



S A F E T Y
**FLANGE GUARDS
VALVE COVERS**

**PROTECTION
AGAINST
DANGEROUS
LEAKS**



Resistance to chemicals and
solvents



API 6FB Fire Safe
certificate



Tested and certified for use in
ATEX zones

WHAT ARE SAFETY FLANGE GUARDS

1

PROTECT

people and machinery from dangerous spray-outs caused by defective seals

2

PREVENT

environmental contamination and reduce the risk of costly downtime and repairs

3

SAVE

lives and health, equipment, time and money

Designed to reduce the harmful consequences of accidental gasket breakage which can cause a sudden leak, generating a jet with high kinetic energy which can be projected up to a few dozen metres from the source and cause damage to people and/or things.

WHY ARTEMA?

SINCE 1988 ARTEMA company has been committed to designing, planning and creating safety flange guards that are used in all industrial sectors: chemical, naval, oil & gas, food.

We produce our flange guards and valve covers both **standard** (UNI/ASME) and **custom** size and shape.

We analyze the customer's request and offer a **turnkey service** consisting of:

ON-SITE SURVEYS by our specialized technical staff

SUBSEQUENT PRODUCTION of flange guards based on the collected data

INSTALLATION of flange guards directly in the plant.

Our experience allows us to identify the most suitable product for the customer's needs.



WHERE TO INSTALL SAFETY FLANGE GUARDS



Oil & Gas



Chemical
industry



Refinery



Pharmaceutical
industry



Petrochemical
industry



Naval

Installing flange guards is essential on fittings exposed to high pressures and/or temperatures or on process lines with potentially dangerous, corrosive or toxic fluids. Safety flange guards minimize the risk of damage from accidental spills that could compromise the safety of nearby personnel, preventing direct contact with harmful substances, and protect the surrounding environment from possible contamination.



**“I NEED ASSISTANCE
WITH THE INSTALLATION”**

Or: “I don't know what measures you need to produce the valve covers for my system.”

Don't worry! **LEAVE IT TO US!**

1. MEASURE

ARTEMA's specialized technicians collect dimensional and quantitative data of flanged joints and valves directly on the relevant lines of the plant.

They can perform the measurements independently, as they are certified to operate vertical platforms.

2. MAP

Every measured flanged joint or valve will be catalogued and classified in a file, organized by plant area and suggested flange guard type.

Then the sales department will provide the related cost quotation.

3. INSTALL

The ARTEMA's specialized team handles the installation of flange and/or valve guards directly on site, issuing a certificate of correct installation.

When the installation activity can be carried out?*

- lines under maintenance
- plant in operation
- in the presence of insulation

* after prior agreement with the customer



TEMPERATURE MIN

-212 °C

TEMPERATURE MAX

+230 °C

PRESSURE MAX

110 bar

PH

0 ÷ 14

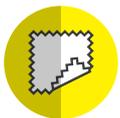
“TOP: Maximum chemical resistance guaranteed by pure PTFE”

SAFECAP 100% PTFE



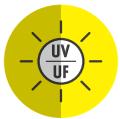
RESISTANCE TO ALL CHEMICALS

hydrochloric acid, caustic soda, fluorides, oleum, acids in general, even aggressive ones



100% PURE PTFE

all components are 100% PTFE to ensure the best chemical resistance



UV RESISTANCE

solar rays do not age or damage flange guards if installed outdoor



CERTIFIED

BUREAU VERITAS, RINA

Caustic soda	★★★★★
Hydrochloric acid	★★★★★
Sulfuric acid	★★★★★
Hydrofluoric acid	★★★★★
Hydrocarbons	★★☆☆☆
LNG-Hydrogen	★★★★☆



Find out how to properly install this flange cover
[VIDEO](#)



SAFECAP 100% PTFE/GARD

Equipped with a central transparent band to detect possible leaks.

