

Oil Guard®

ZOELLER®
PUMP COMPANY

**HYDRAULIC ELEVATOR
OR VAULT SYSTEM**



WHAT IS OIL GUARD®?

A system that allows for the safe and reliable pumping of water while preventing the accidental pumping of oil, using capacitive sensors to differentiate between the two.

✓ SAFETY

Prevents the accidental pumping of oil, reducing the risk of environmental contamination and fine.

✓ COMPLIANCE

Helps meet regulatory requirements, including Elevator Code ASME A17.1 and state/federal regulation.

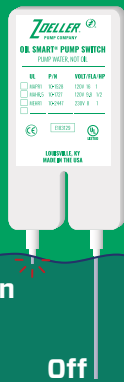
✓ RELIABILITY

The system is designed for long-term reliability and has proven field results.

HOW DOES OIL GUARD® WORK?

OIL GUARD® PUMP SWITCH AND PUMP OPERATION

Normal Condition (Water Only)



When water comes in contact with the short (on) sensor, the pump will turn on. The pump will remain on until water clears the long (off) sensor.

Oil Present Condition



If oil comes in contact with the (on) sensor, the pump will not turn on.

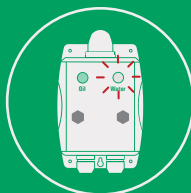
Water (Oil Present Condition)



If the water level rises enough to contact the (on) sensor under the oil layer, the pump will turn on and remain on until the (off) sensor clears.

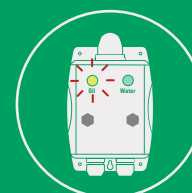
OIL GUARD® ALARM SENSOR

High Water Level



When water comes in contact with both sensors, the water indicator on the front panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.

High Oil Level



If oil comes in contact with both sensors, the oil indicator on the front panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.

WHY USE OIL GUARD®?

In contrast to conductive sensors, capacitive sensors are insulated by oil and do not require ongoing maintenance.

Capacitive technology allows for hand testing of the sensors, whereas conductive technology requires more steps to test when the system is

An adjustable alarm allows the sensor to be placed at the actual high-liquid level which ensures that nuisance alarms do not occur.

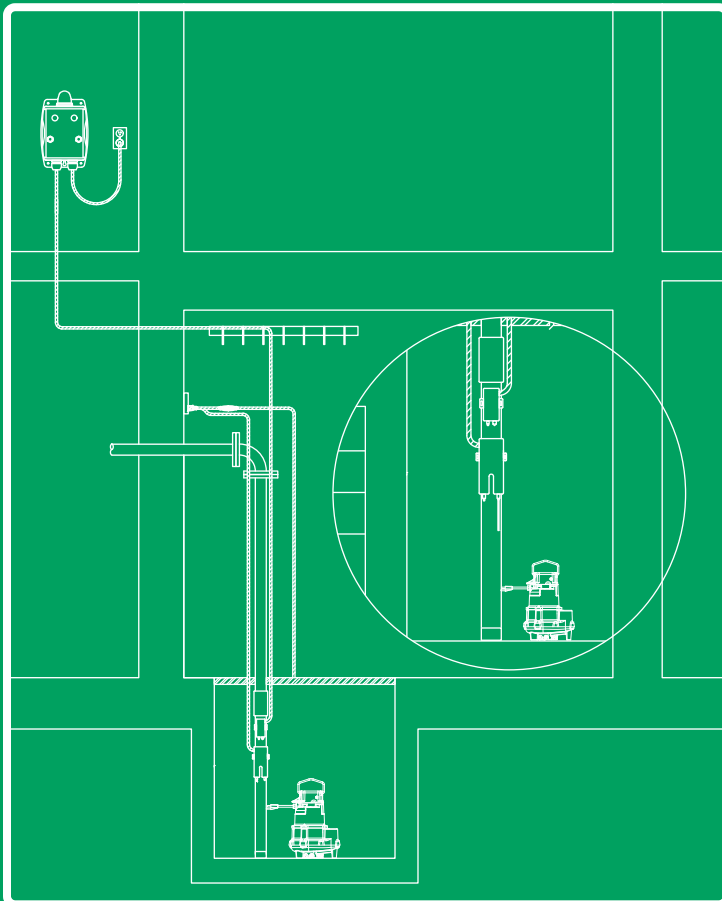
Oil Guard® technology uses reliable solid-state sensors that do not require any moving parts.

The Oil Guard® Alarm Sensor can be placed at any predetermined level.

