

THS/PLV

Integrated system with ejection valve
for liquid and viscous products



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HEAT AND CONTROL

www.heatandcontrol.com



Very high sensitivity to all magnetic and non-magnetic metals, including stainless steel

Full compliance with HACCP criteria

Standard pipe sizes available to suit all applications

Fast acting reject device for a limited quantity of rejected product

Completely housed in AISI 316L stainless steel

Easy to clean and inspect

Minimum installation space required

Very high reliability

Maximum operator safety

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www.ceia.net



The THS/PLV is a compact integrated system designed for metal contaminant detection and elimination in products transported by pipeline, especially meat, soup and preserves. Digital Signal Processing (DSP) of the metal detector antenna signals allows a very high degree of sensitivity to be achieved for all metals.

The carefully selected materials used in construction do not interact with food products, and thus do not modify or alter their composition. The design of these systems incorporates a fast reject valve drive response time to detect and reject the contaminant without slowing down the product flow.

The construction guarantees quick, easy cleaning of the components that are in contact with the product. The technological choices made by CEIA allow the parts in contact with the product to be disassembled and maintained in a short time. The THS/PLV system can be linked to local computer networks via an RS-485 interface.

The THS/PLV system operates in fail-safe mode, thus avoiding the risk of contaminants passing through even when the system is deactivated or when the electrical power supply is interrupted.

Technical Specifications

General Features

- Stainless steel AISI 316L and FDA approved plastic composition for all parts in contact with the product
- Fast disassembly and cleaning
- Fail-safe working
- Very high throughput
- Precise ejection of the contaminated product

Metal Detection Features

- Very high sensitivity to ferrous, non-ferrous and stainless steel metals
- Very high immunity to external electrical and mechanical interferences
- Automatic balancing
- Built-in self diagnosis system

Production Data Management

- Complete production logging (using dump of the internal memory or THS Report):
 - Ejections
 - Test results
 - Parameters modification
- Network interface: RS-485

Signaling

- Acoustic
- Optical

Programming

- Local: Keyboard and 80 character LCD display
- Remote via RS-232, RS-485

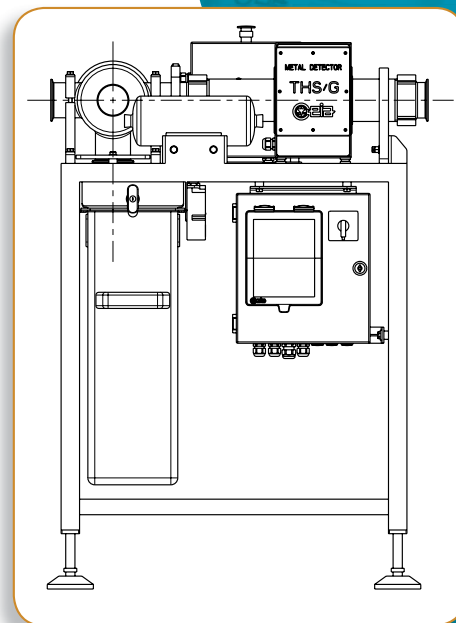
I/O and Environmental Data

- Power supply: 115/230 VAC, -22%/+10 %, 48-62 Hz, 60 VA
- Operating temperature: from 14°F (-10°C) to 131°F (+55°C)
- Relative humidity: 0-95% (without condensation)
- Relay outputs
 - Metal detector alarm
 - Ejection
 - Test request
 - Fault
- Direct RS-232 connection to printer or PC

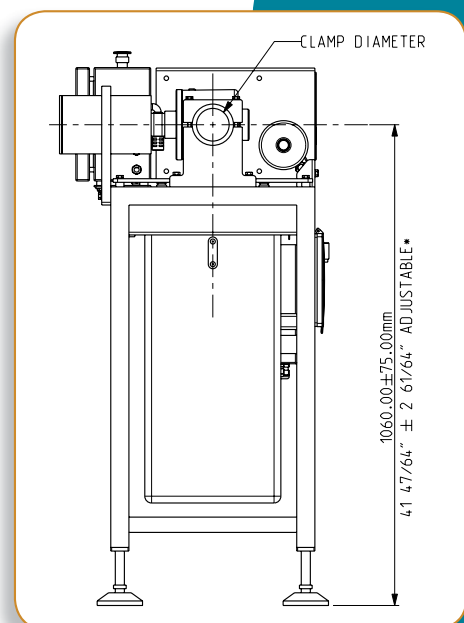
Certification and Conformity

- Conforms to current requirements for pipeline metal detection systems.
- Complies with EC regulations and international standards relating to electrical safety and electromagnetic compatibility.

MODEL	CLAMP DIAMETER	
	INCH	mm
THS/PLV-38	1.5"	38
THS/PLV-50	2"	50
THS/PLV-63	2.5"	63
THS/PLV-75	3"	75
THS/PLV-100	4"	100



THS/PLV-XX FRONT VIEW



THS/PLV-XX SIDE VIEW

* DIFFERENT HEIGHTS AVAILABLE UPON REQUEST

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®

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