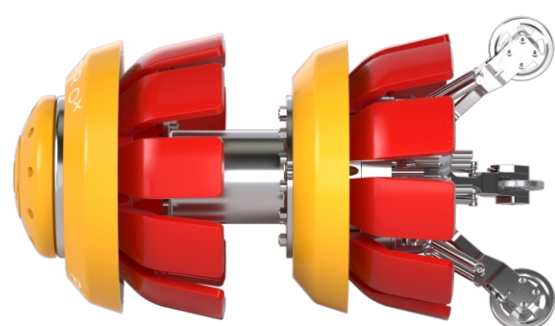




End the Headache of Illegal Oil Taps



BETTER PIGPROX BETTER SOLUTION

Deyuan Technology Co., Ltd.

Website: www.pigprox.com

Email: info@pigprox.com

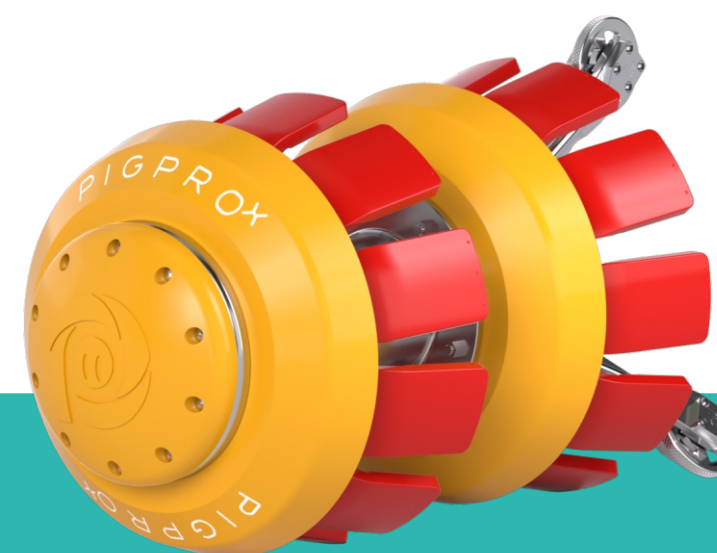
Tel: +86 28 8531 3153

Address: Rm 1801, Unit A, Zhonghang International Exchange Center,
777 North Yizhou Street, High-Tech Zone, Chengdu, China



TapGuard Intelligent Pig

Illegal Tap Detection Solution | TapGuard Intelligent Pig



Ø10 - Ø50 mm illegal tap detection

Historical tap identification

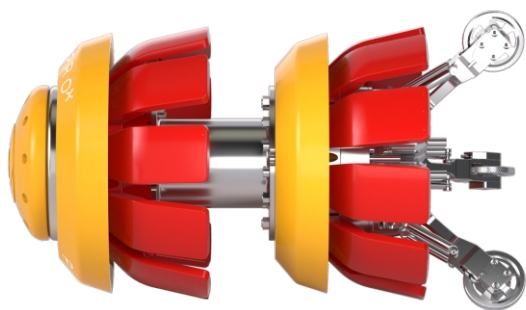
Simple operation, no intensive cleaning

Excellent passability, low stuck risk

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TapGuard Overview

PIGPROX TapGuard Intelligent Pig is a specialized ILI tool for oil pipeline anti-theft inspection, targeting illegal taps and unauthorized branch connections that may cause oil loss, safety hazards and operational risks. Using high-resolution electromagnetic eddy current technology, TapGuard provides complete circumferential and axial inspection to detect hidden tapping features such as localized openings, wall-thickness changes, welded attachments, shallow tapping traces, and thin-wall theft points. The tool and software can be customized to pipeline conditions, with equipment sales, leasing, and inspection services available.



PIGPROX TapGuard Intelligent Pig

Features & Benefits

- 01

High sensitivity and good repeatability

Detects $\varnothing 10 - \varnothing 50$ mm illegal taps and micro tapping holes as small as 10 mm, with full inner-wall coverage and traceable inspection data for technical evidence.
- 02

Excellent passability, low stuck risk

Passes through 1.5D bends, 10% ID reductions, and 20% OD single-dent deformation, reducing the risk of tool stuck in challenging pipelines. complete circumferential and axial
- 03

Simple deployment and efficient operation

Requires no intensive cleaning pigging, supports temporary launching & receiving, starts at only 0.1 MPa (14.5 psi), and is suitable for low-flow and intermittent-service pipelines.
- 04

No blind zone, precise location

Provides complete and precise detection coverage and odometer-based locating accuracy of ± 1 m for efficient field verification.

Technical Specifications

Item	PIGPROX TapGuard Intelligent Pig
Applicable Diameter	3" to 56"
Applicable Medium	Oil & Gas
Compatible PIG Trap	Standard PIG trap , PIG valve, short spool,temporary launcher & receiver
Bend Passability	$\geq 1.5D$
Deformation Passability	$\leq 20\%$ OD single-dent deformation
Startup Differential Pressure	≥ 0.1 MPa (≥ 14.5 psi)
Operating Speed	0.1 – 5 m/s (0.33 – 16.4 ft/s)
Operating Temperature	-20°C to 80°C (-4°F to 176°F); Customization available for higher temperature ranges
Operating Pressure	≤ 10 MPa ($\leq 1,450.38$ psi); Customization available for pressures above 10 MPa
Battery Duration	Standard: 50 h; Longer duration battery available upon request
Detectable Illegal Tap Diameter	$\geq \varnothing 10$ mm; Customization available for tap holes smaller than $\varnothing 10$ mm
Feature Identification Capability	Girth welds, tees, bends, valves, flanges, insulation joints, taps, etc.