

INTRODUCTION TO CONSTANT LEVEL LUBRICATION

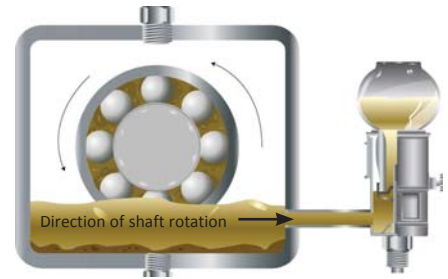
Constant level oilers are designed to maintain a predetermined oil level in a sump, which is necessary for proper lubrication. If the oil level were to drop below this point, the depleted oil would automatically be replenished by the lubricator, returning it to its original level. With the use of constant level oilers, maintenance efficiencies can be increased, while minimizing maintenance costs, and the loss of production time.

The majority of constant level oilers available are adjustable, allowing for use in many applications. However, there are oilers available that do not allow for fluid level adjustability, eliminating potential installation errors. Typically, constant level oilers are mounted on the side of the equipment facing the direction of shaft rotation. Some oilers allow for bottom mounting, on the oil sump, which prevents the oiler from misfeeding during applications that contain currents and turbulence formed by slinger rings, discs, and high rotating speeds.

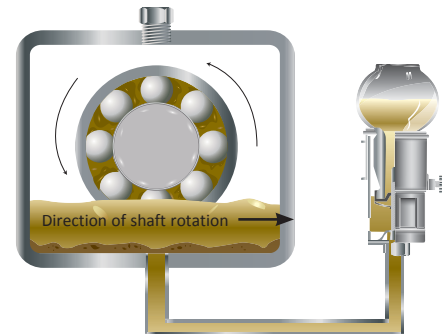
In most cases constant level oilers are vented to the outside atmosphere to work properly. Since these oilers are vented to the atmosphere, especially in harsh, dirty environments, contaminants are allowed to enter the lubricating oil. These contaminants are in the forms of moisture and/or particulate which are extremely damaging to oil and equipment life.

In order to combat the potential for oil contamination, the closed system oiler was developed. These oilers are effective in minimizing and eliminating the ingress of contaminants into the oil sump, especially in dirty environments. Some closed system oilers contain a pressure balancing line, which is connected from the headspace of the oil sump to an air chamber built into the surge body of the oiler. This air chamber is sealed from the outside atmosphere in order to prevent the ingress of contaminants. Additional types of closed system oilers are available that mount directly on the centerline of the oil level to be maintained. The exchange of air between the oil sump and the oiler is at the oilers base, which is mounted directly to the oil sump.

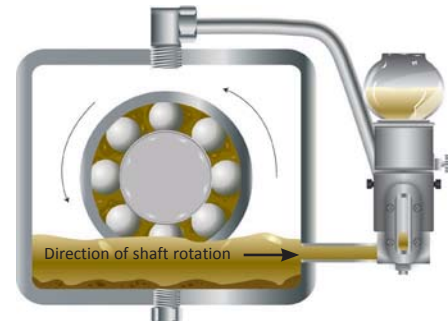
Several different types of constant level oilers are available to meet specific application needs, whether it is vented or non-vented, adjustable or nonadjustable they are an easy and effective method of maintaining proper oil level in equipment.



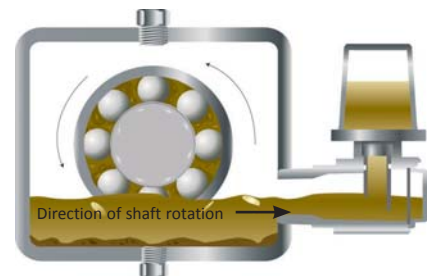
Vented constant level oiler with side connection



Vented constant level oiler with bottom connection



Closed system oiler with pressure balancing line



Closed system oiler mounted on center line of desired oil level



OPTO-MATIC® CONSTANT LEVEL OILERS



Opto-Matic Oilers provide an inexpensive method to automatically maintain a constant level of oil in a pump bearing housing, gear box, or other oil sump applications. Throughout processing industries, the Opto-Matic Oiler is the industry standard. Different reservoir capacities allow use in many applications.