TEMPERATURE MIN

-70 °C

TEMPERATURE MAX

+200 °C

PRESSURE MAX

100 bar



"ATEX: Each single component has antistatic properties"



TEMPERATURE MIN

-212 °C

TEMPERATURE MAX

+230 °C

PRESSURE MAX

110 bar

PH

2 ÷ 12

SAFECAP TFE-B-AS



FOR ATEX AREAS

flange guards for ATEX zones that dissipate electrostatic charges



ANTISTATIC

each single component has antistatic properties



ELECTRICAL CONDUCTIVITY

conferred by the low value of the surface resistivity



CHEMICAL RESISTANCE

for acids in general and aggressive ones

SAFECAP TFE-B-AS/GARD



TEMPERATURE MIN

-70 °C

TEMPERATURE MAX

+200 °C

PRESSURE MAX

100 bar

Equipped with a central transparent band to detect possible leaks.

Caustic soda	★★★★☆
Hydrochloric acid	★☆☆☆☆
Sulfuric acid	★★★★☆
Hydrofluoric acid	☆☆☆☆☆
Hydrocarbons	★★★★☆
LNG-Hydrogen	★☆☆☆☆



Find out how to properly install this flange cover
[VIDEO](#)

FLANGE GUARDS

safety



CHEMICAL
INDUSTRY



TEMPERATURE MIN

-150 °C

TEMPERATURE MAX

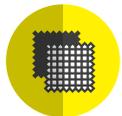
+230 °C

PRESSURE MAX

110 bar

"MEDIUM LEVEL:
Suitable for
non-aggressive
chemicals."

SAFECAP VT



SPECIAL FABRIC

porous glass fabric coated with PTFE yarn by yarn
allows dangerous fumes not to accumulate inside but
to escape through the porosity



CHEMICAL RESISTANCE

to most chemicals except: caustic soda, fluorine
derivatives, hydrochloric acid, oleum



CERTIFIED

BUREAU VERITAS, RINA

Caustic soda

★★★★☆

Hydrochloric acid

★☆☆☆☆

Sulfuric acid

★★★★☆

Hydrofluoric acid

☆☆☆☆☆

Hydrocarbons

★★★★☆

LNG-Hydrogen

★☆☆☆☆



Find out how to properly install this
flange cover
[VIDEO](#)

SAFECAP VT/GARD

Equipped with a central transparent band to detect possible leaks.

TEMPERATURE MIN

-70 °C

TEMPERATURA MAX

+200 °C

PRESSURE MAX

100 bar



"COST-EFFECTIVE:
Recommended for systems where there are no specific requirements for temperature or chemical resistance."

TEMPERATURE MIN

-40 °C

TEMPERATURE MAX

+60 °C

PRESSURE MAX

30 bar

SAFECAP PVC



BUDGET-FRIENDLY

excellent value for money for light applications



HIGH VISIBILITY

the yellow color makes the flange guard visible from a distance



BASIC CHEMICAL RESISTANCE

solvents and mild chemicals

Caustic soda	★☆☆☆☆
Hydrochloric acid	★☆☆☆☆
Sulfuric acid	★☆☆☆☆
Hydrofluoric acid	☆☆☆☆☆
Hydrocarbons	★★☆☆☆
LNG-Hydrogen	☆☆☆☆☆

SAFECAP PVC/GARD



Equipped with a central transparent band to detect possible leaks.

