

Pillard TK DRAIN



Connected and automatic dewatering for hydrocarbon storage tanks

- Autonomous system
- Green energy power supply
- Durable anticorrosive material
- Freestanding solution
- Smart communication
- Ergonomic design
- Adaptable to existing
- Convivial interface with large LCD display

TK Drain: optimizing innovation for automatic drainage of storage tank

The TK Drain solution is the latest innovation by Fives Pillard to carry out the storage tank drainage using Smart connected technology (Wifi, Bluetooth, Ethernet) and high tech components for economic consumption. The role of the TK Drain is first to protect the operators from toxic gases emanating from the hydrocarbons. This solution also has strong economic benefit for the end users by reducing the hydrocarbons lost during manual drainage operations. The TK drain is a convivial equipment with multi languages modes. This solution is based on intelligent design with light weight, anticorrosive material and compatible with autonomous green power supply (solar panel). Easy maintenance thanks to backflushing without disassembly and specific safety mode during service operations. This equipment also protects efficiently the wastewater treatment plant downstream from the tank.

MECHANICAL SPECIFICATIONS

	Cabinet	Measuring chamber
Material	Copper free aluminium (<0.1% copper) / Epoxy coating	Stainless Steel 316L
Protection	IP66	IP66
Weight	25 kg	29 kg
Dimensions	442 x 315 x 211 mm	850 x 590 x 229 mm
Flange diameter		4" class 150 (other on demand)

METROLOGICAL FEATURES

Sensor technology	Measurement of dielectric constant (temperature compensated)
Measuring range	From 1% to 100% setting by operator
Temperature range	-20°C to 55°C
Threshold	Setting to full range by operator
Display	5" LCD tactile color display

AUTOMATIC FUNCTIONS

Purge frequency	Programmable between 1 and 1200 hours
Maximum purging duration	Programmable between 1 and 1200 min
Measurement delay for line flushing	Programmable between 0 and 180 sec
Valve shutdown delay	Programmable between 0 and 120 sec

ELECTRIC SPECIFICATIONS

Power supply	90 to 260 VAC - 50 to 400 Hz (Autonomous solution by solar panel on demand)
Consumption	10VA

COMMUNICATIONS

Output	1x 4/20mA current loop 1x Valve relay 1x General alarm relay 1x Audio/Visual indicator relay 1x Water in oil threshold relay 1x Spare relay 1x RS-485 (Modbus) Ethernet, Bluetooth, Wifi (on demand)
Inputs	2x Valve limit switches 2x generic isolated inputs
Emergency Stop	1x Push button

CERTIFICATIONS AND STANDARDS

Compliance	ECM directive 2014/30/UE, NF EN ISO 9001, NF EN ISO 14001 ATEX Zones 1/21 - 2/22 - Gas Group C
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