HRZ Valve Filter Regulator Troubleshooting

HRZ · https://husqvarna-water.com/knowledgebase/hrz-valve-filter-regulator-troubleshooting/

In the rare case that your Hydro-Rain 3-in-1 Micro Irrigation Valve does not operate as intended, attempt the following solutions:

The valve will not open electrically

First, run the valve manually by opening the manual bleed lever (turn counter-clockwise). Close the manual bleed lever when the manual test is complete.

The valve is incorrectly installed.

Make sure that the arrows are in the direction of water flow.

Wiring is incorrect

Make sure that the arrows are in the direction of water flow. Check wiring at the valve and the controller with the instructions. Check to see that the controller is working correctly.

There is debris in the porthole.

Turn off water. Remove the solenoid. Push a wire or large paper clip down through the round porthole working it up and down to free any debris. Be sure the plunger and o-ring are in place when reassembling.

Defective solenoid

Turn off water. Unscrew the solenoid and replace it with one from a working valve. If the valve works, replace the solenoid. Be sure the plunger and o-ring are in place when reassembling.

The solenoid plunger is stuck.

Turn off water. Remove the solenoid and clean out sand and debris. Be sure the plunger and o-ring are in place when reassembling.

The valve will not close.

The valve is installed incorrectly.

Make sure that the arrows are in the direction of water flow

The solenoid plunger is stuck

Turn off water. Remove the solenoid and clean out sand and debris. Be sure the plunger and o-ring are in place when reassembling.

Rock or debris is in-between the washer and the valve seat

Turn off water. Remove valve lid and diaphragm assembly and clean the interior of the valve.

Diaphragm has ruptured

Turn off water. Remove the lid and inspect the diaphragm for tears. Replace the diaphragm assembly if torn.

External valve leaks

PVC fittings going to valve installed incorrectly

Use thread seal tape generously on threads and tighten firmly. Do not overtighten.

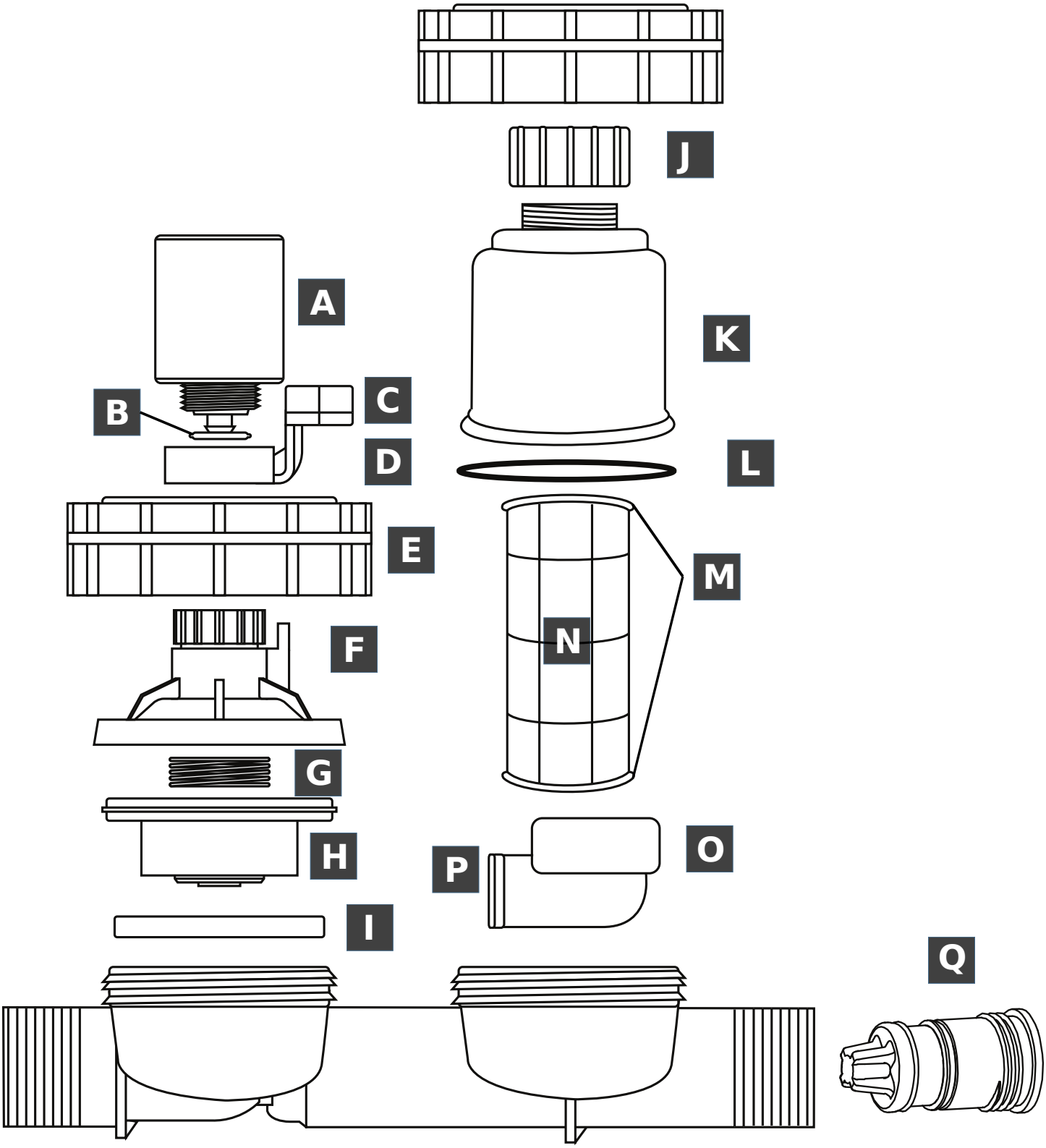
The pressure is too high.

Install a pressure regulator upstream of the valve and set it at about 80 PSI (5.5 bars).

Leaking below solenoid

Turn off water. Tighten solenoid.

Parts Listing



Letter	Description

A	Solenoid
B	Solenoid Plunger
C	Bleed Lever
D	Solenoid Adapter O-ring (Not Illustrated)
E	Jar-top Ring
F	Valve Lid with Solenoid Adapter installed
G	Spring
H	Diaphragm Assembly
I	Diaphragm Support Ring
J	Flush Cap
K	Filter Housing
L	Filter Housing O-ring
M	Filter O-rings (one on each end)
N	Filter
O	Filter Reciever
P	Filter Reciever O-ring
Q	30 PSI Pressure Regulator Assembly