

Watch Out for Dents on Liquid Filters!



Once the steel filter canister is dented, a concentration of stress in the canister material is created, making the canister more susceptible to fatigue.

Dents May Cause Cracks

Cracked filters can be caused by dents made during improper installation of liquid filters. Filters that are dented prior to or during installation should not be used. Filters dented after installation should be replaced immediately. The cost of replacing a dented filter is much less than the cost of the damages that could result from a dented filter that fails during service.

If you receive filters that were dented prior to your receipt, you should contact customer support at 800-374-1374 for corrective action.

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TRUCKING**MINING****CONSTRUCTION**



The fatigue to filters results from the pressure pulses within the system. The pressure is regulated by a pressure regulating valve. This valve is spring operated and intermittently opens and closes to regulate the pressure. Once the pressure exceeds the setting of the spring in the regulating valve, the valve will open and relieve pressure until the spring can expand and close the valve. This function is repeated continuously during the operation of the system, creating a pulsing effect. The canister of the filters is subjected to the same pulsation. However, unlike the spring in the pressure regulating valve, the canister material is susceptible to failure after such fatigue.

Filters are designed with a low carbon steel to resist fatigue and are formed so the stress created by the pulses in the system are equalized over the surface area of the canister. A dent provides an area of stress concentration where pressure pulses can greatly shorten the fatigue life of the canister.

More information is available through the
Filter Manufacturers Council at:
<http://www.filtercouncil.org/techdata/tsbs/97-8R1.html>

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Donaldson Company, Inc.
US Toll free: 866-759-4015
Phone: 952-887-3699
www.shoptalk.donaldson.com