



Lube Filtration Upgrade

F8 Housings with HP107 Elements Provide Solution to Leaky Bypass Valves

THE APPLICATION



Leaking bypass valves in filter assemblies are the rule, not the exception, that plague main bearing lubrication filtration systems in factories. Whether in simplex housings or multi-housing duplexes, permanently installed bypass valves leak for a variety of reasons including spring fatigue or failure, contamination clogging, bypass poppet surface degradation and more. This bypass leakage results in bearing lube systems with dirtier fluid, running up 4 times higher ISO fluid cleanliness codes than they would with a zero-leak integral element bypass in service. Even high efficiency filters can be rendered ineffective by a leaky bypass valve yielding high ISO codes, premature bearing failure, higher rates of internally generated contamination, and shorter filter element life.

THE SOLUTION

Hy-Pro's F8 housings provide a drop in replacement to upgrade the machine's lube housings with industry standard 8300/8310/8314 element configurations with no piping modifications required in most cases. The F8 can also be implemented on the off-line side of the duplex valve during the factory's operation and allowing them to continue operation, even through installation.



ELEMENT UPGRADES



To extend improvements over existing housings even further, F8 housings featuring HP107 filter elements provide a single, zero-leak bypass valve integrated directly into the filter element, so with every filter change you get a new bypass along with peace of mind. This integral element bypass valve eliminates annual maintenance requirements to check bypass valve performance and significantly reduces opportunities for potential failures.

Integral Element Bypass Valve Benefits

- Significantly reduce probability of solid contamination build around bypass valve
- Reduces probability of disc or seat scoring and/or wedging between disc and seat which would allow unfiltered oil downstream to journal bearings
- One valve per element provides further reduction in probability of disc or seat scoring and/or solid contaminant wedging open housing bypass valves

Advanced DFE rated filter elements deliver lower operating ISO Codes with high efficiency particulate removal and retention efficiency. With a range of media options down to $\beta_{3[\mu]} > 4000$ + water absorbing options, you get the perfect element for your application, every time.

To find out more, please contact info@hyprofiltration.com.