



Intrusive Omni Directional Pig Signaller



A pig signaller for flange, boss or hot tap boss applications

Why Pig Signallers are used:

Pig signallers are installed on pipelines to detect the passage of pigging tools or spheres.

Product Description & Function:

The PE Intrusive Omni Directional Pig Signaller is a mechanical / mechanical – electrical unit without dynamic seals that uses magnets to release a flag to indicate the passage of pigging tools or spheres. The trigger is operated by a non-orientation sensitive (omni directional) trigger mechanism. This pig signaller can be supplied as flange mounted, conventional welded boss mounted, mounted via an isolation valve or compatible with hot tap boss.

Benefits of PE Pig Signallers:

- > No dynamic seals avoiding possible leak paths.
- > Ease of orientation during installation due to omni directional trigger.
- > Easy to install due to compact nature and lightweight.
- > Suitable for all pipelines over 2" in diameter.
- > Where specified, can be removed under pressure with hot tapping tool & adaptors.
- > Can be fitted with isolation valve enabling maintenance without shutting the line down.
- > Flag indicator latch closed to prevent any environment induced trips (e.g. due to high winds).

Features of PE Pig Signallers:

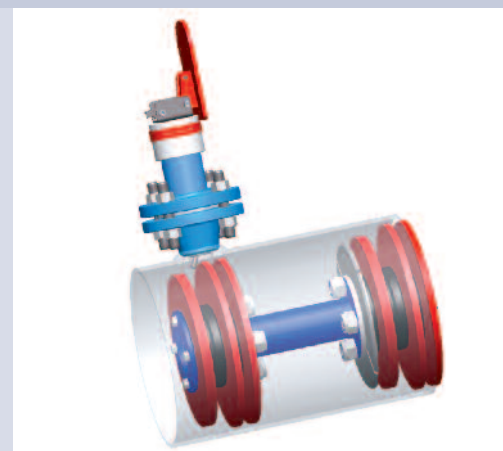
- > Compact and lightweight.
- > Can be specified for installation into hot tap bosses using standard hot tap tools.
- > Can be specified for subsea use.
- > Can be specified with self-coloured flag.
- > Hot tap unit incorporates a unique thread sweeping ring to avoid failed installations due to thread jamming.
- > Can be supplied with Eexd rated proximity switches and junction box to provide electrical signals independent to the mechanical flag.
- > Special soft trigger mechanism available to detect foam pigs.



Soft & standard triggers



Pig signaller on pipeline



CAD showing pig passing and flag tripping

PIPELINE ENGINEERING

"Engineered Products for the Pipeline Pigging and Flow Assurance Industry"





GENERAL FEATURES		
	STANDARD TYPE	OPTIONS AVAILABLE
TYPE / INDICATION	M/V	M/V/E E M/V/E/E E/E
MOUNTING	BOSS	2" FLANGED 1.5" FLANGED THREDOLET
SUBSEA	YES	CONTACT WITH REQUIREMENTS
DESIGN CODE	ASME VIII	CONTACT WITH REQUIREMENTS
NACE MR – 01- 75	YES	ALL WETTED PARTS FOR SOUR SERVICE
FINISH	TRANSIT PRIMER COAT	CONTACT WITH REQUIREMENTS

OPERATING PARAMETERS		
	STANDARD TYPE	OPTIONS AVAILABLE
DESIGN PRESSURE	CLASS 1500 (3705 PSI)	UP TO CLASS 2500 (NON HOT TAP) 0 -1440 PSI (CLASS 600 HOT TAP)
DESIGN TEMPERATURE	0 - 100°C	-50°C TO +125°C – CONTACT WITH REQUIREMENTS

MATERIALS		
	STANDARD TYPE	OPTIONS AVAILABLE
BOSS	API 5L X52	316L 304L A105 A350 LF2 A694 F52 INCONEL DUPLEX
BODY	316 STAINLESS STEEL	304L INCONEL DUPLEX
INTERNALS	STAINLESS STEEL	316 SS INCONEL DUPLEX
SEALS	VITON	VITON VITON AED EPDM HYDROGENATED NITRILE

OPTIONAL EXTRAS		
	STANDARD TYPE	OPTIONS AVAILABLE
PROXIMITY SWITCH	ES1021 – BRASS CASING	ES1021 – SPDT c/w ½ " NPT – 316SS ES1022 – SPDT – 316SS BRASS
JUNCTION BOX	TYPE 3004 – CAST IRON HDG	TYPE STB 1 STAINLESS STEEL TYPE 8118 FIBRE POLYESTER RESIN
REMOVAL TOOL	HOT TAPPING TOOL	HOT TAPPING MACHINE – UP TO CL600
ADJUSTABLE TRIGGER	YES	
EXTENDED BOSS	NO	YES. CONTACT WITH REQUIREMENTS.

WHEN ORDERING PLEASE INCLUDE THE FOLLOWING INFORMATION AS A MINIMUM:
 RUN PIPE N.S e.g. 12" NS
 WALL THICKNESS e.g. 9.5mm OR Schd. 40
 SERVICE e.g. CRUDE OIL, GAS, ETC
 TAG NUMBERS
 OPERATING TEMPERATURE
 DESIGN TEMPERATURE
 DESIGN PRESSURE

DETAIL REQUIREMENTS
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