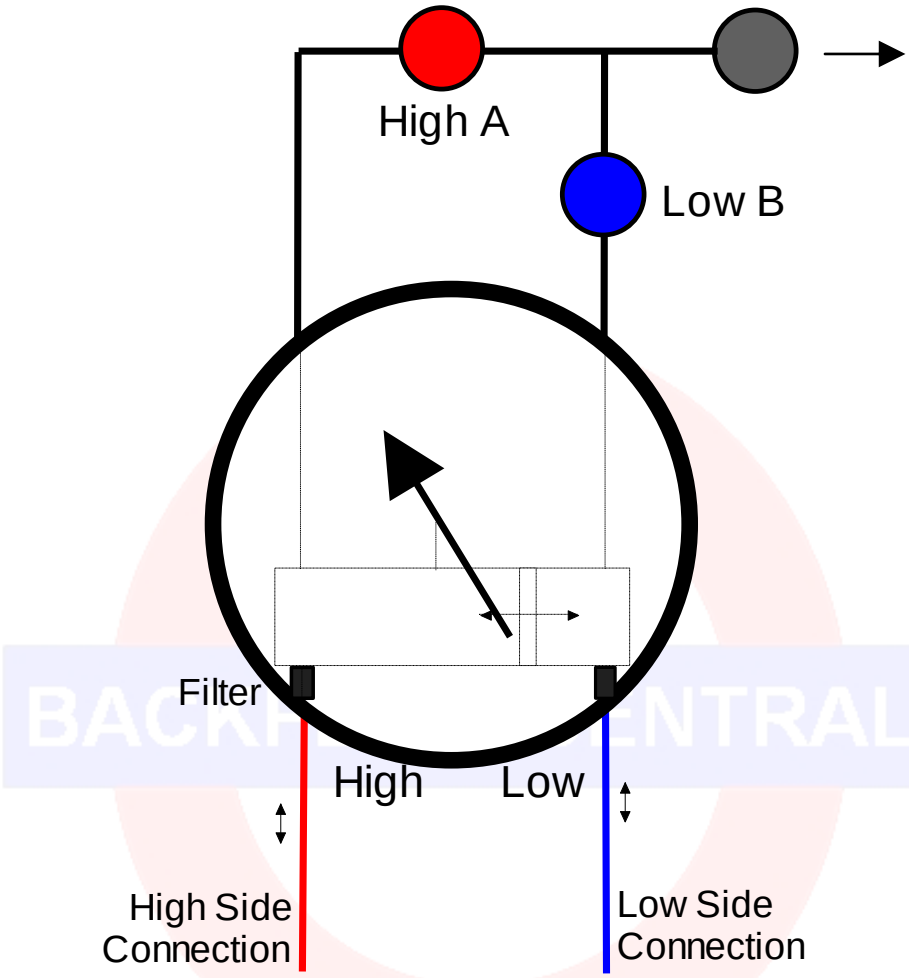
# BACKFLOW CENTRAL

## 1. Backflow Test Gauge – 3 Valve




***Helpful tips to care for your gauge***

- Clean line filters regularly
- Disconnect hoses from your gauge and empty water after each test
- Always store and carry your gauge in its protective carry case
- Have your gauge tested annually at Backflow Central
- Use in conjunction with the Backflow Central test report book

***Specifications***

- Differential pressure accuracy +/- 1.33kpa (Descending)
- Working pressure: 1300kpa
- Maximum temperature: 65°C

***Hoses***

Please note that hose colours and lengths may vary according to model supplied and hose availability at the time of purchase.

