



***Master***  
**SAFETY SERIES Lock.**



***Safety Series  
&  
Security Solutions***

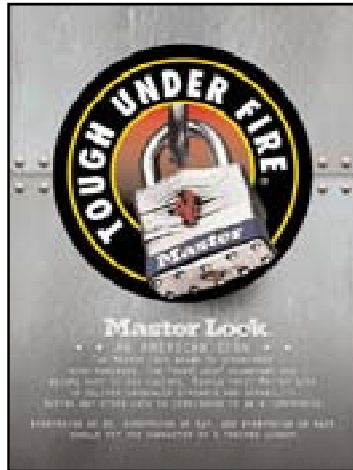


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# ***Lockout Tagout***

- 1. Who is Master Lock?**
- 2. What is Lockout?**
  - 1. Introduction**
  - 2. International Lockout Standards**
- 3. Master Lock Solutions**
- 4. Master Lock Service**
- 5. Products selection**





- ◆ Company started by Harry Soref in Milwaukee, Wisconsin in 1921
- ◆ Inventor of laminated steel padlocks in 1924
- ◆ As of today, sales revenue over \$400 million with 1,500 employees
- ◆ N°1 padlock manufacturer in the world
- ◆ N°1 in safety lockout / tagout (LOTO) in North America



## Who is Fortune Brands ?

**Fortune Brands, INC**  
\$ 8.800.000.000

### Golf & Leisure

- Titleist
- Foot Joy
- King Cobra.....



### Distilled Spirits

- Jim Beam
- Couvoisier
- Starbucks
- .....



### Home and office

- Therma Tru Doors
- Moen
- Kitchen Craft
- .....

### MASTER LOCK

- Master Lock
- Waterloo

**Master**  
**SAFETY SERIES Lock**



**LAFARGE**

## What is Lockout / Tagout? LOTO

- ◆ Controls hazardous energy during equipment maintenance to prevent accidental start-up and possible injuries or death

- ◆ Electrical
- ◆ Mechanical
- ◆ Hydraulic
- ◆ Pneumatic
- ◆ Other

- ◆ Requires safety padlocks and/or lockout devices to **lockout** sources of hazardous energy



Circuit Breakers Locked Out to Prevent Accidental Energization

### Step 1: Preparation

Prepare for a shut down of the energy source. Identify the type of energy used (electrical, mechanical, etc...) and its potential hazards. Locate the isolator(s) and prepare to “lock off” energy source.

### Step 2: Notification

Inform operators and supervisors who may be affected by isolating the machinery and inform them of the work being undertaken.

### Step 3: Shut-down

Turn off the equipment or machine.



### Step 4: Lock Out

Lock out all energy sources using the proper Master Lock lockout devices to de-energize the equipment or machinery. Apply a lock so no one can turn the energy source (e.g. switch or valve) on while the work is being undertaken.



### **Step 5: Test**

Test all machine controls and electrical circuits to ensure energy is completely isolated.

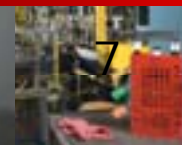


### **Step 6: Repair or Rework**

Perform maintenance and/or service.

### **Step 7: Return to Service**

When all work is done and lockout/tagout devices are removed, look to ensure all tools and lockout devices have been removed. Before re-energizing, be sure to warn all workers.





- ◆ Multinational organizations are also pushing the introduction of ISO-type procedures when it comes to safety programs
- ◆ VPP (Voluntary Protection Program) leads to lower incidents of lost time injuries and the costs associated with them
  - ◆ Visit [www.osha.gov/dcsp/vpp/](http://www.osha.gov/dcsp/vpp/) and [www.vpppa.org](http://www.vpppa.org) for more information
- ◆ Multinational firms are implementing lockout processes at their facilities worldwide





## Master Lock End Users...

Master Lock sells LOTO padlocks and devices to virtually all end-users. Below is a partial listing by industry.

