

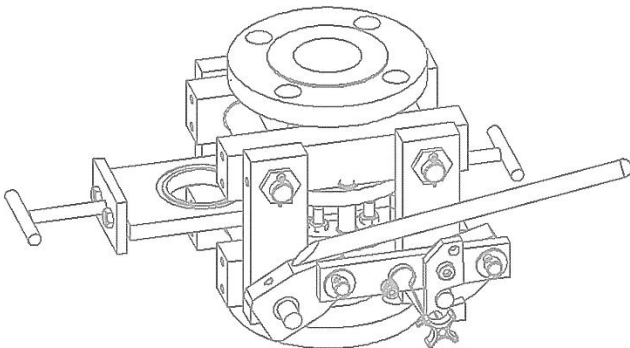


QUICK ACTION LINEBLIND

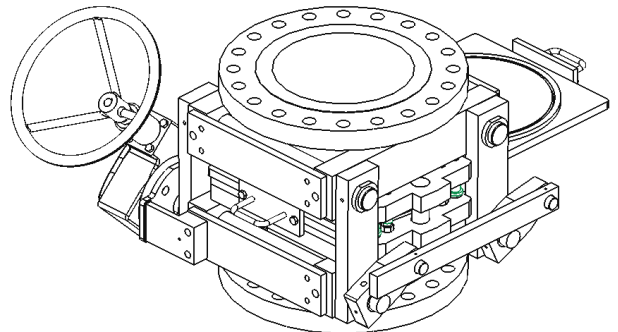


- INSTRUCTION MANUAL -

PLB Range



PLR Range





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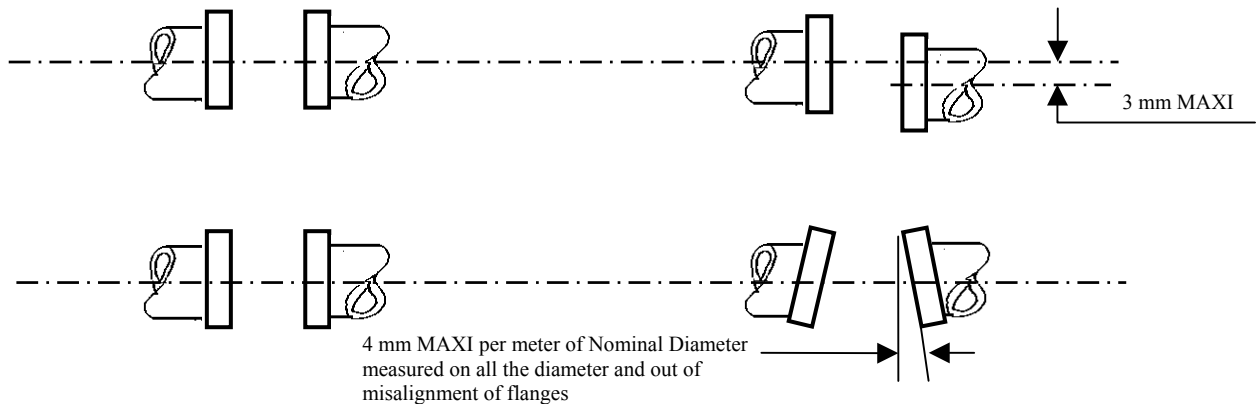


A- Instructions for use

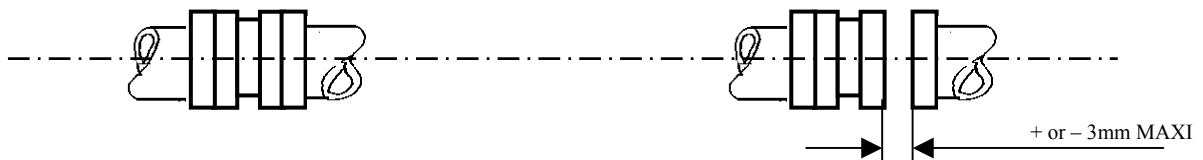
- 1- GENERAL REQUIREMENT FOR INSTALLATION
- 2- INSTALLATION ON HORIZONTAL OR VERTICAL PIPE
- 3- OPERATION CYCLE OF BLIDING WITH ONIS LINEBLIND
- 4- RANGE OF USE – ADDITIONAL PRECAUTIONS

1 – GENERAL REQUIREMENT FOR INSTALLATION

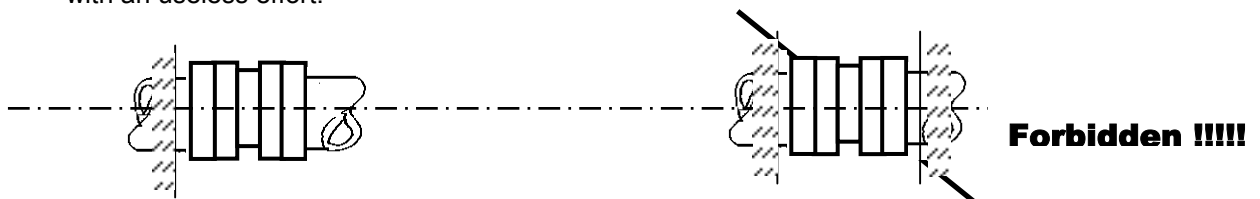
- Reduce pipe stress to a minimum
- Take care of flange alignment



- Install the ONIS lineblind in tight position (seats in clamped position)
- Check that clearance between flanges is equivalent to the flange to flange dimension of the ONIS Lineblind + 2 times the thickness of a flange's gasket.