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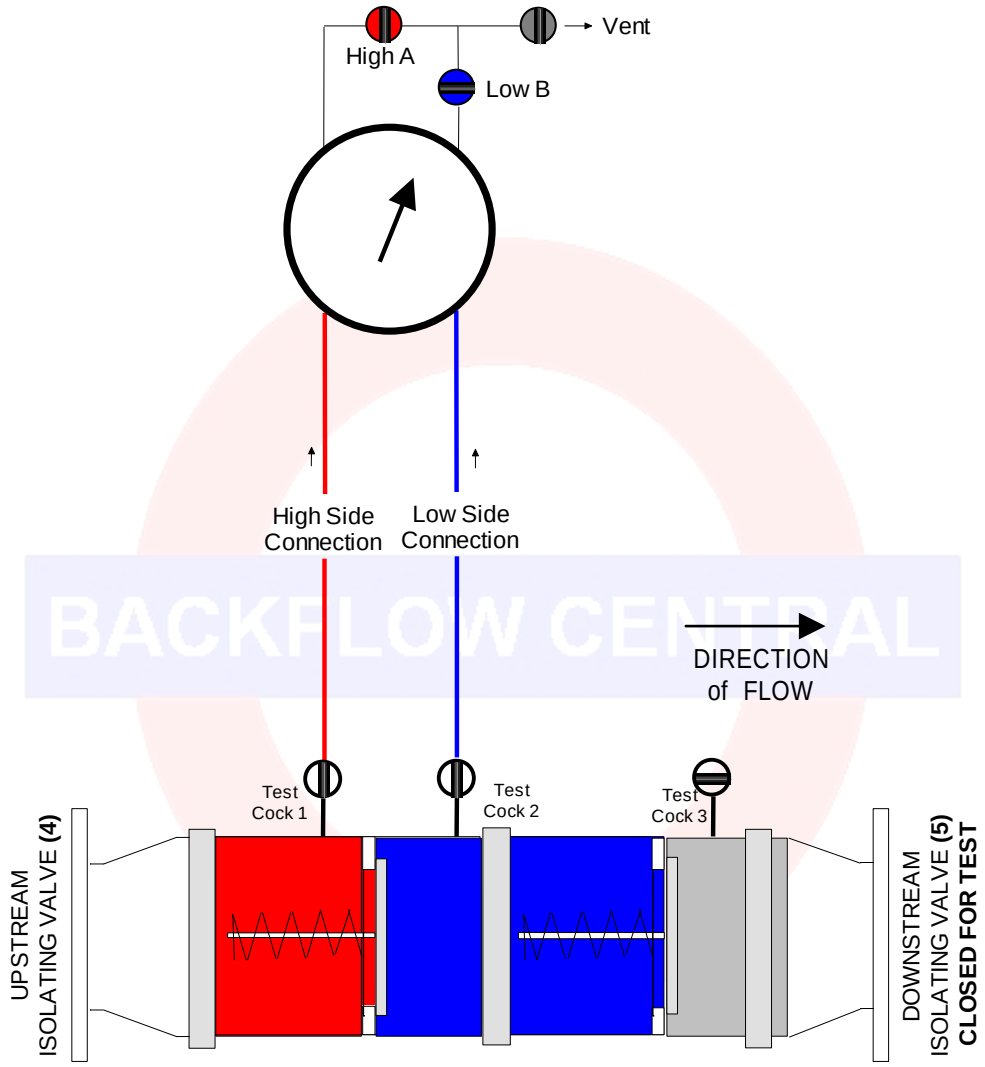
# BACKFLOW CENTRAL