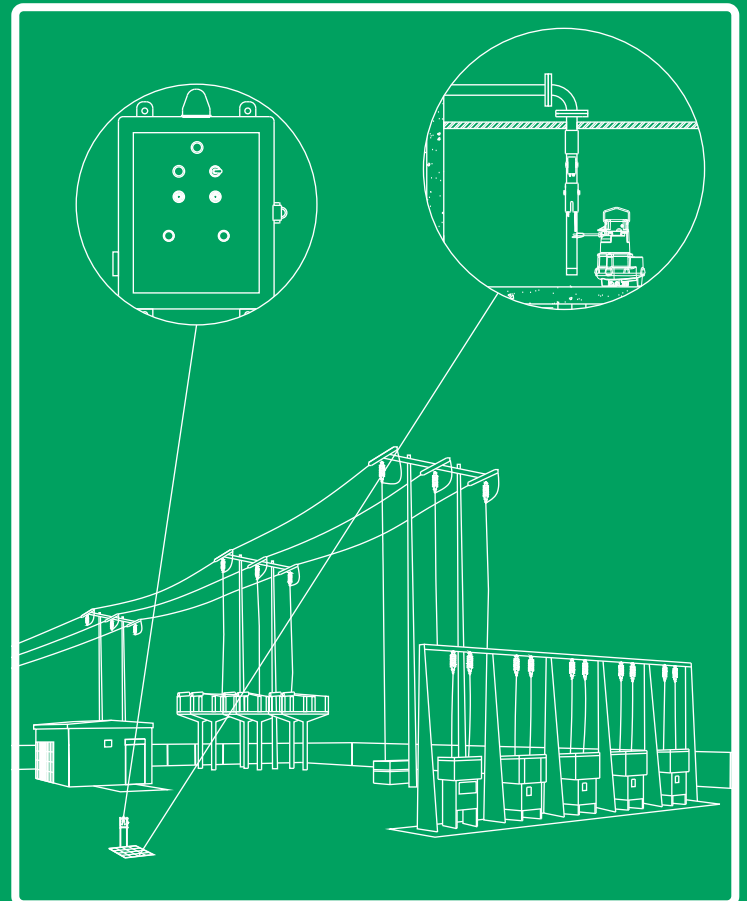
WHERE CAN OIL GUARD® BE USED?

Oil Guard® is most commonly used in elevator sumps, transformer containment (utility), and any other applications where there is a need to pump water, and not oil.

HYDRAULIC ELEVATOR SUMPS



TRANSFORMER CONTAINMENTS



CHOOSE A PREPACKAGED SYSTEM

PUMP	CORD LENGTH	CONTROL / ALARM PANEL	HP	VOLTAGE/ PH	FLA	DISCHARGE	"TDH (FEET) @ 50 GPM (1 CAR)"	"TDH (FEET) @ 100 GPM (2 CAR)"	"TDH (FEET) @ 150 GPM (3 CAR)"	PART #
N152*	25'	10-1526	0.5	115/1	8.5	1-1/2"	16'	-	-	940-0006
	6'	10-1526	0.5	115/1	8.5	1-1/2"	16'	-	-	940-0012
E152	25'	10-5808	0.5	230/1	4.3	1-1/2"	16'	-	-	940-0018
N153*	25'	10-1526	0.5	115/1	10.5	1-1/2"	21'	-	-	940-0007
	6'	10-1526	0.5	115/1	10.5	1-1/2"	21'	-	-	940-0013
E153	25'	10-5808	0.5	230/1	5.3	1-1/2"	21'	-	-	940-0019
N161*	25'	10-1526	0.5	115/1	15.0	1-1/2"	36'	-	-	940-0008
	6'	10-1526	0.5	115/1	15.0	1-1/2"	36'	-	-	940-0014
E161	25'	10-5808	0.5	230/1	7.5	1-1/2"	36'	-	-	940-0020
I161	25'	10-5808	0.5	200/1	8.8	1-1/2"	36'	-	-	940-0021
F161	25'	10-5810	0.5	230/3	5.2	1-1/2"	36'	-	-	940-0022
J161	25'	10-5811	0.5	200/3	6.4	1-1/2"	36'	-	-	940-0023
G161	25'	10-5809	0.5	460/3	2.9	1-1/2"	36'	-	-	940-0024
N292*	25'	10-1526	0.5	115/1	15.0	2"	30'	16'	-	940-0025
	6'	10-1526	0.5	115/1	15.0	2"	30'	16'	-	940-0026
E292	25'	10-5808	0.5	230/1	7.5	2"	30'	16'	-	940-0027
I292	25'	10-5808	0.5	200/1	8.8	2"	30'	16'	-	940-0028
F292	25'	10-5810	0.5	230/3	5.2	2"	30'	16'	-	940-0029
J292	25'	10-5811	0.5	200/3	6.4	2"	30'	16'	-	940-0030
G292	25'	10-5809	0.5	460/3	2.9	2"	30'	16'	-	940-0031
E284	25'	10-5808	1	230/1	8.9	2"	28'	21'	12'	940-0032
I284	25'	10-5808	1	200/1	8.8	2"	28'	21'	12'	940-0033
F284	25'	10-5810	1	230/3	5.2	2"	28'	21'	12'	940-0034
J284	25'	10-5811	1	200/3	6.4	2"	28'	21'	12'	940-0035
G284	25'	10-5809	1	460/3	2.9	2"	28'	21'	12'	940-0036
E294	25'	10-5808	1.5	230/1	13.7	2"	54'	40'	20'	940-0037
I294	25'	10-5830	1.5	200/1	17.8	2"	54'	40'	20'	940-0038
F294	25'	10-5811	1.5	230/3	9.5	2"	54'	40'	20'	940-0039
J294	25'	10-5812	1.5	200/3	10.8	2"	54'	40'	20'	940-0040
G294	25'	10-5810	1.5	460/3	4.8	2"	54'	40'	20'	940-0041