- Keep flexibility for one of the two pipes to permit to clamp and spread the seats of the ONIS with an useless effort.

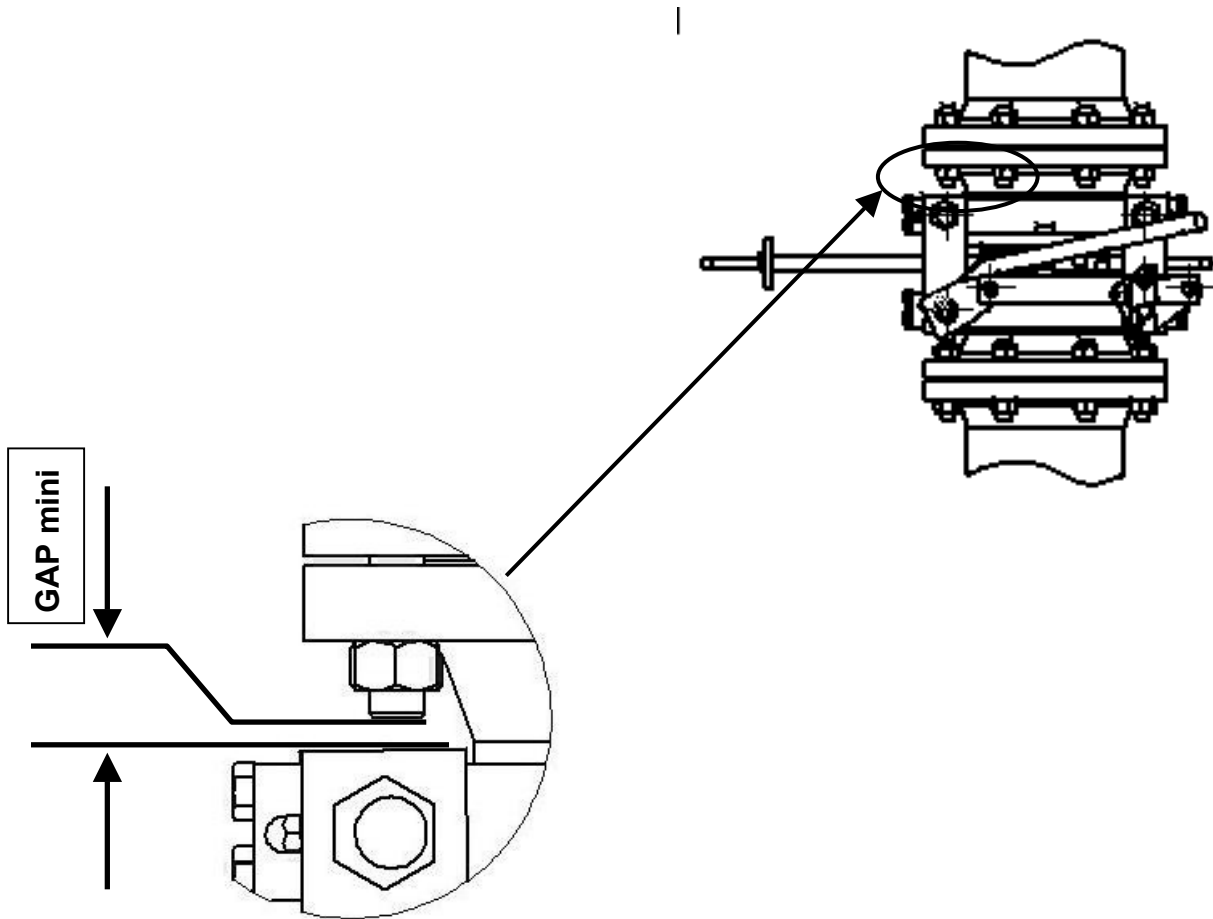


- Put the vent position on upper position when the gear box is equipped with
- Check the oil level for ONIS lineblind with gearbox control .

Before operation

- The sealing of the ONIS lineblind is ensured by seal contact on metallic surface. It is consequently essential that these two elements are not damaged prior to their installation.
- The ONIS lineblind is supplied with the sliding gate in open position, the flanges or weld necks are fitted with blinds or protection plugs to safeguard the extremities as well as the inner parts.

