



Hy-Pro Media Lube Design Modification

Hy-Pro G8 Dualglass High Performance DFE Rated Filter Media

An option for high flow lube systems with low terminal element differential pressure indicator alarm and bypass settings (~15 psid, 1 bar). Lube design can extend element life (paper machine lube systems).

May be suitable for hydraulic systems where original housing is undersized or when upgrading to a higher efficiency media grade to improve ISO codes.

Dualglass Media Lube Design Modification

Hy-Pro DFE rated Dualglass media filter elements are optimized for capture and retention efficiency and long element life. When upgrading from some element manufacturers to Hy-Pro the clean element pressure drop experienced with the Hy-Pro element may be slightly higher. The Hy-Pro standard design with M media code (HP__L_-_M_) typically yields a drop (improvement) of one to two codes in each particle size of the ISO fluid cleanliness codes (4/6/14). In most hydraulic and lube applications the Hy-Pro element will also last longer than the original once it has cleaned up the fluid and achieved a clean fluid equilibrium.

There are some applications where the standard Hy-Pro media pack element design (HP__L_-_M_) clean pressure drop results in element life that is shorter than optimum. For these applications Hy-Pro has developed an alternate media pack design called the lube design denoted by replacing the M in the standard design with an L (HP__L_-_L_). The lube design will result in a lower clean element pressure drop because the glass pre-filter layer has been removed allowing a higher pleat count and lower flow resistance because the fluid only passes through a glass media layer and there are more pleats.

Lube Applications

In some lube systems (ie paper machine main bearing lube) the fluid viscosity is high (i.e. ISO VG220) and the alarm for terminal differential pressure is relatively low (i.e. 15 psid, 1 bar). In such applications the lube design might yield longer element life because the clean element plays such an important role in overall element life. If the same system had a terminal differential pressure of 50 psid, 3.5 bar the standard M pack design would yield a longer element life than the lube design.

Hydraulic Applications

In some hydraulic systems the housing might be sized close to its maximum rated flow. In such cases the clean element differential pressure might be > than 15 psid, 1 bar. If this is the case the lube design will provide a lower clean element pressure drop and might be more suitable. Also, if the intent is to upgrade to a filter element with higher efficiency to achieve a lower ISO code the lube design might be required to avoid excessive clean element pressure drop. For example if the original element specified by the OEM was a 10 micron absolute and that element is replaced with a 3 micron the clean element pressure drop could double. In this instance the lube design could provide enough of a decrease from the standard M pack design to make the change possible.