

SAYLOR-BEALL MANUFACTURING CO.  
ST. JOHNS, MICHIGAN

OPERATING INSTRUCTIONS  
BASIC AIR COMPRESSOR

TWIN CYLINDER MODELS

SERIES 62-C300

Commencing with  
Serial Nos. WR-5000

SERIES 62-D400

Commencing with  
Serial No. W-5000

**LUBRICATION — IMPORTANT**

The crankcase of this compressor was drained before shipment.

Be sure to add oil before the compressor is run.

Use a good brand of SAE No. 30 Non-Detergent, Single Grade Motor Oil. Fill the crankcase to the oil level mark on the sight gauge located on the back end of the compressor away from the flywheel. Check the oil level frequently.

Low oil level means trouble. Drain the oil every 100 hours of operation and add fresh oil.

**AIR CLEANER**

The air cleaner consists of filter pad and a screen located in the cylinder head. Keep the pad clean. Wash the pad with Naptha often. Change pads every 100 hours. A dirty air cleaner means slow pumping time and loss of pressure.

**VALVES**

The intake and exhaust valves are located in the cylinder head; easily removed from the top.

The valves are precision made from the finest valve steel and will require little or no attention.

The valve springs are made from silicone type wire and calibrated to very close limits to provide maximum efficiency.

Valve leakage (indicated by slow pumping) is usually caused by carbon deposits and only after a long period of operation.

valves are removed for any reason—do one at a time—and use extreme care in cleaning and assembly.