Additional Check point when lineblind is on line



Reinforcement must not be in contact with the stud bolts



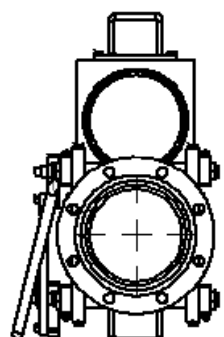
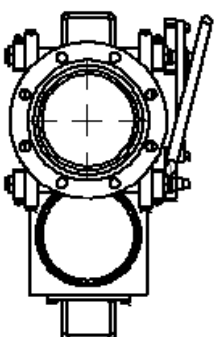
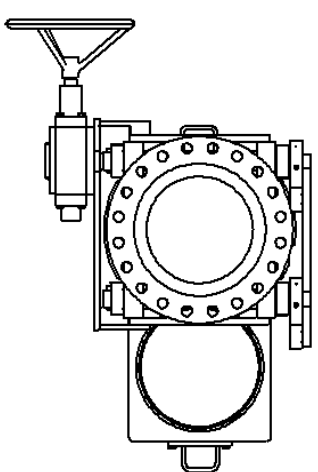
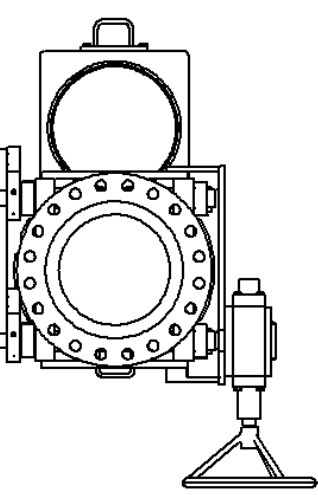
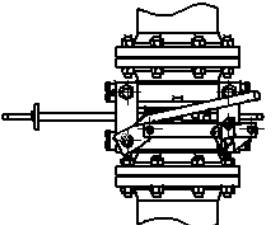
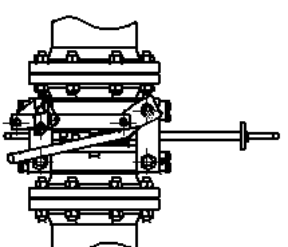
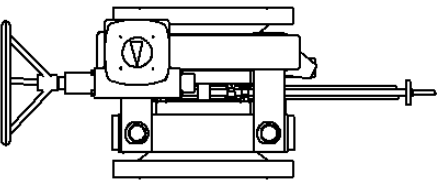
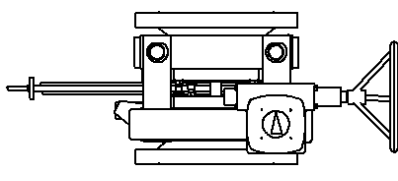
**INSTRUCTION MANUAL
ONIS LINEBLIND**

DOCUMENT : F36 Rev F
DATE : 25/07/05

2 - INSTALLATION ON HORIZONTAL OR VERTICAL PIPE

PLB – Manual lever operation

PLR – Manual gear box operation

Horizontal Pipe		Vertical Pipe	
<p>Slide movement parallel to the ground</p> 			
<p>Advantages / Inconvenients : - Recommended orientation</p>	<p>Advantages / Inconvenients : - Possible orientation</p>	<p>Advantages / Inconvenients : - recommended orientation</p>	<p>Advantages / Inconvenients : - possible orientation</p>
<p>Advantages / Inconvenients : - Recommended orientation - Safety lock is maintained is safety position by the spring and the gravity</p>	<p>Advantages / Inconvenients : - Possible orientation - Safety lock is maintained in safety position ONLY by the spring - Keep attention periodically to the good operation of the spring</p>	<p>Advantages / Inconvenients : - recommended orientation</p>	<p>Advantages / Inconvenients : - possible orientation – Not recommended for safety - Attention to the movement of the slide during operation</p>
<p>Slide movement vertical to the ground</p> 			
<p>ACCESSORY IS COMPLUSORY</p>	<p>ACCESSORY IS COMPLUSORY</p>		



