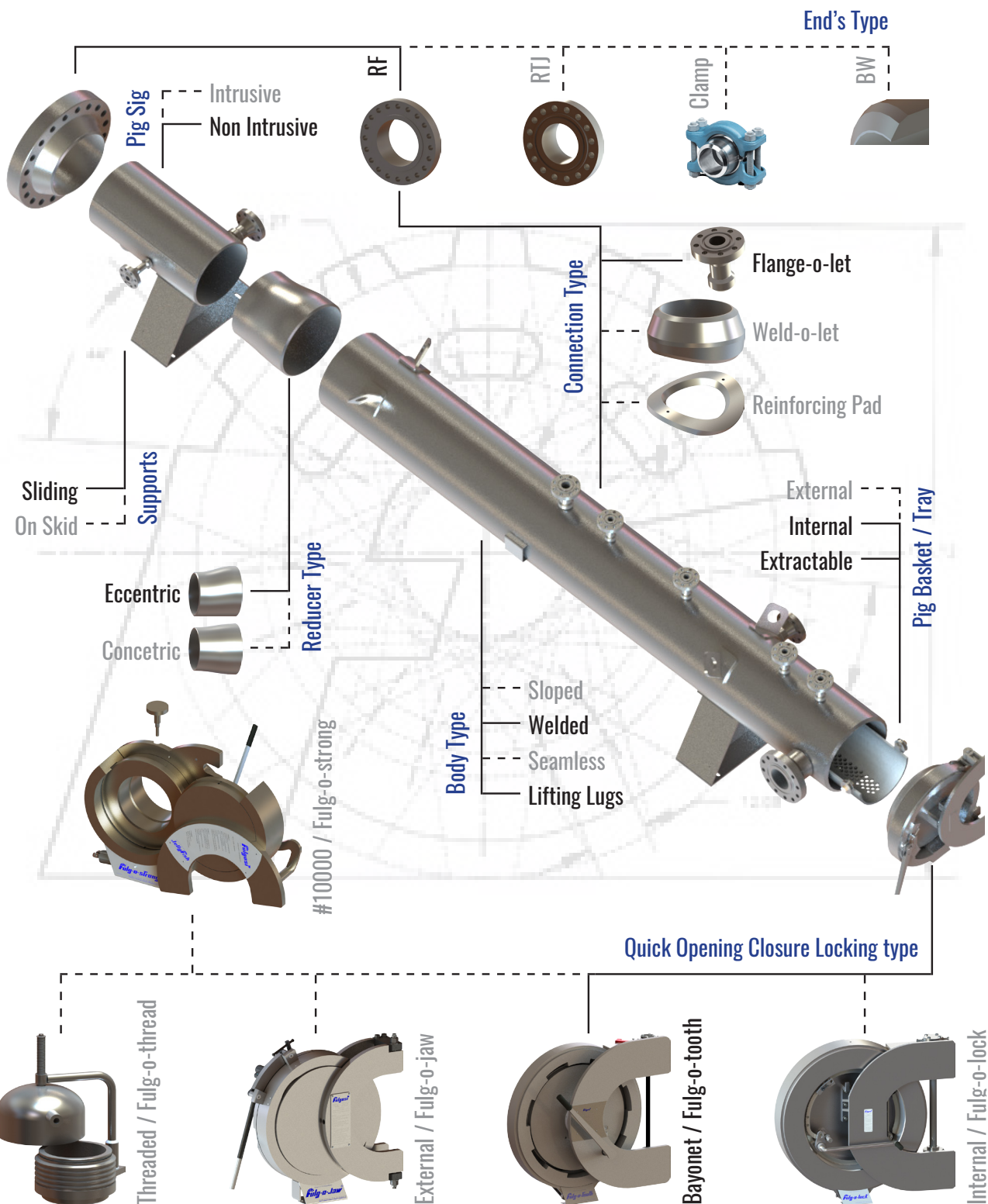


Fulg-o-Traps®

OVERCOME THE PRESSURE



GROWING IN PROGRESS

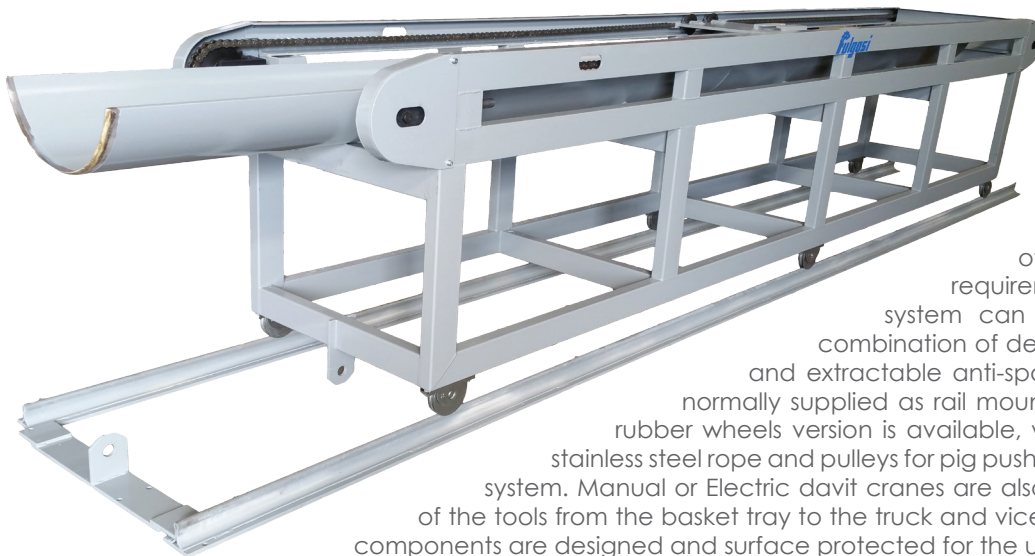
Traps Layout

The devices can be configured as Horizontal with fixed or sliding saddles, as Skid Mounted Traps including their pig handling systems or as Vertical using counterweighted Quick Opening Closures with big sizes assisted through Davit cranes. The bodies are usually composed by three main sections: Barrel, Pipeline Pup and Conical Shape Eccentric or Concentric Reducer, the most common reducing ratio for Natural Gas is roughly about 6" to 8" diameter difference between pipeline pup and barrel diameter which can be reduced up to 2" of difference for denser fluids. Q.O.C. can be of Internal locking band type Fulg-o-lock™, Bayonet Type Fulg-o-tooth™, External Jaw type Fulg-o-jaw™, Threaded Type Fulg-o-thread and, for class ratings over #2500, the newly designed Fulg-o-strong™. Lifting lugs and earthing bosses can be supplied according to specific requirements.



Connections

Normal or Long Welding Neck Flanges (L/WN) RF/RTJ/Clamp $\varnothing = 24"$ according to ASME B 16.5; $\varnothing > 24"$ according to ASME B 16.47; if required Bevelled Ends as per ASME B 16.25. Pig Signallers: Mechanical Pig Passage Indicator with visual flag and manual reset, also available Electrical Pig Sigs and Non-Intrusive type all configurable with remote controls and manual or assisted reset.



Pig handling systems

Based on the type of application and specification requirements the Pig Handling system can be composed by a various combination of devices such as external, internal and extractable anti-spark Pig Basket or Tray that are normally supplied as rail mounted moving type, but also on rubber wheels version is available, with manual or electric winch, stainless steel rope and pulleys for pig push (insertion) and pull (extraction) system. Manual or Electric davit cranes are also available for easy download of the tools from the basket tray to the truck and vice versa. All pig handling system components are designed and surface protected for the use in outside service.



THE EASIER, THE FASTER, THE SAFER

As simple as effective

Safety details

The most important prescription to be met is the inhibition at the Pig Launcher or Receiver Quick Opening Closure being opened if there is still fluid pressure inside the vessel and this requirement is usually fulfilled in one or all the following three ways at choice of the Customer specification:

- **Mechanical safety bleeder interlock Fulg-o-safe™** (standard) is a safety screw that obstructs an hole placed on the door and, in order to operate the Q.O.C. this screw must be removed, therefore, being directly in contact with the pressure inside the vessel, if there is still pressure inside, a whistle can be heard by the operator due to the fluid bleeding by the unscrewed screw in order to let him stop the opening process and verify the valves again.

- **In pressure locking device Fulg-o-thrust™** (optional) is a safety system that works with the fluid contained in the vessel like an hydraulic ram in such a way that if there is still pressure inside the vessel, the system stays "extended" in order to lock the door and prevent the opening.

- **Interlock protection** (optional) is made by mechanically locking the opening manoeuvres by means of interconnected devices that inhibits wrong sequenced movements, i.e. prior the mechanical unlock of the Quick Actuating Closure the system assures that the valves insulating the affected chamber are in the supposed position.

Also electrical or magnetic devices can be fitted in order to remotely control the behaviour and the status of the Pig traps. These operational details are only for devices description purposes and not for maintenance, operational execution nor for the installation, always refer to the relevant Manuals prior to start any action on a Pig Launcher or Receiver even if not in service.





SETTING A NEW STANDARD

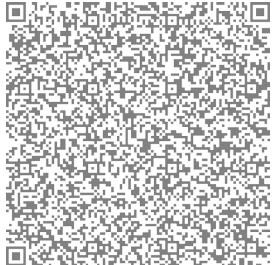
Welcome in our e-Workshop system

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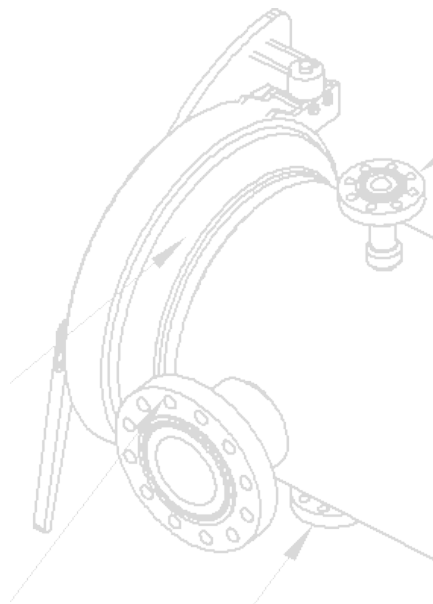
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Real Time Customer Service created with the aim to be an active support to all technical, quality and logistic matters. Through e-Workshop it is possible to manage the contents of each manufacturing job-order directly online, by monitoring their status or by the download of relevant documents such as material certificates as well as welding traceability and N.D.E. reports. There is also a logistic management tool aimed at the real time shipping data to inform the Customer concerning the material readiness, its weight and volume as well as a practical forecasting tool which shows the near future foreseen shipments.



Device Typical Dimensions for intelligent pigging

Neck Ø	Barrel Ø	Total Length
4"	8"	4000 ÷ 8000 mm
16"	22"	6000 ÷ 10000 mm
30"	38"	8000 ÷ 12000 mm
36"	44"	10000 ÷ 12000 mm
56"	64"	12000 ÷ 14000 mm

Typical materials EN 10204 3.1 / 3.2

API-5L gr.X52 ÷ X70
ASTM A333 gr.6
ASTM A420 gr.WPL6
forgings to ASTM A694 gr.F52 ÷ F70

Typical European compliance

2014/68/EU - Pressure Equipment Directive (PED)
94/9/EC - ATEX (Explosive Atmosphere)

