

“G+ Series” Hydraulic Suction Scanning Screen Filter The High Performance Standard

1. Record the pressure reading at inlet connection K1. If the pressure is below 35psi, this is your problem.

Solution

Increase system pressure by:

- a. Choking the outlet of the filter.
- b. Ramping up pump.
- c. Replacing pressure gauge if it is defective.

2. Record the pressure reading at inlet connection K1 during backwash (flush valve open). If the pressure is below 35 psi, this is your problem.

Solution

Increase system pressure by:

- a. Choking the outlet of the filter.
- b. Ramping up pump.
- c. Replacing pressure gauge if it is defective.

3. Record the pressure reading at flush outlet connection K3 during backwash. If no pressure gauge is installed on K3, add a tee connection to install gauge. If the pressure does not read 0 psi during backwash, this is your problem.

Solution

- a. Re-pipe the flush line to prevent back-pressure. Remove elbows, elevation gain, and oversize the pipe.
- b. Flush directly to a nearby tank.
- c. Increase flush valve size from 1” to 2”.

4. Inspect mini-filter located on the piston tubing line. If the mini-filter is clogged, this is your problem.

Solution

- a. Wash the mini-filter.

5. Inspect the hydraulic piston (8). Verify that the rod can smoothly move back and forth, and that the pin moves the entire length of the slot.

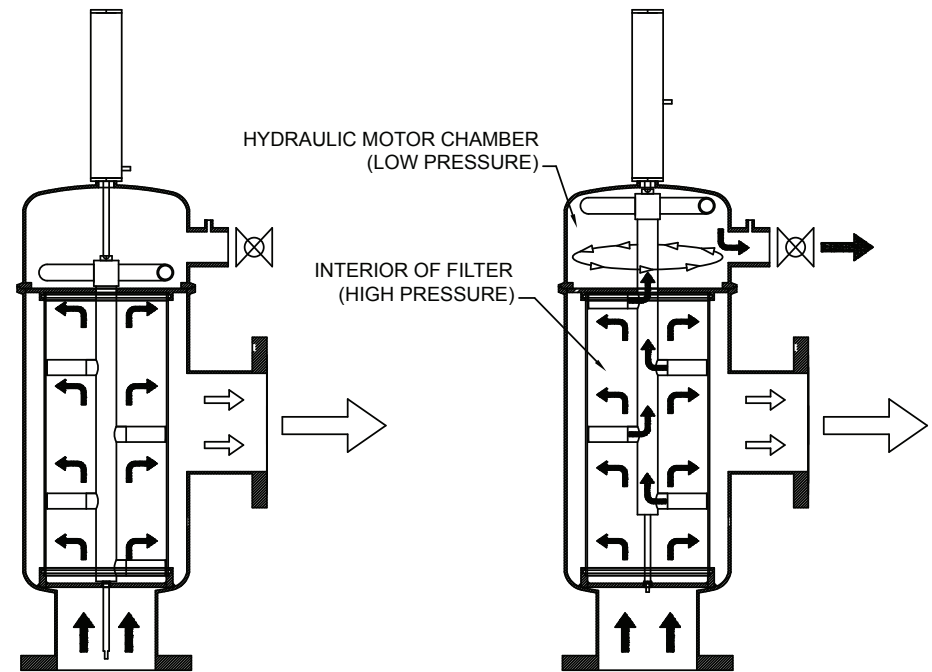
Solution

- a. Open the brass hex caps and inspect the rubber seals for wear. They may need to be replaced.
- b. Check that the brass hex cap (8.15) has a small hole through it to allow water to flow out of the piston. If this orifice is obstructed, remove debris.

6. Inspect the internal components for smooth operation. If the particle remover is jammed, this is your problem.

Solution

- a. Bypass the filter and relieve pressure. Open the connection clamp, and remove the top section of the filter. The particle remover should rotate freely inside the center of the plate.
- b. Remove the plate and inspect the particle remover. The rod should be inserted into the bearing near the inlet of the filter. There should be clearance between the suction nozzles and the screen.
- c. Check for any severe damage or wear on any of the components.



NORMAL OPERATION

Debris is trapped as water passes through the inlet and across the fine screen. Clean water exits through the oulet of the filter.

BACKWASH CYCLE

The flush valve opens and lowers the pressure in the top section. This causes the particle remover to vacuum the inside of the screen, expelling debris through the flush outlet.