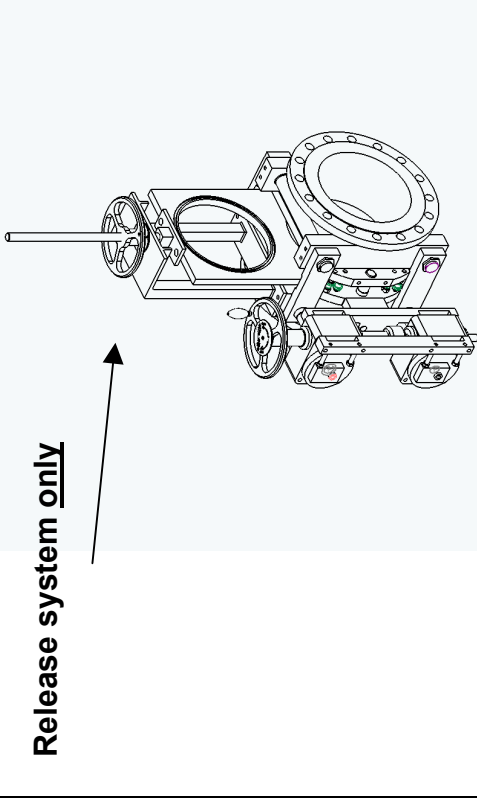
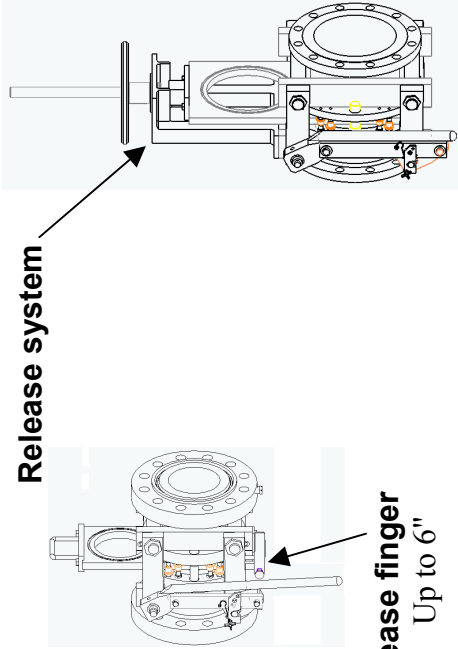
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PLB ACCESSORIES

PLR – MPL ACCESSORY

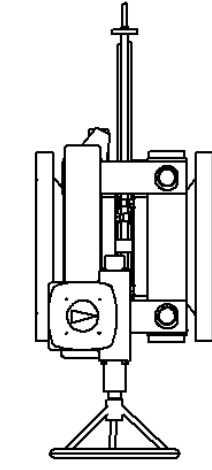
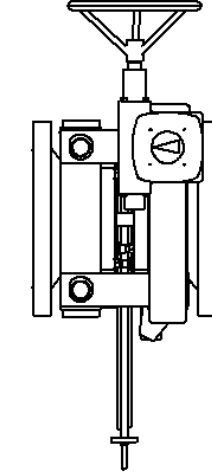
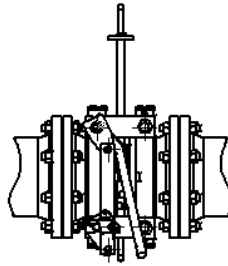
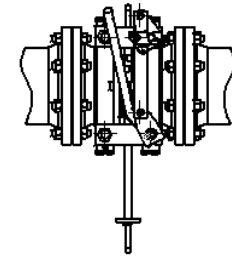
Horizontal Pipe



PLB – Manual lever operation

PLR – Manual gear box operation

Vertical Pipe



Advantages / Inconvenients :
- Recommended orientation
- Safety lock is maintained in safety position by the spring and the gravity

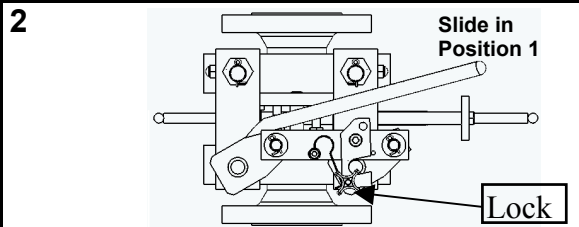
Advantages / Inconvenients :
- Possible orientation
- Safety lock is maintained in safety position ONLY by the spring
- Keep attention periodically to the good operation of the spring

Advantages / Inconvenients :
- recommended orientation

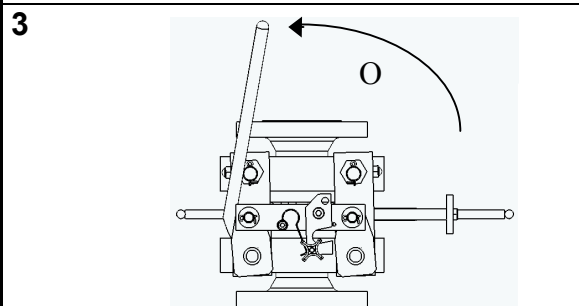
Advantages / Inconvenients :
- possible orientation

3 - OPERATION CYCLE OF BLINDING WITH ONIS LINEBLIND

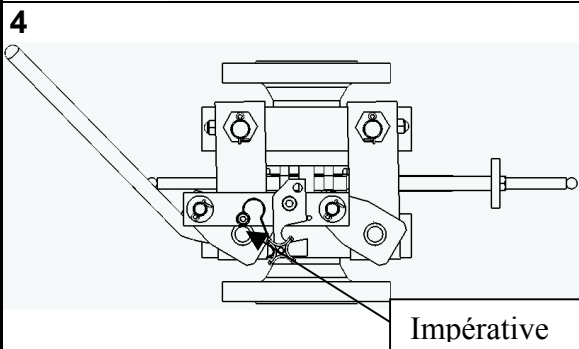
1 Drain and depress the pipe with the bleeder ports



