A FRONT LINE SAFETY DEVICE

for protecting personnel and equipment

PREVENTING MOVEMENT

Drives a PREDETERMINED SEQUENCE as specified by the customer

UNIQUELY CODED INTERLOCK KEYS are transferred from one lock to another

Ensuring Safety

Since 1932, KIRK® interlocks have been instrumental in providing safety interlocking systems worldwide. Trapped key interlocking is accepted by standards, safety, and insurance authorities throughout the world and is the most cost effective way of guarding against operator error and hazardous energy.

Supporting Standards

Contact a Kirk sales engineer to help you customize a safety solution for your specific application.

www.kirkkey.com

Engineered Safety Solutions

for industrial process sequences

EAGLE SERIES VALVE INTERLOCK SYSTEMS

Bolt Interlocks

Access Interlocks

Transfer Interlocks

Electro-Mechanical Interlocks

Made in America since 1932

For More Information

Contact Kirk Key Interlock Company LLC for detailed information on Eagle Series valve interlock applications.

9048 Meridian Circle NW | North Canton, OH 44720 | USA

800.438.2442 | FAX 330.497.4400 | sales@kirkkey.com

www.kirkkey.com
KIRK® Eagle Series valve interlocks are available in both single and dual key versions to fit all sizes and types of multi-turn or quarter-turn valves. Designed to be mounted directly to the valve, the original operating wheel or lever is replaced with a KIRK® interlock assembly. There is no dismantling, modification or welding required to install KIRK® Eagle Series valve interlocks, preserving the certified pressure envelope of the valve, maintaining any valve manufacturer’s warranties. KIRK® Eagle Series valve interlocks can be installed during live process operations without shutting down a system. KIRK® safety interlock systems ensure a safe, predetermined sequence of operations is always followed.

**MULTI-TURN VALVE INTERLOCK**

Eagle Series multi-turn (MT) valve interlocks are designed to fit any size valve with a rotating stem (gate, globe, or gearbox operated) and are available in single or dual key designs. Since the number of rotations to open/close a valve varies, the multi-turn interlock incorporates a counting mechanism, which is commissioned after installation, to trap and release keys at desired positions. This feature also allows for field adjustment of the key release positions should the valve seat become worn.

**QUARTER-TURN VALVE INTERLOCK**

Eagle Series quarter-turn (QT) valve interlocks are designed to fit all types and sizes of quarter-turn valves (ball, butterfly, and plug) and are available in single or dual key designs. The original valve lever is replaced with a KIRK® sliding lever interlock mechanism. Versions are available to suit 3-way/180 degree movement valves. The lock assembly can be used with rotary switches for single or dual key operation.

**KEY DESIGN**

The Eagle Series uses the HD Series key – made from electropolished 316 stainless steel and constructed to be robust in the toughest of environments. They will not snap under force, nor will they fall through standard floor grating, minimizing downtime due to key replacement. The unique design prevents key duplication or unauthorized mastering, ensuring the highest protection of your interlock scheme.
SAFETY INTERLOCK SYSTEMS

The KIRK® Eagle Series valve interlocks can be combined with our HD Series interlock products to create a comprehensive process safety system. Kirk’s full line of trapped key interlock products include bolt, access, transfer, and electro-mechanical interlocks.

BOLT INTERLOCKS

Bolt interlocks prevent or allow movement where switch or breaker operations are needed. Most bolt interlocks are available in multi-cylinders and many can incorporate an auxiliary switch.

ACCESS INTERLOCKS

Access interlocks control entry into a potentially hazardous area. All access interlocks have two parts: a main body and a latching block or bolt. Auxiliary switches can be incorporated with most access interlocks.

TRANSFER INTERLOCKS

Transfer interlocks are designed to retain one or more keys while the remaining keys are removed, allowing an exchange of keys for two or more sequences. Kirk offers transfer interlock products for linear or non-linear process sequence operations.

ELECTRO-MECHANICAL INTERLOCKS

KIRK® auxiliary switch units can be added to bolt or access interlocks to enhance the interlock system and accommodate additional interlock controls/signals.
Eagle Series multi-turn (MT) valve interlocks are designed to fit any size valve with a rotating stem (gate, globe, or gearbox operated) and are available in single or dual key designs. Since the number of rotations to open/close a valve varies, the multi-turn interlock incorporates a counting mechanism, which is commissioned after installation, to trap and release keys at desired positions. This feature also allows for field adjustment of the key release positions should the valve seat become worn.