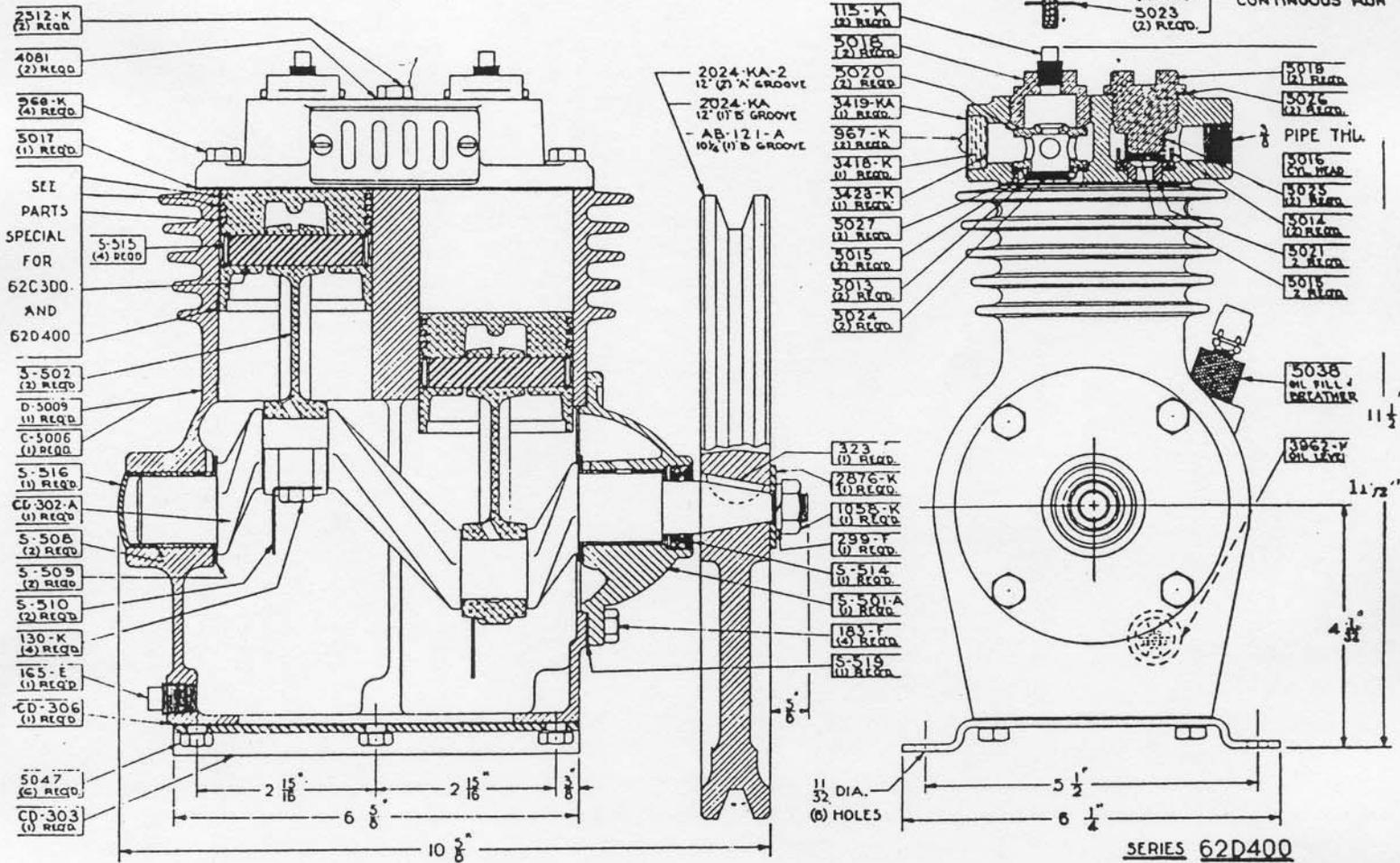
**GENERAL OPERATION**

The maximum pressure is 150 P.S.I.

The maximum speed is 850 R.P.M.

Always operate the compressor below maximum output for best results and longer life.

**NOTE:** Orders must specify pump model number and serial number when ordering replacement parts.



### Recommended Operation

### Pulley and Flywheel Data

#### TWIN CYLINDER MODEL 62-C300 SERIES 2" BORE 2" STROKE

Flywheel Diameter	Pulley Diameter	RPM	CFM	Oper. Pressure	H.P. Req.
10 1/2	3 3/8	565	4.15	100 PSI	3/4 HP
10 1/2	4 1/4	720	5.2	125 PSI	1 HP
10 1/2	4 1/2	770	5.6	100 PSI	1 HP

#### TWIN CYLINDER MODEL 62-D400 SERIES 2 1/2" BORE 2" STROKE

Flywheel Diameter	Pulley Diameter	RPM	CFM	Oper. Pressure	H.P. Req.
10 1/2	3	495	5.6	100 PSI	1 HP
10 1/2	4 1/8	690	7.8	125 PSI	1 1/4 HP
12	3 1/2	495	5.6	100 PSI	1 HP
12	4 5/8	690	7.8	125 PSI	1 1/4 HP

A good check valve must be used with tank mounted compressors between the pump and tank.

### FLYWHEELS

- 62-C311 10 1/2" flywheel
- 62-C314 12" flywheel
- 62-D404 10 1/2" flywheel
- 62-D403 12" flywheel—1 "B" groove
- 62-D403-2 12" flywheel—2 "A" groove

Prices Subject to Change Without Notice

## MISCELLANEOUS PARTS (CONTINUED)

Part No.	Description	No. Reqd.
CD-302 A	Crankshaft (For Bushing Type)	1
S-502	Connecting Rod Assy. (All Models) (Includes Rod Cap & Screws)	2
S-508	Bushing—Main Bearing (Front & Rear)	2
S-510	Splash Plate	2
S-515	Lockring—Piston Pin (Included with Piston)	4
S-516	Welsh Plug (For Bushing Type)	1

### PARTS SPECIAL FOR 62C300

AC-109	Pin—Piston (Included with Piston)	2
C-5006	Cylinder & Bushing Assy. (Includes Cylinder, Bushings, Welsh Plug & Sight Glass)	1
5075	Piston (Includes Pin & Lockrings)	2

### PARTS SPECIAL FOR 62D400

BD-205	Pin—Piston (Included with Piston)	2
D-5009	Cylinder & Bushing Assy. (Includes Cylinder, Bushings, Welsh Plug & Sight Glass)	1
5079	Piston (Includes Pin & Lockrings)	2

### PARTS SPECIAL — ROLLER BEARING COMPRESSORS

#### 62C300-R & 62D400-R

CD-302 AH	Crankshaft	1
3615-K	Roller Bearing—Front	1
3616-K	Roller Bearing—Rear	1
C-5006-R	Cylinder & Bearing Assy. (Includes Cylinder, Roller Bearing & Sight Glass)	1
D-5009-R	Cylinder & Bushing Assy. (Includes Cylinder, Roller Bearing & Sight Glass)	1