<u>Automotive</u> 	<u>Pharmaceutical/ Medical</u> 	<u>Retail &amp; Hospitality</u> 	<u>Semiconductors / High Technology</u> 
<u>Oil/Refinery</u> 	<u>Chemical</u> 	<u>Mining</u> 	<u>Food Industry</u> 

*No One Has More LOTO Installations!*

**Master  
Safety Series Lock**



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### Safety Padlocks



### Lockout Devices, Kits & Stations



### Lockout Tags, Signs, & Labels



*The most complete LOTO offering in the industry!*

**Master  
Safety Series Lock**



**LAFARGE**

*The Most Comprehensive Offering to Handle Any Application.*



Xenoy  
Thermoplastic

- Exclusively designed for lockout/tagout
- Lightweight, durable
- Comes with identification labels (in 3 languages)



Powder  
Coated  
Aluminum

- Vibrant colors offers high visibility
- Durable aluminum
- Master Lock brand



Anodized  
Aluminum

- Durable anodized finish for tough environments
- Available in 9 colors
- American Lock brand



Laminated  
Steel

- Strong reinforced laminated steel
- Economical
- 6 bumper colors available



## *A unique Safety Lockout padlock*

*A Unique Padlock Range dedicated to Lockout Application.*



S30 / 410 / 411 / 406 Xenoy Padlock Range

- Exclusively designed for lockout / tagout
- Lightweight, durable
- Composite plastic resists from -47°C to 177°C
- Comes with identification labels
- Possibility to engrave the padlock

406 100% Xenoy Thermoplastic



- Exclusive
- Lightweight, durable
- Non-conductive padlock : Shackle and Body with Xenoy
- Ideal for electrical lockout, confined spaces, medical, military and mining
- Non Sparking padlock

*New Padlock S30 with a 4.7mm  
shackle diameter 100% stainless Steel*

**Master  
SAFETY SERIES Lock**



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## *Unlimited Identification Options for Your Application.*

