

# 100% absolute isolation

ONIS fast self-locking blind plate device is superior to traditional solutions: 8-shaped blind plate



1" to 52"  
150# to 2500#  
-104°C to 760°C

Enhance safety and efficiency

Blind sealing only takes a few minutes

Single person operation without tools



Offshore platform | Pipeline | Torch | Steam cracking furnace  
Reactor | Any harsh operating condition

# ONIS Blind Plate History



2016

Establish Kuala Lumpur office

2015

Establish an Abu Dhabi office

2004

Socomet ONIS has been renamed ONIS

2002

Obtain Socomet ONIS  
ISO 9001:2008  
certificate



1995

Establish a Houston branch to better  
serve North American customers.

1979

Patent inventor Jean Francois  
Favreau ONIS created Socomet  
ONIS



An operator can switch blind plates in minutes without the need for any tools, which is definitely superior to traditional 8-shaped blind plate replacement.

**ONIS** values environmental protection, enhances production capacity and safety.

- The traditional blind sealing method is slow, dangerous, and takes a long time to operate
- ONIS quick self-locking blind plates can greatly reduce downtime in many daily maintenance procedures.
- ONIS provides higher safety and efficiency than traditional 8-shaped blind plates.



## ONIS Manufacturing Plant

- Design Department
- R&D Department
- 10000 ft<sup>2</sup> workshop
- 2 paint workshops (1000 ft<sup>2</sup>)
- 40000 ft<sup>2</sup> warehouse
- 3 cranes (5, 12.5, and 25)
- 1 test bench



# Design concept of fast self-locking blind plate

## Design concept:

No dead space (no cavitation),  
 No internal gaskets,  
 few moving parts,  
 Self locking design  
 There are only four pads on the skateboard,  
 API-607 fire certification

## Design:

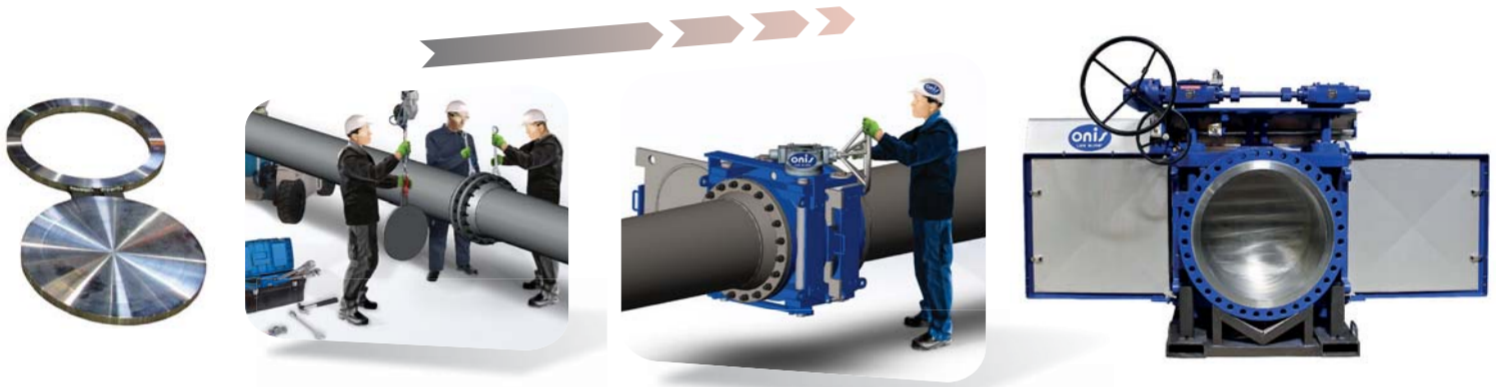
ASME Section VIII Div-1B  
 ANSI B31.3  
 ASME B16.34,  
 There are no welding points in the contact area with the medium.

## Material Science:

Forged up to 42 inches  
 Welding is used for sizes above 42 inches  
 ASME Sect II part D/ B31.3  
 according to  
 ASTM/EN10204  
 NACE cert.  
 MR-0175/ISO15156.

