



Hy-Pro VTM Media

Advanced media combination designed for use in Hy-Pro off-line conditioning skids for the removal of solid contamination, water and insoluble oxidation byproducts such as sludge or varnish.

Optimized for Hydraulic & Lube Oils, AW Oils, Turbine Oils, Aero-derivative Jet Lubes, FRFs and EHC Fluids

Performance

Filtration Rating

$$\beta_{0.9} = 1000$$

Temperature Rating

$$30^{\circ}\text{F} (0^{\circ}\text{C}) - 225^{\circ}\text{F} (105^{\circ}\text{C})$$

Tested to ISO Quality Standards

ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

Applications

Ideal for additized AW hydraulic oils. High temperature hydraulic applications such as plastic injection and steel mill hydraulics experience oil degradation leading to varnish related pump and valve failures. One of Hy-Pro's off-line contamination solutions fitted with a VTM element yields servo quality fluid cleanliness, removes water and stops valve stiction in clamping, proportional and servo valves.

EP Gear lube applications where fine silt, heat and water combine to form sludge are ideal for installing an off-line solution with VTM media elements. Extend oil change intervals and protect sensitive gearbox bearings to avoid premature rebuilds.

VTM can also be used as a complement to ICB (soluble varnish removal) where the VTM removes the insoluble before or in tandem with installation of the ICB to rapidly drop MPC and ISO codes in non-additized turbine & compressor lube oils, jet lube, FRFs and phosphate ester.

Media

VTM media elements feature advanced pre-filter layers that remove water and some polar molecules resulting from oxidation. This is followed by a final stage ultra-high efficiency inorganic glass media for the removal of solid particles and larger insoluble oxidation by-products (soft). The result is world class ISO fluid cleanliness and the elimination of sticking valves related to varnish build-up.

Sizing Matters

Designed to be fitted into Hy-Pro off-line contamination solutions at specific flow densities, VTM media elements provide unmatched results when implemented properly. Elements utilizing VTM media are not intended for applications in full flow pressure or return filter assemblies. Consult Hy-Pro for proper sizing guidelines, applications and suitability of applying VTM in pre-existing kidney loop filtration systems.