

## Constant Level Oiler

### Description

The oiler maintains a constant lubricant level in a bearing housing or gearbox, automatically making up lubricant usage from its back-up reservoir.

### Benefits

- Adjustable to allow fine tuning of the ultimate lubricant level
- Reliably eliminates risks and hazards inevitable with manual oiling methods such as lubricant spillage and guesswork when topping up
- Maintains cleanliness of the lubricant giving longer component life
- Reservoir in easy to view glass or plastic
- The transparent reservoir shows immediately the back-up volume available at any time
- Reduces maintenance costs by increasing the periods between inspection and replenishments
- Prevents overfilling which could cause overheating or mechanical damage to bearings / gears.



### Operation

The oiler is based on the simple air compensation principal. As the oil level in the bearing falls, the level in the body of the oiler also falls. This fall in level uncovers the bottom of the chamfered feed tube of the oiler and air is admitted into the oil reservoir. An equivalent amount of oil is permitted to escape from the reservoir down the oil feed tube to the body of the oiler, restoring the pre-set oil level and sealing off the air feed tube. This sequence is repeated whenever the level of the oil in the bearing or sump fall and will continue until the reservoir is empty. The clear transparent reservoir allows the level of oil remaining in the reservoir to be monitored and replenished before this occurs.

### Specification

The standard constant level oiler's body is made in brass and has 1/4" BSP side and bottom entry ports. Alternative designs of oilers are available with API threads, dust/moisture skirts, balance tubes for sub-atmospheric environments and with a top entry plug for direct mounting into a reservoir or sump. These are shown overleaf.

A 100 or 250 ml transparent reservoir can be supplied in glass. A 250 ml or 500 ml polythene reservoir is also available. A wire cage, which clamps onto the adaptor cap, can be used to protect the reservoir. The oiler is suitable for use with mineral lubricating oil with a viscosity that will flow through the feed tube and allow air bubbles to rise. If high viscosity lubricants or those with high tackiness additives are planned to be used, we will be pleased to carry out tests.

The operating temperature range is -10°C to +60°C.

Denco Lubrication Ltd, Ramsden Court, Ramsden Road,  
Rotherwas Industrial Estate, Hereford, HR2 6LR.  
Tel: +44 (0)1432 365000 Fax: +44 (0)1432 365001  
Web: [www.bijurdelimon.com](http://www.bijurdelimon.com)

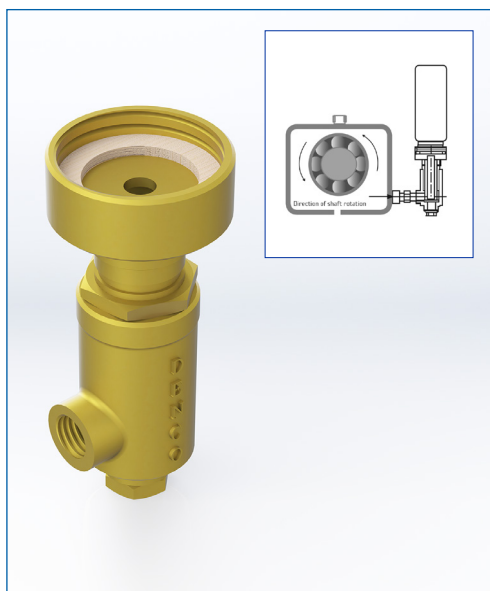


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## Oiler Models and Dimensions

### 1. Standard Oilers for Clean, Dry Conditions:



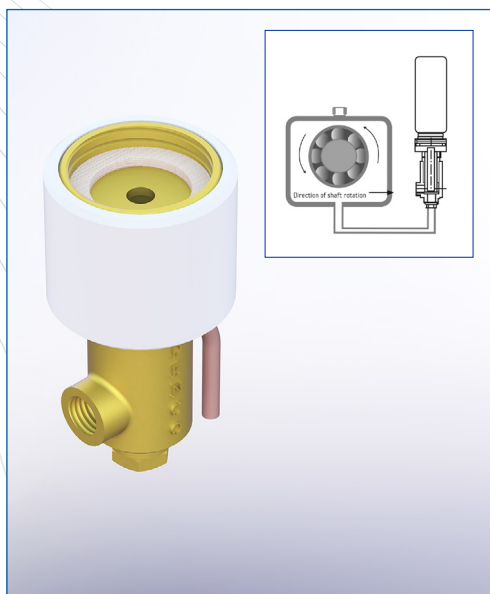
Model	Description	Code No.
Series N	Brass body and adaptor with 1/4" BSP threads	38010
Series R	Brass body and adaptor with 1/4" API threads	38011

#### Applications

The standard models are for use in all applications where normal atmospheric pressure exists within the plant or machinery.

If sub-atmospheric pressure is present, series Q or S models should be used. Connection to the bearing housing or gearbox can be made via the side or bottom ports.

