

# EKASAND

## 93 x 178 mm (3<sup>2</sup>/<sub>3</sub> x 7 in.)

### Orbital Sander

# EKASAND

**EKASAND TOOLS**  
© EKASAND-0701

#### Features:

- Free Speed of 10,000 Orbits Per Minute
- Variable Speed Control with Palm Style On/Off Lever
- 3 Sizes of Ergonomic Cushion-Grips for comfort and stability
- Low Profile for Operator Control and Comfort
- Rear Exhaust Directs Air away from work
- Suggested Applications:  
Sanding and Finishing a Variety of Materials including Wood, Metal, Plastic, Fiberglass Composites, Solid Surfaces and other Sandable Surfaces



#### WARNING

Always wear safety goggles to protect your eyes.



#### OIL DAILY

Oil daily for superior performance.

#### Operators Instructions

Includes – Features and Suggested Applications, Please Read and Comply, Assembly Drawing of Machines, Parts List, Proper Use of Tool, Work Stations, Putting the Tool Into Service, Operating Instructions, EKASAND Service Tools and Accessories, EKASAND Back-Up Pads™, EKASAND Service Kit, EKASAND Warranty

#### Important

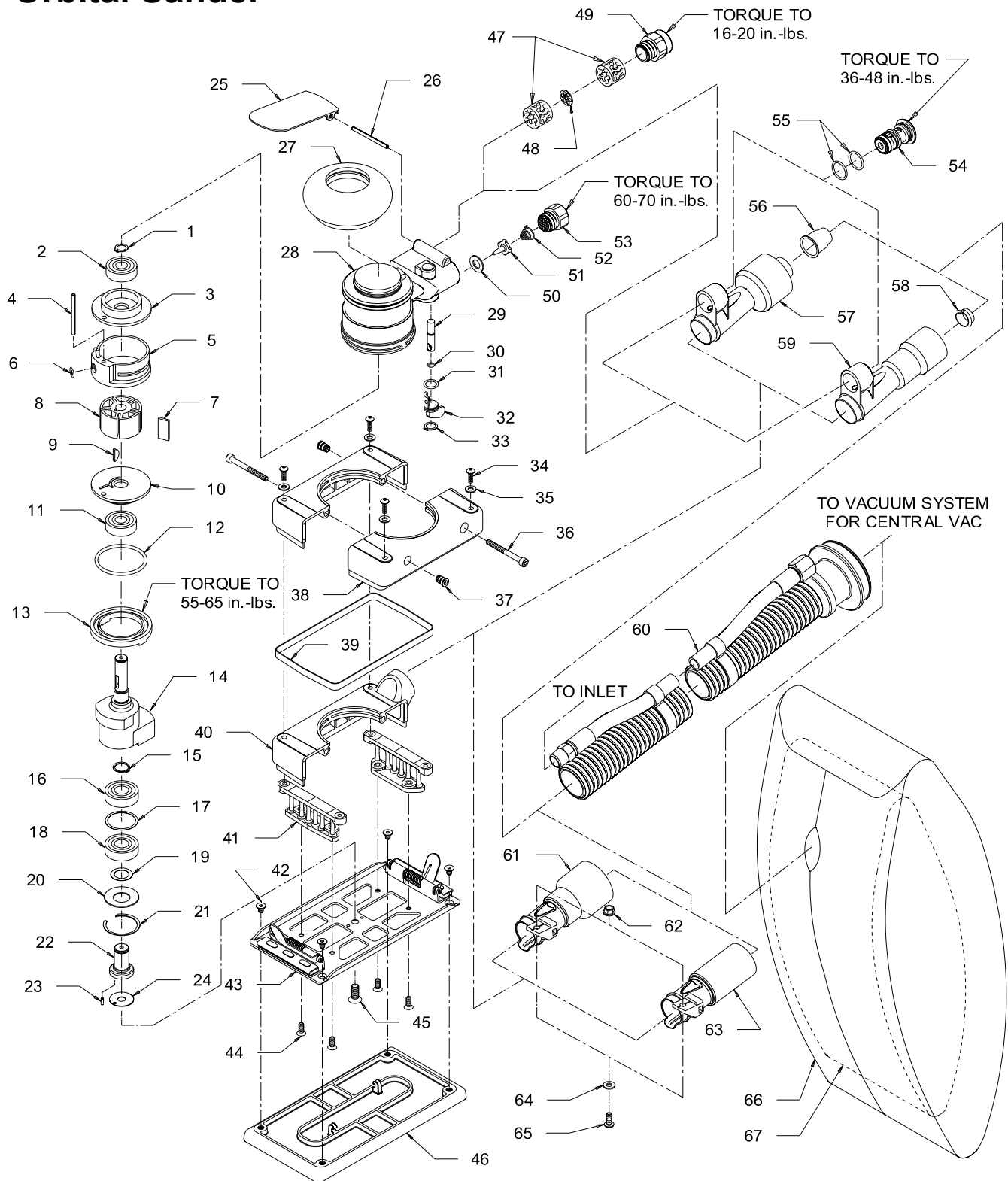
Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe, accessible location.

