

# Constant Level Oilers

## OIL-RITE SERVICE TO DESIGN AND PLANT ENGINEERS

Whether you are seeking the proper lubrication equipment for a machine still in the design stage, or for machinery already in use, Oil-Rite can help you. Oil-Rite engineers, with all their accumulated knowledge and skills, will study your lubrication problem and help you select precisely the right equipment for your individual application. There's no obligation.

### CAPACITY SELECTOR GUIDE-DROP FEED OILERS

The selection of reservoir capacity for drop feed oilers should take into consideration:

1. Number of drops per minute to be dispensed.
2. Desired interval between refill.
3. Number of feed outlets in case of multiple oilers.
4. Continuous or intermittent operations.

Table 1 serves as a guide and permits selection of a reservoir for individual needs.

**TABLE 1**

Number of drops per minute	Reservoir capacity in fluid oz.*			
	1 hour	8 hours	24 hours	5 days
1	.11	.9	2.8	14
2	.23	1.8	5.5	28
3	.34	2.8	8.3	41
5	.57	4.6	14.0	69
7	.80	6.4	19.0	96
10	1.15	9.2	28.0	138
15	1.72	14.0	41.0	207
20	2.30	18.0	55.0	275
25	2.87	23.0	69.0	344
30	3.44	28.0	83.0	413

\*based on liquid drops of 3/16 dia.

Most drop feed oilers usually deliver drops of approximately 3/16 dia. Smaller or larger drops will, of course, necessitate a decrease or increase of the reservoir capacity given in Table 1. To obtain the proper reservoir capacity for 1/8 dia. or 1/4 dia. drops, simply multiply the ounce capacity shown in Table 1 with the respective multiplier given in Table 2.

**TABLE 2**

Diameter of drops	Number of drops in 1 fluid oz.	Multiplier
1/8	1765	.0296
3/16	523	1.
1/4	221	2.37

**TABLE 3-LIQUID MEASURE**

1 U.S. gal.	= 128 fluid oz.	= 231 cu. in.
	= 4 quarts	= 8 pints
	= 3.785 liters	= 3785 c.c.
1 Fluid oz.	= 1.805cu. in.	= 29.57c.c.
1 Cubic in.	= 16.39 c.c.	= .554 fluid oz.
1 Liter	= 1000 c.c.	
	= .264 U.S. gal.	= 1.057 quarts
	= 61.023 cu. in.	= 33.814 fluid oz.

### CONSTANT LEVEL LUBRICATOR WITH LOW LEVEL SAFETY SWITCHES

will maintain a fixed liquid level within the bearing housing, vital in protecting bearings from failure and preventing possible machine breakdown due to insufficient lubrication. A safeguard against loss of lubricant is provided by a low level safety switch. The low level switch can be used to actuate warning devices or shut off a machine, thus protecting costly machinery.

Operation is based on the liquid seal principle. Whenever the liquid level recedes below the set level because of liquid consumption, the liquid seal on the spout, inside the lubricator, is temporarily broken. This allows air from the air intake to enter the reservoir, releasing the liquid until a seal and proper level are again established.

To refill unit, remove reservoir cap. An automatic shutoff will hold the liquid supply in the reservoir while refilling. After filling, screw cap on tightly and lubricator will resume normal functioning.

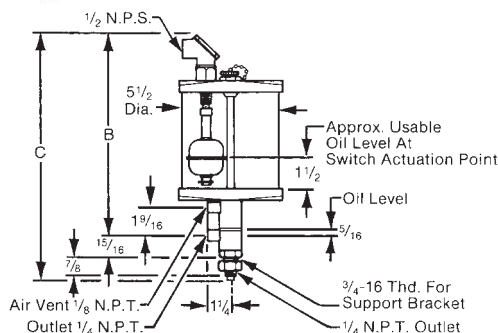


#### SPECIFICATIONS:

- Pressure Atmospheric Pressure
- Temperature 160° F. Max.
- Reservoir Acrylic
- Seals Buna-N
- Covers Aluminum Alloy
- Body Aluminum Alloy
- Level Switch Stainless Steel

#### When Ordering Specify:

- Catalog Number



Catalog Number	Capacity	B	C
* B-2443-1	1/2 GAL.	13 1/8	15 7/16
* B-2443-2	1 GAL.	18 1/8	20 7/16

Reed Switch Magnetically Actuated Normally Open  
Max. Resistance Load  
120 Volt A.C. .4A.  
240 Volt A.C. .2A.  
480 Volt A.C. N/R  
24 Volt D.C. .5A.  
120 Volt D.C. .2A.  
240 Volt D.C. .1A.

\* Special - Please Consult Factory

NOTE: For safety, long life, and best performance use this liquid level switch with Oil-Rite relay No. A-3160, A-3138 or A-4621 (see page 72) having a D.P.D.T. switch for 10 AMPS 115 Volts 60 Hertz.

# Constant Level Oilers

**CONSTANT LEVEL OILERS** are built to give long, trouble free service. The finest materials and workmanship are incorporated throughout. They will maintain a fixed liquid level in a bearing housing or gear box.

When the liquid in the bearing recedes because of liquid consumption, the liquid seal on the inside of the lubricator is temporarily broken. This allows air from the air intake to enter the lubricator reservoir, releasing the liquid until a seal and proper level are again established.

