



## PIG SIGNALLER DATA SHEET

### Bi-directional mechanical-Visual – Mod. PS MC TCD2

#### DESCRIPTION

Pig signallers are fitted to launcher and receiver units to confirm the launch / arrival of a pig and also along the pipeline length.

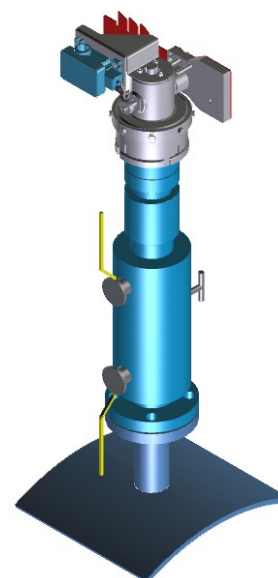
They can be used to detect the passage of all types of pigs.

TCD Italia pig signallers operate on a mechanical principle where no dynamic seals are used.

When the pig passes, the probe which protrudes into the pipeline, transfers the vertical movement to the devices which in turn move the flag in a vertical position.

Once the signaller has been activated, then to be manually re-set by the operator.

The unit is designed and manufactured at our workshop in Mantova, Italy.



#### Make a Difference

Adjustable Pig Signaller connection with 25 mm stroke

Extractability with pressure line

Double OR for slip-off seal for greater safety

Suitable for horizontal and vertical installations

The indicator (flag) can be adjustable for the best visibility

Suitable for Proximity/Limit Switch installation with hermetically sealed for hazardous applications

#### TCD Italia srl

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Partita IVA : 02453260206  
Cap. Soc. : 12.500,00 euro i.v.



## DESIGN DATA

| Design Code                                                 |      | ASME VIII Div.1 |
|-------------------------------------------------------------|------|-----------------|
| Piping Class                                                | Ansi | 150÷2.500       |
| Design Pressure (max.)                                      | barg | 200             |
| Operating Pressure                                          | barg | TBC             |
| Hydraulic Test Pressure                                     | barg | TBC             |
| Design Temperature                                          | ° C  | TBC             |
| Operating Temperature                                       | ° C  | TBC             |
| Pipe Diameter                                               | inch | TBC             |
| Pipe Thickness                                              | mm.  | TBC             |
| Stand off Lenght (from Nozzle Flange face to internal Pipe) | mm.  | TBC             |
| Corrosion Allowance                                         | mm.  | TBC             |
| Mounting Connection                                         |      | Flanged         |
| Removable under Pressure                                    |      | Yes             |
| Shut-off full bore Valve                                    |      | Yes/No          |
| Flag Indication                                             |      | Yes             |
| Removal Tools                                               |      | Yes/No          |
| Proximity Switch                                            |      | Yes/No          |
| Junction Box                                                |      | Yes/No          |

## MATERIALS

| Body                | ASTM | SS 304       |
|---------------------|------|--------------|
| Flange              | ASTM | A105         |
| Internals           | ASTM | SS 316       |
| Seals (O Ring type) | /    | PTFE / Viton |
| Valve Body/Trim     | ASTM | A105/ SS 316 |
|                     |      |              |

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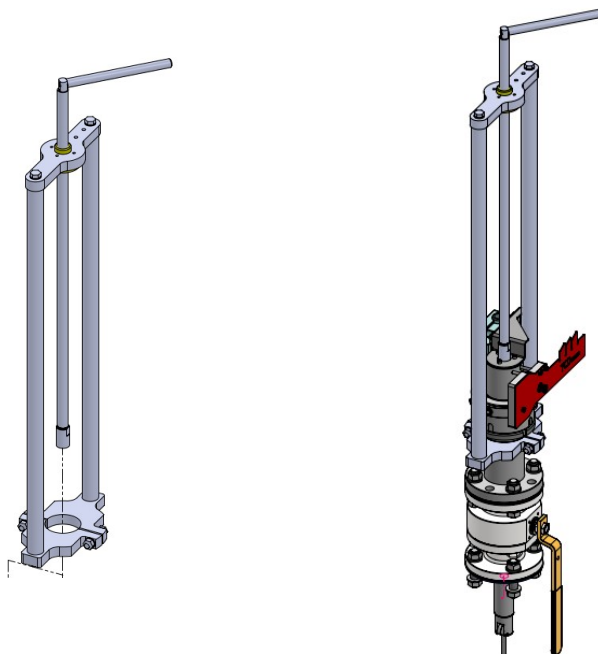
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## ACCESSORIES

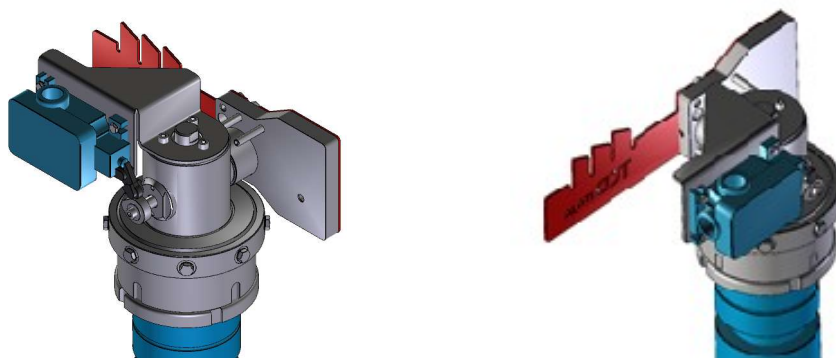
### REMOVAL TOOLS

Jacking devices are available for the safe removal of the valve model while the pipeline remains under pressure.



### PROXIMITY SWITCH

The proximity switch are hermetically sealed for hazardous applications and allows remote control  
ATEX Junction Box Ex d IIC/IIIC T6/T4





## APPLICABLE STANDARD

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- ASME V Non-destructive examinations
- ASME VIII Div.1 Design, fabrication, inspection, testing, and certification of pressure vessels
- ASME IX Welding and Brazing Qualifications
- ASME B16.5 Flanges up to 24"
- ASME B16.20 Metallic Gaskets for Pipe Flanges-Ring Joint, Spiral Wound & Jacketed
- ASME B16.21 Non-metallic Gaskets for Pipe Flanges
- ASME B31.3 Design, fabrication and testing of process piping
- ASTM or EN equivalent Materials

## SURFACE PREPARATION

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- FOR STAINLESS STEEL PARTS: Pickling & Passivation
- FOR CARBON STEEL PARTS (VALVE & BODY SUPPORT): Final Painting BLU RAL 5005 (150 micron)
- FOR CARBON STEEL PARTS (EXTRACTION TOOL): Final Painting YELLOW RAL 1003 (35 micron)

## INCLUSION

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- Installation, operation and maintenance manual
- Certificate of conformity.
- FAT test.

## EXCLUSION

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- Installation at job site
- 3rd party inspection and test costs
- Packing (quoted as Optional)
- All that not indicated in this offer.

## NOTES

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- DESIGNED GENERALLY IN ACCORDANCE WITH ASME VIII Div.1
- SIGNALLER INTERNALS CAN BE REMOVED UNDER PRESSURE by REMOVAL TOOL
- 3.1 MATERIAL CERT. FOR PRESSURE RETAINING COMPONENTS ONLY.
- NACE 0175/ISO15156 CARBON STEEL MATERIAL CERT. FOR PRESSURE RETAINING COMPONENTS (if request).