

## MECHANICAL PIG DETECTOR

### Description

The "PIG" or sphere detector model ADP developed and manufactured by ASELCO can be installed and removed in pressurized pipelines, without process shut down. It is based on the same concept of "access under pressure 2 inch" from COSASCO® which uses an external and trapezoidal thread ACME 3".

The principle of operation is based on mechanical transmission where a tip receives the impact of the PIG or sphere and moves vertically switching the position of the flag through internal magnetic coupling. In the model ADP-SP-MC, a remote signal is available with a SPDT device assembled.

Suitable for PIG's made of any type of material (metal, plastic or flexible for example), ADP have a robust design which allows the detection in both directions (bi-directional). The installation is simple, and does not require an specific alignment with the direction of the pipe flow. The ADP is fully compatible with the previous version and can easily replace the former model if necessary.

### Application

Detection of any type of PIG presence in a specific point of pipeline through the mechanical principle.

### Main Features

- Easy installation and maintenance without power supply or batteries
- Remote indication: sensor suitable for use in hazardous locations
- Adjustable tip length between 6 to 36mm allow mounting in large range of pipe wall thickness
- Simple: Do not require any additional elements on the PIG for its detection
- Robust: An internal chamber with double seal isolate the process avoiding possible leaks
- Reliable: Does not generate false alarms due to noise or interferences caused by fluid velocity in the pipeline



Code	
ADP - SP - XX	
MB	MB - Mechanic with magnetic coupling and local indication by flag
MC	MC - Mechanic with magnetic coupling, local indication by flag and remote indication for contact
SP	SP - Access under pressure to install and remove in pipeline
ADP	ADP - ASELCO pig detector

Operation in pipelines with liquids and gases	✓
Wetted parts and enclosure made in stainless steel	✓
Detection of any kind of PIG's	✓
Detection of PIG's in both directions of flow	✓
Installation or remove in pressurized pipes	✓
Local Indication	Yes (Red flag)
Operational pressure (max)	320 Kgf/cm <sup>2</sup> g
Operational temperature (max)	80° C
Flag reset	Manual
Flag positioning indication	360°
SPDT for remote indication suitable for hazardous areas (ADP-SP-MC model only)	Yes - Ex d IIC T6
Tip length adjustment	Yes - 6 to 36mm

