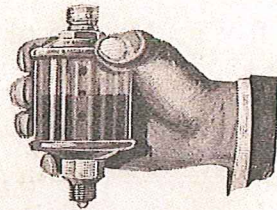


LOWER
PRODUCTION
COSTS *with*

ARCADIA
LUBRICATORS



ARCADIA

Trade Mark
Patented U. S. A.
and Foreign Countries

Manufactured By

ARCADIA LUBRICATOR COMPANY
LONG BEACH, CALIFORNIA

SIMPLIFIED
AUTOMATIC
LUBRICATION



A foreword—

to Plant Engineers & Executives

In this age of competition, production costs must constantly be cut down. Incorrect lubrication lies at the bottom of seventy-five per cent of plant machinery repairs.

For your convenience we have established branch offices in all the large cities where our special trained factory representatives are always available to confer with you on your lubrication problems.

ARCADIA LUBRICATOR CO.
1355 West Ocean Ave.
LONG BEACH, CALIF.



Automatically Operates



The New Simplified Lubricating System

THE ARCADIA LUBRICATING SYSTEM automatically feeds oil to bearings, while they are in operation. Each bearing is provided with a perfectly regulated supply of oil, lubricating it properly and keeping it cool.

Arcadia Lubricators are operated by the simple principle of the expansion and contraction of air. Any increase in temperature of the bearing is transmitted to the column of air in the lubricator, (see further explanation on next page) automatically expands the air and forces oil to the bearing.

After six years of thorough testing, under every conceivable circumstance and condition, this system has proven its adaptability, worth and reliability. Innumerable prominent engineers in this and foreign countries unqualifiedly recommend and endorse the adoption and installation of the system for the lubrication of all types of machinery.

Construction of Arcadia Lubricators

ARCADIA LUBRICATORS are substantially constructed of the finest quality of brass and glass. The top and bottom being stamped from sheet brass, the connections, filler tube, feed tube, and plug from solid hard drawn brass and the body of high grade heavy glass.

The upper inside portion of the lubricator forms an airtight reservoir. The central hollow stem with holes is the filler tube. The feed tube is placed in the center of the connection and extends upward. A plug is placed in the filler tube, about an eighth of an inch above the top of the feed tube, forming a well in the lower part of the feed tube which acts to regulate the degree of sensitivity of the lubricator.

More than a cup—It's a System





Principles of Operation of the Arcadia Lubricating System

THE Arcadia Lubricating System is operated automatically by natural forces—the expansion and contraction of air.

When a bearing equipped with the Arcadia Lubricator is in operation, any increase in the temperature of the bearing is transmitted through the metal of the cup and the body of oil to the air space above, which causes the air to expand, forcing the oil, drop by drop, onto the bearing; this in turn cools the bearing and the air in the cup contracts, stopping the flow of oil and drawing enough air up into the lubricator to replace the oil that was forced out.

This automatic feeding of oil to the bearing, while in operation positively eliminates all oil wastage.

Regardless of location, vibration or shaking of the bearing, the Arcadia Lubricator will operate efficiently on the top, side or bottom of a bearing.

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Incorrect Lubrication Is Chief Cause of Machinery Repairs

MECHANICAL engineers universally agree that shut-downs, burned-out bearings, and worn out parts are caused chiefly by incorrect lubrication.

The editor of a well-known machinery publication estimates incorrect lubrication to be the cause of 70 per cent of all repairs to plant machinery. Some plant engineers put the percentage as high as 80 or 90 per cent.



Cuts down Production costs



What Results Can Be Expected From This System?

1. Lower production costs
2. Saves 75% of lubricating oil
3. No adjustments—automatically operates
4. Less wear, repairs and shut-downs
5. Smoother running machinery
6. No waste oil—keeps machinery and floor clean
7. Decreases fire hazards
8. More continuous production at lower cost per unit
9. Labor saved in re-filling
10. It is more than a cup—

It's a System.

Who Uses and Endorses Arcadia Lubricators?

EXECUTIVES, engineers, or managers who desire specific or general information from users of Arcadia Lubricating Systems should obtain this information first hand from the institutions who have adopted, installed, and endorsed this System."

Instead of enumerating the companies who endorse this system of lubrication, suffice it to say, that the largest automobile manufacturing companies, oil producing and refining companies, laundry machinery manufacturers, and other well known industries on this continent and in foreign countries are using Arcadia Lubricators.