## 2. Typical RPZ and DCV 1st Check Valve Test:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test. Use test cock 1 and 2.**
2. **Open vent and open High, close off and open Low, close off. Bleed all air from the system.**
3. **Slowly close , then Low. Record all readings.**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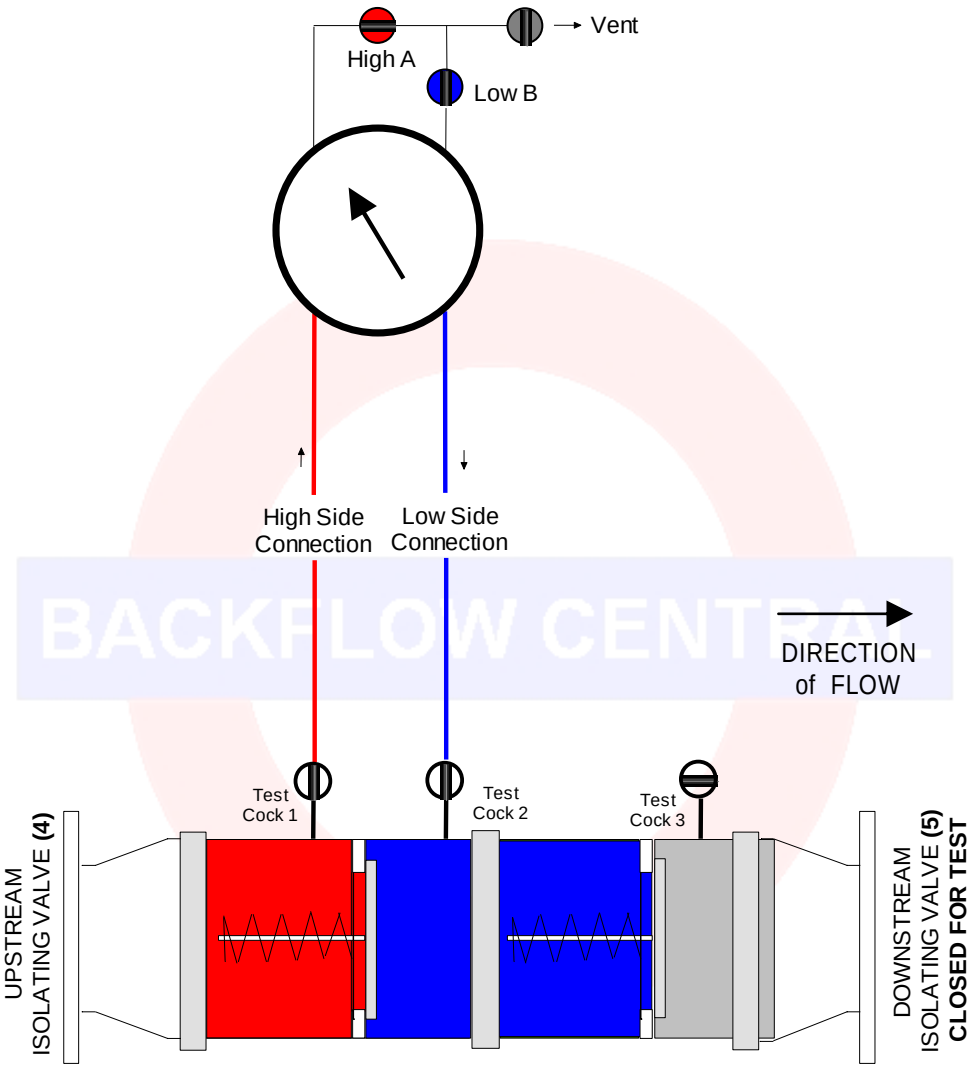
Denotes closed valve