Photo Identification



Laser Engraving

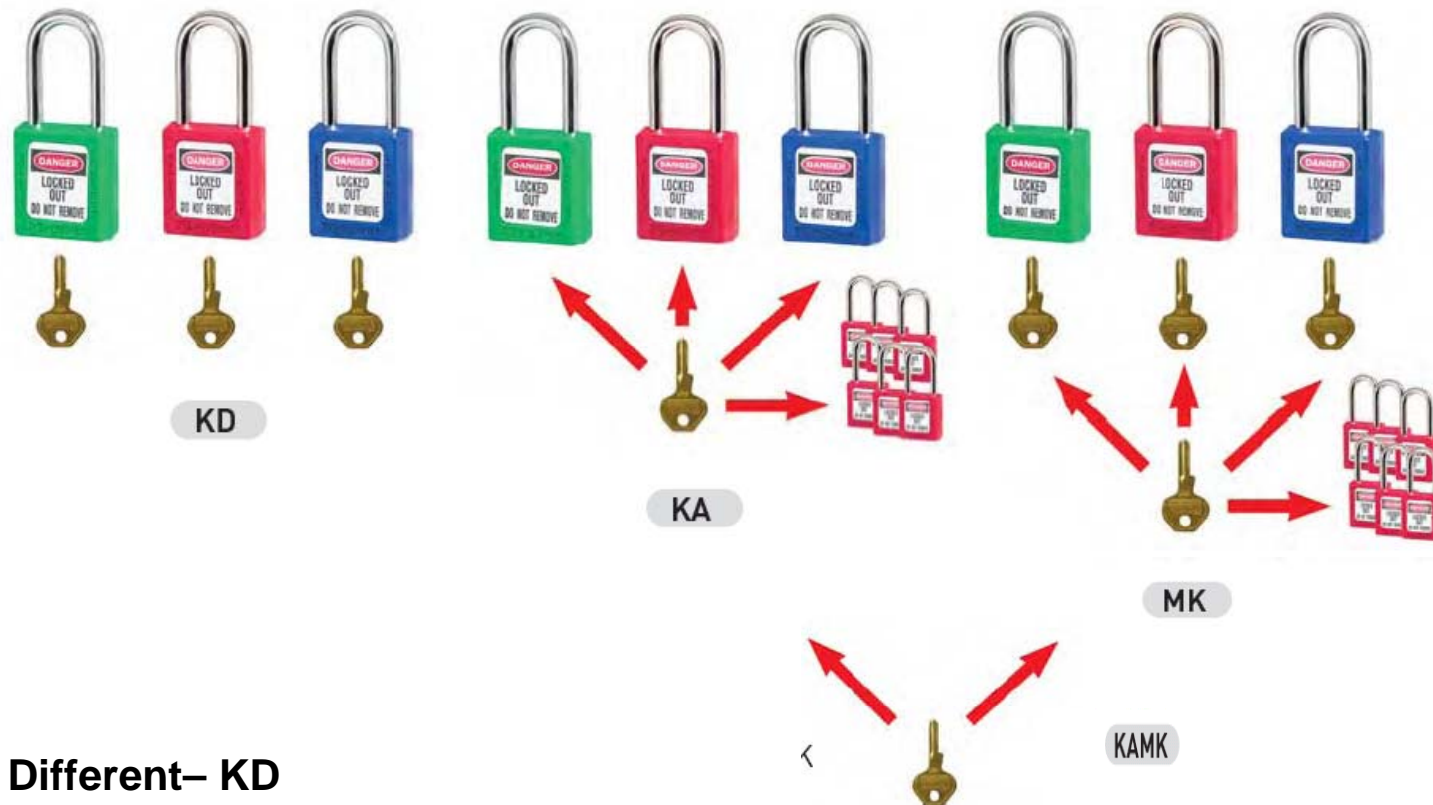


Hard Stamping





# Key systems



- Keyed Different– KD
- Keyed Alike – KA
- Master Keyed – MK
- Keyed Alike Master Keyed - KAMK

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# Padlock Summary

## Padlock Options



Xenoy Thermoplastic



Powder-Coated Aluminum



Anodized Aluminum



Laminated Steel

## Identification



Photo I.D. Labels



Laser Engraving



Hard Stamping

## Keying Options

Keyed  
Different,  
Keyed-Alike,  
Master-  
Keyed

Thousands  
of Key  
Changes

## Custom Services



Custom-Built Padlocks

Key  
Charting &  
Records  
Management

**Total  
Solution**

**Master  
Safety Series Lock**



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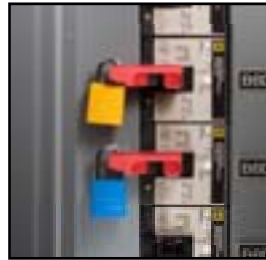
## *A single lockout supplier*



Hasps



Valves lockout



Electrical  
lockout



Pneumatic  
lockout



Steering wheel  
covers



Adjustable  
cable



Group lock boxes



Compliance  
Centers



Lockout kits



Lockout station



Lockout station



Lockout station



Tags station



Padlock Lanyards

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- ◆ Hasps
- ◆ Valve Lockouts
- ◆ Electrical Lockouts
- ◆ Pneumatic Lockouts
- ◆ Steering Wheel Covers
- ◆ Cable Lockouts
- ◆ Lock Boxes
- ◆ Compliance Centers
- ◆ Lockout Kits
- ◆ Padlock Stations
- ◆ Lockout Stations
- ◆ Compact Lockout Stations
- ◆ Tag Stations
- ◆ Padlock Lanyards



