>

Standard Test Method:

<https://www.youtube.com/watch?v=bnBZC7ewm2A&t=4s>

FOR MORE INFORMATION, PLEASE VISIT WWW.BACKWATERVALVE.COM OR CALL **1-877-734-8691**

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