

TK3+ @130 bar Oil Level Regulator

SUITABLE FOR CO₂ SYSTEMS

CONNECTORS VERSION



TWO MOUNTING POSSIBILITIES WITH THE SAME PRODUCT (LEFT/RIGHT)

CABLE GLANDS VERSION



TWO MOUNTING POSSIBILITIES WITH THE SAME PRODUCT (LEFT/RIGHT)

Some advantages of this solution:

- Extremely compact dimensions
- Left/Right mounting possibility with the same TK3+
- Reduction of the number of junctions in the circuit with less possibility of having leakages
- Usage of less components (simplified circuit and easier warehouse management)
- Simplified Installation (cost savings in terms of installation time).



Main Features

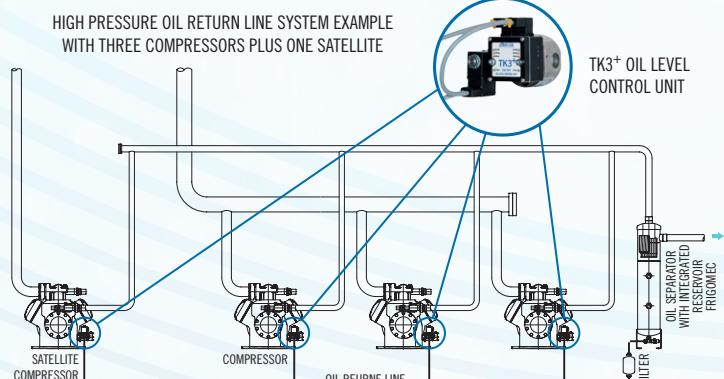
- High reliability ensured by absence of mechanical moving parts.
- Sight glass and electronic LEDs can be checked on the same side where is more comfortable to do inspections.
- Well consolidated steel with fused glass technology with absence of seals ensures no leakage and good chemical compatibility.
- Direct sight glass replacement (3/4/6 holes flange connection).
- 24 VAC / 230 VAC power supply options.

- Easy maintenance of the coil of the valve and of the Electro-Optic sensor that can be easily replaced without emptying or depressurizing the plant.
- 230 VAC /2A alarm relay output suitable for direct connection in the security chain of the system.
- Adapters suitable for various types of compressors.
- Unit conform to directives 2014/30/UE and 2014/35/UE.

Application Description

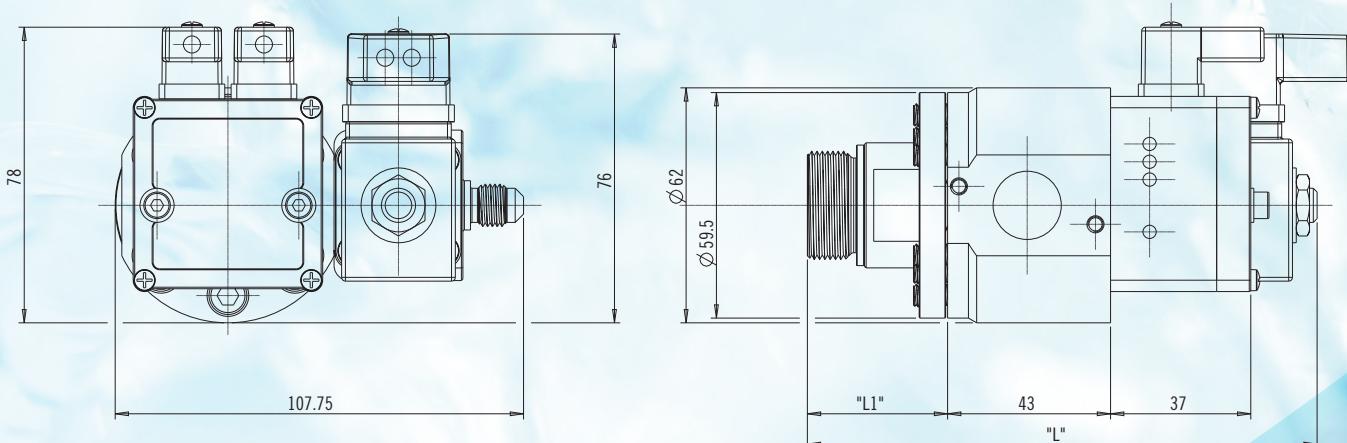
The TK3+ is designed to control the oil level in the compressor crankcase in order to avoid the compressor to run without oil and so improve its lifetime. TK3+ monitors the oil level with the embedded electro-optic sensor and comprises a solenoid valve for oil filling and a relay output contact to give an alarm.

HIGH PRESSURE OIL RETURN LINE SYSTEM EXAMPLE WITH THREE COMPRESSORS PLUS ONE SATELLITE



SUPPLY VOLTAGE	24 VAC \pm 10% or 230 VAC \pm 10% depending on model
SUPPLY CURRENT	Each TK3+ requires 30VA (depending on the solenoid valve)
ELECTRICAL CONNECTION	9.4mm Industry Standard Connectors / EN175301-803 Connector or spare wires
OUTPUT SIGNAL	Contact free relay output NO and NC
RELAY OUTPUTS	Up to 230VAC @2A
HOUSING MATERIAL	Nickel plated steel + fused glass PA glass fibre reinforced
ENCLOSURE PROTECTION CLASS	IP 65
MEDIA TEMPERATURE	-40°C \div +85°C
AMBIENT TEMPERATURE	-40°C \div +60°C
MAX WORKING PRESSURE	130 bar (higher pressure limits available on different TK3+ models)
MOPD	100 bar (higher pressure limits available on different TK3+ models)
OIL RETURN LINE	7/16 – 20 UNF male
CABLE TYPE	PVC cable CEI 20-22. Working temp.: -20 \div +70 °C (fixed laying)

Mechanical Dimensions (connectors version)



Note. - Quotes in mm -. L and L1 can vary depending on the adapter (see Adapters Addendum)

$$\begin{aligned}L &= 134.5 \\L1 &= 37\end{aligned}$$

Ordering Codes

ELECTRICAL CONNECTION POWER SUPPLY	CABLE GLANDS 1 m	CONNECTORS 3 m	CONNECTORS 6 m
24 V	TK3P-F60AA11-03	TK3P-F60AC13-03	TK3P-F60AC16-03
230 V	TK3P-F60BA11-03	TK3P-F60BC13-03	TK3P-F60BC16-03

Suggested ordering codes not include oil strainer element. Adapters must be ordered separately.