Denotes open valve

# BACKFLOW CENTRAL

## 3. Typical RPZ Relief Valve Test:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test.**
2. **Test as per 1st check valve test. Test cock 1 and 2 should be open. High A, Low B and bypass should be shut off.**
3. **Open High A.**
4. **Slowly open Low B.**
   **This will allow high pressure water through the gauge into the blue middle chamber, equalizing pressure across the 1st check allowing the relief valve to open.**
5. **Record pressure at which point the relief valve opens.**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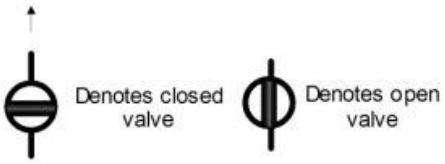
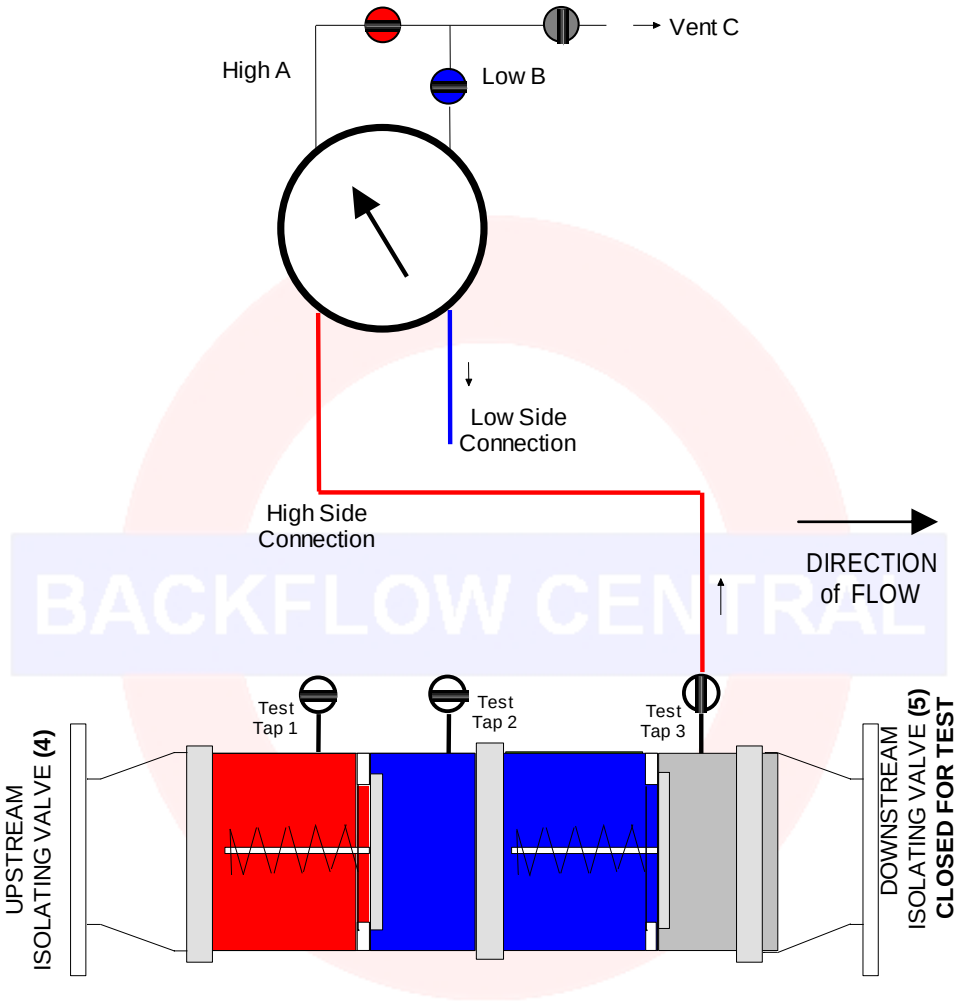