Eagle Series quarter-turn (QT) valve interlocks are designed to fit all types and sizes of quarter-turn valves (ball, butterfly, and plug) and are available in single or dual key designs. The original valve lever is replaced with a KIRK® sliding lever interlock mechanism. Versions are available to suit 3-way/180 degree movement valves. The lock assembly can be used with rotary switches for single or dual key operation.

The Eagle Series uses the HD Series key – made from electropolished 316 stainless steel and constructed to be robust in the toughest of environments. They will not snap under force, nor will they fall through standard floor grating, minimizing downtime due to key replacement. The unique design prevents key duplication or unauthorized mastering, ensuring the highest protection of your interlock scheme.

KIRK® Eagle Series valve interlocks are available in both single and dual key versions to fit all sizes and types of multi-turn or quarter-turn valves. Designed to be mounted directly to the valve, the original operating wheel or lever is replaced with a KIRK® interlock assembly. There is no dismantling, modification or welding required to install KIRK® Eagle Series valve interlocks, preserving the certified pressure envelope of the valve, maintaining any valve manufacturer's warranties. KIRK® Eagle Series valve interlocks can be installed during live process operations without shutting down a system. KIRK® safety interlock systems ensure a safe, predetermined sequence of operations is always followed.

Eagle Series Valve Interlocks

- Multi-turn Valve interlock
- Quarter-turn Valve interlock

Key Design

- Dual Line Valves
- Pressure Safety Valve Systems
- Motor Pump Start-up Control
- Tanker Loading/Unloading
- Hydrogen Cooled Generator Purge
- Boiler Blow-Down Valves
- Ammonia Handling Systems
- Line Blind
- Nuclear Effluent Treatment Systems
- Black Liquor Recovery Boiler Process
- LOTO Valve Isolation
- Rail Tanker Interlocking
- And More...

Eagle Series Valve Interlock Features

All KIRK® Eagle Series valve interlocks:

- Manufactured from 316 stainless steel for use in harsh environments
- Gasketed flip covers prevent dust and debris from entering key ways
- Unique, robust keys cannot be duplicated
- Available in single and dual key designs
- Offers a comprehensive system when combined with the current range of KIRK® interlock products
- Acceptable for applications in food, pharmaceutical, and other areas having specific operating requirements

Key Coding

All KIRK® Eagle Series valve interlocks are coded with a unique, patented design ensuring that only the correct key will allow proper operation of the valve. Keys are provided with a color-coded insert that is engraved with information about the host system.

All KIRK® Eagle Series valve interlocks are permanently marked with customer’s desired system/plant identities and/or tag number.

Ordering

Details should specify:

- Valve Make and Type
- Pressure Rating
- Size (Full or Reduced Bore)
- Method of Operation (Wrench, Handwheel, Gearbox, or Actuated)
- Key Tagging
- Sequence of Operation
- Valve Locked Positions Open/Closed
PROTECTING PERSONNEL & EQUIPMENT

Work SAFE For LIFE™

Since 1932, KIRK® interlocks have been instrumental in providing safety interlocking systems worldwide. Trapped key interlocking is accepted by standards, safety, and insurance authorities throughout the world and is the most cost effective way of guarding against operator error and hazardous energy.

Supporting Standards

WHAT IS A TRAPPED KEY INTERLOCK?

• A FRONT LINE SAFETY DEVICE for protecting personnel and equipment
• Applied to two or more moving parts, PREVENTING MOVEMENT
• Drives a PREDETERMINED SEQUENCE as specified by the customer
• UNIQUELY CODED INTERLOCK KEYS are transferred from one lock to another

Contact a Kirk sales engineer to help you customize a safety solution for your specific application.
Eagle Series Valve Interlocks
and are available in single or dual key designs. The original valve
feature also allows for field adjustment of the key release positions
installation, to trap and release keys at desired positions. This
of rotations to open/close a valve varies, the multi-turn interlock
size valve with a rotating stem (gate, globe, or gearbox operated)
Eagle Series multi-turn (MT) valve interlocks are designed to fit any
required to install KIRK® Eagle Series valve interlocks, preserving the certified
without shutting down a system. KIRK® safety interlock systems ensure a safe,
perform any sequence in a predetermined sequence of operations is always followed.
KIRK® Eagle Series valve interlocks can be installed during live process operations
specifications, or dual key operation.
Versions are available to suit 3-way/180 degree movement valves.
The lock assembly can be used with rotary switches for single
or dual key operation.

For More Information
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