



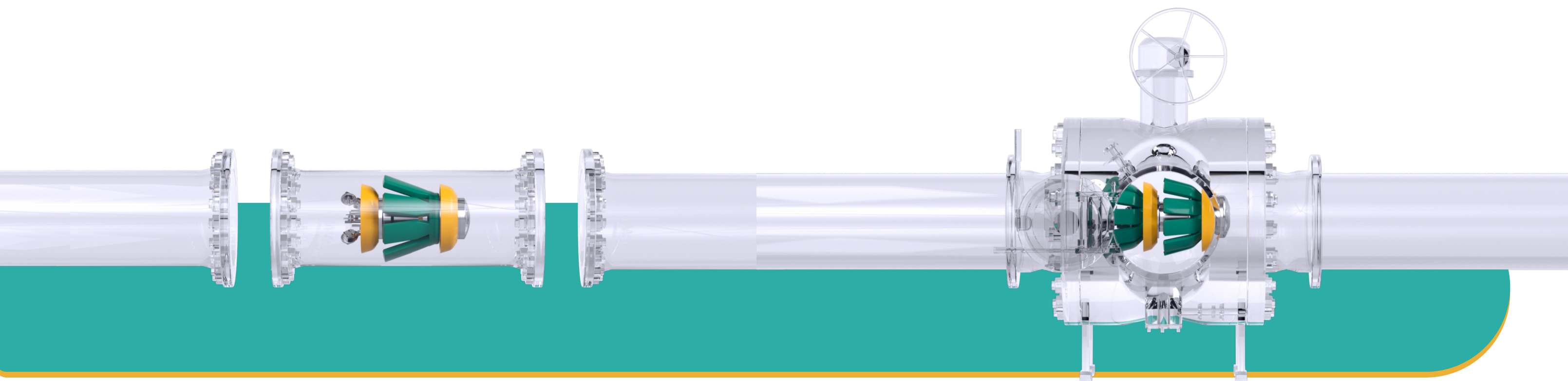
PIGPROX

EddyFlex Intelligent Pig

BETTER PIGPROX BETTER SOLUTION

Pig Valve Launchable / Heavy Wall Thickness/
Bimetallic Pipeline ILI Solutions

400+ Successful ILI Runs, 0 PIG Stuck Recorded



Deyuan Technology Co., Ltd.

Website: www.pigprox.com

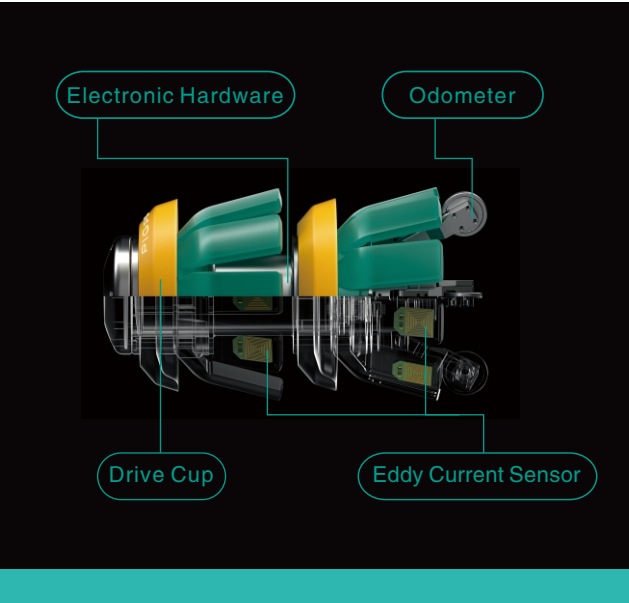
Email: info@pigprox.com

Tel: +86 28 8531 3153

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

Deyuan Technology Co., Ltd.

EddyFlex Overview



PIGPROX EddyFlex from Deyuan is a patented, independently R&D in-line inspection eddy current PIG, launched in 2022, with over 400 successful pipelines and 6,000km service record. It is specifically designed for small-diameter, low/high pressure & flow, heavy-wall thickness, non standard traps or bimetallic pipelines.

Using high-lift-off, high-sensitivity, low-power eddy current probes, EddyFlex detects internal metal loss, internal surface cracks, pinholes, dents, wrinkles, weld anomalies, and other internal defects, supporting safe and reliable pipeline integrity management.

Typical Applications

- 01

Unpiggable ILI launching solution
Cleaning pig-shaped for compatibility with standard pig traps, pigging valves, short spools, and temporary facilities. Field-proven in pig valve launching & receiving projects since 2022.
- 02

Small diameter ILI
Short length and lightweight minimizes stuck risk. Executed over 20 in-line inspection projects on 4-inch pipelines.
- 03

Low pressure & flow ILI
Lightweight design with a startup differential pressure of 0.1 MPa (14.5 psi). Proven to inspect pipelines at 0.2 MPa (29 psi) and 0.12 m/s (0.39 ft/s) average flow velocity.
- 04

ILI solution for bimetallic and conductive-material pipelines
Applicable to conductive pipelines, including bimetallic composite pipes, stainless-steel pipelines, alloy-steel pipelines, and internally coated pipelines.
- 05

Customized solutions
Customized for different operating conditions to minimize pipeline modifications and production impact. Proven in 175,000 ppm H₂S , 87.8°C offshore, and 7.5 m/s high-flow pipelines.

Technical Specifications & Sizing Accuracy

Item	PIGPROX EddyFlex Intelligent Pig
Size Range	3" to 56"
Tool Size	Length: 0.18 – 1.5 m (0.59 – 4.92 ft); Weight: 1.9 – 500 kg (4.19 – 1,102.31 lb)
Applicable Medium	Gas and liquid
Applicable Materials	Carbon steel, stainless steel, alloy steel, bimetallic composite pipes, and other conductive materials
Compatible PIG Trap	Standard PIG trap , PIG valve, short spool, temporary launcher & receiver
Bend Passability	≥ 1.5D
Deformation Passability	≤ 20% OD single-dent deformation
Startup Differential Pressure	≥ 0.1 MPa (≥ 14.50psi)
Operating Speed	0.1 – 8 m/s (0.33 – 26.25 ft/s)
Operating Temperature	–20°C to 80°C (–4 to 176); Customization available for higher temperature ranges
Operating Pressure	≤ 10 MPa (≤ 1,450 psi); Customization available for pressures above 10 Mpa (1.450 psi)
Feature Identification Capability	Girth welds, tees, bends, valves, flanges, tap, etc.
Defect Detection Capability	Internal metal loss, internal surface crack, pinholes, dents, wrinkles, and weld anomalies

Internal Defect Detection Threshold	POD = 90 %	1.5mm
Internal Defect Report Threshold	90 %Certainty	10mm
Depth sizing accuracy		± 1.5mm
Length sizing accuracy		± 15mm
Width sizing accuracy		± 20mm
Axial positioning accuracy (from adjacent girth weld)		± 0.1m
Circumferential positioning accuracy		± 5°