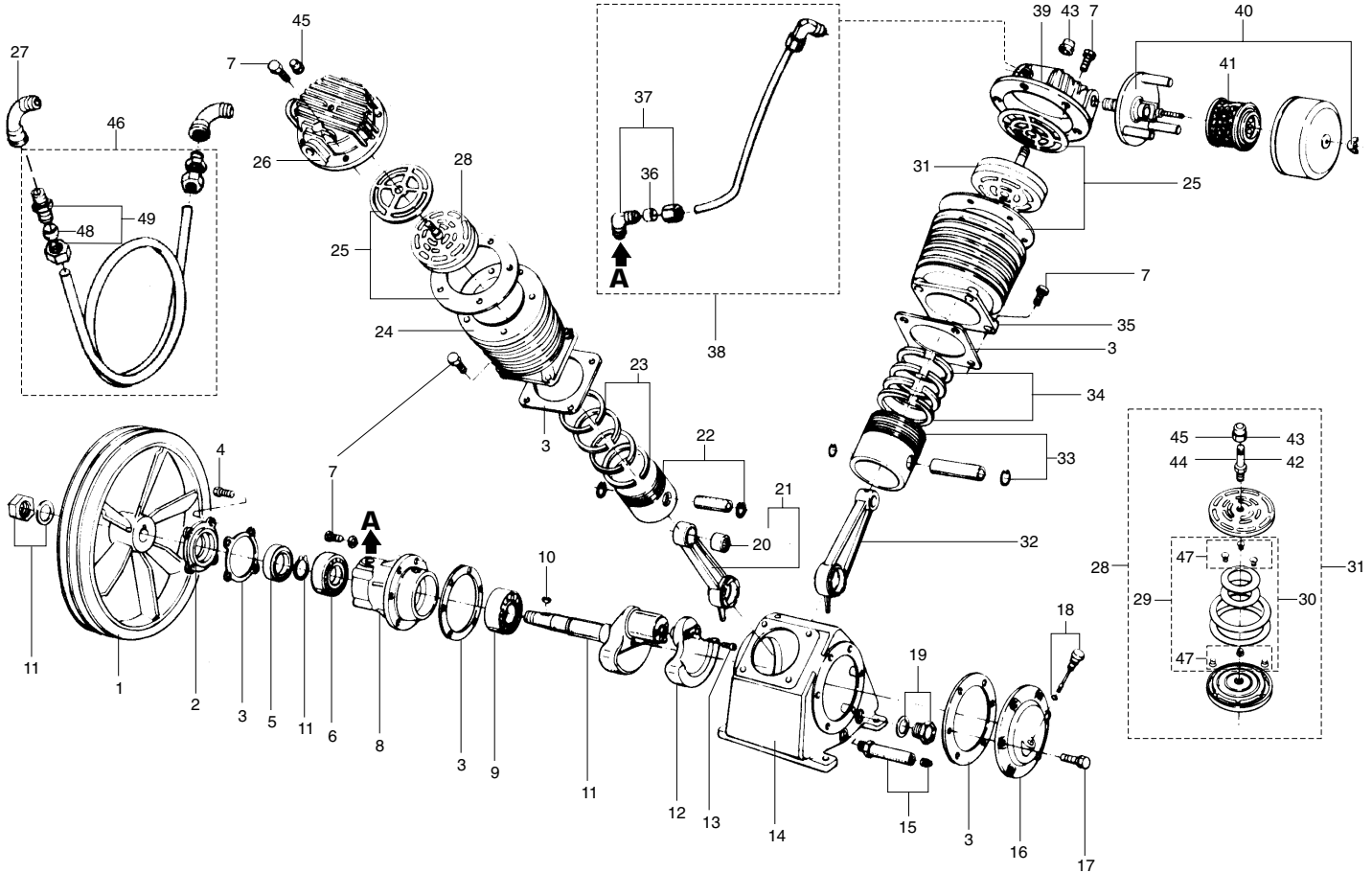


### TECHNICAL DATA

| MODEL            | DISPLACEMENT<br>cfm | MAX. PRESSURE<br>psig | RPM | MOTOR<br>hp | BELT | MOTOR PULLEY |      |         |      | OIL CAP.<br>ℓ | WEIGHT<br>IN lbs | DISCHARGE<br>SIZE |
|------------------|---------------------|-----------------------|-----|-------------|------|--------------|------|---------|------|---------------|------------------|-------------------|
|                  |                     |                       |     |             |      | 2 POLES      |      | 4 POLES |      |               |                  |                   |
|                  |                     |                       |     |             |      | mm           | inch | mm      | inch |               |                  |                   |
| <b>MSV 30 SA</b> | 30                  | 175                   | 995 | 7 1/2       | 2 A  | 115          | 4.5  | 226     | 8.9  | 0,85          | 160              | 3/4" BSP          |



