



# Paper Mill Lube Filtration Upgrade

F8 Housings with HP107 Elements Provide Solution to Leaky Bypass Valves

## THE APPLICATION



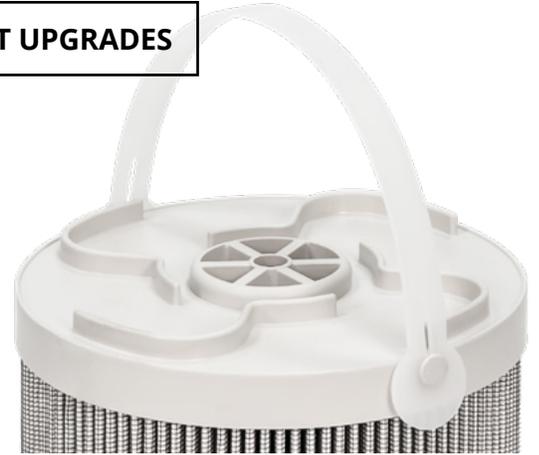
Leaking bypass valves in filter assemblies are the rule, not the exception, that plague main bearing lubrication filtration systems in paper mills. Whether in simplex housings or multi-housing duplexes, permanently installed bypass valves leak for a variety of reasons including spring fatigue or failure, 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 paper machine 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 paper machine operation and allowing mills 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  $\beta_{2.5_{\mu m}} > 1000$  + water absorbing options, you get the perfect element for your application, every time.

To find out more, please contact [info@hyprofiltration.com](mailto:info@hyprofiltration.com).

[CLICK HERE FOR F8 HOUSING INFO](#)