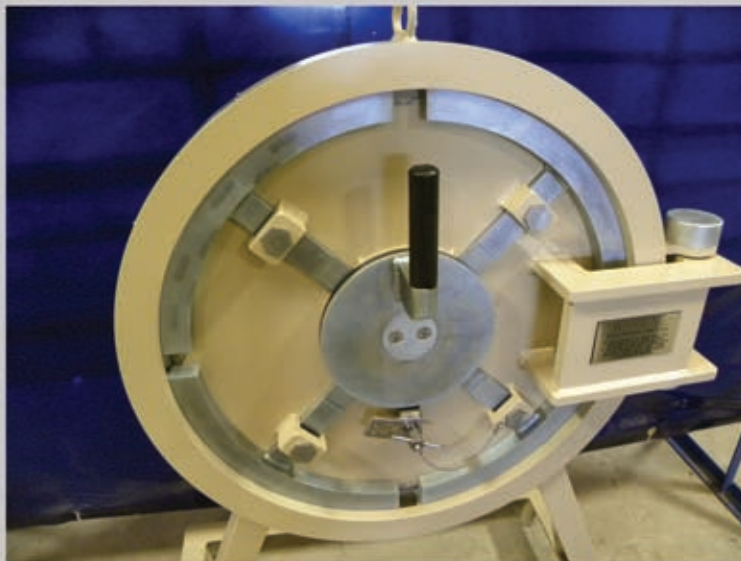


TWINLOCK Closure

QUICK OPENING

Pipeline Equipment, Inc. has designed and developed a new quick opening closure. This innovative, patent pending closure system is safe and easy to operate and may be used in a broad range of applications. With more than 15 years of engineering, design and machining experience Pipeline Equipment, Inc. can design closures per customer specifications and meet quick deliveries.



EASY TO OPERATE

Operation of the closure can be accomplished by one man without the use of tools. The integration of the locking segments, locking mechanism and door handle into the door provides a compact and efficient design. To open the door, the handle requires only a quarter turn, which moves the locking segments from their stowed position. The internal components of the locking mechanism are protected by a weather seal and are stainless or plated to protect them from rust and corrosion. The o-ring groove is machined into the door with the hub o-ring seat area recessed to protect the seat during pig launching and receiving. This configuration assures a positive seal when the door is closed and locked.

INTEGRATED TWIN LOCK

The safe operation of the closure is ensured by a redundant design in which the closure cannot be opened without the removal of the pressure alert valve and the movement of the safety lock. The pressure alert valve also provides the operator an indication of the presence of any residual pressure in the vessel should the operator inadvertently attempt to open the closure prior to all pressure on the vessel being relieved. Additionally, the safety lock mechanism prevents the door handle from being moved to the open position until after the pressure alert valve has been safely removed. The safety lock must also be returned to the locked position in order for the pressure alert valve to be installed.





TWINLOCK Closure

DESIGN SPECIFICATIONS

NOMINAL DIAMETER RANGE:	6" - 48" STANDARD, CUSTOM SIZES AVAILABLE ON REQUEST
DESIGNED AND MANUFACTURED IN ACCORDANCE WITH:	ASME VIII, DIVISION 1 & PRESSURE PIPING CODES B31.3, B31.4 & B31.8
ORIENTATION:	HORIZONTAL, VERTICAL, OR INCLINED
SAFETY FEATURES:	INTEGRATED SAFETY LOCK AND PRESSURE ALERT VALVE
PRESSURE CLASS:	150#, 300#, 600#, 900#, 1500#

MATERIALS

HUB & DOOR:	A105, A350 LF2, HIGH YIELD, STAINLESS
PRESSURE ALERT VALVE:	316 STAINLESS STEEL
LOCKING SEGMENTS:	STAINLESS OR PLATED
LOCKING SEGMENT ARMS:	STAINLESS OR PLATED
O-RING:	BUNA-N, VITON, CUSTOMER SPECIFIED

OPTIONS

WELD BEVEL:	CUSTOMER SPECIFIED WELD BEVEL
FLANGED:	AVAILABLE ON REQUEST
COATING:	PER CUSTOMER SPECIFICATIONS