# BACKFLOW CENTRAL

## 4. Typical Upstream & Downstream Isolation Valve Test:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test. Use test cock 3.**
2. **Open test tap 3. Vent through High Side Connection, High A and Vent C.**
3. **Close Vent C first, and then Upstream Isolating Valve 4.**
4. **The gauge will have a high reading.**
5. **Open Low B, and vent pressure through Low Side Connection so that gauge drops 20kpa.**
6. **Close Low B.**
7. **If pressure on gauge rises, either Upstream Isolating Valve 4 or Downstream Isolating Valve 5 is leaking.**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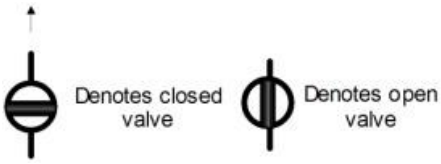
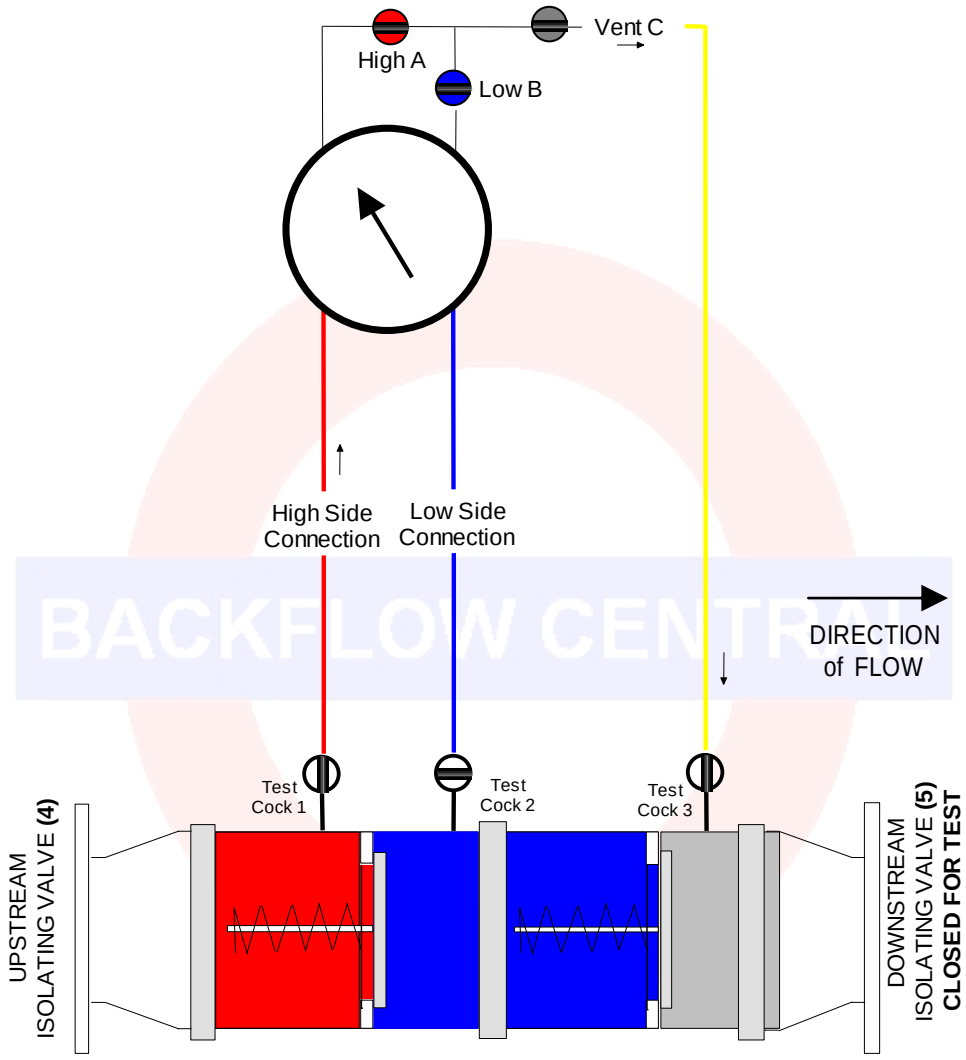


# BACKFLOW CENTRAL

## 5. Typical RPZ 2nd Check Valve Test:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test.**
2. **Test as per first check valve test, then:-**
3. **Close Test Tap 2, trapping pressure in the right side of the gauge.**
4. **Open High. Open Test Cock 3. Open Bypass Hose Connection, slowly filling grey downstream side of valve.**
5. **If relief valve opens, then 2nd check is leaking into the middle chamber. If so, the check valve fails the test.**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Denotes closed valve

