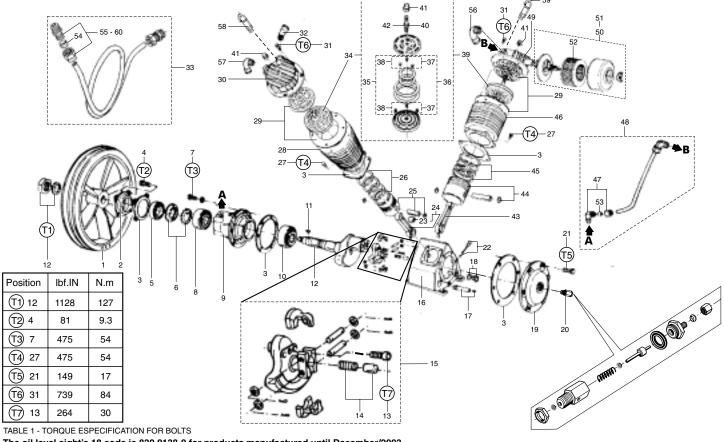


TECHNICAL DATA

MODEL	DISPLACEMENT	MAX. PRESSURE	RPM	MOTOR	BELT	MOTOR PULLEY 4 POLES		OIL CAP.		WEIGHT	DISCHARGE
	cfm	psig		hp				l	IN.QT	IN LBS	SIZE
MCV 40 CA	40	175	700	10	0.0	mm	inch	4.5	4 57	005	4# DCD
MSV 40 SA	40	175	790	10	2-B	190	7.5	1.5	1.57	205	1" BSP



The oil level sight's 18 code is 830.0138-0 for products manufactured until December/2003.

BARE PUMP PARTS

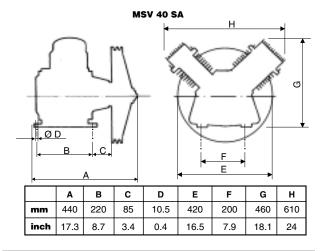
			Little
No.	CODE	DENOMINATION	QUANTITY
1	709.0136-6	Flywheel	01
2	709.0139-0	Flange cover	01
3	830.0431-2/NA	Crankcase gasket kit	01
4	*	UNC 1/4" x 3/4" LT head bolt	04
5	023.0099-0	Oil seal	01
6	830.0134-8	Lock nut and washer	01
7	*	UNC 7/16" x 1.1/4" LT head bolt	06
8	019.0010-2	30208 bearing	01
9	709.0692-9	Flange	01
10	019.0013-7	32210 bearing	01
11	709.0147-1	Key	01
12	830.0438-0	Crankshaft	01
13	830.0314-6	UNC 5/16" x 1" LT Allen head bolt kit	01
14	830.0150-0	Counter weight kit	01
15	830.0426-6	Counter weight	01
16	709.0690-2	Crankcase	01
17	830.0205-0	Oil drain tube	01
18	830.0775-0	3/4" Oil level sight	01
19	709.0691-0	Crankcase cover	01
20	022.0174-0	Centrifugal relief valve	01
21	*	UNC 5/16" x 7/8" LT head bolt	06
22	830.0435-5	Oil level dipstick	01
23	019.0029-0	Needle bearing	01
24	830.0637-0	HP connecting rod with needle bearing	01
25	830.0634-0	HP Ø3.3/8" Piston	01
26	830.0144-5	HP 3.3/8" ring kit	01
27	*	UNC 7/16" x 1" LT head bolt	08
28	709.0698-8	HP 3.3/8" cylinder	01
29	830.0156-9/NA		01
30	709.0702-0	HP 3.3/8" cylinder cover	01
31	830.0884-0	UNC 7/16" x 1" LT Allen head bolt kit	02

LL=	l-lillo					
N	o. CODE	DENOMINATION	QUANTITY			
3	2 003.0011-0	45° MF 1" fitting	01			
3	3 709.1589-0	Intercooler kit	01			
3	4 830.0436-3	HP 3.3/8" concentric valve	01			
	5 830.0131-3	HP concentric valve kit	01			
	6 830.0146-1	LP concentric valve kit	01			
3	7 830.0583-1	LP concentric valve spring kit	01			
	8 830.0582-3	HP concentric valve spring kit	01			
	9 830.0437-1	LP 6.1/8" concentric valve	01			
	0 013.0390-2	LP concentrivc valve bolt	01			
	1 013.0139-0	1/2" concentric valve nut	02			
	2 013.0391-0	HP concentric valve bolt	01			
	3 709.0694-5	LP connecting rod	01			
	4 016.0100-8	LP Ø 6.1/8" piston	01			
	5 830.0143-7	LP 6.1/8" ring kit	01			
	6 709.0697-0	LP 6.1/8" cylinder	01			
	7 003.0003-9	NPT 1/8" x 5/16" elbow	02			
	8 830.0240-9	5/16" crankcase breather tube	01			
	9 709.0700-3	LP cylinder cover (new with screw for filter)	01			
	0 007.0117-0	Air filter (manufactured until 07/01)	01			
	1 007.0116-0	Air filter	01			
	2 007.0118-0	Filter element	01			
	3 830.0600-5	5/16" ring kit	01			
	4 830.0605-6	1" ring kit (manufactured until 09/03)	01			
	5 003.0052-7	1" straight connection (manufactured until 09/03)	02			
	6 003.0010-1	90° MF 1" fitting	01			
	7 003.0152-3	90° MF 1" elbow	01			
	8 022.0189-0	HP 1/8" ASME safety valve	01			
	9 022.0177-0	LP 1/8" ASME safety valve	01			
	0 003.0350-0	1" straight connection	02			
	709.1070-0	Pulley (not shown)	01			
* 6	* Part available in the market - not sold by Schulz					