TEMPERATURE MIN

-40 °C

PRESSURE MAX

30 bar

TEMPERATURE MAX

+60 °C



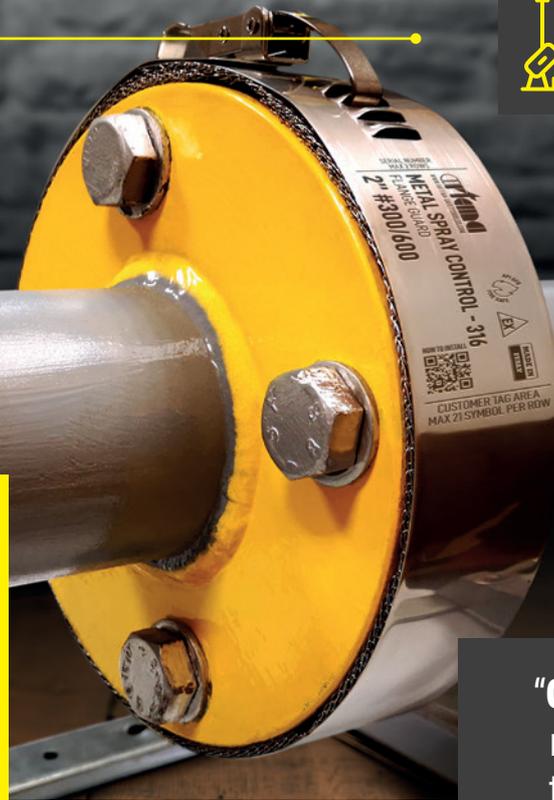
Find out how to properly install this flange cover
[VIDEO](#)

FLANGE GUARDS

safety



OIL & GAS



TEMPERATURE MIN

-196 °C

TEMPERATURE MAX

+785 °C

PRESSURE MAX

270 bar

"Oil & Gas: Excellent resistance to high temperature and pressure"

METAL SPRAY CONTROL



FOR ATEX AREAS

specifically designed for applications in ATEX areas



OIL & GAS

hydrocarbons, petroleum, thermal oil, methane



HIGH TEMPERATURE RESISTANCE

protect the gasket from the generated by a fire high temperatures



JET FIRE - API 6FB FIRE SAFE

API 6FB Fire Safe certified approval for Jet Fire

Caustic soda	★★★★☆
Hydrochloric acid	★☆☆☆☆
Sulfuric acid	★★★★☆
Hydrofluoric acid	★☆☆☆☆
Hydrocarbons	★★★★★
LNG-Hydrogen	★★★★☆



Find out how to properly install this flange cover
[VIDEO](#)



JET FIRE - API 6FB FIRE SAFE

METAL SPRAY CONTROL is certified against the Jet Fire effect ("tongue of fire").

METAL SPRAY CONTROL resists 800 °C for 30 minutes in case of fire.



TEMPERATURE MIN

-196 °C

TEMPERATURE MAX

+270 °C

PRESSURE MAX

76 bar

"MAX SEAL - ZERO LEAKS:
Ideal for LNG transport and storage"

METAL SPRAY CONTROL DRAIN/FLEX



MAX SEAL

to protect the environment and people from LNG and hydrogen leaks



CONVEYS LEAKS

with the help of a drainage nozzle to carry any leakage to a safe place



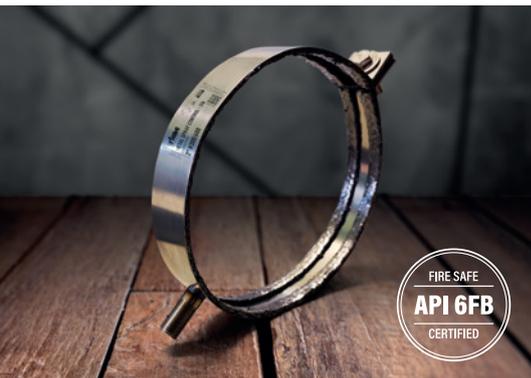
CRYOGENIC TEMPERATURE

on flanged couplings even insulated

Caustic soda	★★★★☆
Hydrochloric acid	★★★☆☆
Sulfuric acid	★★★★☆
Hydrofluoric acid	★★★☆☆
Hydrocarbons	★★★★☆
LNG-Hydrogen	★★★★★



Find out how to properly install this flange cover [VIDEO](#)



METAL SPRAY CONTROL DRAIN/PYRO

This version makes the flange guard suitable for use in ATEX areas and helps prevent Jet Fire.