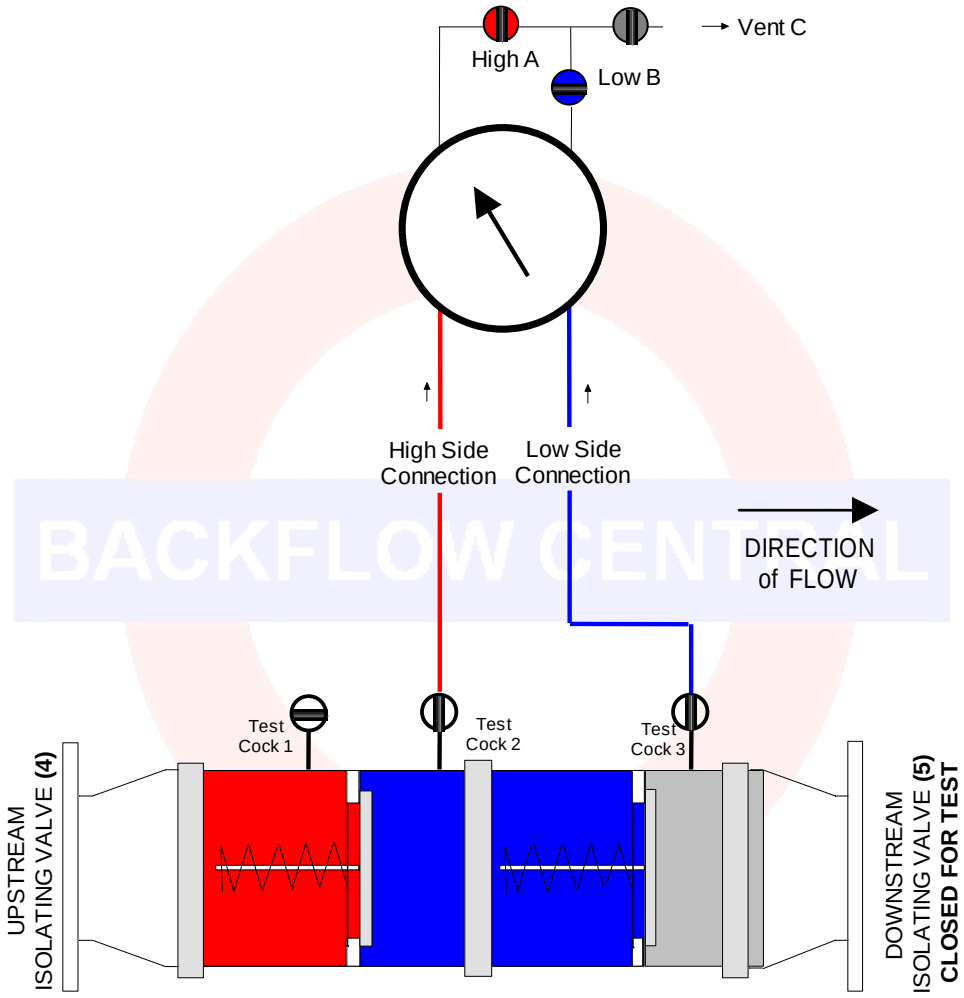
Denotes open valve

# BACKFLOW CENTRAL

## 6. Typical DCV and RPZ 2nd Check Valve Test:

**(Note: RPZ test is non-standard, but obtains a pressure reading)**

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test. Use test cock 2 and 3.**