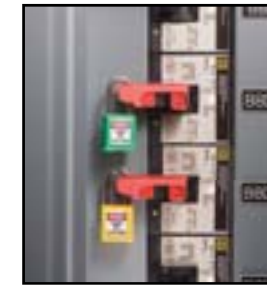
Ball Valve Lockout



Gate Valve Lockout



Snap-On Hasp/Tag Combo



Circuit Breaker Lockouts



Lockout Station



Compact Lockout Station

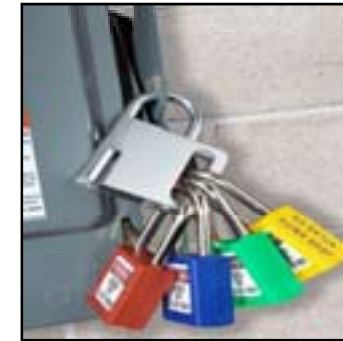




420 – 25mm dia.  
jaw steel



421 – 36mm dia.  
jaw steel



418 with 410  
Xenoy  
padlocks



428 with 410  
Xenoy  
padlocks

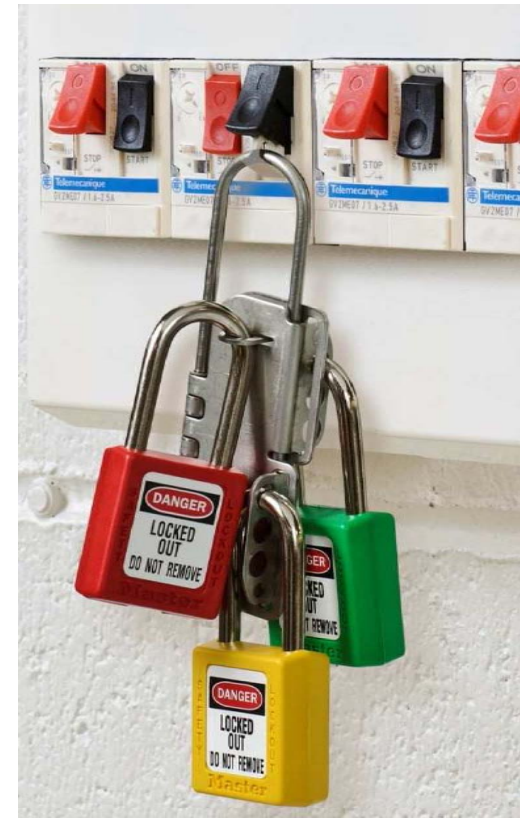
### ◆ S430 & S431

- 4 mm diameter shackle
- S431 100% stainless steel
- S431 for 8 padlocks
- S430 for 2 padlocks



S430

S431





- ◆ Hasp/tag combo
- ◆ Durable and lightweight
- ◆ Aluminum body to reduce sparking in confined areas
- ◆ Re-usable labels supplied in English, Spanish, & French
- ◆ Available in 9 different colors or assortment pack



427



427AST

## Gate Valve Sizes

- ◆ 480 2,71-8,12 mm valve handles
- ◆ 481 5,41-13,54 mm valve handles
- ◆ 482 10,83-17,60 mm valve handles
- ◆ 483 16,24-27,07 mm valve handles
- ◆ 484 21,66-35,19 mm valve handles
- ◆ 485 Set of all sizes (nested)



485



- ◆ Locks out 9,5 cm to 10,16 cm ball valves
- ◆ Requires removal of the ball valve handle to eliminate risk for accidental activation
- ◆ Works in virtually all ball valve applications
  - ◆ Metal & PVC valves
  - ◆ Insulated pipes
  - ◆ Pipes in tight areas



468L



- ◆ Locks out 0,63 cm to 10,16 cm ball valves
- ◆ Metal device clamps tight on handle stop
- ◆ Withstands temperatures up to 532°C
- ◆ Compact and lightweight for easy carrying, storage, and use in tight spaces
- ◆ No need to remove handle



S3068



- ◆ Provides physical and visible barrier to unintentional “activation”
- ◆ Fits all pressurized gas valves up to 7,6 mm diameter
- ◆ Fits valves with and without guarding



S3910



- ◆ 493B fits standard single and double toggles
- ◆ 491B fits tall and wide toggles
- ◆ Both lockouts combined cover 90% of circuit breakers



493B



491B



## Circuit Breaker Lockout

- ◆ Electrical lockout for most ISO-DIN miniature circuit breakers found throughout the world
  - ◆ S2390 is for breakers with a toggle opening that is 11mm or less black handle
  - ◆ S2391 is for breakers with a toggle opening that is over 11mm – red handle
  - ◆ S2392 is for breakers with outside pins
  - ◆ S2393 is for breakers with without pins
- 
- ◆ Works with all Master Lock and American Lock safety padlocks and lockout hasps



S2390



S2391



S2392



S2391



**Master**  
SAFETY SERIES Lock



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- ◆ 487 (small) – 10\*11 cm
  - ◆ Fits 120 and most 240 volt
- ◆ 488 (large) – 19\*13 cm
  - ◆ Fits 120, 240, and 550 volt
- ◆ S2005 works with 2 and 3 prong 120 volt plugs
- ◆ Complete with English, Spanish, and French write-on/re-usable safety identification labels



487



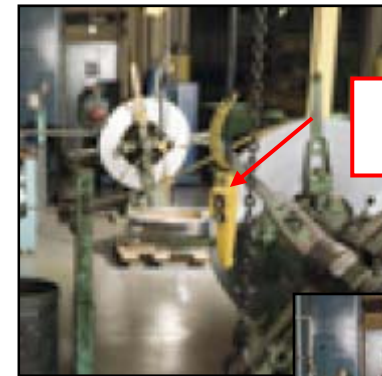
488



S2005



- ◆ Covers large and odd-sized electrical plugs and controls
- ◆ Holds up to 6 padlocks or hasps
- ◆ Available in three sizes for various situations
  - ◆ 453L 482 X 165 mm
  - ◆ 453XL 660 X 254 mm
  - ◆ 453XXL 914 X 356 mm