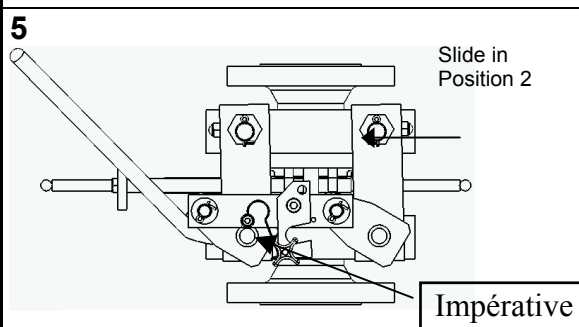
2.1 The ONIS blind is closed
2.2 The slide gate is in position 1
2.3 **CLEAN** or **CHANGE** the **GASKETS** BEFORE EACH OPERATION



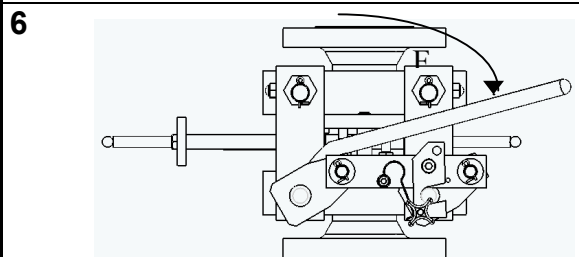
3.1 Unfasten safety lock
3.2 Rotate the lever or the gear box actuator on the stop



4.1 Handle the lever until the connecting rod come in contact with the crank shaft.
Important : The lineblind is completely opened when there is the contact.
Remarks :
The simultaneous rotation of the set of eccentric shafts actuated by the lever or the gearbox spread the seats in a continuous parallel manner. Guides prevent any loss of alignment of the pipe in an open position. The sliding gate is lifted and guided by the rollers and moves freely without friction of the seats.
Diameter inferior to 4" : lifting screws only
Diameter superior to 4" : screws and rollers for lifting



5.1 Keep the blind opened if it is necessary
Nota : If when we do not keep the lever, it comes back in a middle position, this is probably due to stress in the line.
So it is necessary to keep the contact between the connecting rod and the crank shaft in order to not damage the O'rings.
5.2 Move the slide to the position 2 until the stop-plate is in contact with the body



6.1 Close the blind,
6.2 Check if the bolt is in a good position
6.3 Check if the bleeder ports are closed (when applicable).

BEFORE ANY HANDLING :

- Close the upstream and downstream valve
- Decompress between the valves and the ONIS lineblind
- Clean the visible part of the spectacle plate
- Check the seals condition.



4 – RANGE OF USE – ADDITIONNAL PRECAUTIONS

Design conditions

The ONIS lineblind, which you have just acquired, was designed according to the information you have transmitted to us on the technical specification SOCOMET F03 when you have passed the order.

This ONIS Lineblind has been specifically designed for the pressures, the temperatures as well as products defined on the data sheet with the order. It is up to the user to verify the chemical compatibility of gaskets and materials in touch with products.

The maximum and minimum service pressures and temperatures are stamped on nameplate fixed on the body of the device.

ATTENTION: DO NOT CHANGE SERVICE CONDITIONS BEFORE CHECKING WITH SOCOMET STAFF COMPATIBILITY OF THE LINEBLIND WITH THE NEW SERVICE CONDITIONS.

Except specific request transmitted with the order, the lineblind have been designed for following conditions:

- Device without insulation
- No external pressure
- Ambient temperature between 0°C and 38°C
- Static pressure conditions

Following conditions are not included in standard lineblind design:

- Consequences due to bad weather or natural events (snow, sand, wind, earthquakes...)
- Decomposition of unstable fluids
- erosion
- hammer pressure reaction

Nota: On standard lineblind, no additional thickness is considered. Some over thickness can exist on certain lineblind. Please, contact our technical department for more information.

Complementary using precautions

Lineblind equipped with bleeder ports

- Check that the bleeder ports are accessible and connected to the pipes which recover the waste or enough taken away from the operator to avoid any poisoning.
- When lineblind is used on dangerous media, indicate on using procedure that the pipe must be flushed and neutralized from media before any operation.

At the time of the delivery, the lineblinds are equipped with stickers, which inform the staff that the lineblind cannot be use under pressure. Verify regularly that the stickers are still on lineblind. Pressure jauge can be installed on bleeder ports, to check the absence of pressure before the operation.



Automated lineblind

- In case of automated movement (spreading of the seats, movement of the slide gate), VERIFY THE GOOD FIXATION OF THE COVERS (SLIDE GATE + SHAFT CRANCKS) BEFORE OPERATING THE LINEBLIND IN AUTOMATIC MODE.
- Do not manipulate manually the lineblind without having to stop the automated components air or electric supply.

Additional points

High pressure

- The ONIS lineblinds have been designed for maximum allowable pressure transmitted with the order and mentioned on the builder nameplate. It is the responsibility of the end user to set up safety devices to limit the overtaking of these services conditions.

