



# Product Overview

## ENGINE AND GAS COMPRESSOR EQUIPMENT

### MODEL KEFS ELECTRIC FLOAT SWITCH

The KENCO Model KEFS uses a float to determine the presence or absence of liquid in a vessel at the process connection. The float arm assembly consists of a float at one end and a magnet at the other. As the level in the vessel rises, the float rises and the magnet falls. The magnet actuates a second magnet on the other side of the pressure boundary. This second magnet causes the switch to change state.

Maximum pressure rating of 2000 psig.



### MODEL KPFS PNEUMATIC FLOAT SWITCH

KENCO Model KPFS Pneumatic Operator Valve uses a float to determine the presence or absence of liquid in a vessel at the process connection. The float arm assembly consists of a float at one end and a magnet at the other. As the level in the vessel rises, the float rises and the magnet falls. The magnet actuates a second magnet on the other side of the pressure boundary.

This second magnet causes the valve to open allowing air to pass through the switch and operate a Dump Valve. Maximum pressure rating of 2000 psig



### MODEL KDV DUMP VALVE

KENCO KDV Series "No-Freeze" Dump Valve is a pneumatically controlled valve designed for liquid level control in gas scrubbers, separators and other process pressure vessels. Model KDV Dump Valves are available with either 1" NPT or 2" NPT process connections. The drain sizes are 1/2", 3/4" and 1" depending on the model selected. The valve actuation pressure range is 30-70 psi depending on the model and process pressure. Process pressure rating of up to 2000 psig available.



### MODEL K512 OIL LEVEL CONTROLLER

The oil level switch in the KENCO Model K512 is a case-to-ground electric switch contact for non-hazardous locations. The oil level within the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops past the designated level, the switch will trip sending an alarm.

**K512** - Oil Level Controller with Case-To-Ground Switch Contact

**K512-TB** - Oil Level Controller with Case-To-Ground Switch Contact and Switch Contact Test Button

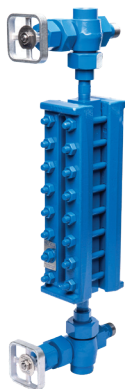
**K512HL** - Oil Level Controller with Case-To-Ground Switch Contact for Single High Level and Low Level Alarm

**K512HL-TB** - Oil Level Controller with Case-To-Ground Switch Contact for Single High Level and Low Level Alarm and Switch Contact Test Button



### FLAT GLASS LEVEL GAUGES & VALVES

KENCO Flat Glass Level Gauges are used in high pressure scrubber vessel applications where direct visual observation of the process liquid level is required. These gauges are suitable for applications with pressures up to 4000 psig @ 100°F and temperatures up to 750°F @ 2050 psig. Flat Glass Level Gauges provide you with the ability to directly view the process liquid in the vessel under temperature / pressure conditions that would render most other level technologies ineffective. The construction is very robust and reliable. Both Reflex and Transparent versions are available to suit your application requirements.



### MODEL KLCE OIL LEVEL CONTROLLER

The oil level switch in the Model KLCE is an electric switch in an explosion proof enclosure, rated for hazardous hydrogen gas environments. The float switch monitors the oil in the crankcase. The level within the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops 3/4" below the centerline, the switch will trip sending an alarm.

**KLCE** - Oil Level Controller with S.P.D.T. Electric Switch in Explosion Proof Enclosure

**KLCE-DPDT** - Oil Level Controller with D.P.D.T. Electric Switch in Explosion Proof Enclosure



### MODEL KES OIL LEVEL SWITCH

The Model KES Oil level switch is designed as a safety device for a stationary engine or compressor. The oil level switch monitors the running oil in the crankcase. The level in the crankcase directly corresponds with the oil level in the oil level switch housing. The engine or compressor constantly consumes the oil from the crankcase. If the oil level in the crankcase drops below the designated level, the switch will trip sending an alarm.

**KES** - Oil Level Switch with S.P.D.T. Electric Switch in Explosion Proof Enclosure (No Oil Level Controller Function)



### MODEL KLCM OIL LEVEL CONTROLLER

The oil level switch in the Model KLCM is an electric switch in a CSA approved Class III, Type 4 enclosure. The float switch monitors the oil in the crankcase. The level in the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops 3/4" past the centerline, the switch will trip sending an alarm.