Hoist  
Control



453L



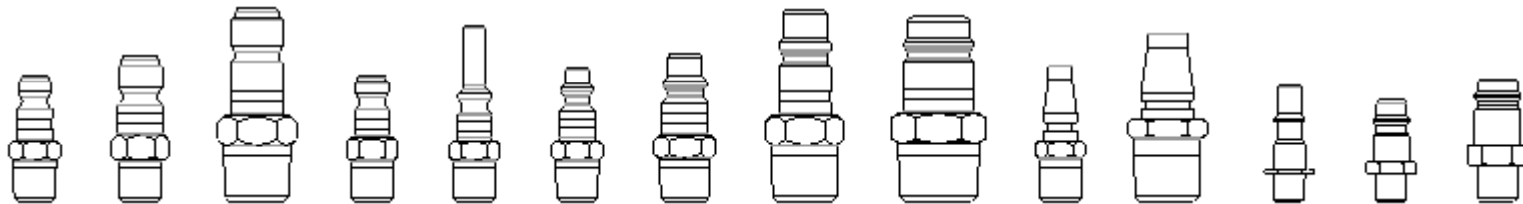
- ◆ Universal lockout fits virtually all types of wall switches to prevent accidental activation
- ◆ Works with toggle and Decora™ paddle switches
- ◆ Includes lockout labels in English/Spanish and English/French



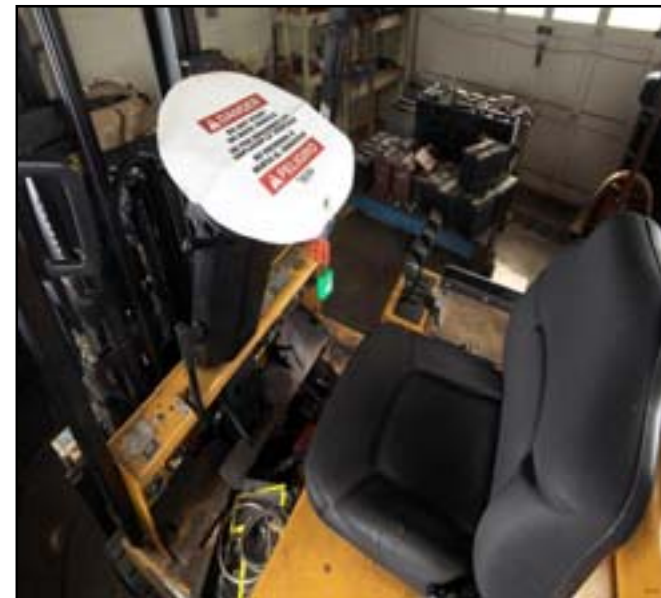
496B



- ◆ Applied to a pneumatic fitting, it prevents the fitting from being reconnected to the pressurized air source
- ◆ Stainless steel construction
- ◆ Compact design for easy carrying and storage
- ◆ Fits virtually all pneumatic fittings used in manufacturing facilities (14 – see below)



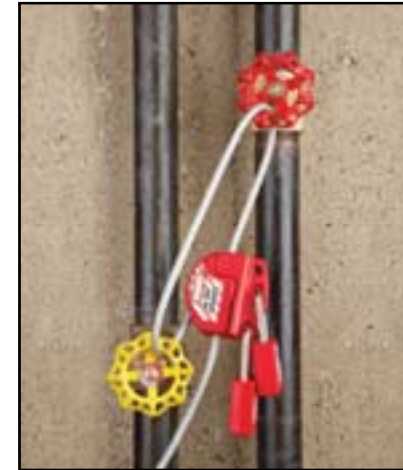
- ◆ Apply to steering wheel to deter operation during maintenance
- ◆ Can be used on semi tractors, buses, forklifts, cars, and other motor vehicles
- ◆ Available in three sizes for various situations
  - ◆ 4716 40,6 cm diameter
  - ◆ 4720 50,8 cm diameter
  - ◆ 4724 61 cm diameter



4716 Covering a Forklift Steering Wheel

## Adjustable Cable Lockout

- ◆ Tough, flexible multi-stranded 6,35 mm diameter steel cable is insulated with a clear vinyl coating
- ◆ Patented pull-tight cable adjusts for a secure fit every time
- ◆ Integrated safety hasp and cable is ideal for multiple circuit breaker panel and side-by-side gate valve lockouts