### 2. Oilers for Use in Dirty or Wet Environments:



Model	Description	Code No.
Series L	Brass body and adaptor as series N but fitted with PVC skirt to protect the breather holes.	38120
Series P	Brass body and adaptor fitted with PVC skirt, no breather hole but includes an overflow tube.	38127

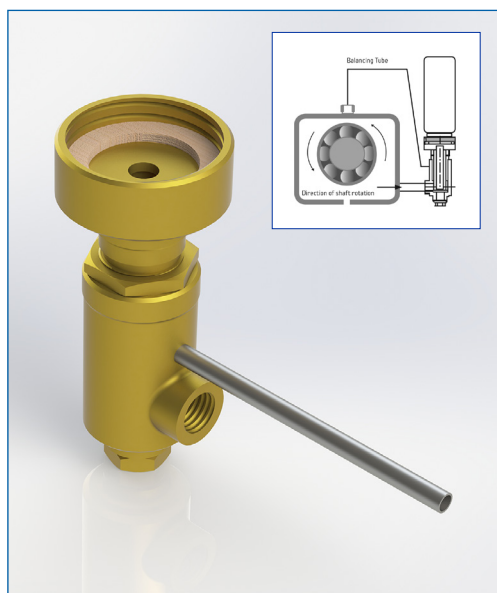
#### Applications

Series L is extensively used in adverse environmental conditions but where normal atmospheric pressures exist.

Series P is used as a back-up device to maintain a constant level in an oil bath on equipment where the primary lubrication is oil mist or air/oil systems and where a rise in oil level would cause a problem.

## Oiler Models and Dimensions

### 3. Oilers for Sub-atmospheric Conditions:

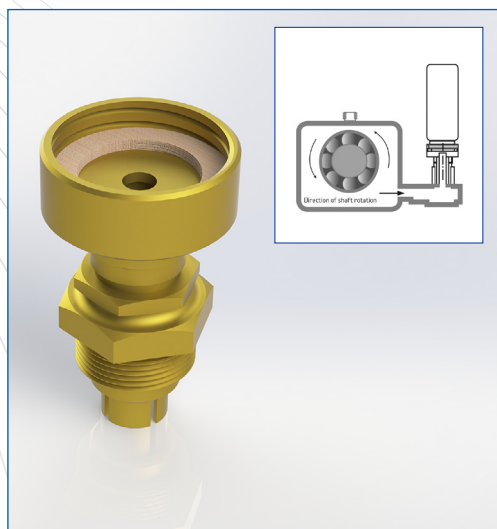


Model	Description	Code No.
Series Q	Brass body and adaptor with 1/4" BSP threads. This oiler has no breather holes and is fitted with an external balancing tube in line with the side port.	38128
Series S	Brass body and adaptor with 1/4" BSP threads. This valve is identical to the series Q except the balance tube is at 90° to the side port.	38129

#### Applications

Both series Q and series S models are used in applications where sub-atmospheric pressure exists in the bearing or gearbox. If a conventional standard oiler was fitted, air at atmospheric pressure allowed in through the breather holes would force the oil out of the body. The fitting of a balancing breather tube allows both the oiler and component to be in pressure balance.

### 4. Oilers for Direct Mounting:



Model	Description	Code No.
Series E	Instead of having a conventional body, the series E constant level oiler is designed for mounting into the customers equipment thus avoiding external pipework. The cap and adaptor are made from brass and the adaptor is threaded 1" BSP:	38060

#### Applications

This oiler can be fitted directly into the top of a sump, gearbox or bearing housing and the level adjusted to the height required. It is ideal for maintaining a level and providing a visual indication of oil usage in very shallow and inaccessible sumps where it would be difficult to fit a standard bodied oiler at the required oil level.

## Reservoirs

Reservoirs are available in glass or polythene.

Description	Stock Code No.
100 ml / 4 oz Glass Reservoir	38180
250 ml / 8 oz Glass Reservoir	38190
250 ml / 8 oz Polythene Reservoir	38210
500 ml / 20 oz Polythene Reservoir	38225

## Wire Cage

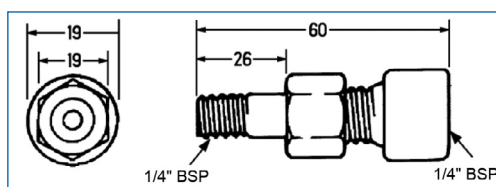
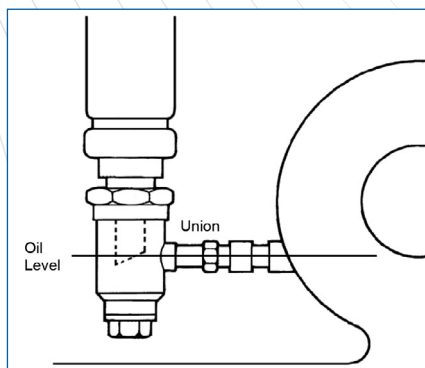
Protective wire cages, which clamp onto the adaptors, can be used to protect the reservoirs from accidental damage.



Description	Stock Code No.	Dimensions			
		a	b	c	d
Large wire cage 250 ml reservoirs oilers without PVC skirts	38000	95	90	150	51
Large wire cage 250 ml reservoirs oilers with PVC skirts	38003	95	90	150	62
Small wire cage 100 ml reservoirs	38005	65	60	110	51

## Unions

For mounting the oiler, especially in confined spaces, a special union is invaluable.



Description	Stock Code No.
Denco union	01590

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