

SRC-W & SW series compressors

Maintenance

(WA-15-02-E)

15. MAINTENANCE

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15. Maintenance

15.1 Lubricants

Lubricants have an extremely high thermal and chemical stability: if the plant is correctly assembled an oil change is normally not needed. In case of motor damage or compressor failure it is recommended to make an oil acid test and if necessary clean the circuit, by fitting a acid retaining filter in the suction line, changing oil and oil filter and purging the system from the highest point on the discharge side. Oil can be drained through the connection for oil exit/output provided on the side of the oil separator and it can be charged through the oil inlet connection.

15.2 Bearings.

The bearings in the compressor are designed to ensure 40000 hours of operation with correct lubrication (oil filter clean and oil pressure within the limits, see paragraph WA-02: “Oil management”) and continuous load within the limits specified in chapter WA-10: “Application range”. Any alteration of the above-mentioned conditions and excessive changeability of the load may bring a drastic reduction in the effective working life. The bearings must be replaced by qualified personnel in a specially equipped workshop.

15.3 Rotors rotation direction.

If the reverse rotation, which occurs when the compressor stops to balance the pressure, lasts more than 3 seconds, the check valve located underneath the discharge shut-off valve may be damaged, and consequently must be replaced. In any case, the reverse rotation must not last more than 5 seconds to avoid damage to the compressor and the unwanted activation of the INT 69 RCY protection module.

On Table A, necessary check outs and maintenance operations are listed:

time (h)	50-100	1000	10000	20000	30000	40000
oil filter	C/R					R
oil	C	C	C	C	C	R
suction filter		C	C		C	C
solenoid valves		C	C	C	C	C
bearings						R
check valve		C	C	C	C	C
INT module		C	C	C	C	C
supply voltage	C	C	C	C	C	C
motor contactors		C	C	C	C	C

R = replace C = check

Table A: Maintenance chart