#### Please Read and Comply With

- 1) General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- 2) Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York, NY 10018
- 3) State and Local Regulations.  
Key parts of the above regulations are excerpted below. They are not intended to be inclusive. Study and comply with all regulations.
  - 1) TOOL INTENT – Tool shall be used only for purposes intended in its design.
  - 2) AIR SUPPLY – Test and operate tools at 90 PSIG (6.1 Bar) maximum unless tool is marked otherwise. Use recommended airline filters - regulators – lubricators (FRL).
  - 3) UNUSUAL SOUND or VIBRATION – If tool vibrates or produces an unusual sound, repair immediately for correction.
  - 4) OPERATOR PROTECTIVE EQUIPMENT – Wear goggles or face shield whenever tool is in operation. Other protective clothing shall be worn, if necessary.
  - 5) SAFETY MAINTENANCE PROGRAM – Employ a safety program to provide inspection and maintenance of all phases of tool operation and air supply equipment in accordance with "Safety Code for Portable Air Tools."

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# EKASAND 93 x 178 mm (3<sup>2</sup>/<sub>3</sub> x 7 in.) Orbital Sander



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## Part List

ITEM	P/N	DESCRIPTION	QTY
1	ESA0400	RETAINING RING	1
2	ESA1200	BEARING	1
3	ESA5600	REAR ENDPLATE	1
4	ESA4000	PIN (included with item 5, Assembly)	1
5	ESA7600	CYLINDER ASSEMBLY (includes item 4, Pin)	1
6	ESA2400	O-RING	1
7	ESA0100	VANE (5 are included with item 8, Set)	5
8	ESA3600	ROTOR, VANES (Qty. 5) AND KEY KIT	1
9	ESA1400	KEY (included in item 8, Set)	1
10	ESA4600	FRONT ENDPLATE	1
11	ESA9100	BEARING	1
12	ESA5400	O-RING	1
13	ESA1000	LOCK RING	1
14	ESB3720	3 2/3 in. X 7 in. 3/16 in. (5 mm) ORBIT SHAFT OS BALANCER (for screw type clamp style pad)	1
	ESB4720	3 2/3 in. X 7 in. 3/16 in. (5 mm) ORBIT SHAFT OS BALANCER (for screw type pad)	1
15	ESA0900	RETAINING RING	1
16	ESA5300	BEARING	1
17	ESA3910	SHIM	1
18	ESA0200	BEARING	1
19	ESA6100	SHIM	1
20	ESA7100	WASHER	1
21	ESA8100	RETAINING RING	1
22	ESA3110	SPINDLE (includes item 23 pin)	1
23	ESA2110	PIN (included with item 22, Spindle)	1
24	ESA1800	SPACER KIT (includes ESA9700 AND ESA0800 spacers)	1
25	ESA4110	LEVER	1
26	ESA1300	PIN	1
27	ESA3490	65 mm (2 ½ in.) GRIP	OPT
	ESA4490	70 mm (2 ¾ in.) GRIP (Standard)	1
	ESA5490	75 mm (3 in.) GRIP	OPT
28	ESA6601	HOUSING	1
29	ESA8000	VALVE STEM ASSEMBLY (includes item 30 O-ring)	1
30	ESA8900	O-RING (included with item 29 Valve Stem Assembly)	1
31	ESA3400	O-RING	1
32	ESB4100	SPEED CONTROL	1
33	ESA9300	RETAINING RING	1
34	ESA8670	SCREW	4
35	ESA6700	WASHER	4

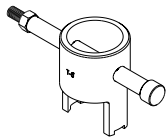
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36	ESA0770	SCREW	2
37	ESA1700	THREADED INSERT	2
38	ESC7610	SHROUD (Right Hand and NV Left Hand)	1
39	ESA9610	SHROUD SEAL	1
40	ESD0100	CV/SGV SHROUD	1
41	ESC0100	PAD SUPPORT	2
42	ESA6670	SCREW FOR CLAMP STYLE SCREW-ON PAD BACKING ASSEMBLY	4
43	ESC6210	PAD BACKING ASSEMBLY FOR CLAMP-ON ABRASIVE SCREW ON PADS	1
	ESC0610	PAD BACKING FOR PSA/HOOK SCREW ON PADS	1
44	ESA7670	SCREW	4
45	ESA8700	SCREW	1
46	2573300	93 x 178 mm (3 2/3 x 7 in.) non-vacuum, vinyl face pad	1
	2573310	93 x 178 mm (3 2/3 x 7 in.) vacuum, vinyl face pad	1
	2573301	93 x 178 mm (3 2/3 x 7 in.) non-vacuum, hook face pad	1
	2573311	93 x 178 mm (3 2/3 x 7 in.) vacuum, hook face pad	1
47	ESA2300	MUFFLER	2
48	ESA8300	PLATE	1
49	ESA6610	MUFFLER HOUSING	1
50	ESA9000	SEAT	1
51	ESA7000	VALVE	1
52	ESA4100	VALVE SPRING	1
53	ESA3100	INLET BUSHING (1/4-18 NPT)	1
54	ESA2270	10,000 RPM SGV RETAINER ASSY	1
55	ESA4400	O-RING	2
56	ESA8770	Ø 28 mm (1 in.) SuperVAC SGV SEAL (included in item 57)	1
57	ESA2411	Ø 28 mm (1 in.) SuperVAC SGV SWIVEL EXHAUST ASSY (Standard on SGV)	1
58	ESA4580	Ø 19 mm (3/4 in.) SuperVAC SGV SEAL (included in item 59)	OPT
59	ESA0411	Ø 19 mm (3/4 in.) SuperVAC SGV SWIVEL EXHAUST ASSY (Optional on SGV)	OPT
60	ESA2140	Ø 28 mm (1 in.) VAC HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSY (Standard on SGV) INCLUDES: ESA3400 Ø 28 mm (1 in.) x 1.8 m (6 ft.) Vacuum Hose, ESB3210 Ø 28 mm (1 in.) Hose to Double Bag Vacuum Fitting, ESA3300 Ø 6.3 mm (1/4 in.) x 1.8 m (6 ft.) Airline with Fittings, ESA2700 Bungee for Ø 6.3 mm (1/4 in.) Airline & Ø 28 mm (1 in.) Vacuum Hose (5)	1
	ESA1140	Ø 19 mm (3/4 in.) VAC HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSY (Optional on SGV) INCLUDES: ESA0020 Ø 19 mm x 1.5 m (5 ft.) Vacuum Hose, ESB3310 Ø 19 mm (3/4 in.) Hose to Double Bag Vacuum Fitting, ESA2030 Ø 6.3 mm (1/4 in.) x 1.5 m (5 ft.) Airline with Fittings, ESA1030 Bungee for Ø 6.3 mm (1/4 in.) Airline & Ø 19 mm (3/4 in.) Vacuum Hose (5)	OPT
	ESA0030	Ø 19 mm (3/4 in.) VAC HOSE TO Ø 19 mm (3/4 in.) x Ø 28 mm (1 in.) HOSE ADAPTER COUPLING & AIRLINE ASSY INCLUDES: ESA0020 Ø 19 mm (3/4 in.) x 1.5 m (5 ft.) Vacuum Hose, ESB8800 Ø 19 mm (3/4 in.) Hose to Ø 28 mm (1 in.) Hose Adapter, ESA2030 Ø 6.3 mm (1/4 in.) x 1.5 m (5 ft.) Airline with Fittings, ESA1030 Bungee for Ø 6.3 mm (1/4 in.) Airline & Ø 19 mm (3/4 in.) Vacuum Hose (5)	OPT
61	ESA2900	SuperVAC 1 in. CV SWIVEL EXHAUST ASSEMBLY (Standard on CV)	1
62	ESA8400	NUT	1
63	ESA8920	SuperVAC 3/4 in. CV SWIVEL EXHAUST ASSEMBLY (Optional on CV)	OPT
64	ESA7400	WASHER	1
65	ESA9670	SCREW	1
66	ESC0110	VACUUM BAG (Standard on SGV)	1
67	ESC9010	VACUUM BAG INSERT (Standard on SGV)	1

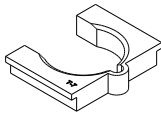
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## EKASAND Service Tools and Accessories

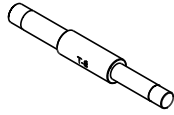
When an EKASAND OS needs to be serviced, we offer a tool kit to make the disassembly/assembly fast and easy. The Service Tools are highly recommended for use with the Overhaul Service Kit. NOTICE: To receive any expressed or implied warranty, the tool must be repaired by an authorized EKASAND Service Center.



T-6 Motor Lock Ring Wrench/Spindle Puller



T-7 Soft Collar



T-8 Motor Face Plate Bearing Removal Tool



T-13 Bearing Press Tool



T-9 Bearing Puller



T-1 Bearing Press Tool



T-12 5/16-24 to M6 x 1P Adapter Assembly



T-3 OS Spindle Bearing Press Tool

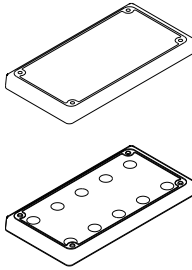
ESA9740 Universal Service Tool Kit

ESA5840 3<sup>2</sup>/<sub>3</sub> x 7 in. Service Tool Kit

### EKASAND Back-Up Pads

EKASAND back-up pads are perfectly mated for use on the EKASAND. Constructed from premium, industrial-quality materials and featuring a riveted fiberglass and steel hub with molded urethane, their durability and precise construction are the ideal complement to the performance of the EKASAND.

Description	Part#
EKASAND 3 <sup>2</sup> / <sub>3</sub> x 7 in. non-vacuum, vinyl face pad	2573300
EKASAND 3 <sup>2</sup> / <sub>3</sub> x 7 in. vacuum, vinyl face pad	2573310
EKASAND 3 <sup>2</sup> / <sub>3</sub> x 7 in. non-vacuum, hook face pad	2573301
EKASAND 3 <sup>2</sup> / <sub>3</sub> x 7 in. vacuum, hook face pad	2573311



### EKASAND Overhaul Service Kit

The ESA4311EKASAND Overhaul Service Kit contains all the replacement parts that naturally wear over time and a straightforward manual to make servicing an EKASAND sander simple.

Overhauling the Orbital Sander can be made even easier with the use of the above Service Tools. The Service Tools also reduce the chance of improper assembly.

ESA4311 Overhaul Service Kit Contents

ESA4311 Overhaul Service Kit Contents			
Item	Part No.	Description	Qty.
2	ESA1200	Bearing	1
6	ESA2400	O-ring	1
7	ESA0100	Vane	5
8	ESB5000	Rotor	1
9	ESA1400	Key	1
11	ESA9100	Bearing	1
16	ESA5300	Bearing	1
17	ESA3910	Spacer	1
18	ESA0200	Bearing	1
29	ESA8000	Valve Stem Assembly	1
31	ESA3400	O-ring	1
33	ESA9300	Internal Retaining Ring	1
41	ESC0100	Pad Support	2
47	ESA2300	Muffler Insert	2
49	ESA6610	Muffler Housing	1
50	ESA9000	Valve Seat	1
51	ESA7000	Valve	1
52	ESA4100	Valve Spring	1
N/A	ESA2620	Service Instructions	1

### EKASAND Warranty

All EKASAND Orbital Sanders are warranted for defects in materials or workmanship for 1 year following the date of delivery to the user. Combined with the EKASAND name, this Warranty expresses our total confidence in the superior quality, durability, and performance of the EKASAND.

# EKASAND

## Proper Use of Tool

This sander is designed for sanding all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this sander for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier.

Do not use back-up pads that have a working speed less than 10,000 OPM free speed.

## Work Station

The tool is intended to be operated as a hand held tool. It is always recommended that the tool be used when standing on a solid floor. It can be in any position but before any such use, the operator must be in a secure position having a firm grip and footing and be aware that the sander can develop a torque reaction. See the section "Operating Instructions".

## Putting the Tool into Service

Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 PSI/6.1 Bar when the tool is running with the lever fully depressed. It is recommended to use an approved 3/8 in./10 mm x 25 ft./8 meter maximum length airline. It is recommended that the tool be connected to the air supply as shown in Figure 1. Do not connect the tool to the airline system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator and lubricator (FRL) be used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be lubricated by shutting off the air supply to the tool, depressurizing the line by pressing the lever on the tool. Disconnect the airline and put 2 to 3 drops of a suitable pneumatic motor lubricating oil, preferably incorporating a rust inhibitor into the hose end (inlet) of the machine. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil. If tool is used frequently lubricate on daily basis and if tool starts to slow or lose power.

It is recommended that the air pressure at the tool be 90 PSI/6.1 Bar while the tool is running so the maximum RPM is not exceeded. The tool can be run at lower pressures but should never be run higher than 90 PSI/6.1 Bars. If run at lower pressure the performance of the tool is reduced.

## Operating Instructions

- 1) Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules. All service and repair must be carried out by trained personnel.
- 2) Make sure the tool is disconnected from the air supply. Select a suitable abrasive and secure it to the back-up pad. Be careful and center the abrasive on the back-up pad.
- 3) When sanding always place the tool on the work then start the tool. Always remove the tool from the work before stopping. This will prevent gouging of the work due to excess speed of the abrasive.
- 4) Always remove the air supply to the sander before fitting, adjusting or removing the abrasive or back-up pad.
- 5) Always adopt a firm footing and/or position and be aware of torque reaction developed by the sander.
- 6) Use only correct spare parts.
- 7) Always ensure that the material to be sanded is firmly fixed to prevent its movement.
- 8) Check hose and fittings regularly for wear. Do not carry the tool by its hose, always be careful to prevent the tool from being started when carrying the tool with the air supply connected.
- 9) Do not exceed maximum recommended air pressure.
- 10) Use safety equipment as recommended.
- 11) The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity, gas pipes, water pipes, etc. Check the area of operation before operation.
- 12) Take care to avoid entanglement with the moving parts of the tool with clothing, ties, hair, cleaning rags, etc. If entangled, it will cause the body to be pulled towards the work and moving parts of the machine and can be very dangerous.
- 13) Keep hands clear of the spinning pad during use.
- 14) If the tool appears to malfunction, remove from use immediately and arrange for service and repair.
- 15) Do not allow the tool to free speed without taking precautions to protect any persons or objects from the loss of the abrasive or pad.

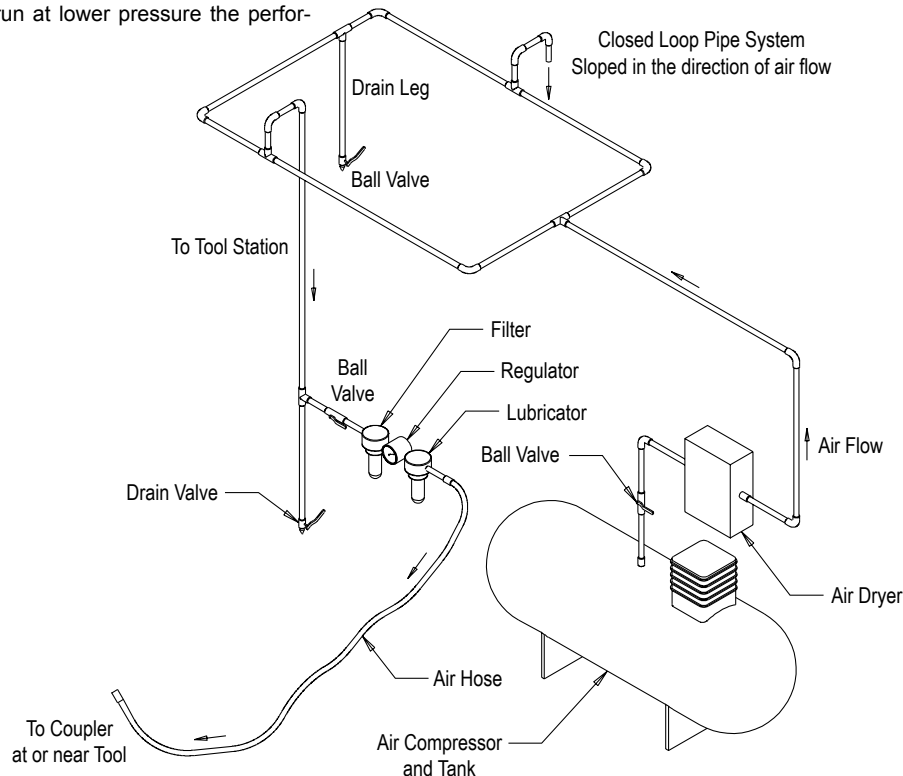


Figure 1