TEMP. MIN

-196 °C

TEMP. MAX

+785 °C

PRESSURE MAX

76 bar



SAFECAP Line



100% PTFE NOZZLE (LEAK CONVEYOR) WITH THREAD

threaded PTFE drain to convey any leaks. Due to the thread it is possible to connect the nozzle to our CONVET and CONFLEX draining systems.

LEAK INDICATOR

WITH REPLACEABLE LITMUS PAPER

Changing the color, it indicates if the minimum leakage escapes from the flanged coupling.

It is easily replaceable and makes the flange guard or valve cover immediately reusable.





METAL SPRAY CONTROL Line



CONFLEX

Stainless steel hose with double fitting (head + tail) to convey the fluid leaking from the flange cover to a container / tank.

Custom length.



[Watch video](#)
@artema-gaskets



CONVET

Rigid stainless steel pipe to convey the fluid leaking from the flange guard and collect it in a borosilicate glass bottle.



[Watch video](#)
@artema-gaskets



TAMPER-PROOF KIT WITH NYLON OR STEEL STRAP; NYLON AND STEEL LOCK

Protects the flange coupling from unauthorized access that could compromise the operation of the flange cover or flange coupling.



SAFE BLACK/M ANTI-BURN THERMAL COVER

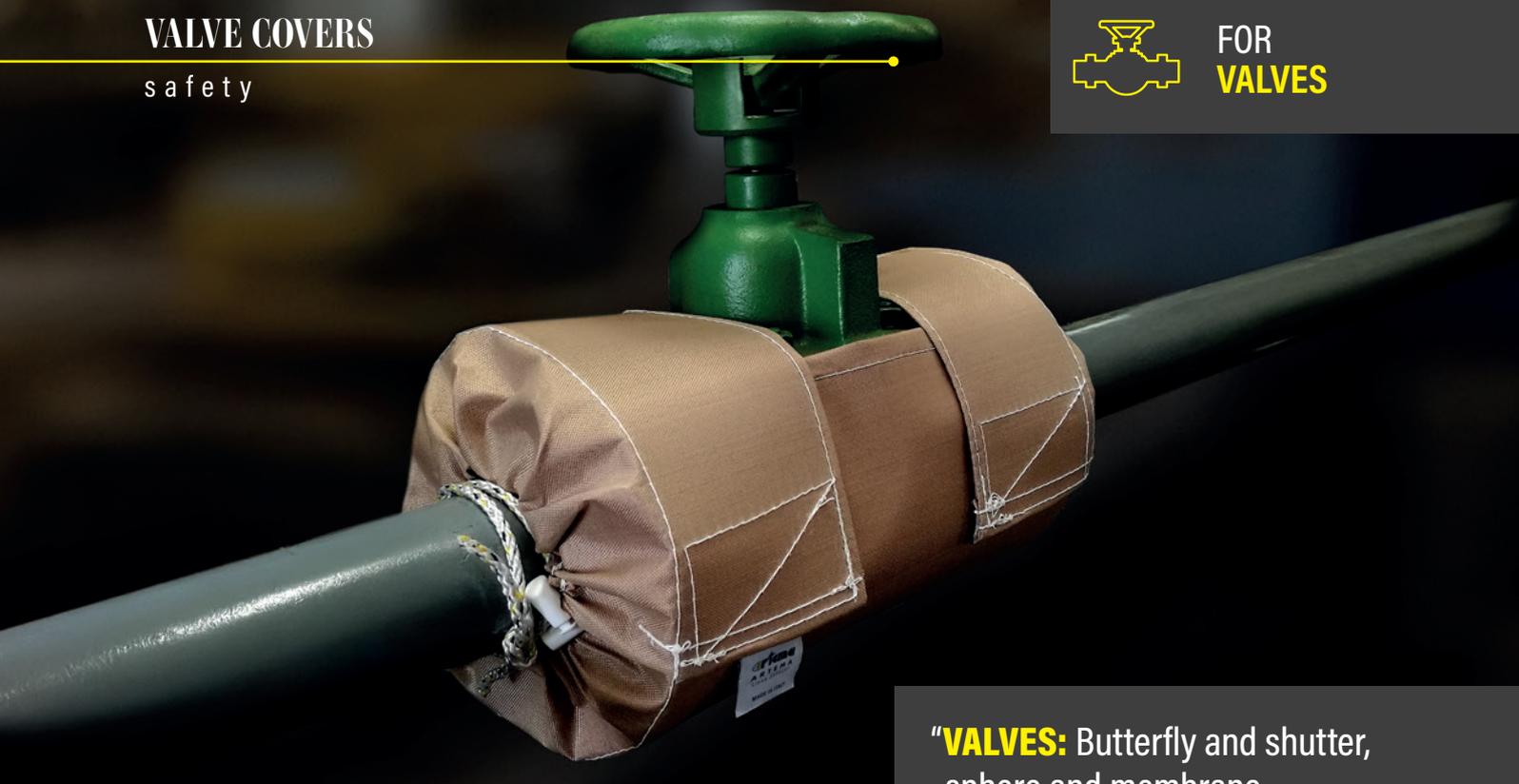
Protects against contact with high temperature flanges which may pose a serious safety hazard to personnel.