## Testing:

Quick self-locking blind plate 100% testing,  
 Following ASME B31.3,  
 API598, API6D,  
 MSS SP61.



## Traditional method

- ✓ Close the upstream shut-off valve
- ✓ Pipeline pressure relief
- ✗ Remove the bolts
- ✗ Expand the flange by at least 10 to 15 mm
- ✗ Replace the 8-shaped blind plate and insert a new winding gasket
- ✗ Locking bolt

**Blind sealing time**  
 2-10 hours

A large amount of manpower and tools  
 (Crane, heavy tools, hands)

## ONIS blind flange

- ✓ Close the upstream shut-off valve
- ✓ Pipeline pressure relief
- ✓ Unlock blind plate
- ✓ Open the half body of the blind plate (hand crank or gearbox)
- ✓ Unlock blind plate
- ✓ Clamp the half body of the blind plate

**Blind sealing time**

< 8"	1 minute
10" to 24"	5 minutes
> 26"	15 minutes

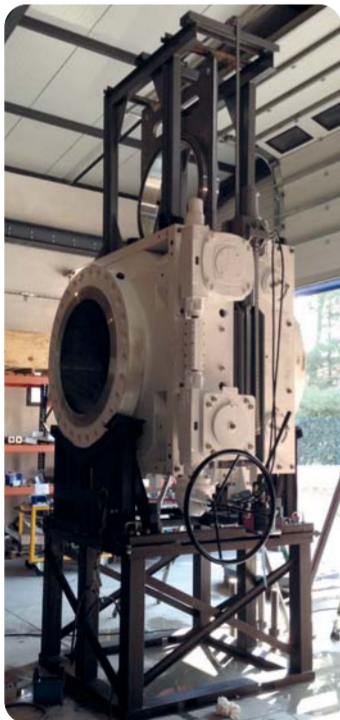
Single person without tools

This process needs to be repeated every time the blind plate is switched

# Quick self-locking blind plate range



Model	Model PLB : ½" – 10" DN 12 – 250	Model PLR : 10" – 42" DN 250 – 1050	Model MPL : > 42" > DN 1050
Half body and clamping operation	Hand joystick	handwheel (Gearbox)	handwheel (Gearbox)
Pinch point	4-point clamping	4-point clamping	6 to 12 clamping points+transverse clampingmechanism
Blind plate sliding	Skateboard guidance system, Extra rollers are required for sizes over 3 inches	Skateboard guidance system with rollers	Skateboard guidance system with rollers



## Technical Specifications

### Standard parameters

- Steel A350 LF2 forged half body
- Flange connection RFSF (flange face)
- Skateboard stainless steel (304L or 316L)
- Only 4 FKM sealing rings are located on the skateboard (without internal gaskets)
- Self-lubricating bearing
- Half body action:
  - > Hand cranked lever operation up to 10 inches
  - > Operation of gearboxes over 10 inches
- Manually moving skateboard



ONIS quick self-locking blind plate can meet your specification requirements...

### Flange connection

- Flangestandard: EN 1092-1, B16-5, B16-47
- RF, RTJ
- Butt welding
- Pressure relief port
- Special requirements

### Half body and skateboard materials

- High-temperature steel
- Shugang: Monel 400, Nickel 200, duplex stainless steel, etc
- Coating: British high nickel, nickel, Monel 400, PTFE

### Seal

- FKM gasket
- Graphite gasket
- FKM overlay PFA or FEP gasket
- Can provide special gaskets

### Other

- Pressure relief port
- Operator extension
- Safety lock
- Mechanical interlocking
- Stainless steel protective cover
- Double blind plate...

# Special Products



## ONIS HI-SAFE - D3B Double partition emptying blind plate

ONIS D3B is a complete absolute isolation solution that provides two block valves and one blind plate on one device

### Features:

- If the valve remains open, the ONIS quick self-locking blind plate and the mechanical safety interlock between the valve can prevent any operation of the line blind plate
  - Including pressure relief port
- Minimize dead corners and minimize product losses during operation

## Filter Quick Switcher



ONIS Quick Filter Switcher Design optimizes the filter replacement process on pipelines.

