



[www.netherlocks.com](http://www.netherlocks.com)

■ Process interlocking

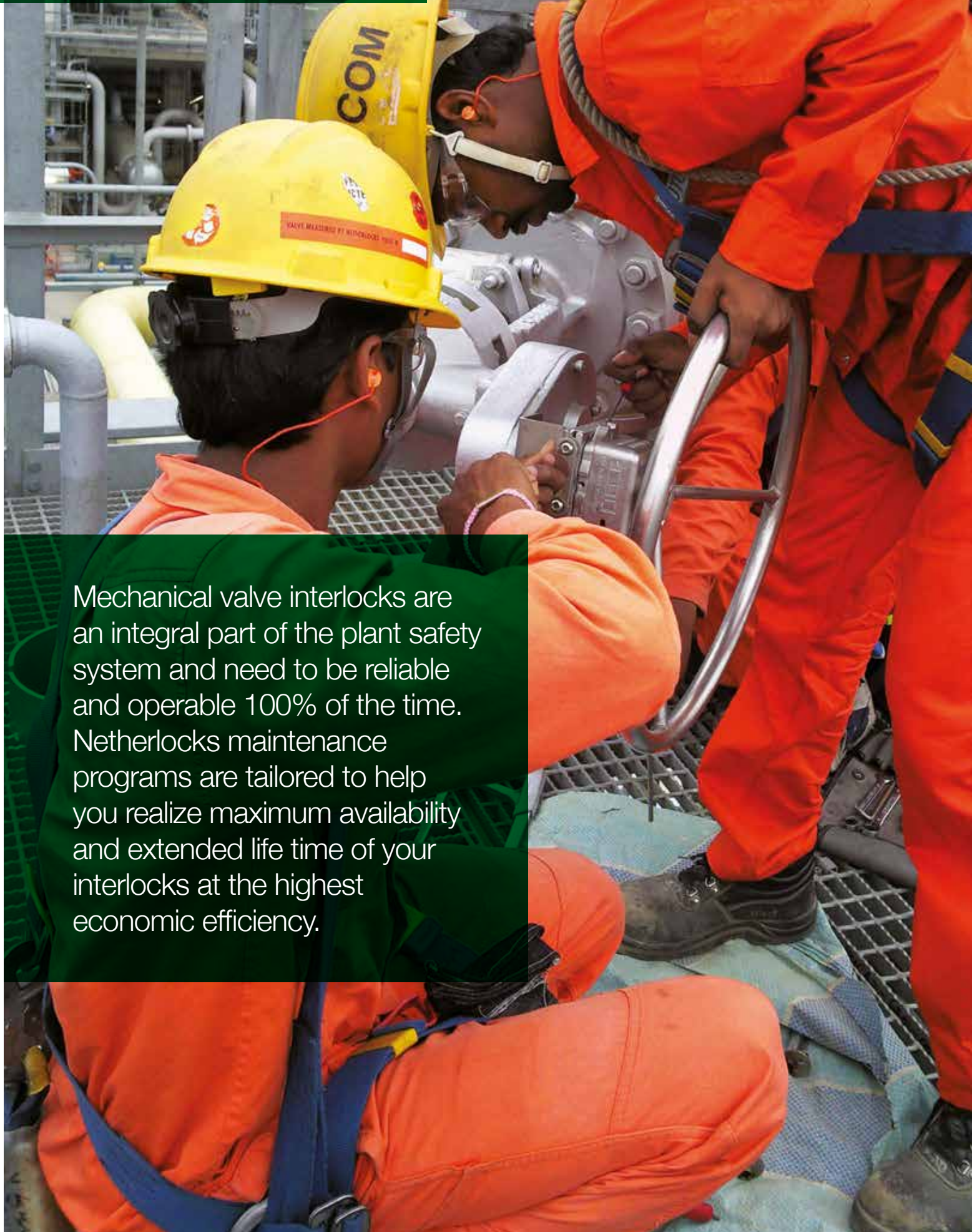
# MAINTENANCE SERVICES

Reliability matters ■ Process interlocking ■ Valve positioning ▶ Partial stroke testing ● Valve operation





## Maintenance programs



Mechanical valve interlocks are an integral part of the plant safety system and need to be reliable and operable 100% of the time. Netherlocks maintenance programs are tailored to help you realize maximum availability and extended life time of your interlocks at the highest economic efficiency.



Netherlocks guarantees at least 10 years lifetime of the valve interlock and this is backed by TUV testing and certification. The simple and reliable mechanical design has proven itself over 20 years in the field.

While using your system you may find after some time that part of the system was modified, components

may be missing, items may have been damaged and exposed to severe stress and vibrations or chemically exposed or fouled. Hence regular condition monitoring and maintenance is required in order to ensure 100% availability. Moreover, valve interlocks may need to be reset due to wear and tear of the valve.

### Advantages of Netherlocks maintenance programs

- > Increases process uptime by ensuring a reliable and operable safety system
- > Ensures valve interlocks are compliant with applicable codes and standards
- > Minimizes last minute repair requests
- > Ensures efficient execution of maintenance on valve interlocks
- > Provides access to a global network of experts on valve safety







Netherlocks offers service support through local service centers and a network of certified local service partners. Our custom maintenance contracts allow you to avoid unplanned maintenance and thus increase process uptime.



Netherlocks maintenance programs for valve interlocks are based on 3 basic components. Over a predefined period of time, a tailored program is set up in which one or more components are scheduled to be executed. This will guarantee a fully functional safety system at all times.

#### Components

<b>Survey</b>	Description	> <b>Visual inspection of locks and cabinets (general condition, missing locks/keys, damage, tagging)</b>
	Frequency	> <b>Every 1-3 years depending on criticality of the system</b>
	Output	> <b>Survey Certificate</b>
<b>Functional check</b>	Description	> <b>Visual inspection of locks and cabinets (Survey)</b> > <b>Functionality test of locks and sequences (includes resetting of locks if necessary)</b>
	Frequency	> <b>Every 1-3 years depending on criticality of system</b>
	Output	> <b>Functional Compliance Certificate</b>
<b>Internal inspection</b>	Description	> <b>Removal and opening of locks, inspection and cleaning of lock internals. This should be done when locks are exposed for a period of time to severe climates or fouling environments</b>
	Frequency	> <b>Every 5-10 years depending on environment. Normally only 10-20% of the locks is done in order to assess the overall health condition of the system</b>
	Output	> <b>Report, repair advice</b>







*"Our site service team consists of Netherlocks service engineers and certified local service partners which are highly trained and can execute the maintenance program efficiently while your plant is still up and running. Since we bring in all the valve interlock expertise, you can focus on what you do best and have a peace of mind on the status of your safety and operational systems."*

**Erwin van Egmond**  
Senior Service Engineer  
Netherlocks Safety Systems

Our global network of service centers and service partners enables us to efficiently execute installation and maintenance of valve interlocks. We strive to create partnerships with our clients, providing a turnkey approach to service. This will result in a reduction of your total cost of ownership.

### Other Site Services programs

- Netherlocks also offers the following site services for your mechanical interlock needs:
- > Interlock installation and commissioning
  - > Measurement of valve topwork data
  - > Emergency call out and repair
  - > Stand by and turn around services
  - > Installation, supervision and on-site training
  - > Sequence design and technical seminars

Please contact us or check [www.netherlocks.com](http://www.netherlocks.com) for more information on all our other Site Services programs.