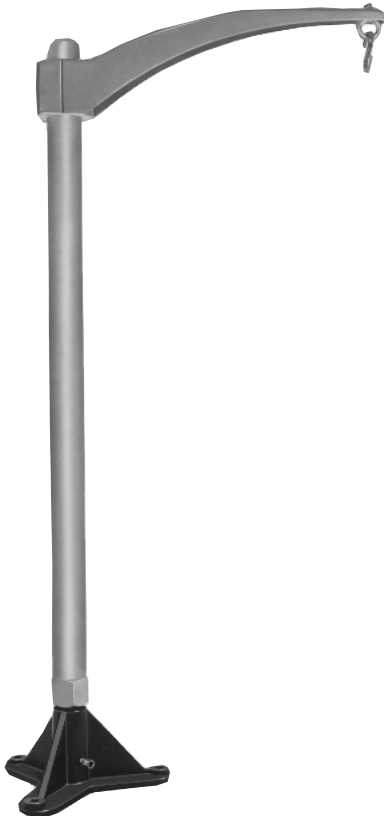


Balcrank®

**Air Operated Pump Lift
and Accessory Products
Model #4450-001
(includes Control Valve)**



Thoroughly read and understand this manual before installing, operating or servicing this equipment.

**OPERATION, INSTALLATION,
MAINTENANCE AND REPAIR GUIDE**

General Safety

Thoroughly read and understand this manual before installing, operating or servicing the described products.



IMPORTANT

Always remove the pump and relieve the air pressure to the lift, before maintaining or working on the lift.

Check equipment regularly and repair or replace worn and damaged parts.

Never alter or modify any parts of this Air Operated Lift, doing so may cause damage to lift and/or personal injury.

Never leave the lift unattended in the raised position without first blocking the pump, drum cover, lift arm and/or pump support bracket before working on the pump.

Always read and follow the fluid manufacturer's recommendations regarding the use of protective eye wear, clothing and respirators.



WARNING

Pressure Relief Procedure:

Follow this procedure whenever you shut off the pump, when checking or servicing any part of the system and when installing, cleaning or changing any part of the system.

- 1) Disconnect the air to the pump.
- 2) Point dispensing valve away from yourself and others.
- 3) Open dispensing valve until pressure is relieved.



CAUTION

Be careful not to dent or damage the riser tube during operation. Dents may cause the lift to operate roughly or make it impossible to operate.

Product Description

Single post lift for pumps having lift-eye attachments. Works with 120lb. and 400lb. drum sizes. Includes model 4451-001 valve for raising and to lower the air lift. This air lift, utilizing a roller bearing design for ease of rotation when mounted, is used to rotate a pump between three drums.

Installation

Mounting

1. Locate the air lift where there is at least 8 feet of overhead clearance. Mark and drill three holes for 1/2" mounting bolts.



CAUTION

Be sure the mounting surface is strong enough to support the pumps, the weight of the lubricants, and the stress caused by lifting these products off center.

2. Level the base using shims as needed, bolt base securely to the floor.

Air Valve Connections

1. Locate a convenient spot somewhere on your wall for mounting the air valve.

Note: A five foot supply hose is provided, for running your air supply from the air valve to the base of the lift.

2. Connect the main air supply to the inlet of the air valve.
3. Connect the five foot air supply hose to the outlet of the air valve.
4. Use the quick coupler provided to connect the hose to the base of the lift.

Operation



WARNING

Keep fingers and hands away from moving parts when raising and lowering the lift to prevent pinching and/or amputating them between the drum and pump mounting assembly.

Raise or lower the lift by opening or closing the air control valve. This control valve is designed to operate various lifting devices utilizing compressed air as a power source.

Note:

Maximum operating air pressure, 200 PSIG.

