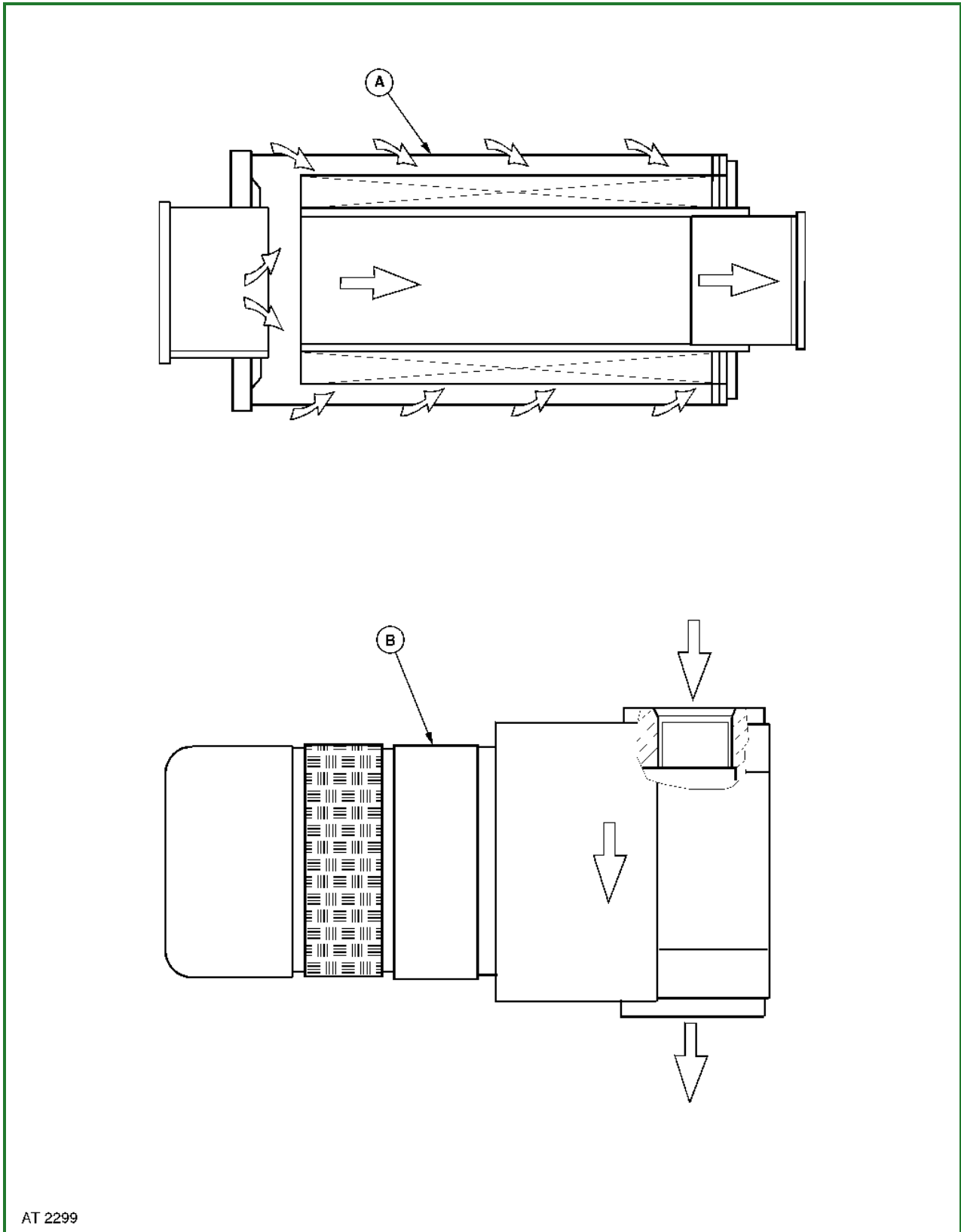


Hydraulic Filter Operation



AT 2299

AT2299-UN: Hydraulic Filters

LEGEND:

A - Suction Line Filter

B - Steering Supply Line Filter

FUNCTION:

Strains particles or contaminants from the oil.

MAJOR COMPONENTS:

- Filter Screen
- Filter Housing
- Filter Canister

THEORY OF OPERATION:

The filter system consists of a suction line filter (A) and a steering supply line filter (B). Hydraulic oil first moves through suction line filter (A) to strain large particles of debris then passes to the hydraulic pumps. The oil delivered by steering pump passes through steering supply line filter (B) then to the steering valve.

If the steering supply line filter should plug and there is more than 340 kPa (3.4 bar; 49 psi) pressure differential, a relief valve opens allowing unfiltered oil to the hydraulic pumps.

IMPORTANT:

Hydraulic filters should be changed according to the maintenance schedule to prevent damage to the hydraulic system.

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