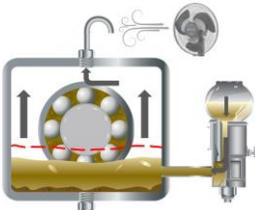
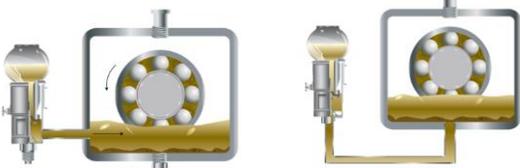




Constant Level Oiler Trouble Shooting Guide
Opto-Matic, Closed System Opto-Matic, Watchdog

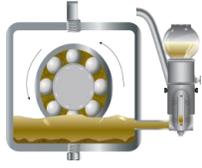
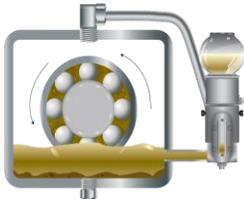
Opto-Matic Troubleshooting

Issue	Cause	Solution
Oil is leaking out of the oiler between the upper and lower casting.	There is a pressure being created in the equipment reservoir. If the air can't vent out of the housing, the pressure rises inside, forcing fluid back out of the vented oiler. 	Remove the plug to see if the leaking stopped. Replace plug with a Desiccant Breather. Replace the vented oiler with a closed system oiler.
	Shaft seals are not functioning properly. Not allowing air exchange, building pressure.	Install desiccant breather and make note of faulty seal.
Oil continues to drain out of glass bottle even after the set oil level.	There is a vacuum being created in the equipment reservoir. A vacuum will cause the oiler to misfeed, pulling oil out of the bottle and into the housing – causing overfilling of the housing. 	If there is a vent, replace it with a plug. If there is a vent, replace it with a desiccant breather. Replace the vented oiler with a closed system oiler.
	Shaft seals are not functioning properly. A vacuum is being created along the shaft through the seals.	Install desiccant breather and make note of faulty seal.
	Oil Drains out of the glass bottle on equipment start up.	At startup, some equipment produces a swell of oil to one side of the oil sump, depending on shaft rotation. If the oiler is mounted on the short side of the out swell, the oiler will misfeed. 
All Trico Opto-Matic bottles are required to be filled 2/3 of the capacity of the bottle. This is because if the bottle is filled completely, there is the potential for a vapor lock situation in the bottle, causing the oiler NOT to feed when required. 		Make sure Trico bottle is filled to 2/3 the volume.

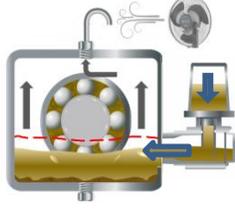


Constant Level Oiler Trouble Shooting Guide Opto-Matic, Closed System Opto-Matic, Watchdog

Closed System Opto-Matic Troubleshooting - In short, the Closed System Opto-Matic corrects all the potential issues related to the pressure/vacuum conditions with the vented Opto-Matic. Although having the oiler on the correct side of shaft rotation is still required in some situations.

Issue	Cause	Solution
Closed system has issues like a vented constant level oiler.	The pressure balancing line is required to close the loop from the equipment housing to the closed system surge chamber. This is what makes it work properly. 	Make sure the pressure balancing line is connected to the closed system surge chamber and connected to the equipment reservoir headspace.
Oil Drains out of the glass bottle on equipment start up.	At startup, some equipment produces a swell of oil to one side of the oil sump, depending on shaft rotation. If the oiler is mounted on the short side of the out swell, the oiler will misfeed. 	Install oiler on the opposite side, or on the side where the swell would occur.
		If the correct side is not accessible install oiler from the bottom of the oil sump.

Watchdog Oiler Troubleshooting - Watchdog Oilers are designed to be installed on the centerline of the oil level to be maintained, where a bullseye sight glass should be.

Issue	Cause	Solution
Oil Drains out of the bottle on equipment start up	At startup, some equipment produce a swell of oil to one side of the oil sump, depending on shaft rotation. If the oiler is mounted on the short side of the out swell, the oiler will misfeed. 	Install oiler on the opposite side, or on the side where the swell would occur.
Oil continues to drain out of glass bottle even after the set oil level.	There is a vacuum being created in the equipment reservoir. A vacuum will cause the oiler to misfeed, pulling oil out of the bottle and into the housing – causing overfilling of the housing. 	If there is a vent, replace it with a plug,
		If there is a vent, replace it with a desiccant breather
	Shaft seals are not functioning properly. A vacuum is being created along the shaft through the seals.	Replace the with a closed system oiler.
	Because the oiler control point is right on the oil surface, aeration in the equipment sump can cause the oiler to misfeed.	Install desiccant breather and make note of faulty seal
	Add additional baffling to the backside of the surge body.	Convert to a closed system oiler.