



PIPELINE ENGINEERING RAPID OPENING END CLOSURE

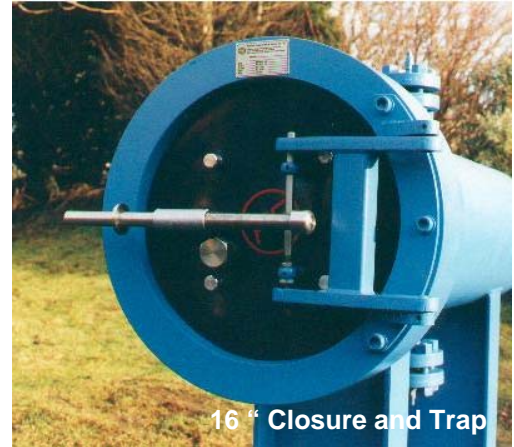
Open & closes within 30 seconds...

Long life, simple to maintain...

3 levels of safety interlock...

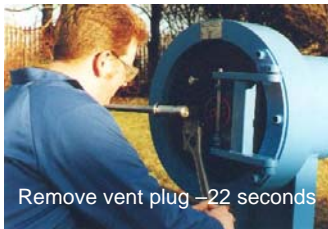
Low cost, quick delivery...

Pipeline Engineering is a leading company in the design, manufacture and supply of pigging and isolation equipment to the worldwide oil and gas pipeline industry. Building on their 30 years of experience in the industry, PE has launched its all-new *Rapid Opening End Closure* providing fast access to pipelines and pressure vessels.



16 " Closure and Trap

The closure has been specifically built to meet the needs of Pipeline Engineering's customers:



Remove vent plug – 22 seconds



Release closure – 3 seconds



Open door – 4 seconds

- > **Safety-** built to meet all the international codes and key operator specifications. *Robust components* to avoid damage caused by misuse. Upto three levels of *safety interlock* to avoid opening under pressure.
- > **Speed and simplicity of opening** – two simple movements, removal of vent plug and the 25° turn of the handle is all that is required to rapidly release the closure. This also makes it highly adaptable for use *subsea* using ROVs.
- > **Ease of maintenance** – designed for ease of maintenance, using a *simple lip seal* arrangement.
- > **Low cost and quick delivery** – using the latest in CAD/CAM links and a design for manufacture culture, the closure is produced at a highly competitive price in exceptionally fast time-scales.

PIPELINE ENGINEERING

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



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Technical data

Closure size:	6" ns – 48" ns (upto 60" ns specially built to contract)
Pressure rating:	ANSI #150 - #1500 as standard (#2500 and above built to contract)
Design codes:	ASME VIII, British Standard BS5500, API 6H, B31.3, B31.4, B31.8
Design:	2 piece with hub and set-in door, retaining segment blocks, pressure energised lip type seal and safety vent/bleeder.
Materials:	Hub Standard: ASTM A105, A350 LF2, A694 F52 Forging. Optional: BS1501, A694 F60-F65, ASTM A182 Stainless Steel.
	Door Standard: ASTM A516, Gr. 70 Optional: ASTM A105, A350 LF2, A694 F52-F60-F65, BS1503. ASTM A182 Stainless Steel.
	Segments Standard: 316 Stainless Steel. Optional: A182 / Duplex Stainless Steel.
	Vent/bleeder screw 316 Stainless Steel
	Seals Standard: Nitrile / Viton. Options: Explosive decompression resistant / to suit service.
Usage:	Pig launchers and receivers, filter vessels, any pressure vessel where access is required.
Design features:	Horizontal mounting hinge arm fitted to closure right hand side as standard. Full 270 deg. swing on door hinge (adjustable for height and reach).
Standard supply includes:	GA drawing; basic calculations, hydrotest certificate, pressure retaining material certificates; NDE reports – MPI examination of bracket welds; installation, operation and maintenance instructions; protection – one transit coat zinc rich primer; manufacturing data dossier.
Other options:	Mechanical key interlock; electrical proximity switch; FEA analysis/3 rd party design appraisal; NDE (UT/MPI/DPI) of hub/ door forging/plate material; protection – paint finish, 3 coats to offshore/UK North Sea specification. Maintenance and service available from Pipeline Engineering.

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