Stainless steel models provide long life in corrosive environments in the chemical, pulp and paper, and mining industries.

FEATURES

- One piece glass reservoir ensures proper constant level function. Compared to competitive models, there is no possibility of air leakage that would cause overflowing of the bearing housing.
- Adjustable level setting allows use in many applications
- Multiple air vent slots provide for proper functioning at all times
- Large surge chamber helps prevent overflow of oil during machine start-up or shut-down
- Side and bottom connections for simplified installation

WIRE GUARDS

Wire guards are ordered separately and are customer installed.

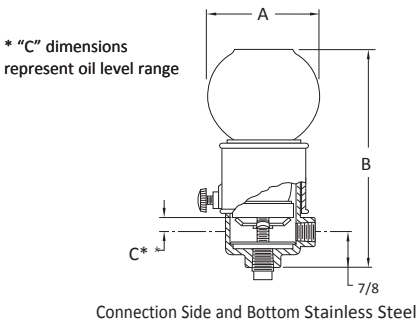
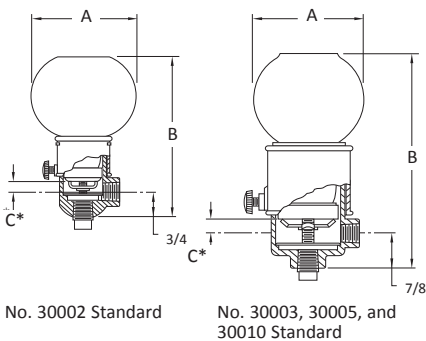


Model No. Standard	Model No. Stainless Steel	Description
30012	—	2-1/2 oz. Guard
30013	30313	4 oz. Guard
30016	30315	8 oz. Guard
30020	30320	16 oz. Guard

SPECIFICATIONS

	Standard	316 Stainless Steel
Max. Operating Temp.	250°F Continuous	
Reservoir	One-Piece Glass Bottle	
Casting	Zinc	316 Stainless
Finish	Zinc/Chromate Plate	Passivated
Internal Parts	Zinc Plated Steel	
O-ring	Viton®	

Viton® is a registered trademark of Du Pont Dow Elastomers.



* "C" dimensions represent oil level range

SELECTION CHART—STANDARD

Model No.	Capacity	Connection (NPT)	Dimensions (in.)				
			A	B Min.	B Max.	C Min.	C Max.
30002	2-1/2 oz.	1/4	2-1/2	3-15/16	4-1/4	11/32	9/16
30003	4 oz.	1/4	2-11/16	5	5-3/4	9/32	1
30005	8 oz.	1/4	3-3/16	5-15/16	6-11/16	9/32	1
30010	16 oz.	1/4	4-1/8	6-13/16	7-9/16	9/32	1

* Metric thread sizes available. Add "-M" to part number for 1/4 BSPT connection port.

SELECTION CHART—316 STAINLESS STEEL

Model No. With Side & Bottom Connect	Capacity	Connection (NPT)	Dimensions (in.)				
			A	B Min.	B Max.	C Min.	C Max.
30213	4 oz.	1/4	2-11/16	4-15/16	5-11/16	9/32	1
30215	8 oz.	1/4	3-3/16	5-7/8	6-5/8	9/32	1
30220	16 oz.	1/4	4-1/8	6-3/4	7-1/2	9/32	1

* Metric thread sizes available. Add "-M" to part number for 1/4 BSPT connection port.

See Spectrum Opto-Matic Collars on page H10 for color coding options.



OPTO-MATIC® CONSTANT LEVEL OILERS

Opto-Matic Oilers provide a constant level of oil in a pump bearing housing, gear box, or other oil sump applications. Different reservoir capacities allow use in many applications.