Parts List

ITEM	PART	DESCRIPTION	QTY.
1	812753	Cap	1
2	800361	O-ring, Buna-N	1
3	812749	Piston	1
4	805810	Ball, 1/4" Dia.	20
5	812750	V-packing	1
6	812746	Piston Tube	1
7	812751	Clamp - Support	1
8	828557	Bolt, 7/16-20	4
9	805841	Lock Washer, 7/16	4
10	805813	Nut, 7/16-20	4
11	813263	Arm	1
12	805939	Nut, 3/8-16	1
13	805756	Washer, 3/8"	1
14	808672	Eye Bolt, 3/8-16 x 7/8	1
15	813273	S-Hook	1
16	812748	Stop Tube	1
17	814355	Outer Cylinder	1
18	812747	Guide Nut	1
19	4451-001	Valve, Air	1
20	8132-005	Hose, Air, 3/8x5	1
21	3270-003	Coupler, Air, 1/4" NPT	1
22	811752	Nipple, Air, 1/4" NPT	1
23	812187	Adapter - Regulator	1
24	805941	Elbow, 90 deg. x 1/8" NPT	1
25	812744	Base	1
26	806804	Reducer	1

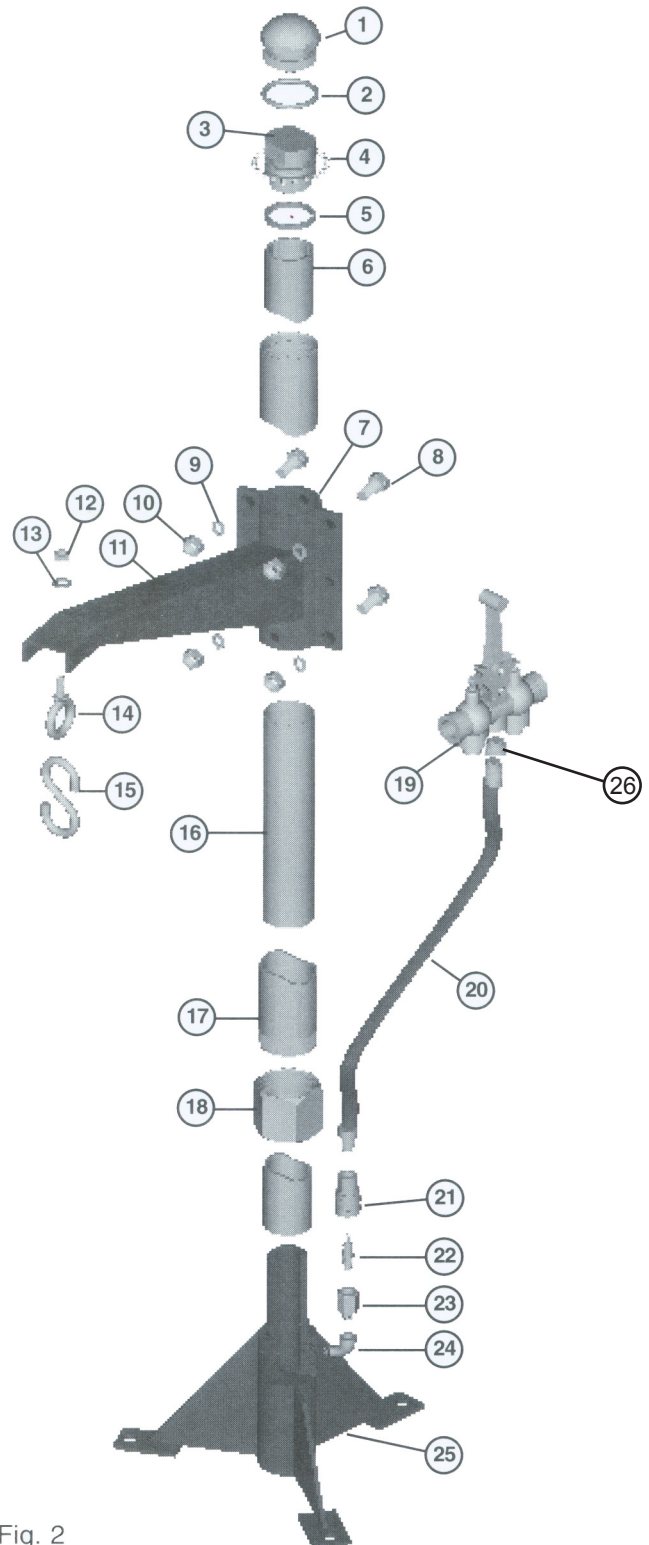


Fig. 2
Exploded View

Balcrank Lubrication Equipment Warranty Statement

All Balcrank equipment sold by authorized Balcrank distributors is warranted to their original customer to be free from defects in materials and workmanship for a period of one year from the date of sale to that customer. Selected Balcrank equipment carries warranty terms for a more extended period as defined in the Balcrank Lubrication Equipment & Accessories User Price List, wherein a "lifetime" warranty represents a warranty period of thirty years. Within the initial one-year warranty period, Balcrank will repair or replace all Balcrank equipment determined by Balcrank to have defective materials or workmanship. For equipment carrying more extended warranties, Balcrank will repair or replace the product including parts and labor during the first full year and will provide parts only for the remainder of the warranty period.

This warranty applies only to equipment installed and operated according to applicable Balcrank Service Bulletins and Installation Instructions.

Any equipment claimed to be defective must be returned, freight prepaid, to an Authorized Balcrank Service Center (ASC). Upon receiving candidate warranty equipment from a customer, ASC will: 1) diagnose to determine the warrantable condition of the equipment, 2) submit, prior to repair or replacement, a request to Balcrank for warranty authorization, then 3) in cooperation with Balcrank, proceed with repair locally or forward the equipment to Balcrank and obtain replacement. If the part(s) or equipment items are found defective upon inspection by Balcrank, they will be repaired or replaced, and then will be returned to the ASC. If Balcrank finds the claimed part(s) or equipment not to be defective, the ASC will receive written authorization from the original customer, and then repair them for a reasonable charge to the customer, which will include all applicable parts, labor, and return transportation costs.