### Features:

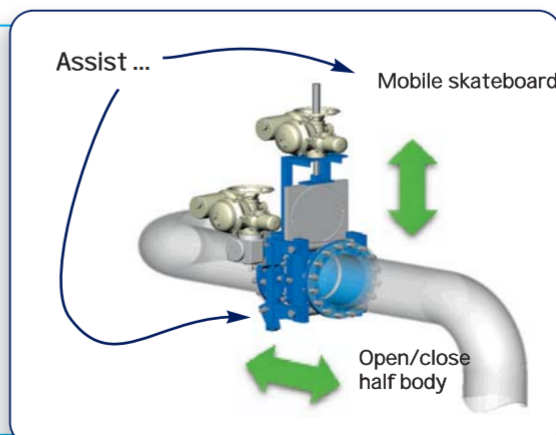
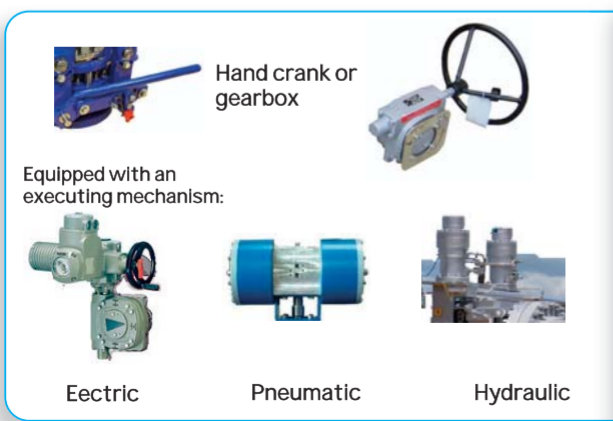
- Reduce downtime to a minimum
  - Filter bursting disc replacement does not require tools
- When the process is running, the new filter bursting disc can be placed in the appropriate position
- Design to prevent damage when inserting filters/rupture discs
  - During the operation, the second filter can be cleaned

## Explosive disc quick switch



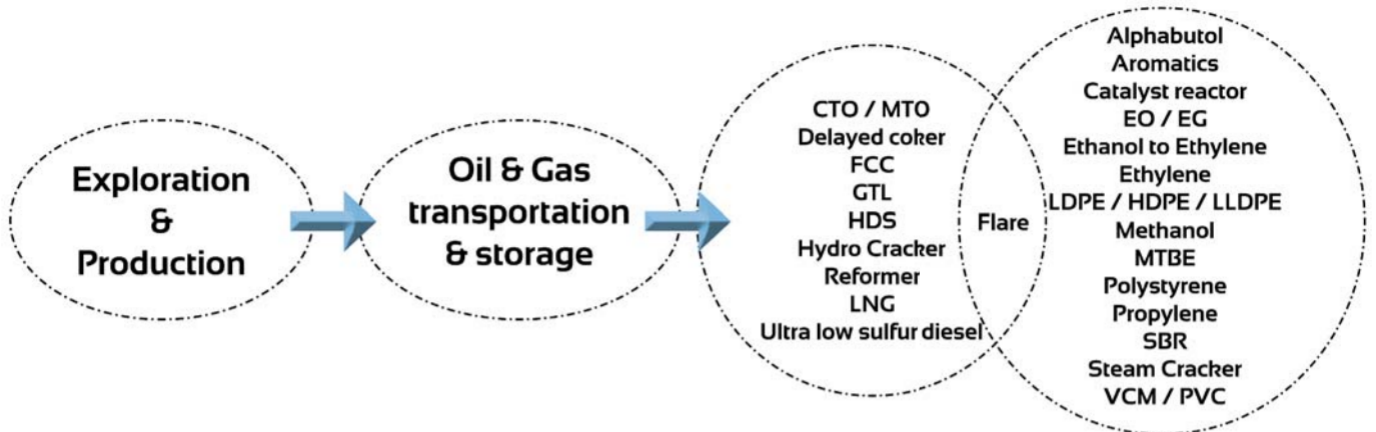
ONIS explosive disc quick switch design optimizes the process of explosive disc replacement.