The names of companies will be furnished on request.



Ends lubrication troubles



Instructions For Checking Bearings For Automatic Lubricators

IN measuring up for Lubricators a few points should be taken into consideration. Taking a bearing 6 inches long, as the unit for shafts exceeding 1 inch in diameter, the following table will be found correct. If the bearing is not over 4 inches long, then the next smaller size Lubricator should be used. If the length of the bearing does not exceed 9 inches, two Lubricators of the next smaller size than that shown in the table should be used, and if over 9 inches and does not exceed 12 inches in length, two of the regular size Lubricators for that diameter of shaft is needed.

ARCADIA	Size Shaft	Length of Bearing
No. 1 Lubricator	1 1/2 in.	6 in. long
No. 2 Lubricator	2 1/2 in.	6 in. long
No. 3 Lubricator	3 1/2 in.	6 in. long
No. 4 Lubricator	4 in.	6 in. long
No. 5 Lubricator	5 in.	6 in. long
No. 6 Lubricator	6 in.	6 in. long

These Lubricators are furnished in 1/8-in., 1/4-in., 3/8-in. and 1/2-in. pipe connection, without extra charge.

Special Lubricators

Special connections can be furnished for applying Arcadia Lubricators to all special types of bearings. Only standard types are shown in this catalog. If for any reason the standard size or type of Lubricator cannot be used, special lubricators operating under the Arcadia principle can be furnished.

Slow Speed Bearing Lubricators

For slow speed bearings of 80 R.P.M or less, the next larger size Lubricator than that shown in the table, should be used. A heavy grade of oil is also recommended.

Ring or Chain Oilers

Ring or chain oiling bearings require a Lubricator on each side of the ring or chain, the size being governed by the chart above for each bearing.

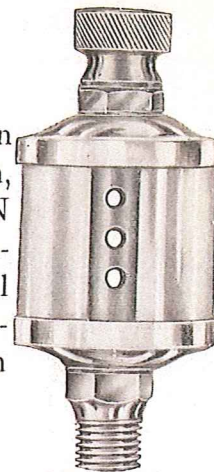


A lubricating system which pays for itself many times annually



Plain Lubricators

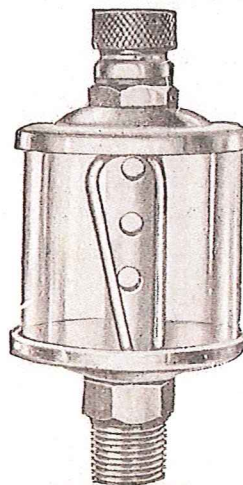
For general lubrication in the upright position, the standard PLAIN LUBRICATOR is adaptable for any and all machinery. These Lubricators are available in seven stock sizes.



Number 0

Size	Capacity	Diameter Shafts	Price
No. 0	3/4 oz.	3/4 in.	\$1.50
No. 1	1 1/2 oz.	1 1/2 in.	2.00
No. 2	2 1/2 oz.	2 1/2 in.	2.50
No. 3	4 oz.	3 1/2 in.	3.00
No. 4	7 oz.	4 in.	4.00
No. 5	10 oz.	5 in.	4.75
No. 6	32 oz.	6 in.	16.00

Crank Pin Lubricators



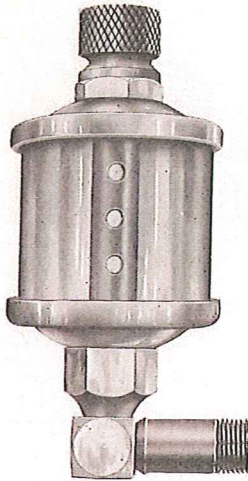
Number 100

The Crank Pin Lubricator is especially adapted for use on steam engine and internal combustion engine crank pins. The constant motion of the crank pin requires a special cup which will deliver oil whenever needed. The operation of this Lubricator is exactly the same in principle as the plain cup. The addition of a small brass tube, in the shape of a horseshoe, delivers the oil to the feeder, even under the handicap of the rapid jerking motion of the crank.