2. **High A, Low B and Bypass should be shut off. Leave off during this test.**
3. **Open Vent C. Vent all air from the system.**
4. **Slowly close High A and Low B. Record readings.**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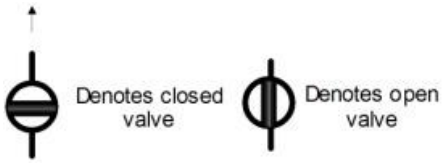
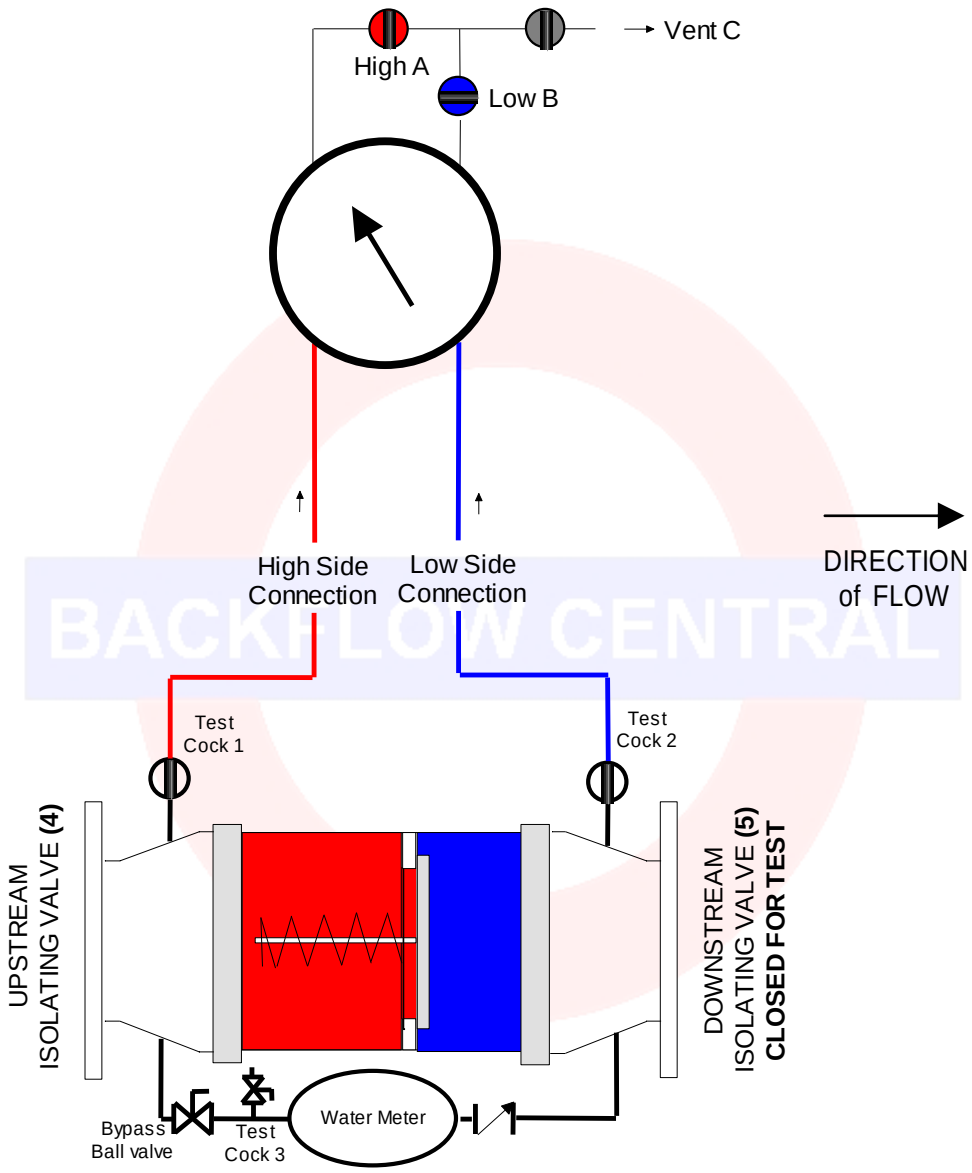