**KLCM** - Oil Level Controller with S.P.D.T. Electric Switch in CSA Type 4 Enclosure



### MODEL KLCP OIL LEVEL CONTROLLER

The oil level switch in the Model KLCP is a pneumatic float switch which monitors the oil in the crankcase. The level within the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops 3/4" past the centerline, the pneumatic switch will trip, sending an alarm.

**KLCP** - Oil Level Controller with Pneumatic Switch



### MODEL KLC OIL LEVEL CONTROLLER

The Model KLC maintains the running oil level in the crankcase. The level within the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops 3/4" past the centerline, the switch will trip sending an alarm.

**KLC** - Oil Level Controller (No Switch Function)



### MODEL KHL OIL LEVEL CONTROLLER

The oil level switch in the KHL is an electric switch in an explosion proof enclosure, rated for hazardous hydrogen gas environments. The float switch monitors the oil in the crankcase. The level within the crankcase directly corresponds with the oil level in the oil level switch housing. If the oil level in the crankcase drops or rises 3/4" above or below the centerline, the switch will trip sending an alarm.

**KHL** - Oil Level Controller with S.P.D.T. Electric Switch in Explosion Proof Enclosure for Single High Level and Low Level Alarm

**KHL-DPDT** - Oil Level Controller with D.P.D.T. Electric Switch in Explosion Proof Enclosure for Single High Level and Low Level Alarm

**KHL-ES** - Oil Level Switch with S.P.D.T. Electric Switch in Explosion Proof Enclosure for Single High Level and Low Level Alarm (No Oil Level Controller Function)

**KHL-ES-DPDT** - Oil Level Switch with D.P.D.T. Electric Switch in Explosion Proof Enclosure for Single High Level and Low Level Alarm (No Oil Level Controller Function)



### MODEL KSHL OIL LEVEL CONTROLLER

The KENCO KSHL is constructed with 2 independent switches, one for high level alarm 3/4" above centerline and another for low level alarm at 3/4" below centerline. The oil level switches in the KSHL are electric switches in an explosion proof enclosure, rated for hazardous hydrogen gas environments

**KSHL** - Oil Level Controller with Two S.P.D.T. Electric Switches in Explosion Proof Enclosure for Separate High Level and Low Level Alarms

**KSHL-ES** - Oil Level Switch with Two S.P.D.T. Electric Switches in Explosion Proof Enclosure for Separate High Level and Low Level Alarms (No Oil Level Controller Function)



### MODEL KSLI OIL LEVEL CONTROLLER

The KENCO KSLI is constructed with 2 independent switches, one for low level alarm 5/8" below centerline and another for low level alarm at 7/8" below centerline. The oil level switches in the KSLI are electric switches in an explosion proof enclosure, rated for hazardous hydrogen gas environments. The float switches monitor the oil in the crankcase. The level within the crankcase directly corresponds with the oil level in the oil level controller housing. If the oil level in the crankcase drops past the designated levels, the switches will trip sending an alarm.

**KSLI** - Oil Level Controller with Two S.P.D.T. Electric Switches in Explosion Proof Enclosure for Two Separate Low Level Alarms

**KSLI-ES** - Oil Level Switch with Two S.P.D.T. Electric Switches in Explosion Proof Enclosure for Two Separate Low Level Alarms (No Oil Level Controller Function)



### 507 SERIES IN-LUBRICATOR OIL LEVEL CONTROLLER

507 Series Oil Level Controllers automatically monitor and control the amount of oil in the lubricator housing. This keeps all of the working parts including the pump plungers submerged in oil to reduce wear and corrosion. When the level falls below the operational requirement, the low level safety switch will be activated.

