



## Process Interlocking

# Ninety Degree Lock (NDL)

This type of lock can be installed on any type of valve that operates with a 90° rotation, like ball-, butterfly-, and plug valves.

The NDL can be mounted without any alteration to the host valve, and the characteristics of the valve remain unchanged. The lock is installed as an integral part of the valve, with the original valve lever removed and replaced by the NDL with a new, same-sized Stainless Steel sliding lever.

The principle of mechanical key interlocking is the transfer of keys. Each lock is executed with two keys: one for the locked open position and one for the locked closed position. When the valve is open the "open" key is released, can be removed ready to operate the next lock in the sequence, which will share the same code. All keys are unique and depending on the sequence NETHERLOCKS will determine the codes to guarantee the required sequence.

### Technical Specifications:

- o Fully made of stainless steel AISI 316
- o SS AISI 316 lever is provided in the same size as the original
- o Robust, reliable and simple design with a minimal amount of parts
- o Maintenance free, No grease
- o Tamperproof
- o Mounting is very easy and can be done without shutting down the plant or making modifications to the valve
- o Invulnerable for sand, dirt, snow, ice, etc.
- o Thoroughly tested to withstand the most extreme operating environments
- o Integrated second safety to prevent unlocking with an unauthorized object other than the designated linear key





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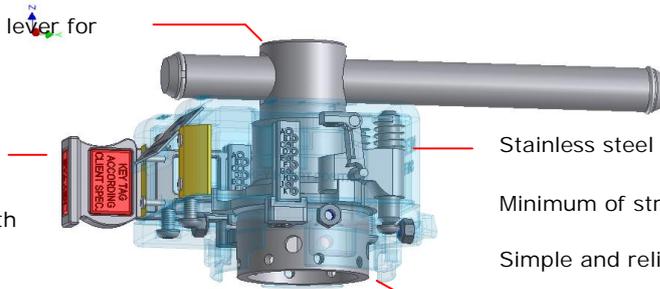
# Ninety Degree Lock (NDL)

## Features

Stainless steel 316 sliding lever for optimum flexibility.

Linear key for operator friendly use.

Key slots are protecting with self sealing weather strips.



Stainless steel 316 body, 5mm thick.

Minimum of strong stainless steel 316 components

Simple and reliable anti manipulation clutch

8 screws to install the lock for a very strong fit

Mounting plate to connect the bracket to the lock.



Large diameter adapter – purpose machined - with 4 keyways. The large diameter assures that:

- the original nut will fit
- clamping the adapter from the sides is not necessary
- load on keys is minimized

Stainless steel 316 purpose machined bracket.



**NETHERLOCKS:**

- ISO 9001-2000 CERTIFIED
- SCC CERTIFIED

Locks are TUV & ATEX certified.