S806



**Master**  
SAFETY SERIES Lock



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## Latch Tight Group Lock Box



- ◆ Latch Tight™ locking feature can only release when no padlocks are fastened to the lock box
- ◆ 503RED & 503YLW can be mounted to wall or carried from job to job
- ◆ 498A is a portable solution



503RED



498A



503YLW

## Safety Padlock Caddy



- ◆ Ensures all lockout points are addressed
- ◆ Pop-out notches allow for exact number of padlocks needed
  - ◆ Number of padlocks should match number of lockout points
- ◆ Can be hung near lockout point to ensure availability
- ◆ Ergonomic handle and belt loops for easy carrying



S125



Worker Locking Out  
Gate Valve Using  
S125







- ◆ Zippered binder keeps important safety information in while keeping dirt and grime out
- ◆ Use for MSDS, Lockout Procedures, Right-To-Know, and many others
- ◆ Front window allows you to customize to your needs
- ◆ Also available without bracket for use with existing wire baskets or placement on bookshelf
- ◆ Includes wall bracket labels and binder face sheets in English, Spanish/English and French/English



S315



S317



## Personal & Group Lockout Kits



- ◆ 1456 Personal Lockout Pouch
  - ◆ Available in standard or electrical lockout focus versions
- ◆ 1457 Personal Lockout Kit
  - ◆ Available in electrical, valve or both lockout focus versions
- ◆ 1458 Group Lockout Kit
  - ◆ Includes two modular storage compartments
  - ◆ Available in electrical, valve, or both lockout focus versions



1456E410



1457V410KA



1458VE410





## Padlock Lockout Stations



- ◆ Extreme durability stations
- ◆ Available with Xenoy, Aluminum, or Steel padlocks
- ◆ Available with English/Spanish & English/French labels & tags
- ◆ One-piece molded construction to eliminate loose parts
- ◆ Available with 4, 10, & 20 padlocks
  - ◆ 1482 – 4 Padlock Station
  - ◆ 1483 – 10 Padlock Station
  - ◆ 1484 – 20 Padlock Station



1482BP3ES



1483BP1106



1484BP410

**Master**  
SAFETY SERIES Lock



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## Compact Lockout Stations



- ◆ Ideal for locating machine specific lockout devices, tags and padlocks near lockout point
- ◆ Available with Xenoy, Aluminum or Steel Padlocks
- ◆ Includes station face labels in English, Spanish/English, and French/English
- ◆ S1700 - Unfilled
- ◆ S1705 - Station with padlock, hasp & tags
- ◆ S1720 - Station with circuit breaker lockout focus
- ◆ S1745 - Station with electrical plug lockout focus



S1700



S1745E410



- ◆ Ideal for organizing lockout devices, tags and padlocks
- ◆ Extremely durable construction
- ◆ Cover can be locked with combination lock, keeping padlocks and devices secure and clean
- ◆ Lockout Stations available unfilled or filled with multiple component combinations
  - ◆ S1850 Lockout Station
  - ◆ S1800 Tag Station
  - ◆ S1900 Deluxe Station (consists of one S1850 and one S1800)



S1900VE410



S1850E410



S1800

# Summary: Your One-Stop Source for Lockout Devices, Kits & Stations



Hasps



Valve Lockouts



Electrical Lockouts



Pneumatic Lockouts



Steering Wheel Covers



Cable Lockouts



Group Lock Box



Compliance Centers



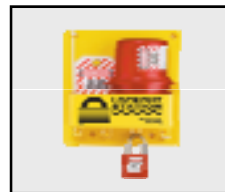
Lockout Kits



Padlock Stations



Lockout Stations



Compact Lockout Stations



Tag Stations



Padlock Lanyards

**Master**  
SAFETY SERIES **Lock**



**LAFARGE**



*A full line of innovative tags, signs, and labels to meet your identification requirements.*



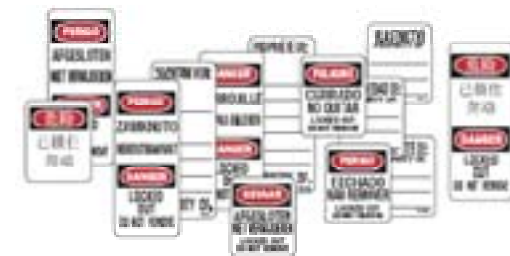
## Lockout Tags

- Innovative, patent-pending technology
- Tested to equivalent of 10 years of abuse
- Customizable options



