



TANK DISCHARGE FILTER (TDF)



The Tank Discharge Filter (TDF) is an oil filter assembly used to remove particulate contamination down to 5 microns in size from an elevator oil system during operation. The assembly mounts vertically on the tank return line. Filter bags are easily replaced without removing either the adapter plate or the pipe. The filter bag is glazed on the outside and soft on the inside and is to be installed with the soft surface on the inside for filter efficiency.

The bottom of the tank discharge pipe must remain 2" below the low oil level in the tank with the car at the upper terminal landing. Due to filter bag expansion, allow for clearance around the side and bottom of the bag to insure the bag stays seated on the adaptor plate. Higher flow rate systems will require additional filters installed in parallel, or the use of the TDF2 filter unit.

TDF usage and maintenance recommendations:

Clean System Definition – This can be described as a completely new hydraulic elevator installation with new oil. Maxton recommends checking the TDF quarterly to maintain optimal elevator performance. Filters need replacing when white bag color turns brown/black to maintain a clean system.

Non-Clean System Definition – This is an elevator system in use without an oil filtration device. Maxton recommends installing the TDF and running the pump (no coils energized) for several minutes to filter the oil in the system. **Note:** If the TDF captures a substantial amount of contaminants (white bag turns brown/black in color) during this process then Maxton recommends cleaning the tank, purging or replacing the oil and replacing the TDF bag. Perform quarterly filter checks to maintain clean oil for optimal elevator performance.

Specifications

Max. flow per filter (TDF1 / 1V).....	125 gpm
Weight (TDF1 / 1V).....	5.00 lbs
Max. flow per filter (TDF2 / 2V).....	250 gpm
Weight (TDF2 / 2V).....	5.95 lbs
Max. operating pressure.....	5 psi
Max. operating temperature.....	150° F
Line connection, tank.....	2" NPT or Grooved
Oil type.....	Hyd. ISO VG32 150 SUS @ 100° F
Overall dimensions.....	Width dia.10", (Height 20" or 28")
Filter bag rating.....	5 Micron

Available in:

