

EKASAND Low Profile 127 mm (5 in.) and 152 mm (6 in.) 12,000 RPM Random Orbital Sander

EKASAND
EKASAND TOOLS
© EKASAND-0701

Features:

- Free Speed of 12,000 Revolutions 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

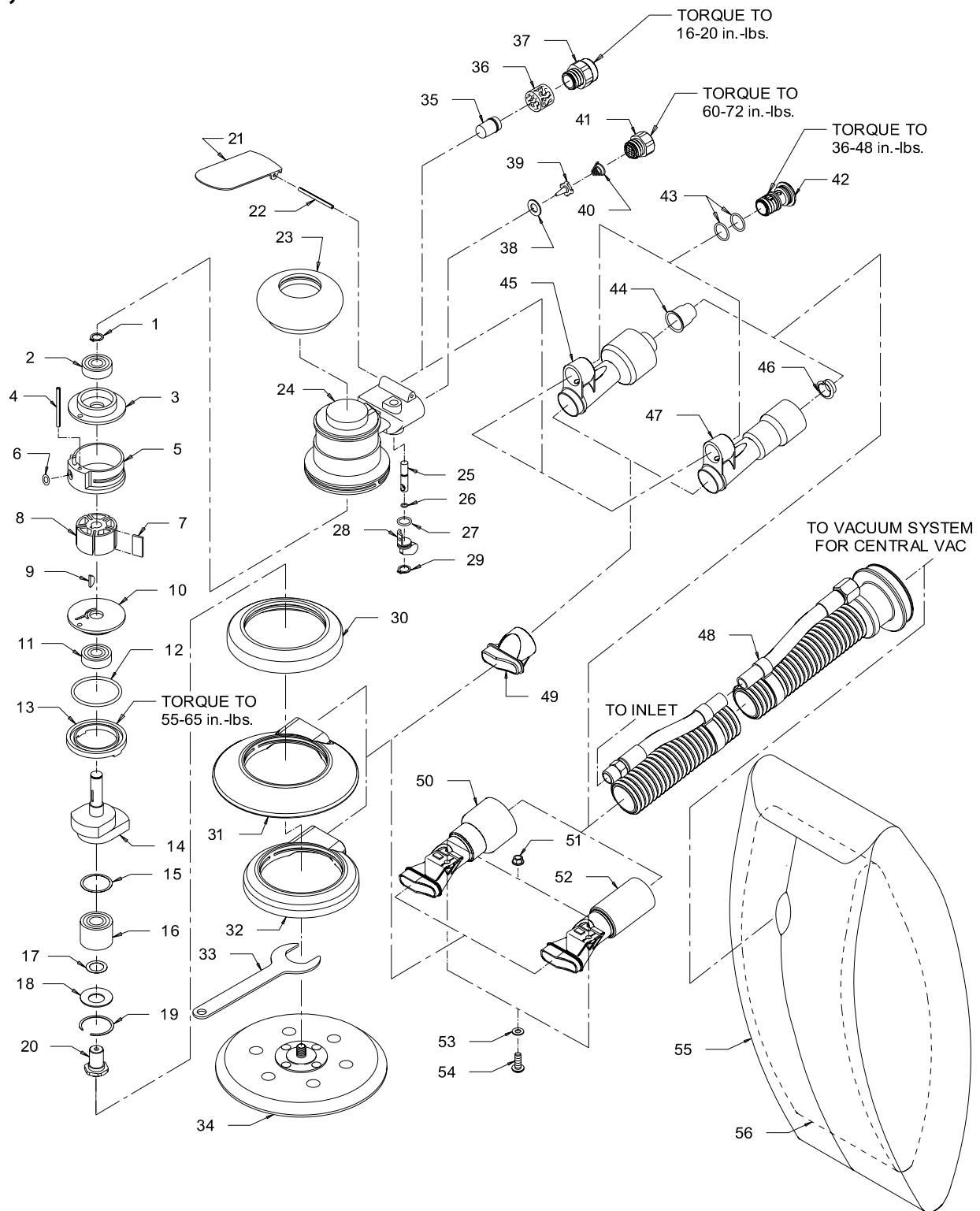
- 1) General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- 2) Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York, 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 Low Profile, 127 mm (5 in.) & 152 mm (6 in.) 12,000 RPM Random Orbital Sander



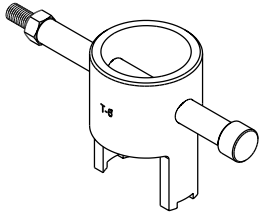
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Parts List			
ITEM	P/N	DESCRIPTION	QTY
1	ESA0400	RETAINING RING	1
2	ESA1200	BEARING	1
3	ESA5600	REAR ENDPLATE	1
4	ESA4000	PIN (included with item 5)	1
5	ESA7600	CYLINDER ASSEMBLY (includes item 4)	1
6	ESA2400	O-RING	1
7	ESA0100	VANE (5 are included with item 8)	5
8	ESA3600	ROTOR, VANES (Qty. 5) AND KEY SET	1
9	ESA1400	KEY (included in item 8)	1
10	ESA4600	FRONT ENDPLATE	1
11	ESA9100	BEARING	1
12	ESA5400	O-RING	1
13	ESA1000	LOCK RING	1
14	ESB9100	5 mm (3/16 in.) ORBIT SHAFT BALANCER FOR 127 mm (5 in.) PADS	1
	ESB0200	5 mm (3/16 in.) ORBIT SHAFT BALANCER FOR 150 mm (6 in.) PADS	
	ESB7200	2.5 mm (3/32 in.) ORBIT SHAFT BALANCER FOR 127 mm (5 in.) PADS	
	ESB8200	2.5 mm (3/32 in.) ORBIT SHAFT BALANCER FOR 150 mm (6 in.) PADS	
15	ESA7390	SHIM	1
16	ESA8390	BEARING	1
17	ESA6100	SHIM	1
18	ESA7100	WASHER	1
19	ESA8100	RETAINING RING	1
20	ESB8100	SPINDLE	1
21	ESA9750	LEVER FOR 12,000 RPM, 5 mm (3/16 in.) Orbit Machines	1
	ESA2850	LEVER FOR 12,000 RPM, 2.5 mm (3/32 in.) Orbit Machines	
22	ESA1300	PIN	1
23	ESA3490	65 mm (2 ½ in.) GRIP	OPT
	ESA4490	70 mm (2 ¾ in.) GRIP	1
	ESA5490	75 mm (3 in.) GRIP	OPT
24	ESA0490	HOUSING	1
25	ESA8000	VALVE STEM ASSEMBLY (includes item 26 O-ring)	1
26	ESA8900	O-RING (included with item 25 Valve Stem Assembly)	1
27	ESA3400	O-RING	1
28	ESB4100	SPEED CONTROL	1
29	ESA9300	RETAINING RING	1
30	ESA6490	127/150 mm (5/6 in.) NON-VAC SHROUD (std on NV machines)	1
31	ESC3700	SuperVAC SHROUD for the following 150 mm (6 in.) pads: Screen Abrasive and LP	1
32	ESC2100	SuperVAC SHROUD for the following 127 mm (5 in.) pads: Delta, TE, LP, Screen Abrasive and 150 mm (6 in.) TE	1
33	ESA2200	24 mm PAD WRENCH	1
34	2550100	127 mm (5 in.) LP YELLOW NV VINYL PAD	1
	2550101	127 mm (5 in.) LP YELLOW NV HOOK PAD	1
	2550110	127 mm (5 in.) LP YELLOW VAC VINYL PAD	1
	2550111	127 mm (5 in.) LP YELLOW VAC HOOK PAD	1
	2550300	127 mm (5 in.) TE YELLOW NV VINYL PAD	1
	2550301	127 mm (5 in.) TE YELLOW NV HOOK PAD	1
	2550310	127 mm (5 in.) TE YELLOW VAC VINYL PAD	1
	2550311	127 mm (5 in.) TE YELLOW VAC HOOK PAD	1
	2560100	152 mm (6 in.) LP YELLOW NV VINYL PAD	1