## Lockout Signs

- Durable signs provide key lockout identification messages
- Available with adhesive, magnetic, or non-adhesive backing



## Labels

- Multilingual padlock labels offered in 10 different languages
- Apply to 410, 406, & 411 Xenoy Thermoplastic Safety Padlocks

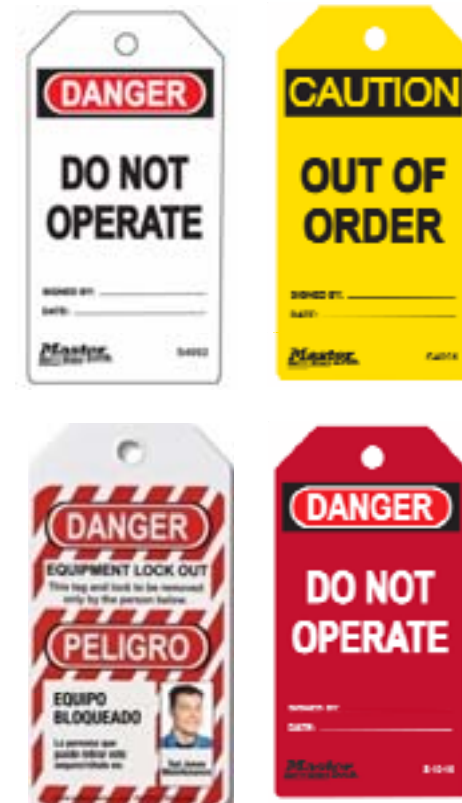
**Master**  
SAFETY SERIES Lock



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- ◆ Innovative, patent-pending technology stands up to extreme environments such as:
  - ◆ Washdowns & humidity
  - ◆ UV
  - ◆ Chemicals
  - ◆ Extreme temperatures (-45°C to 104°C)
- ◆ Ideal for environments found in:
  - ◆ Food processing plants
  - ◆ Mines
  - ◆ Chemical Plants
  - ◆ Refineries
  - ◆ Paper Mills
  - ◆ Military and government facilities



**Guardian  
Extreme.**

**Master  
Safety Series Lock**



**LAFARGE**

## Lockout Isolation ID Tags

- ◆ Identifies key lockout points to provide convenience
- ◆ Assortment of lockout energy source tags
  - ◆ Control Panel (CP)
  - ◆ Electrical (E)
  - ◆ Gas (G)
  - ◆ Pneumatic (P)
  - ◆ Steam (S)
  - ◆ Valve (V)
  - ◆ Water (W)
- ◆ Constructed of innovative Guardian Extreme technology