## Blind panel options



Safety equipment: Safety lock on blind plate or half body  
Location information: limited in both directions

# Application



ONIS quick self-locking blind plate can be used for any gas, liquid, high viscosity or dust process, hydrogen sulfide, nitrogen, naphtha, ethane, diesel, natural gas, gasoline, chlorine, cyanide hydride, etc ..



## ONIS partial key performance ...

Logos shown on the map include: DUPONT, BOREALIS, BASF, Williams, ConocoPhillips, CHEVRON Phillips, HUNTSMAN, Dow, Honeywell, SASOL, ExxonMobil, PEXEMEX, PDVSA, Braskem, PETROBRAS, Statoil, lyondellbasel, ARKEMA, Ent, TOTAL, HAPITA, CSMITE, OMV, REPJOL, Sadara, SABIC, Qatofin, Borouge, PetroChina, AIR LIQUIDE, Formosa Plastics, Cenos, ICA, Technip, Linde, ABB, FW, CBI, JACOBS, HEURTEY PETROCHEM, and S&B.

Since 1979, over 10000 ONIS fast self-locking blind plates have been used worldwide

# Service

ONIS provides professional services to maintain or improve customer operations. We assist our esteemed clients in:



- 1• Equipment and spare parts supply
  - 2• Maintenance and renovation operations
  - 3• Personnel training and qualification certification
  - 4• Inspection and troubleshooting
  - 5• Assist in startup and debugging
  - 6• Decomposition and maintenance assistance
  - 7• Upgrade research and design modifications
- (Transform and remove bottlenecks).

# On site operator training

All operators should receive training to increase:

- Safety (most accidents are caused by human error)
- Efficiency (reducing operating time)

## Safety training steps

- Operating principle and overview of ONIS fast self-locking blind plate
- View all ONIS conditions installed on site
- Fix bad habits or misoperations
- Fast blind plate operation frequency
- Method and steps for replacing gaskets
- Operate fast self-locking blind plates or samples of fast blind plates with students on site

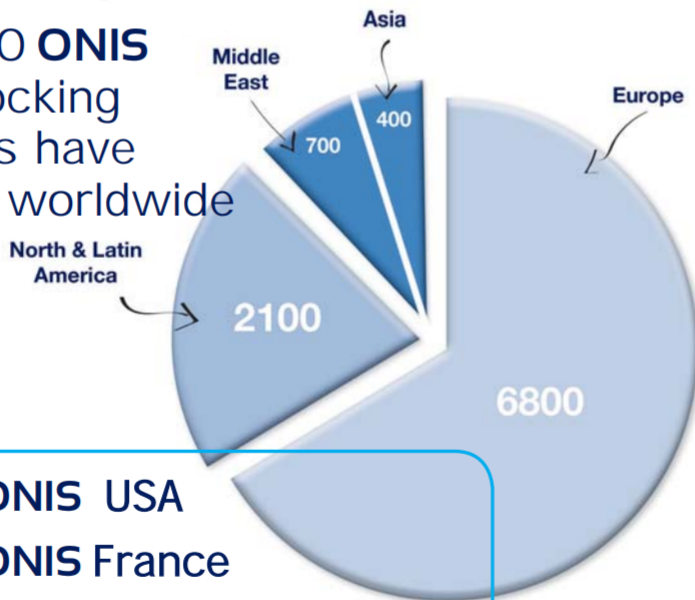
**Onis focuses on operational safety. Our services:**

- Personnel training during debugging and driving process
- As required, re certify the operator





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over 10000 ONIS  
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blind plates have  
been used worldwide



-  ONIS USA
-  ONIS France
-  ONIS Middle East
-  ONIS Southeast Asia
-  ONIS China



Offshore platform | Pipeline | Torch | Steam cracking furnace  
Reactor | Any harsh operating condition



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