External fire

- Important: Excepted if the construction of the ONIS lineblind is called "Fire safe blind", any external fire can generate a leak of media to the atmosphere due to destruction of essential pieces of the lineblind as gaskets, bushings etc...
In that case the leak could feed the fire.

Additional safety devices

- Except if it is originally provided with it, the ONIS lineblind can be equipped with accessories which can improve the reliability and safety of use as:
 - o Protection covers to limit the degradation of gaskets by chock or external elements
 - o Safety lock on slide gate position or spreading of the seats in order to forbid any fortuitous manipulation.

Residual risks

- Opening of the lineblind under pressure, without stop the process or close the valves upstream and downstream of the lineblind.
- Line not decompressed before opening of the lineblind.
- Closing of the lineblind with the sliding gate which is not in position, and process given on the way.
- Not closing of the apparatus with a sliding gate in position.
- Deterioration of the bolt or the safety lock, which involves the possibility of opening the lineblind in an unexpected way.
- Bad maintenance which can prevent the operation of the apparatus in the long term.
- According to the conveyed product which requires an electric continuity, the correct maintenance between upstream and downstream of the equipotential braids equipping the lineblind in this case, must be checked to avoid any risk of electric flash.



B - Maintenance Notice

- 1- Replacements of the seals on the sliding gate
 - a. Elastomere gaskets
 - b. Elastomere gaskets with PTFE overlay
 - c. Graphite gaskets
- 2- Lubrication on ONIS Lineblinds
- 3- Recommended spare parts
- 4- Setting of the lineblind
- 5- Instruction and Maintenance documents for additional devices (gear box, actuators, limit switches...)

1 - Replacement of the seals on sliding gate

Seals replacement is performed without dismantling the sliding gate.

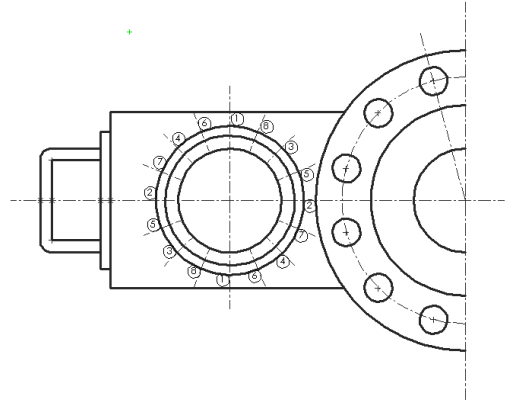
Before any operation :

- Extract the seal with a flat little screwdriver
- Clean the groove

A - Elastomere gaskets

(Neoprene® - Viton® - Perbunan® - EPT®)

- Slightly grease the seal (except in case of oxygen transportation)
- Insert the new seal into the groove with pushing with your fingers then displace your fingers from a quarter of length further,
- keep on that way, making sure you do not create bigger loops. (see method under)



B – Elastomere gaskets with PTFE overlay (PTFE or PFA coated seals)

(coating type : Viton®, silicone, stainless steel)

- Put the PTFE coated seal in boiling water for 15mn.
- Oil the seal before installation in the groove ; insert the seal in the groove as described further up.

C - Graphite seals with stainless steel inserts (ON 250)

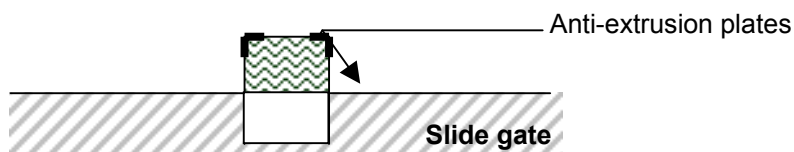
- Place a new seal in the groove with stainless steel insert on the outside ; Push the sliding gate between the bodies of the lineblind, maintaining the seal with your fingers.
- Tighten the device.

Take out the old gasket (it is not reusable)

It is better to change only the gasket that it has to be changed

Clean out the slide groove completely before installing the new gasket

Put the new gasket into the groove very firmly (max height above the slide = 1/16 inch. or 0.8 mm), pay attention to the anti-extrusion metallic plates and make sure they are not down in the groove.

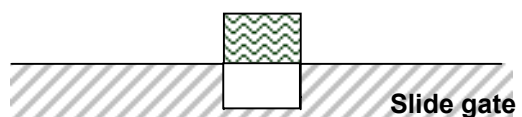


Spread the seats completely, move the slide gate to insert the new gasket between the seats, Clamp the seats in order to compress correctly the gasket into the groove ;

If it is necessary to change 2 gaskets, let the first one compressed during an hour if possible
Repeat this operation for the 2nd gasket.