VALVE COVERS

safety



FOR
VALVES



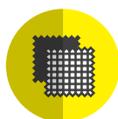
"VALVES: Butterfly and shutter, sphere and membrane, standard and non-standard."

SAFEVAL Line



STANDARD AND CUSTOM

we design and produce covers for any type and size of valve



ALL MATERIALS

are available for production of valve covers



ANY TYPE OF VALVE

is suitable to be protected with valve covers

INTERNAL PROTECTION

Valves are a vulnerable point for fluid leakage into the environment. The use of **SAFEVAL** helps contain leaks, preventing contamination and improving the environmental impact of the system.

EXTERNAL PROTECTION

SAFEVAL not only enhances immediate safety but also protects the valves themselves from external agents such as dust, moisture, and chemicals that could compromise their durability and performance.

SAFEVAL GARD VALVE COVERS

WITH TRANSPARENT PARTS TO DETECT IN TIME POSSIBLE LEAKAGE

They allow you to quickly check for fluid leaks without removing the valve cover, saving time and reducing risks during the inspection.



FOR
VALVES



VALVE COVERS

safety



**"METAL SPRAY CONTROL VALVE:
Valve protection."**



METAL SPRAY CONTROL VALVE Line



STANDARD AND CUSTOM

we design and produce covers for any type and size of valve



JET FIRE - API 6FB FIRE SAFE

compliant with API 6FB Fire Safe requirements
compliant with the requirements for protective effectiveness against Jet Fire



HIGH TEMPERATURE RESISTANCE

protect the gasket from the high temperature generated by a fire

EXTREME CONDITIONS

In harsh environments with high temperatures, high pressures and flammable products, METAL SPRAY CONTROL, made of stainless steel, offers excellent resistance and protection against these factors.

METAL SPRAY CONTROL GLAND

FOR GATE VALVE

Specially designed to ensure the containment of possible leakage from the valve castle.

ADVISE: combine this valve cover with the METAL SPRAY CONTROL flange guards applied on the inlet and outlet flanged couplings of the valve for total safety and protection of the system in the event of leaks and/or accidental breakages.