Optionally, the customer may submit certain eligible products directly to Balcrank for warranty return by using Balcrank Lubrication Equipment Direct Service Warranty Procedure. Eligible products are defined in the Balcrank Lubrication Equipment & Accessories User Price List. Refer to the Balcrank web site www.balcrank.com for a copy.

Any equipment returned to Balcrank must have the Warranty Service Claim number (WSC#) clearly marked on the outside of the carton. Balcrank's sole responsibility is for defects in material and workmanship, and Buyer's sole and exclusive remedy hereunder, shall be limited to repair or replacement of the defective part or equipment.

This warranty does not cover, nor shall Balcrank be liable for repair or replacement of parts or equipment resulting from general wear and tear through use, or damage or failure caused by improper installation, abuse, misapplication, abrasion, corrosion, insufficient or improper maintenance, negligence, accident, alteration, or substitution of non-Balcrank parts.

Furthermore, the Warranty for Lubrication Equipment and Accessories does not cover the following specific conditions:

- Failure or damage to equipment caused by dirt or debris in compressed air lines and fluid lines. This includes, but is not limited to, clogged inlet filters, strainers, or regulators; fluid meters; control handles; fluid tips; and valves.
- Failure of normal wear parts including but not limited to: o-rings, packings, seals and valves unless originally improperly installed by the factory.
- Products placed in applications for which their use was not intended. Examples include but are not limited to Lubricant pump being used to pump solvents, or placing equipment intended strictly for indoor use outdoors
- Damage to equipment resulting from operation above and beyond Balcrank's recommendations.
- Leaks at air and fluid fittings and connections.
- Damage caused by thermal expansion whenever adequate pressure relief was not included in the system.
- Loose suction tubes on pumps.
- Incorrect hose reel spring tension, requiring adjustment.

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BALCRANK BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, OR OTHER DAMAGES OF SIMILAR NATURE, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST PRODUCTION, PROPERTY DAMAGE, PERSONAL INJURY, WHETHER SUFFERED BY BUYER OR ANY THIRD PARTY, IRRESPECTIVE OF WHETHER CLAIMS OR ACTIONS, LEGAL OR EQUITABLE, FOR SUCH DAMAGES ARE BASED UPON CONTRACTS, WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE. ANY CLAIM OR ACTION FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN TWO (2) YEARS FROM THE DATE OF SALE TO THE ORIGINAL CUSTOMER.

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