D - Graphite seals type ON 000

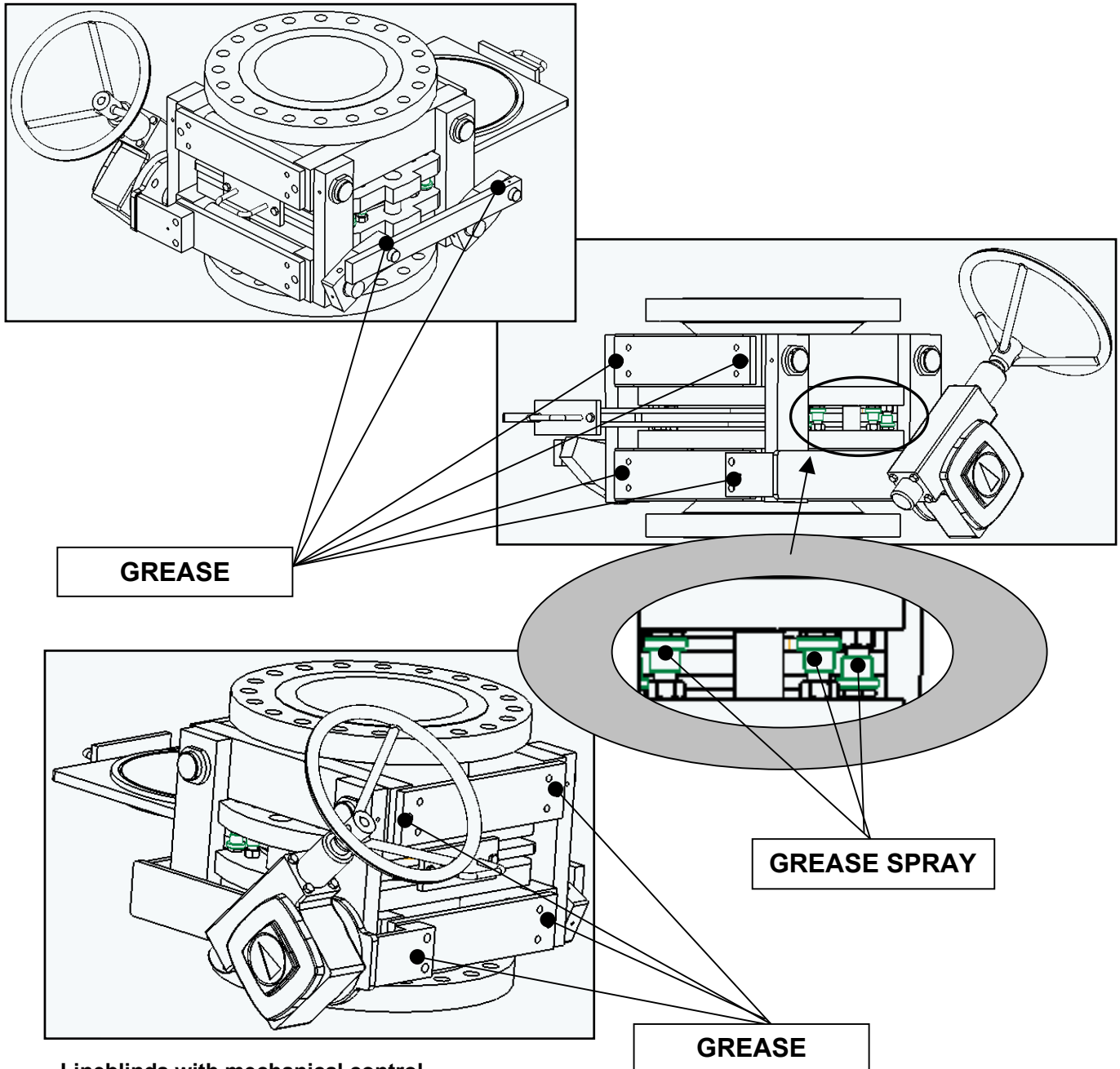
Same steps as the ON 250 gasket described above.
There is no stainless steel inserts.



To ensure perfect sealing, check seal condition before any operation.

2- Lubrification on an ONIS Lineblind

- In aggressive environment, cover the shafts with grease to avoid corrosion. It is only required, once a year, to pour liquid oil on the shaft at the ring level and to operate the ONIS lineblind to allow dispersion. Use of greasing spray is recommended.



Lineblinds with mechanical control

- Once a year, carefully check the oil or grease level for the ONIS lineblinds with gearbox (see manufacturer file attached paragraph B-5)– check also the vent position (to be located on the upper section) if there is one.

Lineblinds adapted to high temperature

- Fitted with rings with grease injection ports, inject special high temperature grease once a year through the ring ports.



3 – Recommended Spare Parts

- For installation :

A minimum of 1 set (4 gaskets) per lineblind is indicated.

- During operation :

Gaskets :

Number of operation per year,
Environment (dust, risk to be damaged by activities around the lineblind :scaffolding, welding...)
External weather conditions (sun, wind with sand, freezing,...)
Qualification of the operators,
If the lineblinds are automated or not,

All these parameters have to be consider to choose the quantity of gaskets required for 2 years of exploitation.

Gear Box :

On critical application, it is recommended to have 1 gearbox in your stock.

4 - Setting of the ONIS lineblind

IMPORTANT : If the lineblind is disassembled or setted without our approbation the warranty could not be required.