All pump power cords are oil resistant and meet ASME 17.1 requirements

*115 Volt units include 10-1528 pump switch

WEIGHT & DIMENSIONS

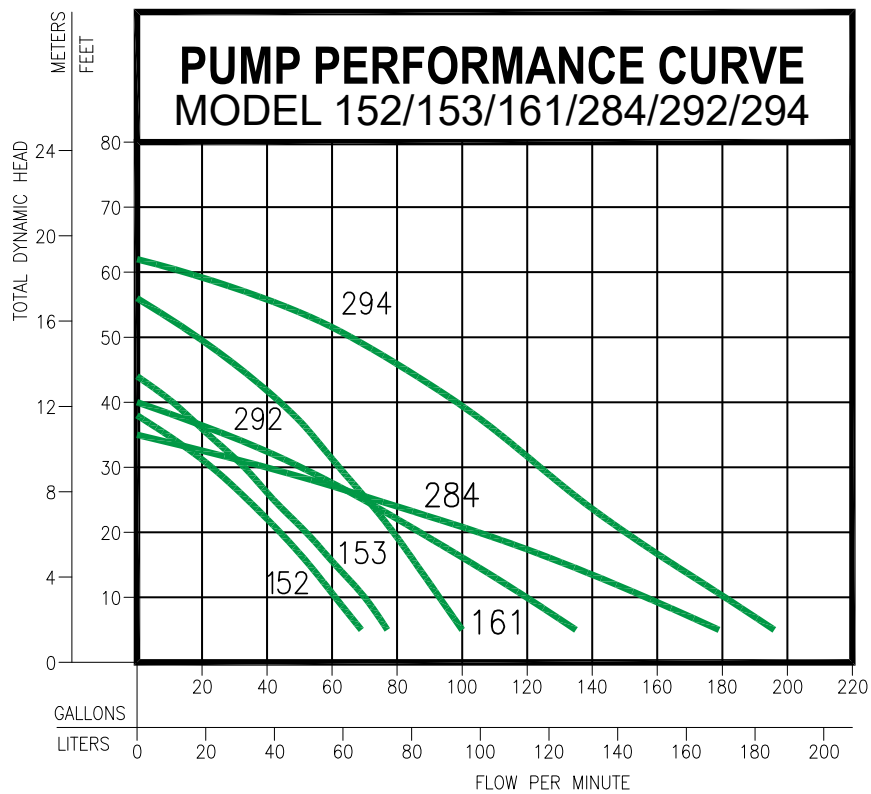
PUMP	WEIGHT (LBS)	HEIGHT	WIDTH
152	37	12-1/8"	10-3/32"
153	37	12-1/8"	10-3/32"
161	83	19-5/16"	12-3/4"
292	88	19-9/16"	12-7/8"
284	84	19-25/32"	13-9/16"
294	89	19-9/16"	12-7/8"

BUILD YOUR OWN SYSTEM

PART #	DESCRIPTION	ALARM PANEL	OIL GUARD® PUMP SWITCH	OIL GUARD® HIGH LIQUID ALARM SWITCH
10-1526	Alarm Panel - 20' Alarm Switch	X	-	20'
10-1528	20' Piggyback Pump Switch	-	20'	-
10-1727	20' Pump Switch, Without Plug	-	20'	-
10-5806	25' Pump Switch, Without Plug	-	25'	-
10-2149	Simplex Panel, 120/208/230 1 Ph, 0-16 FLA	X	20'	20'
10-5808	Simplex Panel, 120/208/230 1 Ph, 0-16 FLA	X	25'	25'
10-2822	Simplex Panel, 120/208/230 1 Ph, 0-16 FLA	X	50'	50'
10-2150	Duplex Panel, 120/208/230 1 Ph, 0-16 FLA	X	20'	20'
10-5809	Simplex Panel, 200/230/460 3 Ph, 2.5 - 4.0 FLA	X	25'	25'
10-5810	Simplex Panel, 200/230/460 3 Ph, 4.0 - 6.3 FLA	X	25'	25'
10-5811	Simplex Panel, 200/230/460 3 Ph, 6.0 - 10.0 FLA	X	25'	25'
10-5812	Simplex Panel, 200/230/460 3 Ph, 9.0 - 14.0 FLA	X	25'	25'

PERFORMANCE

THE ZOELLER WAY: Every pump manufactured by Zoeller is 100% tested before leaving our facility to ensure out-of-the-box reliability.