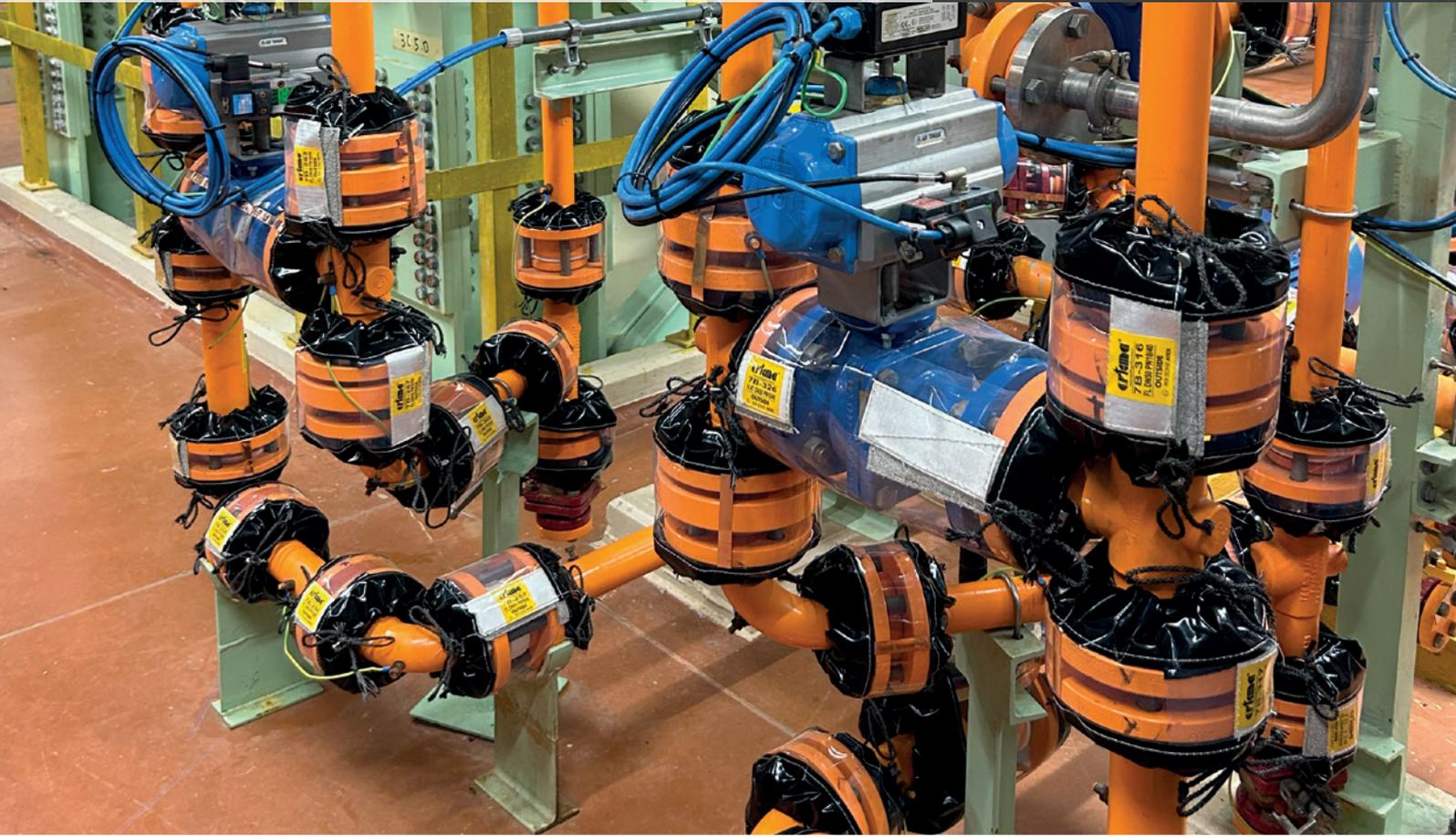


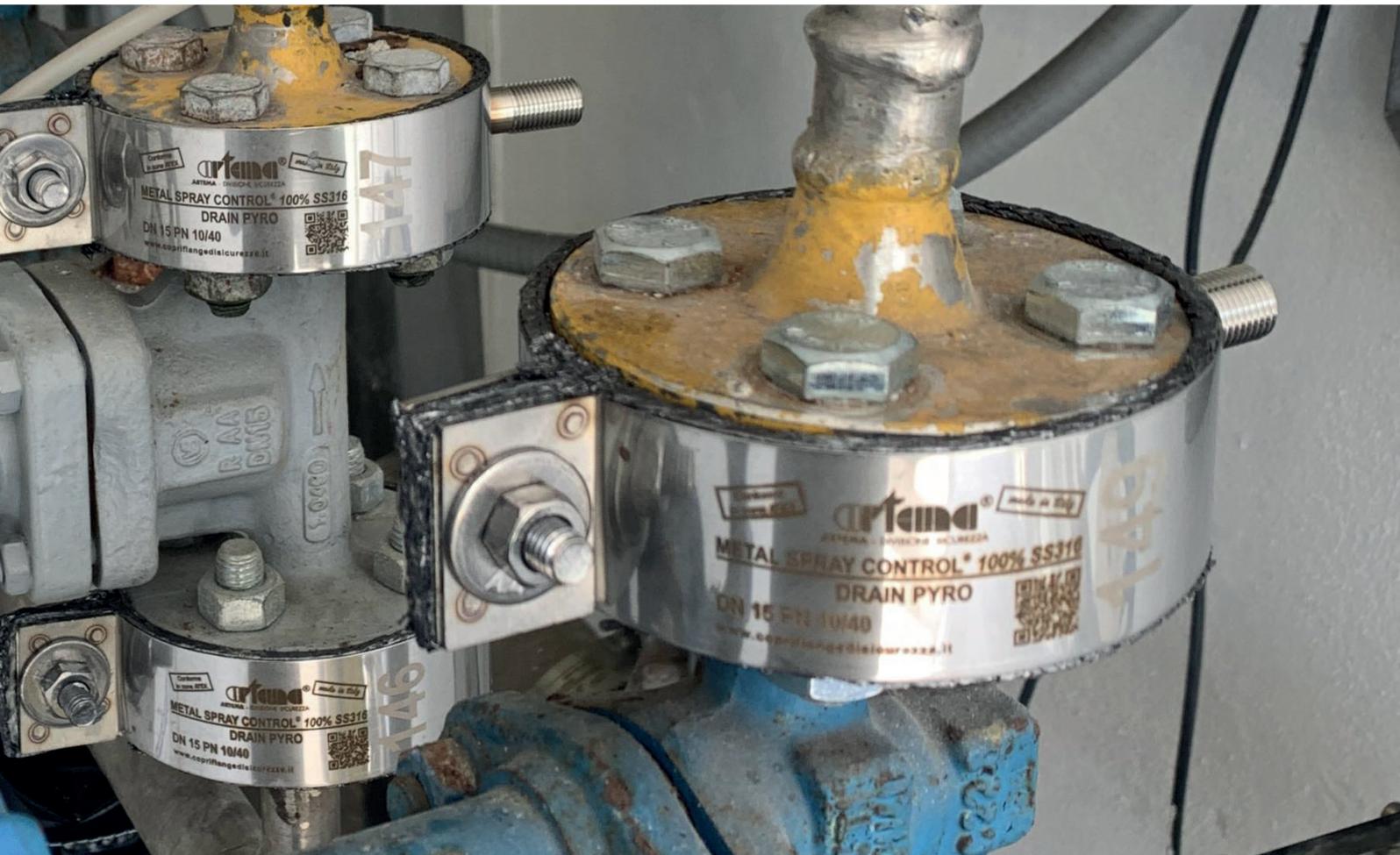