# BACKFLOW CENTRAL

## 7. Typical Single Check Valve:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Connect gauge to valve as shown, and as per standard AS2845 test. Use test cock 1 and 2.**
2. **Turn off Bypass Ball Valve.**
3. **Open Test Cock 1, High A and Vent C. Open Test Cock 2 and Low B.**
4. **Slowly close High A and Low B. Record readings.**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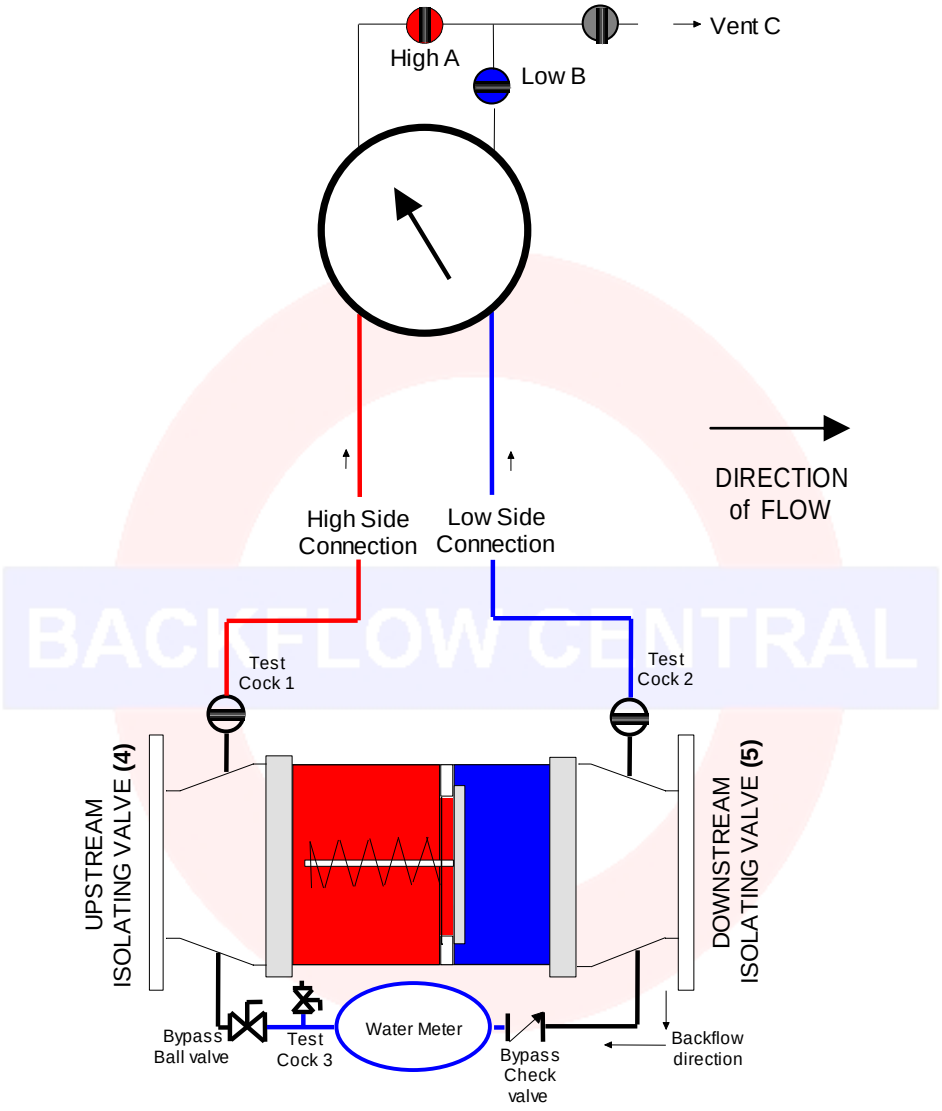
Denotes open valve

# BACKFLOW CENTRAL

## 8. Typical Single Check Valve Metered Bypass Test:

Using BACKFLOW CENTRAL 3 VALVE GAUGE




1. **Turn off test cocks 1 and 2.**
2. **Water meter bypass ball valve should be turned off for the duration of this test.**
3. **Open Test Cock 3. Initial system pressure in metering area bypass network will vent.**
4. **Once system pressure has vented, there should be no more leakage through Test Cock 3.**
5. **If there is any further leakage through Test Cock 3, the water is passing in backflow direction through bypass check valve, resulting in a FAIL.**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