

# TRIDENT ACOUSTIC PINGERS

## Product Overview

The Trident series Acoustic Pingers have been developed by Propipe Limited for use with pipeline pigs for identification and tracking or locating. As standard, Trident Pingers can produce up to 20W of acoustic power with a specified range of frequency to maximise detection distance.

Trident pingers require the pipeline to be flooded in order for the signal to be transmitted and this acoustic signal provides the information to identify the location of the pig.

Pinger repetition rate, power output, pulse length and battery life can be configured to suit the requirements of the project without compromising acoustic signal strength or pig design.

Multiple acoustic pingers can be used in a single pig train or in pipelines of close proximity. This is achieved by configuring the frequencies to ensure safe separation.



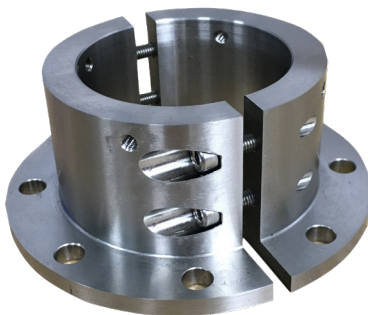
442 & 443 Standard (Left) & SMART (Right)



## Mounting / Activation

Each Trident Pinger comes complete with a dedicated mounting system ensuring safe and secure fitment to the pipeline pig.

Activation of the acoustic signal is achieved upon contact by water (water contact switch) or mechanical switch (prior to loading)



442 Mounting Bracket



## SMART Ping Facility

Trident Pingers can also be incorporated into other products providing a dual rate pinger. The acoustic pinger is connected to the product through a cable and can provide a switching function, which automatically doubles the repetition rate.



442 & 443 Acoustic Pingers

## Trident 442 Acoustic Pinger

Pig Size	6" & Above
Pinger Dimensions	Ø51mm x 300mm Long
OutPut Power	20 Watts
Battery Life (at +5°C)	60 Days (1 Ping / 4 Seconds) Standards can be extended
Battery Type	Alkaline 'AA' Cell Pack (Optional Lithium Cells)
Beam Pattern	Omni-Directional
Frequency	26-32 kHz (500Hz Steps)
Pulse Length	5ms (1-10 Programmable)
Ping Repetition Rate	1 Ping / 4 Seconds (1-10 Programmable)
Operating Temperature	-2°C to +60°C
Operating Pressure	4000m / 400 Bar Standard

## Trident 443 Acoustic Pinger

Pig Size	20" & Above
Pinger Dimensions	Ø120mm x 350mm Long
OutPut Power	20 Watts (50 Watts option available)
Battery Life (at +5°C)	90 Days (1 Ping / 1 Seconds) Standards can be extended
Battery Type	Alkaline 'C' Cell Pack (Optional Lithium Cells)
Beam Pattern	Omni-Directional
Frequency	13-19 kHz (500Hz Steps)
Pulse Length	5ms (1-10 Programmable)
Ping Repetition Rate	1 Ping / 1 Seconds (1-10 Programmable)
Operating Temperature	-2°C to +60°C
Operating Pressure	4000m / 400 Bar Standard



Pressure Relief System



Trident 400 Topside Digital Acoustic Receiver

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