

Case History no. 3 – Lacquer Filtration CD Manufacturer

Fluid	: Lacquer
Flow rate	: Varies
Line size	: generally small ½” - 1”
Change out	: they change out based on increase in pressure drop i.e. they do not change after a batch.
Retention rating	: 5 micron absolute
Materials	: all polypropylene

Problem:-

A manufacturer of Compact discs used what we would consider to be a non-standard 5” junior filter cartridge to filter lacquer. It is non-standard in that there are very few Cartridge manufacturers who have the tooling to produce the small 5” long unit with it’s “odd-ball” single internal o-ring seal. It is outside the more standard 7 – 8 varieties of Single Open Ended (S.O.E.) end fittings available from the majority of manufacturers.

So in using this, the client is limiting themselves to only 1 – 2 manufacturers and therefore may be paying over the odds for them.

Solution:-

We spoke to them about the benefits in using a standard 10” cartridge particularly that of price ‘V’ life and the availability of replacements from all manufacturers. !

We also spoke to them about PARTICLE SIZE DISTRIBUTION and how important it is to select the right type of filter for an application so as to obtain the best value for money and life. We put particular emphasis on the Klearfil with its graded density pre-filtration layers to a level of 40 microns.

We supplied them with one housing and some Polyfil High Surface Area filter Cartridges and Klearfil Hybrid Depth / Pleated filter design to try out.

Result:-

Whilst paying more for our 10” Klearfil cartridges than they were for the original Junior 5” cartridges they were getting many times the life & had a low pressure drop. They purchased 9 new 10” S.O.E. housings from us.

It is important to use S.O.E. housings as they can be serviced with greater ease and Speed than D.O.E. (Units require double open ended cartridges where you have a Tie rod and retaining nut to hold the cartridge on). The sealing of an S.O.E. double o-ring seal is also far superior to that of a D.O.E. flat gasket type. Also operator error in fitting the cartridge properly or tightly enough is avoided as you simply push the cartridge fully home into the socket.