159788

100% FACTORY TESTED

OIL GUARD® PUMP CONTROLLER



Features:

- Plug-and-play for easy installation
- Includes Oil Guard® pump switch with 20' cord and piggyback plug
- Includes Oil Guard® alarm with 10' power cord and Liquid Guard® alarm switch with 20' cord
- Pump control and alarm components differentiate between oil and water
- 120VAC, Single Phase, 60 Hz
- Alarm visible indicators: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn that sounds at 85 decibels at 10'
- Complete panel remote monitoring dry contacts: Oil, Water, High Liquid

10-1526
10-1528

OIL GUARD® SINGLE PHASE SIMPLEX

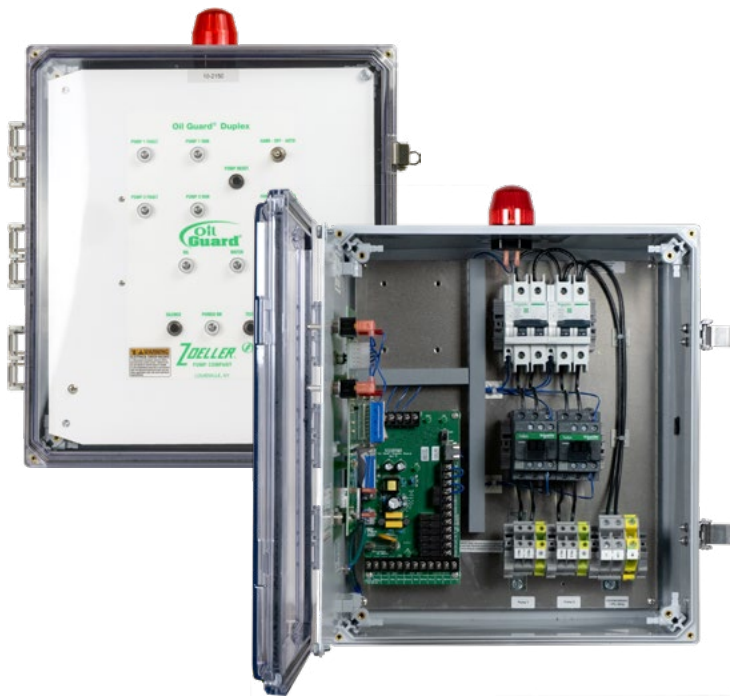


Features:

- Pump control and high liquid alarm differentiate between oil and water. The system includes the Oil Guard® pump control, Liquid Guard® alarm switch, and 25' cords
- Pump control visible indicators: Pump hand-off-auto (H.O.A.) switch, green Pump Run light, and Power On light
- Alarm visible indicators: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10 feet
- Complete panel remote monitoring dry contacts: Oil, Water, High Liquid

10-5808

OIL GUARD® SINGLE PHASE DUPLEX



10-2150

Features:

- Indoor/Outdoor NEMA 4X panel enclosure: Heavy duty polycarbonate with stainless steel lockable latches
- Pump control visible indicators: Pump hand-off-auto (H.O.A.) switches, green Pump Run lights, red Pump Fault lights, and green Power On light
- Alarm visible indicators: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10 feet
- Duplex provides: Two-pump alternation and high demand two-pump operation
- Remote monitoring dry contacts: Oil, Water, High Liquid, Pump Run(s), Pump #1 Fault, and Pump #2 Fault
- Upgraded pump protection: Motor protective switches included for both pumps (branch circuit protection, adjustable overload and disconnect) and thermal cutout with indicators

OIL GUARD® THREE PHASE SIMPLEX



10-5809
10-5810
10-5811
10-5812

Features:

- Indoor/Outdoor NEMA 4X rated panel enclosure: Heavy duty polycarbonate with stainless steel lockable latches
- Pump control visible indicators: Pump hand-off-auto (H.O.A.) switch, green Pump Run light, red Pump Fault light, and green Power On light
- Alarm visible indicators: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10 feet
- Remote monitoring dry contacts: Oil, Water, High Liquid, Pump Run, Pump #1 Fault, and Pump #2 Fault
- Upgraded pump protection: Motor protective switches included for the pump (branch circuit protection, adjustable overload and disconnect) and thermal cutout with indicators



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