



CP Canister Filters

The Lenz CP series Return line filter with its low micron rating, high contaminant holding capacity, ease of installation, and low cost is the most practical and economical method of filtering the hydraulic system.

Lenz CP filters are available in several sizes rated at 7GPM to 120 GPM, with nominal or absolute, synthetic, wire mesh, cellulose, and water removal elements. Maximum working pressure is 150-200 PSI.

The filter elements are housed in spin-on disposable canisters to provide quick, clean replacement with a minimum of downtime.

From the inlet port in the aluminum head fluid enters the filter via the holes in the top plate and passes radially inwards through the porous pleated elements. Contaminant particles are retained on the outside of the element and the clean fluid is discharged through the outlet port to the reservoir.

A bypass is assembled in the housing to prevent damage or collapse of the element in cases of extreme clogging and during cold start operation. It provides a direct connection between the inlet and outlet ports and is set to operate at 2.5, 5, 15 or 25 PSI.

An indicator gauge on the filter head warns of increasing pressure drop across the element and that replacement is needed. Several color coded pressure gauges are available, or a CP-2 compound gauge is available with a self adhesive red sticker, and the method to establish the normal pressure at the filter at maximum flow with clean element and then position the lower edge of the red sector at a line (bypass setting) above the normal pressure.

Lenz CP filters are compatible with mineral oil based fluids and certain water/ oil emulsions.

Lenz CP series filters can be applied in suction applications and assembled with a bypass valve set to operate at 2.5 or 5 PSI. The bypass valve prevents cavitation of the pump and consequent damage due to element clogging or cold starts with viscous fluid.

For special applications the bypass valve may be blocked off, for applications such as piston pumps. In any suction line application the allowable pressure drop depends on the total loss in the system and the depression at the inlet pump.

See Lenz website www.lenzinc.com or catalog for further details