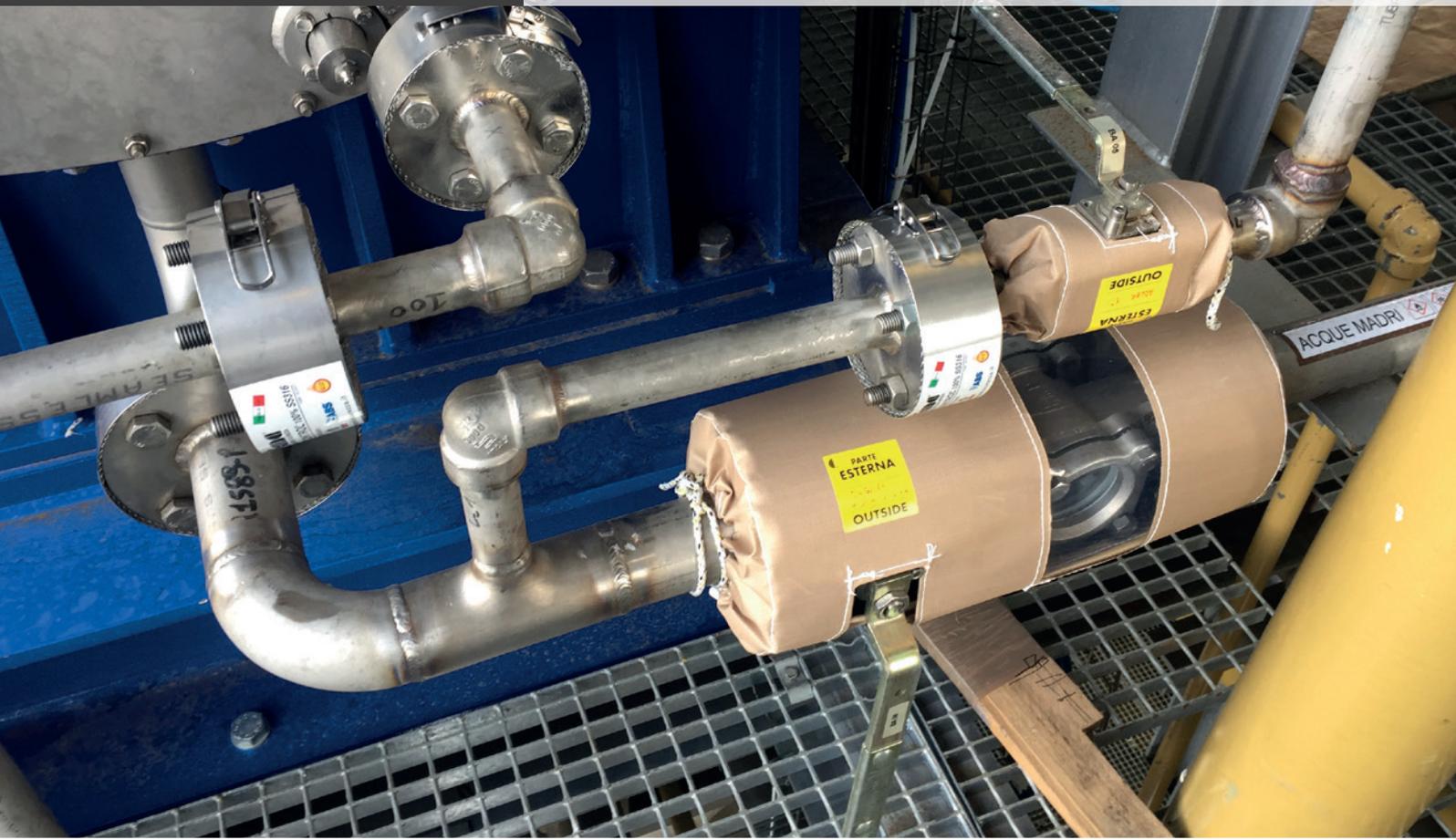
FLANGE GUARDS AND VALVE COVERS

safety



CASE HISTORY





REGIONAL PARTNER

Lüse De
لوسبي دي

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