Gas Isolation I.D. Tag



Pneumatic Isolation I.D. Tag



Steam Isolation I.D. Tag



Valve Isolation I.D. Tag



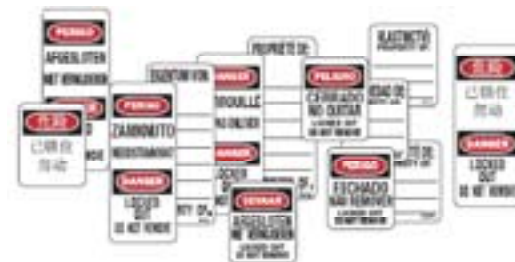
Water Isolation I.D. Tag



V-1 Tag Identifying Valve Lockout Point



# Summary: Your One-Stop Source for Lockout Tags, Signs, & Labels



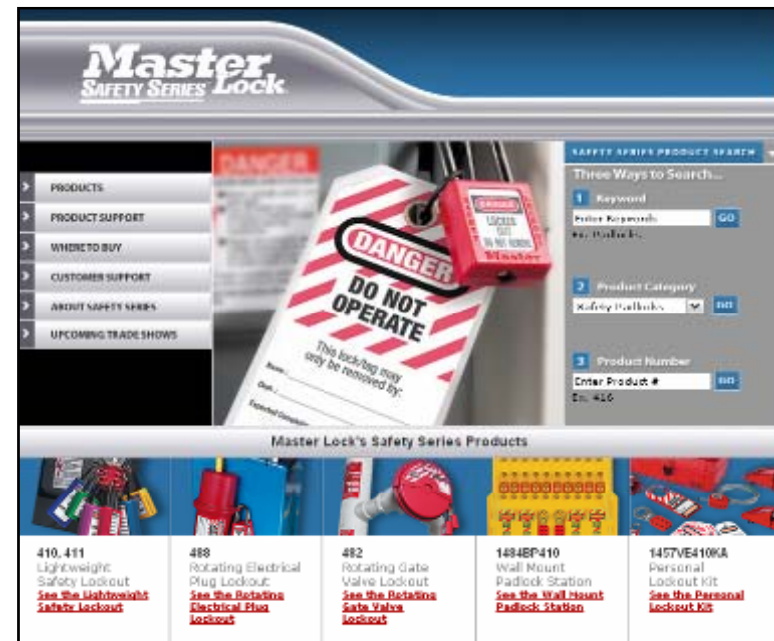
**Master**  
SAFETY SERIES Lock



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# www.safetyseries.eu

- ◆ Comprehensive website dedicated to safety lockout products
  - ◆ Product info
  - ◆ Links to OSHA, VPPPA
  - ◆ Technical Support
  - ◆ Download Images (web link)
  - ◆ Download Catalogs
  - ◆ Request Printed Literature





# Products selection

**Master**  
**SAFETY SERIES Lock**



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# Safety padlocks

S31



406

- Padlocks S31 and 406 dielectric
- Available in 9 colors to identify service, employees ...
- Recording of the keys delivered to prevent the risk of duplicating key

Reference	Designation	Type	Price per unit
S31	Safety padlock with steel shackle diameter 4,7mm	Keyed different	12.44 €
		Keyed alike	13.30 €
		Laser engraving (per area)	0.70 €
406	Safety padlocks completely non-conductive with shackle diameter 6 mm	Keyed different	13.59 €
		Keyed alike	14.46 €
		Laser engraving (per area)	0.70€

**Master**  
SAFETY SERIES Lock

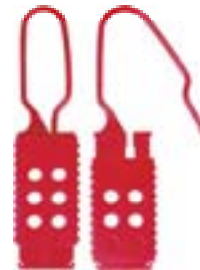


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- Safety Lockout Hasps : Multiple workers at each lockout point



420



428

Reference	Designation	Price per unit
420	Steel jaw with vinyl coated handle	5.19€
428	Nylon non-conductive hasp	4.69 €

- Lockout of electrical shut-off points, circuit breakers



506



S2300 Ast

Reference	Designation	Price per unit
S2300AST	Electrical lockout (1*s2390 + 1*s2391 + 1*s2392 + 1*s2393)	22,25 €
506	Grip Tight circuit breaker lockout (1*491b + 1*493b)	13,46€

- Valve lockout , cable lockout



480-485



S806



S3476 – S3477



S3900

Reference	Designation	Price per unit
485	Rotating gate valve lockout ( 480 + 481 + 482 + 483 + 484) Diameter max : 8,12 - 13,54 - 17,60 - 27,07 - 35,19 mm	135,77€
S806	Adjustable cable, diameter 4mm	18.11€
S3476 - S3477	Ball valve lockout	14.93€
		28.88€
S3900	Pneumatic lockout	16.05 €



- Steering wheel covers



4716 – 4720 - 4724

Reference	Designation	Price per unit
4716	Steering wheel cover diam 40.6cm	33.43 €
4720	Steering wheel cover diam 50.8cm	45.34 €
4724	Steering wheel cover diam 61cm	52.60 €



- Lacht Tight Group Lock Boxes

503REd



S125



Reference	Designation	Price per unit
503Red	Group Lock Boxes	52.92 €
S125	Padlock caddy for transportation of padlocks	11.94 €



## Lockout stations - Padlock station

- Lockout stations and heavy duty padlock station

S1900



S1506



Reference	Designation	Price per unit
S1900	Lockout station	217.14 €
S1506	Heavy duty padlock station	15.75 €

- Extreme tags (examples)



Reference	Designation	Type	Price per 6 pcs
S4302LEN	Extreme tags	«Do not operate »	14.88 € Per 6 pcs
S4325LEN	Extreme tags	« Do not start this machine »	14.88 € Per 6 pcs

***Thank you for choosing Master Lock***



**Master  
SAFETY SERIES Lock**



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