“LS”, “EH”, and “EHB” models have a large surge chamber to minimize potential of leakage during oil surge conditions.

FEATURES

- High strength, transparent, ribbed plastic reservoir provides long life and impact resistance
- Adjustable level setting allows use in many applications
- Multiple air vent slots provide for proper functioning at all times
- Large surge chamber (LS, EH, and EHB models) prevents overflow of oil during machine start-up or shut-down
- Side and bottom connections for simplified installation



SPECIFICATIONS

Max. Operating Temp.	165°F Continuous
Reservoir	Butyrate Plastic
Casting	Zinc Die Cast
Finish	Bright Zinc Plated
Internal Parts	Zinc Plated Steel

SELECTION CHART—E, EB

Model No.		Capacity	Connection (NPT)	Dimensions (in.)				
E	EB			A	B Min.	B Max.	C Min.	C Max.
30052	30062	2 oz.	1/4	1-15/16	3-7/8	4-3/8	1/4	3/4
30054	30064	4 oz.	1/4	2-5/16	4-9/16	5-1/16	1/4	3/4
30058	30068	8 oz.	1/4	2-5/8	5-11/16	6-3/16	1/4	3/4

* Metric thread sizes available. Add “-M” to part number for 1/4 BSPT connection port.

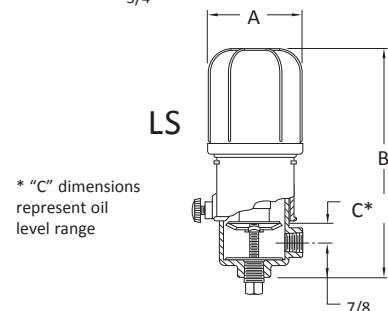
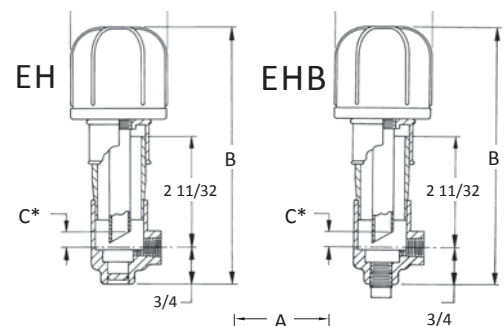
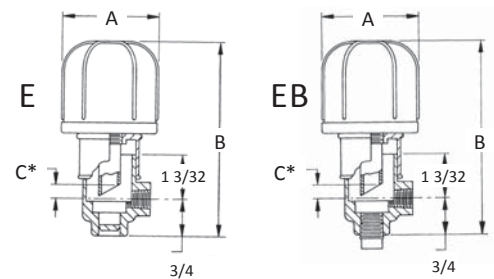
SELECTION CHART—EH, EHB (large surge chamber)

Model No.		Capacity	Connection (NPT)	Dimensions (in.)				
EH	EHB			A	B Min.	B Max.	C Min.	C Max.
30072	30082	2 oz.	1/4	1-15/16	5	5-1/2	1/4	3/4
30074	30084	4 oz.	1/4	2-5/16	5-11/16	6-3/16	1/4	3/4
30078	30088	8 oz.	1/4	2-5/8	6-13/16	7-5/16	1/4	3/4

SELECTION CHART—LS (large surge chamber)

Model No.		Capacity	Connection (NPT)	Dimensions (in.)				
A	B Min.			B Max.	C Min.	C Max.		
30024	4 oz.	1/4	2-5/16	5-7/16	6-3/16	9/32	1	
30028	8 oz.	1/4	2-5/8	6-9/16	7-5/16	9/32	1	

* Metric thread sizes available. Add “-M” to part number for 1/4 BSPT connection port.



* “C” dimensions represent oil level range



See Spectrum Opto-Matic Collars on page H10 for color coding options.