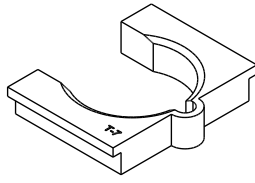
34	2560101	152 mm (6 in.) LP YELLOW NV HOOK PAD	1
	2560110	152 mm (6 in.) LP YELLOW VAC VINYL PAD	1
	2560111	152 mm (6 in.) LP YELLOW VAC HOOK PAD	1
	2560300	152 mm (6 in.) TE YELLOW NV VINYL PAD	1
	2560301	152 mm (6 in.) TE YELLOW NV HOOK PAD	1
	2560310	152 mm (6 in.) TE YELLOW VAC VINYL PAD	1
	2560311	152 mm (6 in.) TE YELLOW VAC HOOK PAD	1
35	ESA2600	BRONZE MUFFLER	1
36	ESA8600	MUFFLER	1
37	ESA6610	MUFFLER HOUSING	1
38	ESA9000	SEAT	1
39	ESA7000	VALVE	1
40	ESA4100	VALVE SPRING	1
41	ESA3100	INLET BUSHING	1
42	ESA6000	SGV RETAINER	1
43	ESA4400	O-RING	1
44	ESA8770	Ø 28 mm (1 in.) SuperVAC SGV SEAL (included in item 45)	1
45	ESA2411	Ø 28 mm (1 in.) SuperVAC SGV SWIVEL EXHAUST ASSY (Standard on SGV)	1
46	ESA4580	Ø 19 mm (3/4 in.) SuperVAC SGV SEAL (included in item 47)	OPT
47	ESA0411	Ø 19 mm (3/4 in.) SuperVAC SGV SWIVEL EXHAUST ASSY (Optional on SGV)	OPT
48	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
	ESA2930	Ø 28 mm (1 in.) VAC HOSE TO Ø 28 mm (1 in.) x Ø 38 mm (1 1/2 in.) FRICTION FIT ADAPTER & AIRLINE ASSY INCLUDES: ESA4300 Ø 28 mm (1 in.) x 1.8 m (6 ft.) Vacuum Hose, ESB2900 Ø 28 mm (1 in.) Hose Thread x Ø 38 mm (1 1/2 in.) Friction Fit Adapter, ESA3300 Ø 6.3 mm (1/4 in.) x 1.8 m (6 ft.) Airline with Fittings, ESA7200 Bungee for Ø 6.3 mm (1/4 in.) Airline & Ø 28 mm (1 in.) Vacuum Hose (5)	OPT
49	ESC8010	SuperVAC SGV SHROUD/SKIRT ADAPTER	1
50	ESA9900	SuperVAC CV Ø 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard on CV)	1
51	ESA8400	NUT	1
52	ESA5020	SuperVAC CV Ø 19 mm (3/4 in.) SWIVEL EXHAUST ASSEMBLY (Optional on CV)	OPT
53	ESA7400	WASHER	1
54	ESA9670	SCREW	1
55	ESC0110	VACUUM BAG (Standard on SGV)	1
56	ESC9010	VACUUM BAG INSERT (Standard on SGV)	1

EKASAND Service Tools and Accessories

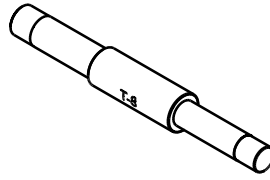
When an EKASAND LP ROS needs to be serviced, we offer a tool kit to make the disassembly/assembly fast and easy. The Service Tools are highly recommended for use with the Overhaul Service Kit. NOTICE: To receive any expressed or implied warranty, the tool must be repaired by an authorized EKASAND Service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



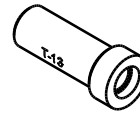
T-6 Motor Lock Ring
Wrench/Spindle Puller



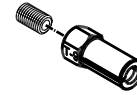
T-7 Soft Collar



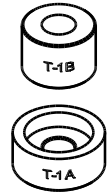
T-8 Motor Face Plate
Bearing Removal Tool



T-13 Bearing
Press Tool



T-9 Bearing
Puller



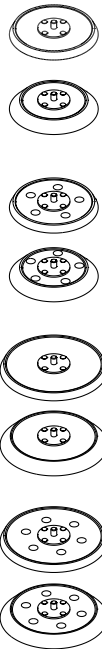
T-1 Bearing
Press Tool

ESA9740 Universal Service Tool Kit

EKASAND Back-Up Pads

EKASAND back-up pads are perfectly mated for use on the EKASAND LP. 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 LP.