**K507L** - A 1/2 FNPT conduit connection with case-to-ground switch.

**507M** - A 1/2 FNPT conduit connection with two-wire S.P.D.T. switch.



### FIRE SAFE VALVES (U.S. PATENT 3,817,353)

The Fire Safe Oil Control System provides spring-loaded, thermally actuated valves. In the event of a fire, these valves automatically close, stopping the flow of oil from the crankcase of the engine and from the reserve oil supply. The valves are installed in-line in the piping from the Oil Supply Tank to the inlet and outlet of an Oil Level Controller. The valves are available in 1/2" NPT (50-KFS), 3/4" NPT (75-KFS) and 1" NPT (10-KFS) sizes.



### OIL CONSUMPTION METER

The KENCO Low Flow Meter is a positive displacement double action, single piston meter. The piston strokes and actuates a mechanical counter that registers the amount of oil flowing through the meter. Each piston stroke equals and registers 0.01 gallon of flow. The mechanical counter is immersed in oil assuring maximum wear resistance from vibration.

MODEL 1618 - Mechanical counter only and the MODEL 14308 - Mechanical counter and a reed switch. The Model 14308 reed switch is actuated by a magnet mounted onto the surface of the piston. The switch closes every other piston stroke thus completing a circuit every 0.02 gallon. The mechanical counter is immersed in oil assuring maximum wear resistance from vibration.





## OIL SUPPLY TANKS & STANDS

The KENCO Oil Supply Tank & Stand System is designed to supply lube oil to the crank case of a compressor or engine in an isolated location where daily supervision and maintenance are an impossibility. KENCO Oil Supply Tank & Stand Systems used in conjunction with KENCO oil level controllers with low level switches can provide 24 hour protection from lubrication failure. Oil Supply Tanks are available in 5, 16, 30 and 55 gallon capacities. Standard tank stands are available in 36", 56" and 72" heights. Other heights available and alternate construction materials available upon request.



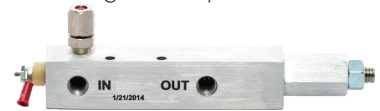
## DIVIDER VALVE PROXIMITY SWITCH

The KENCO Proximity Switch provides a switch signal used to detect the absence of flow in a continuously operating compressor lubrication system by monitoring the cyclic movement of the divider valve piston. The KENCO Proximity Switch assembly's operative components are a S.P.S.T. reed switch and a magnet that sense the movement of the divider valve piston while it is cycling. It is installed in place of the piston end plug in the divider valve block. When installed, the switch magnet rests against the divider block piston. The magnet is housed in the Proximity Switch body parallel to the reed switch. Each time the divider block pulses with a lubrication cycle, the piston moves the magnet, opening and closing the contacts of the reed switch. The switch contact may be used to complete a circuit to an external unit such as a PLC, an auxiliary counter, indicator or other type of control.



## NO FLOW SAFETY SWITCH

The KENCO NFS is designed to protect the compressor or engine cylinder against lubrication failure. KENCO No-Flow Switches mount in the line between the lubricator and cylinder. Lubrication oil flow is through the switch, forcing a plunger off its case-to-ground contact. Its rate of travel is controlled by fluid slippage past the precision-fit plunger, preventing premature shutdown. If the lubricator stops pumping, the plunger will drift to the contact and stop the engine. On start up, the first stroke of the lubricator automatically opens the switch. The time interval between lubrication failure and shutdown can be adjusted by increasing or decreasing the compression on the spring.



## LOW PRESSURE PNEUMATIC FLOAT SWITCH

The KENCO 106 Pneumatic Float Switch features a two-position, three-way valve. The switch is rated for low pressure applications up to 100 psig. The Model 106 is ideal for applications including; Low liquid level switch for cooling water expansion tanks. The Model 207 utilizes a Model 106 installed in a carbon steel tank. The tank features a sight glass for observation of the liquid level in the tank. The switch is designed to function as either a pneumatic high or low switch or as an automatic water make-up valve.



## WATER FILLER CAP ASSEMBLIES

KENCO Water Filler Cap Assemblies provide a means of adding or checking fluid in an engine or surge/expansion tank. The Water Filler Cap Assemblies consist of a filler neck with a common automotive radiator type cap. Three different configurations are available with the option of 7psi or 15 psi pressure rating.



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