Size	Capacity	Diameter Shafts	Price
No. 100	3/4 oz.	3/4 in.	\$2.00
No. 101	1 1/2 oz.	1 1/2 in.	3.00
No. 102	2 1/2 oz.	2 1/2 in.	3.50
No. 103	4 oz.	3 1/2 in.	4.00
No. 104	7 oz.	4 in.	5.00
No. 105	10 oz.	5 in.	5.75
No. 106	32 oz.	6 in.	17.00



Side Feed Lubricators



Number 200

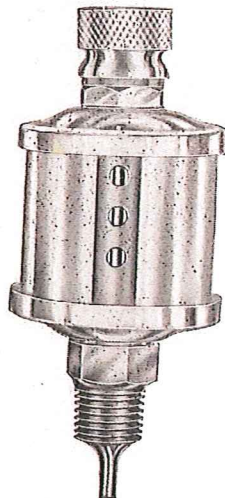
In cases where the bearing must be lubricated from the side, this Lubricator, which operates the same in principle as the Plain Lubricator, should be used.

Size	Capacity	Diameter Shafts	Price
No. 200	¾ oz.	¾ in.	\$2.25
No. 201	1½ oz.	1½ in.	2.75
No. 202	2½ oz.	2½ in.	3.25
No. 203	4 oz.	3½ in.	3.75
No. 204	7 oz.	4 in.	4.75
No. 205	10 oz.	5 in.	5.50
No. 206	32 oz.	6 in.	16.75

Loose Pulley Lubricators

The Arcadia Loose Pulley Lubricator has met the long felt need of a lubricator that will operate on a rapidly revolving loose pulley. A feeder tube enclosed in the main tube conveys oil to the bearing. The centrifugal action of the pulley inverts the column of oil in the Lubricator. Operation is controlled by the Arcadia principle.

A small piece of packing should be wrapped around the extended feeder tube in order to hold oil continually on the bearing.



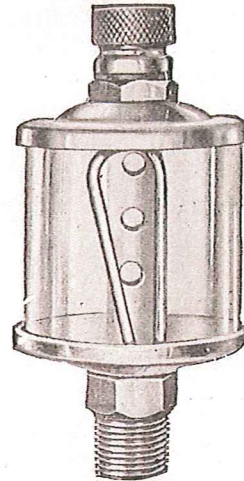
Number 400

Size	Capacity	Diameter Shafts	Price
No. 400	¾ oz.	¾ in.	\$2.00
No. 401	1½ oz.	1½ in.	2.50
No. 402	2½ oz.	2½ in.	3.00
No. 403	4 oz.	3½ in.	3.50
No. 404	7 oz.	4 in.	4.50
No. 405	10 oz.	5 in.	5.25
No. 406	32 oz.	6 in.	17.00

Less stopping to "oil up"



High Heat Lubricator



Number 500

The High Heat Lubricator is especially adapted for use on bearings which receive heat from external sources. (Such as steam rolls) Flat Work Ironers used in laundries are good examples.

The addition of a small brass tube in the shape of a horse shoe retards the flow of oil and is used to offset the high increase in temperature from external sources. This Lubricator was originally designed for various types of steam heated laundry machinery. It is used extensively on other types of machinery

operating under similar conditions. By eliminating a surplus of oil it keeps the machine and product clean. Heavy grade oil should be used.

NOTE: For other types of High Heat Lubricators see Page 9.

Size	Capacity	Diameter Shafts	Price
No. 500	¾ oz.	¾ in.	\$2.00
No. 501	1½ oz.	1½ in.	3.00
No. 502	2½ oz.	2½ in.	3.50
No. 503	4 oz.	3½ in.	4.00
No. 504	7 oz.	4 in.	5.00
No. 505	10 oz.	5 in.	5.75
No. 506	32 oz.	6 in.	17.00

How to Fill Lubricators

In filling an air tight Lubricator it is of course necessary that a passage be left free for the escape of air during the process of filling. To obtain the maximum filling speed, use an oil can with a small spout. Insert the spout into the filler tube, so that the end is below the top hole (or top of the hole) in the filler tube. This prevents the upper part of the filler tube being blocked with oil, and allows a free passage for air to escape out of the Lubricator when being filled.