Description	Part#
EKASAND 5" low profile, nv, vinyl face	2550100
EKASAND 5" low profile, nv, hook face	2550101
EKASAND 5" tapered edge, nv, vinyl face	2550300
EKASAND 5" tapered edge, nv, hook face	2550301
EKASAND 5" low profile, vac, vinyl face	2550110
EKASAND 5" low profile, vac, hook face	2550111
EKASAND 5" tapered edge, vac, vinyl face	2550310
EKASAND 5" tapered edge, vac, hook face	2550311
EKASAND 6" low profile, nv, vinyl face	2560100
EKASAND 6" low profile, nv, hook face	2560101
EKASAND 6" tapered edge, nv, vinyl face	2560300
EKASAND 6" tapered edge, nv, hook face	2560301
EKASAND 6" low profile, vac, vinyl face	2560110
EKASAND 6" low profile, vac, hook face	2560111
EKASAND 6" tapered edge, vac, vinyl face	2560310
EKASAND 6" tapered edge, vac, hook face	2560311



EKASAND Overhaul Service Kit

The ESA1311 EKASAND 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 Random 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.

ESA1311 Overhaul Service Kit Contents

ESA1311 Overhaul Service Kit Contents			
Item	Part No.	Description	Qty.
1	ESA0400	Retaining Ring	1
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
15	ESA7390	Shim	1
16	ESA8390	Bearing	1
25	ESA8000	Valve Stem Assembly Includes Item 25	1
27	ESA3400	O-Ring	1
29	ESA9300	Retaining Ring	1
35	ESA2600	Muffler (for NV and CV Machines)	1
36	ESA8600	Muffler	1
37	ESA6610	Muffler Housing	1
38	ESA9000	Seat	1
39	ESA7000	Valve	1
40	ESA4100	Valve Spring	1
NA	ESA7111	Overhaul Service Manual	1

EKASAND Warranty

All EKASAND Random 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 LP.

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 12,000 RPM 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.

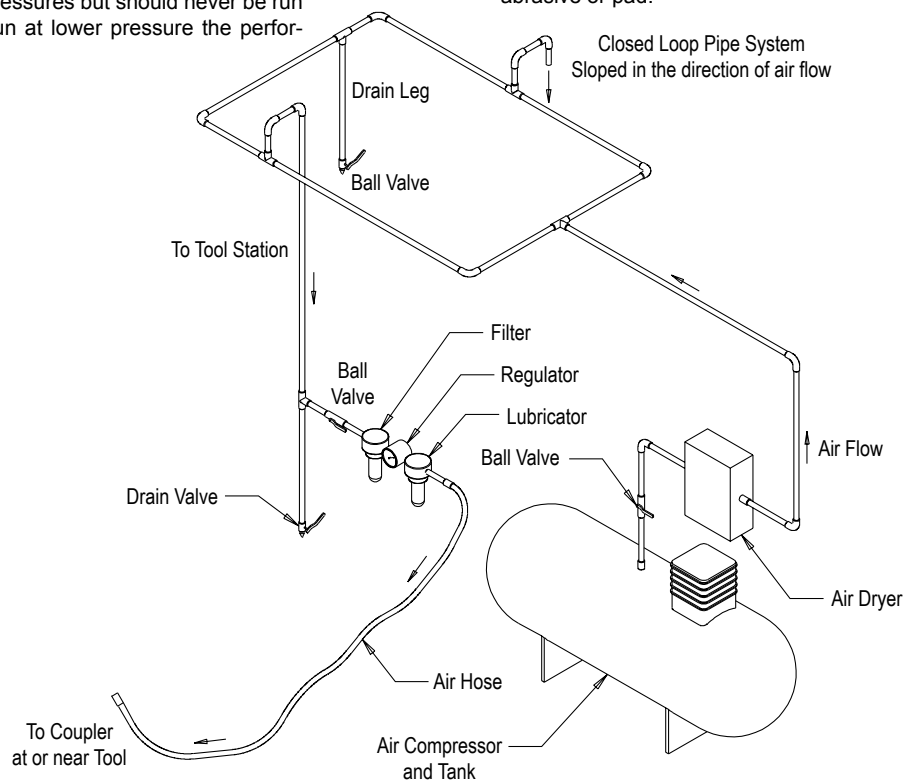


Figure 1