### BARE PUMP'S PARTS

| No. | CODE       | DENOMINATION                          | QUANTITY | No. | CODE       | DENOMINATION                    | QUANTITY |
|-----|------------|---------------------------------------|----------|-----|------------|---------------------------------|----------|
| 1   | 709.0932-4 | Flywheel                              | 01       | 29  | 830.0133-0 | HP concentric valve kit         | 01       |
| 2   | 709.0139-0 | Flange cover                          | 01       | 30  | 830.0131-3 | LP concentric valve kit         | 01       |
| 3   | 830.0204-2 | Crankcase gasket                      | 01       | 31  | 830.0305-7 | LP concentric valve             | 01       |
| 4   | *          | UNC 1/4" x 3/4" LT head screw         | 04       | 32  | 709.0732-1 | LP connecting rod               | 01       |
| 5   | 023.0099-0 | Oil seal                              | 01       | 33  | 016.0004-4 | LP Ø120 mm piston               | 01       |
| 6   | 019.0006-4 | 6208 bearing                          | 01       | 34  | 830.0128-3 | LP ring                         | 01       |
| 7   | *          | UNC 3/8" x 1" LT head screw           | 25       | 35  | 709.0133-1 | LP cylinder                     | 01       |
| 8   | 709.0132-3 | Flange                                | 01       | 36  | 830.0600-5 | 5/16" ring                      | 01       |
| 9   | 382.0028-3 | 6309 bearing                          | 01       | 37  | 003.0003-9 | NPT 1/8" x 5/16" elbow          | 02       |
| 10  | 709.0147-1 | Key                                   | 01       | 38  | 830.0240-9 | 5/16" crankcase breather tube   | 01       |
| 11  | 830.0609-9 | Crankshaft                            | 01       | 39  | 709.0362-8 | LP cylinder cover               | 01       |
| 12  | 709.0930-8 | Counter weight                        | 01       | 40  | 007.0116-0 | Air filter                      | 01       |
| 13  | 013.0467-4 | UNC 3/16" x 7/8" LT Allen head screw  | 02       | 41  | 007.0118-0 | Filter element                  | 01       |
| 14  | 709.0130-7 | Crankcase                             | 01       | 42  | 013.0315-5 | LP concentric valve screw       | 01       |
| 15  | 830.0205-0 | Oil drain tube                        | 01       | 43  | 013.0139-0 | 1/2" LP concentric valve nut    | 01       |
| 16  | 709.0267-2 | Crankcase cover                       | 01       | 44  | 013.0029-6 | HP concentric valve screw       | 01       |
| 17  | *          | UNC 3/8" x 7/8" LT head screw         | 06       | 45  | 013.0138-1 | 3/8" HP concentric valve nut    | 01       |
| 18  | 830.0202-6 | Oil level dipstick                    | 01       | 46  | 830.0265-4 | Intercooler                     | 01       |
| 19  | 830.0138-0 | 3/4" oil level sight                  | 01       | 47  | 830.0582-3 | HP/LP concentric valve spring   | 02       |
| 20  | 019.0028-0 | Needle bearing                        | 01       | 48  | 830.0604-8 | 3/4" ring                       | 01       |
| 21  | 830.0632-0 | HP connecting rod with needle bearing | 01       | 49  | 003.0051-9 | 3/4" x 3/4" straight connection | 02       |
| 22  | 830.0608-0 | HP Ø2.1/2" piston                     | 01       | -   | 709.0223-0 | Pulley ø 115 mm                 | 01       |
| 23  | 830.0129-1 | HP ring                               | 01       | -   | 709.0929-4 | Pulley ø 226 mm                 | 01       |
| 24  | 709.0134-0 | HP cylinder                           | 01       |     |            |                                 |          |
| 25  | 830.0140-2 | Upper gasket                          | 01       |     |            |                                 |          |
| 26  | 709.0135-8 | HP cylinder cover                     | 01       |     |            |                                 |          |
| 27  | 003.0009-8 | 90° MF 3/4" fitting                   | 02       |     |            |                                 |          |
| 28  | 830.0304-9 | HP concentric valve                   | 01       |     |            |                                 |          |

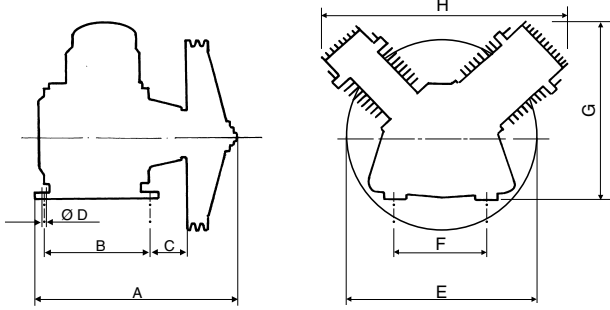
\* Part available in the market - not sold by Schulz S.A.

Note: The standard motor pulley is supplied with a standard hole.

HP = high pressure  
LP = low pressure

**DIMENSIONS**

**MSV 30 SA**



|             | A    | B   | C  | D    | E     | F   | G    | H    |
|-------------|------|-----|----|------|-------|-----|------|------|
| <b>mm</b>   | 435  | 220 | 75 | 10,5 | 420   | 200 | 410  | 580  |
| <b>inch</b> | 17.1 | 8.7 | 3  | 0.41 | 16.53 | 7.9 | 16.1 | 22.8 |

**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 113°F or 45°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.

**2. 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.



Schulz of America, Inc.  
 320 A Northpoint Parkway  
 Acworth, GA 30102  
 Phone # (770) 529-4731 / 32  
 Fax # (770) 529-4733  
 E-mail: sales@schulzamerica.com

**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.

**WEEKLY**

- 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.
- 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 cap screws and nuts as required.
- Change oil more frequently if compressor is located in a very dirty environment.
- On the 7 1/2, 10 and 15 HP compressor pumps, the concentric valves must be inspected and cleaned between 800 and 1000 service hours.

**- WHILE RUNNING IN A PERIOD OF ABOUT 100 WORKING HOURS THE OIL LEVEL SHOULD BE CAREFULLY CHECKED.**

**ANNUALLY**

- Test and calibrate the pressure switch, pressure gauge and 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<br>Below 0 °C   | 32 °F to 68 °F<br>0 °C to 20 °C | 68 °F to 113 °F<br>20 °C to 45 °C |
| SAE 10W<br>or<br>ISO 32     | SAE 20W<br>or<br>ISO 68         | SAE 30<br>or<br>ISO 100           |

**DISTRIBUTOR**