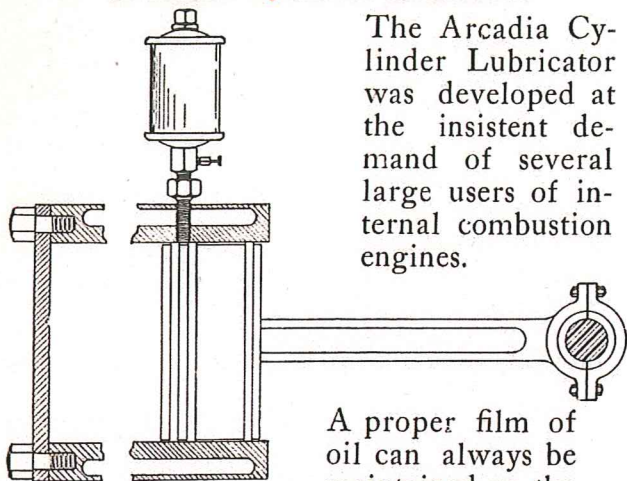
If heavy cylinder oil is used, it is strongly recommended that it be heated before filling.

Cuts down repair bills





Arcadia Cylinder Lubricator



The Arcadia Cylinder Lubricator was developed at the insistent demand of several large users of internal combustion engines.

A proper film of oil can always be maintained on the cylinder walls with this lubricator, if it is placed at a point on the cylinder between the first and second rings, when the piston is at the end of its stroke opposite the firing end.

Experiments have proven that a certain force or impulse passes the piston rings from the firing chamber. The Lubricator receives these impulses, which are communicated through feed pipes to an airtight body within the Lubricator, which in turn expands and delivers the oil automatically as it is required to the cylinder.

Owing to the many differences in lubrication requirements of various types of cylinders, a needle valve is provided for the initial adjustment when the Lubricator is installed. Any variations in oil requirements are thereafter automatically taken care of by the Lubricator.

Size	Capacity	Price
No. 602	2½ oz.	\$6.00
No. 603	4 oz.	7.00
No. 604	7 oz.	8.00
No. 605	10 oz.	10.00
No. 606	32 oz.	20.00



The first cost is the last



Artificially Heated Bearings B and C Type Lubricators

For all such bearings the regular HIGH HEAT LUBRICATOR as shown on Page 7 is generally used.

Occasionally a bearing is subjected to an exceptionally high increase in temperature from external sources. In such cases a special high heat lubricator in standard sizes known as the B Type, High Heat Lubricator is available. This Lubricator will take care of bearings with temperatures up to approximately 200 degrees.

If required, special C Type, High Heat Lubricators can be furnished for external temperatures higher than 200 degrees.

Instructions and Special Points

1. KEEP CAP ABSOLUTELY AIR TIGHT. Arcadia Lubricators must be kept air tight, because they are operated by the expansion and contraction of air in the lubricator.
 2. NO ADJUSTMENTS NECESSARY. All Lubricators operate automatically.
 3. FILL ONLY 3-4 FULL. Air space must always be left above the oil to operate Lubricator.
- BEARINGS WARM UP WHEN LUBRICATOR IS FIRST USED—When the lubricator is first placed on a bearing, sometimes the bearing has a tendency to warm up the first 24 hours. A good plan is to only fill the lubricator half full when first installed.

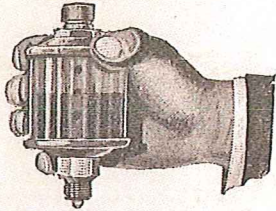
GRADE OF OIL—Bearings sometimes run hot, where all conditions, such as alignment, fit, etc., are perfect. This is caused most generally by the use of too thin an oil. Instead of getting all the use possible out of the oil, the oil runs off of the bearing, before it is used. This is the case sometimes, where a heavy duty bearing squeezes the oil out, also in hot countries in the summer time. A good plan is to use a heavy grade of oil on heavy duty slow speed bearings, and on small high speed bearings, use a thin oil.



The New Lubrication System

PRICE LIST
OF
ARCADIA
LUBRICATORS

*"More than an oil cup—
It's a System"*



ARCADIA
Trade Mark

Patented Nov. 30, 1915; Feb. 28, 1922; Feb. 28, 1922
Other Patents Pending

Manufactured by

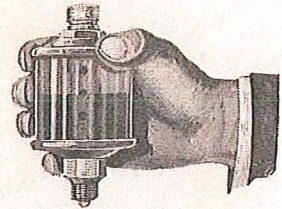
ARCADIA LUBRICATOR CO.
LONG BEACH, CALIFORNIA

Factory Representative

Wells Press, Long Beach

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