The Style CS Constant Level Oiler is identical in design to Style C with two exceptions. A large sight for viewing the liquid level and condition of the liquid is provided, plus there are larger liquid outlets for rugged, heavy duty installations.

For reference, a liquid level line is scribed on the base. Units are easily refilled through a top filler cap. The reservoir need not be removed for refilling. A shutoff valve holds the liquid in the reservoir when the filler cap is removed. After the

cap is screwed down again, the lubricator resumes normal functioning.

An air vent is supplied which can be piped back to the bearing or gear box thereby equalizing any existing pressure or vacuum. The reservoir is crystal clear glass or shatterproof acrylic permitting the liquid supply to be visible at all times.

## SPECIFICATIONS:

- Pressure Atmospheric Pressure
- Temperature 160° F. Maximum Acrylic  
225° F. Maximum Pyrex
- Reservoir Acrylic or Pyrex
- Seals Buna-N
- Sight Glass
- Covers Aluminum Alloy
- Body Aluminum Alloy

## When Ordering Specify:

- Catalog Number



Style C



Style CS

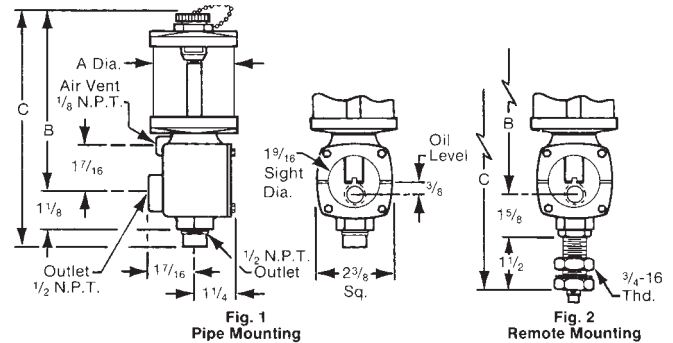
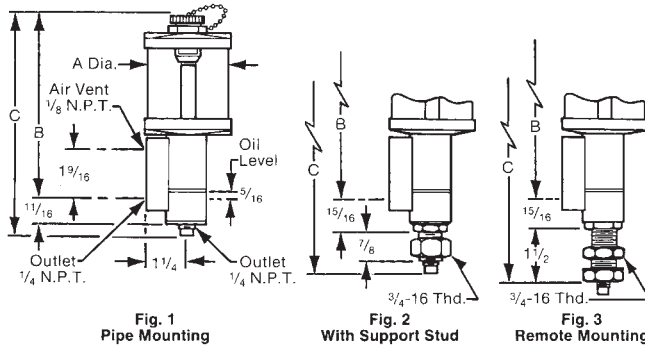


Fig.	Catalog Number		Capacity	A	B	C
	Acrylic	Pyrex				
1	B-518-1	B-518-11	2 1/2 OZ.	2	5 3/16	6 3/8
	B-518-2	B-518-12	5 OZ.	2 1/2	5 11/16	6 7/8
	B-518-3	B-518-13	9 OZ.	3	6 1/2	7 11/16
	B-518-4	B-518-14	1 PT.	3 1/2	7 1/2	8 11/16
2	B-518-5	B-518-15	1 QT.	4 1/4	8 3/4	11 1/16
	B-518-6	B-518-16	1/2 GAL.	5 1/2	10 3/4	13 1/16
	B-518-7	—	1 GAL.	5 1/2	15 3/4	18 1/16
3	B-543-1	B-543-11	2 1/2 OZ.	2	5 3/16	7 5/8
	B-543-2	B-543-12	5 OZ.	2 1/2	5 11/16	8 7/8
	B-543-3	B-543-13	9 OZ.	3	6 1/2	8 15/16
	B-543-4	B-543-14	1 PT.	3 1/2	7 1/2	9 15/16
	B-543-5	B-543-15	1 QT.	4 1/4	8 3/4	11 3/16
	B-543-6	B-543-16	1/2 GAL.	5 1/2	10 3/4	13 3/16
	B-543-7	—	1 GAL.	5 1/2	15 3/4	18 3/16

Fig.	Catalog Number		Capacity	A	B	C
	Acrylic	Pyrex				
1	B-576-1	B-576-11	2 1/2 OZ.	2	5 1/4	7 1/16
	B-576-2	B-576-12	5 OZ.	2 1/2	5 3/4	7 9/16
	B-576-3	B-576-13	9 OZ.	3	6 9/16	8 3/8
	B-576-4	B-576-14	1 PT.	3 1/2	7 9/16	9 3/8
	B-576-5	B-576-15	1 QT.	4 1/4	8 13/16	10 5/8
	B-576-6	B-576-16	1/2 GAL.	5 1/2	10 13/16	12 5/8
	B-576-7	—	1 GAL.	5 1/2	15 13/16	17 5/8
2	B-737-1	B-737-11	2 1/2 OZ.	2	5 1/4	8 3/8
	B-737-2	B-737-12	5 OZ.	2 1/2	5 3/4	8 7/8
	B-737-3	B-737-13	9 OZ.	3	6 9/16	9 11/16
	B-737-4	B-737-14	1 PT.	3 1/2	7 9/16	10 11/16
	B-737-5	B-737-15	1 QT.	4 1/4	8 13/16	11 15/16
	B-737-6	B-737-16	1/2 GAL.	5 1/2	10 13/16	13 15/16
	B-737-7	—	1 GAL.	5 1/2	15 13/16	18 15/16

\* Special - Please Consult Factory



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