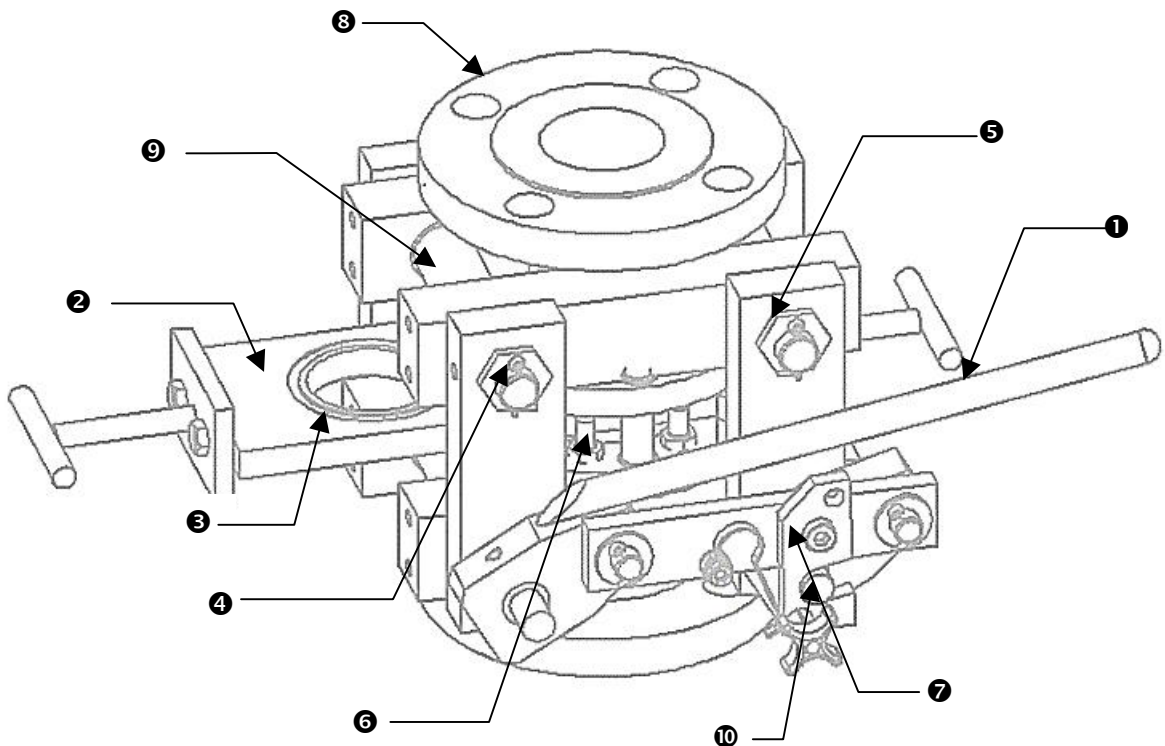
The simultaneous rotation of the set of eccentric shafts actuated by the lever or the gearbox spread the seats in a continuous parallel manner. Guides prevent any loss of alignment of the pipe in an open position.

- Unfasten the safety lock (7)
- Untighten the lineblind with the lever or the gear box (1)
- Install the sliding gate (2) without seal (3) between the seats of the 2 half bodies (3)
- Tighten the lineblind with the lever or the gear box
- Untighten the stop screws (4) of the excentrics (5)
- Tighten or untigthen the excentric of the cap till the seats meet the sliding gate
- Tighten the screws maintaining the excentric
- Adjust the excentric for large diameter devices.

Setting of the sliding gate

Normally, . The sliding gate has to be lifted and guided by the rollers and moves freely without friction of the seats to set it :

- Untighten the device rollers screws lightly
- Activate the rollers screws 6 so that the sliding gate runs smoothly.



9 Receipt shafts

10 Motor or excentric shafts



5- Instruction and Maintenance documents for additional devices (gear box, actuators, limit switches...)

- None added device on this order

- Gear box :

- Actuator :

- Ball valve :

- Others devices :



c - Storage

The ONIS devices must be stored with care in a warehouse, protected from weather aggressions, until their installation. When stored on site, they must be isolated from the ground and covered. In that case, the storage period should be as short as possible.

The end blinds and protection plugs should be removed at the last moment during the installation of the ONIS lineblind on the pipe.

The ONIS lineblind should be kept in a complete open position until their installation. Piping should be carefully cleaned preferably with compressed air to eliminate any particles. The cleaning of the piping should be carried out with non corrosive fluids (pure or carbonated water) and followed by compressed air drying.

Before any operation with the ONIS lineblind, clean the sliding gate and the external seals. It is only after the piping cleaning and the complete drainage of cleaning fluid that the ONIS lineblind can be operated.



**INSTRUCTION MANUAL
ONIS LINEBLIND**

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DATE : 25/07/05

ONIS thank you for choosing ONIS lineblind to blind your pipe.

Our representative agents and ONIS stay at your full disposal for any question you may have.

Do not hesitate to contact us.



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