^{*} Part available in the market - not sold by Schulz

Note: The standard motor pulley is supplied with a standard hole. HP = high pressure LP = low pressure

DIMENSIONS



INSTALLATION AND OPERATION INSTRUCTIONS

INSTALLATION AND LOCATION

1. Installation: Install the compressor in a covered, well ventilated area, free of dust, toxic gases, humidity or any other kind of pollution. The compressor should be located no closer than 32" (800mm) from a wall or any other obstacle that could interfere with the air flow through the fan. This distance will also make maintenance easier. Place the compressor on a leveled surface. Rotation of the flywheel must be in the direction of the arrow cast into the flywheel. The maximum ambient temperature recommended while working is 104°F or 40°C. If necessary, install an exhaust fan to guarantee fresh air and to dissipate heat.

Before making the electrical connections, check oil level and top-up lubricating oil. For type of oil, see table at the end of these instructions.

Electrical connection: The country's valid electrical standards must be followed regarding Low Voltage Electrical Installation.

OPERATION

- 1. Initial start procedure: Before turning on the compressor, check the crankcase oil level. It must be between the dipstick's maximum and minimum marks, or in the middle of the OIL LEVEL SIGHT. As to the type of oil to be used and the recommended change intervals, check at "Lubrication" and as to its volume, check the Technical Data Table.
- 2. Start: Turn on the electrical start key and let your compressor run for about 10 (ten) minutes, what will keep the tank's internal pressure or compressed air around 20 psig. This will optimize a homogeneous lubrication of the parts.

LIMITED WARRANTY

All component parts on your SCHULZ compressor are warranted to be free of defects in workmanship and material for a period of one year. Transportation charges are responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only.

There are no express warranties except as contained in this limited warranty statement and implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the period of warranty.

Our liability is limited solely to replacement of nonconforming parts as set forth herein and does not include any liability for any incidental, consequential, or other damages of any kind. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



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MAINTENANCE

WARNING

Turn off power before servicing and be sure the air tank is unloaded. These instructions are based on normal operating conditions. If the compressor is located in an exceedingly dusty area, increase the frequency of all inspections.

DAILY

- Inspect the compressor visually.
- Check oil level and add some if necessary, before turning the compressor on.
- Drain moisture from the piping system.
- Be sure there is no excessive or unusual vibration or noise.

WFFKIY

- Remove and clean intake air filters; do not wash the filter element.
- Check V-belts for tightness. Belt tension should be adjusted to allow approximately 3/8" to 1/2" (9 to 13 mm) deflection with normal thumb pressure.
- Clean cylinders externally, cylinder head, motor, fan blade, tubing, and tank.
- ASME safety valve should be tested manually to see if it is working properly.

MONTHLY

- Check entire system for air leakage around fittings, etc by using water and soap lather.
- Check the pressure switch operation.
- Check for oil contamination and change it if necessary.

QUARTERLY

- Change the air filter element every 300 working hours or quarterly. (Whichever occurs first).
- Fasten bolts and nuts as required. (See Table 1)
- Change oil more frequently if compressor is located in a very dirty environment.
- WHILE RUNNING IN A PERIOD OF ABOUT 100 WORKING HOURS THE OIL LEVEL SHOULD BE CAREFULLY CHECKED.

ANNUALLY

- Test and calibrate the pressure switch, pilot valve, discharge valve, pressure gauge and ASME safety valve according to their own technical standards. These parts must be removed from the tank and pump to be tested.
- Inspect and clean the suction and discharge valve(s) plate(s) every 1000 (one thousand) working hours (whichever occurs first), located between the cylinder and its cover and, if necessary, replace it (them) according to the operation conditions.

LUBRICATION

- The first oil change should be made after 8 hours of operation.
- The second oil change after 40 hours of operation.
- The third and following exchanges should be made after 200 hours of operation, or 60 (sixty) days, whichever occurs first.

NOTE:

Heavy Duty and multi-viscous oils are not adequate for Schulz air compressor's lubrication. The same applies to oils that tend to emulsify.

We recommend good industrial oil for air compressors, with rust and oxidation inhibitors and high viscosity level (from 90 to 95), SAE or ISO, as indicated in the table below:

RECOMMENDED LUBRICANT OILS FOR SCHULZ AIR PUMPS

AMBIENT TEMPERATURE °F (°C)					
Below 32 °F	32 °F to 68 °F	68 °F to 104 °F			
Below 0 °C	0 °C to 20 °C	20 °C to 40 °C			
SAE 10W	SAE 20W	SAE 40			
or	or	or			
ISO 32	ISO 68	ISO VG 150			

Note: Schulz reserves the right to make changes without prior notice.

DISTRIBUTOR

