

HIGH RESOLUTION MFL - TOOL FOR STRESS-CORROSION DETECTION

Defectosopes (intelligent tools) 'KOD-4M-1420, 1220' implement the method of **transverse magnetization** of gas pipeline' parts to detect the stress corrosion cracks of longitudinal orientation. High resolution of the tool is based on the multi-channel measuring system and high frequency information sampling. The following defects and items listed below may be detected and localized as well as some physical parameters: **general corrosion, pitting corrosion, longitudinal main cracks, colonies of cracks (stress-corrosion cracking), technological flaws (scabs and scratches), cracks in the longitudinal welded joints, dents; technological objects (valves, fitted non-standard pipe pieces ('roll'), incisions, end caps, etc.); pipes assortment, wall thickness, magnetic permeability of the pipe material, pipe length, orientation of the longitudinal joints;**



TECHNICAL SPECIFICATIONS OF INTELLIGENT TOOL «KOD-4M»

Wall thickness measuring range	11 to 21 mm
Range of depth evaluation of defects like:	
- Internal surface longitudinal crack	0,15 T to 0,8 T*
- External surface longitudinal crack	0,2 T to 0,8 T*
- Corrosion cavern on both surfaces	0,2 T*
- Longitudinal crack in the area of welded join	0,3 T*
Maximal length of inspected pipeline	150 km
Efficient traveling speed	3 to 4 m/sec
Rated traveling speed	1 to 6 m/sec
Maximal pipeline operating pressure	80 bar
Minimal passed through section (narrow spot)	0,9 D**
Minimal passed through pipeline bend radius	3 D**
Continuous operation time	16 h
Operating temperature range	-20 to +45°C

(*) T pipeline wall thickness

(**) D pipeline diameter

ONYX Technology Group, LLC
Distributor company of AUTOGAZ for North and South America

3520 129th Street
Urbandale, IA 50323 USA
email: onyxtechnology@mchsi.com