### ASSEMBLIES

S-5002-A	Cover Assy.—Front (All Bushing Type Models) Includes Cover, Bushing & Oil Seal	1
S-5002-AR	Cover Assy.—Front (All Roller Bearing Type Models) Includes Cover, Roller Bearing & Oil Seal	1
CD-5021	Cylinder Head & Valve Assy. (All Stop-Start Models) Includes Cylinder Head, Valve Assemblies, Com- plete Breather Assembly & Head Gasket	1
CD-5022	Cylinder Head & Valve Assy. (All Cont. Run Models "UL") Includes Cylinder Head, Valve Assemblies, Plunger Assembly & Complete Breather Assembly & Head Gasket	1
C-5047	Piston Ring Set (62C300)	1
D-5048	Piston Ring Set (62D400)	1
CD-5056	Gaskets Set (All Models) Includes Thrust Washers & Valve Gaskets	1

### WARRANTY

The Saylor-Beall Manufacturing Co., Inc. warrants the compressors manufactured by it, when properly installed and lubricated as recommended, to be free from defects in material and workmanship under normal use and service. The responsibility of the Company under this warranty is limited to repair or replacement, at the Company's factory, any part or parts thereof, which shall, within one year after date of shipment to the original purchaser, be returned with transportation charges prepaid and which, upon examination, shall be found to be defective to the satisfaction of the Company. This warranty shall not apply to parts which have been subjected to misuse, negligence or accident, or to parts which have been repaired or tampered with outside of the Company's factory when in the judgment of the Company, it appears that the reliability or stability of the part or parts has been effected. Ordinary maintenance, such as adjustment and cleaning of equipment or components is the responsibility of the owner. Components purchased by Saylor-Beall for which Vendor's established warranty prevails, will be repaired or replaced if defective, only in accordance with Vendor's established warranty policy. This warranty is expressly in lieu of all other warranties expressed or implied and of any other obligations or liability on the part of the Company.

# REPAIR PARTS PRICE LIST

Must Specify Pump Model and Serial No.  
When Ordering Parts

## PARTS COMMON TO MODELS 62C300 AND 62D400 CYLINDER HEAD ASSEMBLY

Part No.	Description	No. Reqd.
115-K	Pipe Plug—Intake Retainer	2
5014	Guide—Exhaust Valve	2
5016	Head—Cylinder	1
5018	Retainer—Intake	2
5019	Retainer—Exhaust Valve	2
5020	Valve Seat—Intake	2
5021	Seat—Exhaust Valve (Press Fit in Head)	2
CD-5066	Valve Repair Kit (5015, 5024, 5025, 5026, 5027, 5013-R)	1

## OPTIONAL PARTS FOR CONTINUOUS OPERATION

5046	Kit—Unloader Conversion (With Pilot Valve)	1
5061	Kit—Unloader Conversion (Without Pilot Valve)	1
S-5069-2	Repair Kit (5022, 5023, 5027, 5028)	1

## AIR CLEANER PARTS — IN CYLINDER HEAD

967-K	Screw	2
3418-K	Pad	1
3419-KA	Cover	1
3423-K	Screen	1

## FLYWHEELS

AB-121-A	10½" Counter Clockwise (1) "B" Groove	1
2024-KA	12" Counter Clockwise (1) "B" Groove	1
2024-KA-2	12" Counter Clockwise (2) "A" Grooves	1

## MISCELLANEOUS PARTS

165-E	Pipe Plug—Oil Drain	1
183-F	Capscrew—Front Cover	4
299-F	Lockwasher—Flywheel	1
CD-303	Cover—Bottom	1
323-F	Key—Flywheel	1
S-501-A	Cover—Front (See S-5002-A or S-5002-AR)	
S-514	Oil Seal	1
966-K	Capscrew (Cyl. Head to Cylinder)	4
1058-K	Nut—Flywheel	1
2512-K	Capscrew (Cyl. Head to Cylinder)	2
2876-K	Washer—Flywheel	1
3962-K	Oil Level Gauge	1
4081	Copper Washer—For 2512-K Capscrew—Exhaust Side	1
5038	Oil Fill & Breather Assy. (Inc. Breather & O-Rings)	1
5040	O-Ring (5038 Breather)	1
5047	Capscrew—Bottom Cover	6

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