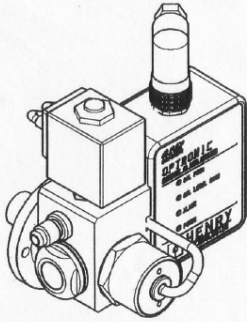


OPTRONIC OIL LEVEL CONTROLLER



The Optronic Oil Level Regulator is designed to control the oil level in the compressor crankcase using proven optical sensor technology.

The stand alone regulator is suitable for both low and high pressure oil management control systems. The oil level is accurately regulated at 1/2 sight glass using a pulse timer. When a low oil condition is detected, there is a 15 second time delay prior to oil feed to ensure stability and prevent overfill. Oil is then pulsed into the compressor at 3 second on / off intervals. If demand is not satisfied after 2 minutes of oil feed, a low level alarm is initiated by means of a fail safe normally closed volt free electrical contact. During the alarm condition the regulator will continue to pulse feed oil. The alarm will automatically reset if the oil level returns to a 1/2 sight glass. This alarm contact can be used to shut down the compressor in the event of a low oil level condition. The Optronic regulator is fitted to the sight glass housing on the compressor and has an integral sight glass that allows visual inspection of the crankcase oil level.



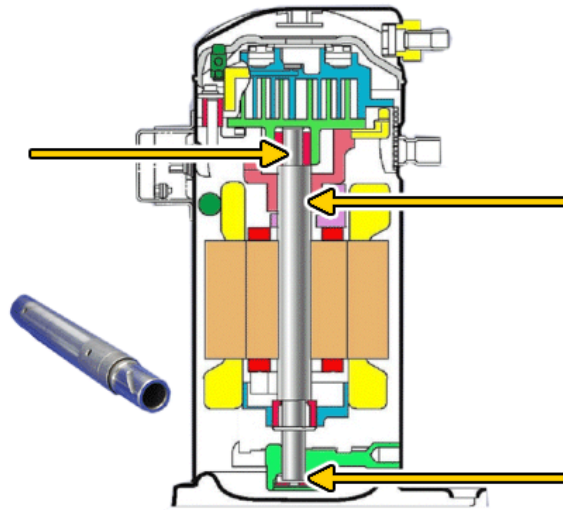
Specification

Max Working Pressure:	35 bar
Max Differential Pressure:	24 bar
Operating Temp Range:	25oC to +80oC
Supply Voltage(Conns 1 & 2):	24V AC 50 / 60HZ
Alarm Contact (Conns 3 & 4):	Volt free, normally closed
Alarm Contact Rating:	24V DC@2A, 120V AC@2A
Electrical connection:	4 Pin M12 circular, IEC6094-5-2
Protection class:	IP 41
Status LED's:	4
Oil supply line:	1/4" Flare

The 3/4" NPT adapter kit and electrical socket are supplied as standard with each Optronic regulator. Adapter kits for other compressors are available on request.

OPTRONIC OIL LEVEL CONTROLLER

The Optronic constantly scans the oil level to ensure the correct amount of oil is being fed to the compressor bearings. Scroll compressors are particularly vulnerable to oil starvation at the top bearing, if the correct level of oil is not maintained. There is no oil pump and oil is fed to the top bearings by centrifugal force along drillings in the drive shaft. Also Scroll compressors have no low level alarm, or low pressure oil alarm.



Bearings need oil at all times especially at the top bearings Where most of the force of Compression is experienced.

