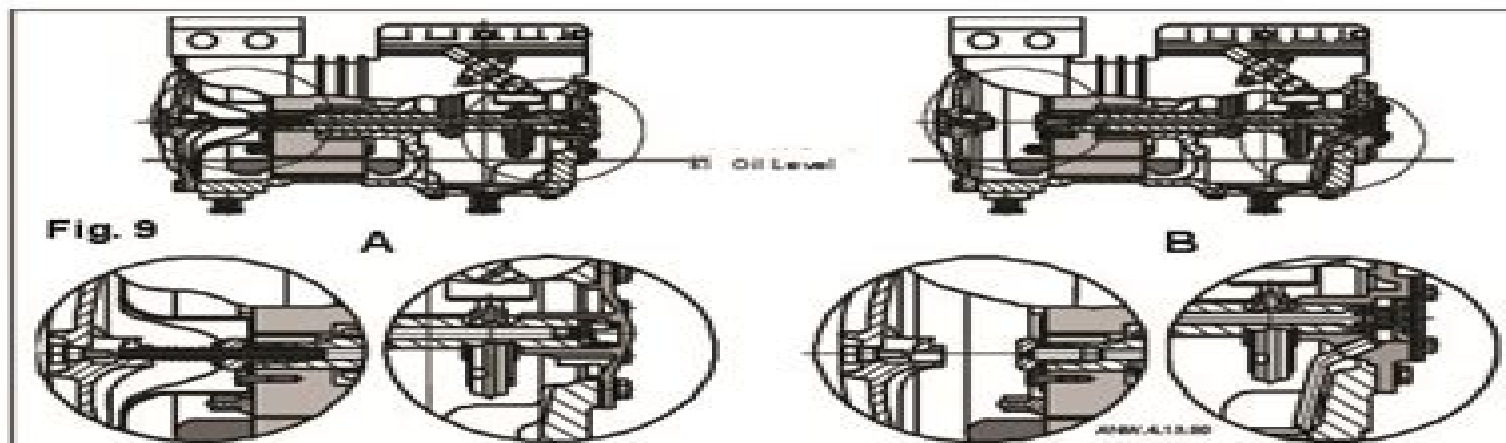


Running Gear Lubrication



Air or Water-Cooled Compressors

Air or water-cooled compressors that are filled with mineral oil have an oil centrifuge. The oil supplied is drawn over a magnetic plug in order to separate even the smallest iron particles from the oil (see Fig. 9A).

Air or water-cooled compressors that are lubricated with ester oil have an integral low-pressure oil pump. These compressors, with pump and ester oil filling, are marked with "P" in compressor nomenclature (see Fig. 9B). An exception is the DKSLP - 200 which has an oil pump but is filled with mineral oil.

DK & DL Compressor Oil Circulation

The oil returning from the evaporator reaches the crankcase via an oil separator chamber behind the suction shut off valve through a small connecting bore. Due to this connecting bore the crankcase pressure will be decreased slowly when the compressor starts. Thus the foaming of the oil and refrigerant mixture will be reduced.

Suction gas-cooled Compressors

The oil pumps used for STANDARD compressors are independent of their rotating direction. They are designed to accommodate fittings for an OPS1, SENTRONIC oil safety system or a standard oil pressure switch. For basic components and mounting instructions see pages 51 & 52.

Oil Circulation

Oil is returned through a suction screen with the suction gases and separated in the motor chamber. It reaches the crankcase by way of a non-return valve in the partition between motor and crankcase. This valve prevents any backflow of oil into the motor due to the pressure difference arising between motor and crankcase, e.g. on compressor start-up. The valve does not reopen until the pressure has been equalised by means of a second non-return valve or equalisation bore. This second valve or equalisation bore connects the crankcase and suction side cylinder head. It slowly reduces the pressure difference by means of the "venturi" effect. The oil foams less and only limited oil/refrigerant foam is transferred to the oil pump, thus slowing down pressure decrease in the crankcase over a certain period of time. It reduces the foaming of the oil/refrigerant mixture which would occur if pressure decreased rapidly.

Hermetic Compressor Manual

RS Peters



Hermetic Compressor Manual:

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web coordinates of v the standard coordinates are v_3 are the b_1 b are assumed if no other basis is specified this means $v_3 e_1 + 4e_2 + 4e_5 + 2e_6$ if $b = \{v_1, v_2, v_3\}$ is a basis of $\mathbb{R}^n$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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