

RAMCO



RAMCO SAFETY SHIELDS
ONLY THE BEST IS ALWAYS SAFE

ECONO-GARD

The Econo-Gard® Safety Shield is an economical yet dependable spray shield for flanges, valves and threaded fittings. Great attention has been paid to its design to ensure that its economic features have not been achieved at the expense of performance.

Polyethylene with a pH indication patch

- ▣ PE- Brown
- ▣ PER- Translucent with reinforced cords

Polyvinylchloride with a pH indication patch

- ▣ PVCR Red
- ▣ PVCW White
- ▣ PVCY Yellow

Polyvinylchloride Clear

- ▣ PVCR(Clear)- Transparent Center with Red Hems
- ▣ PVCC 100% see-thru shield with a pH indication patch

OVERLAP DESIGN

Contact us for a specific color.



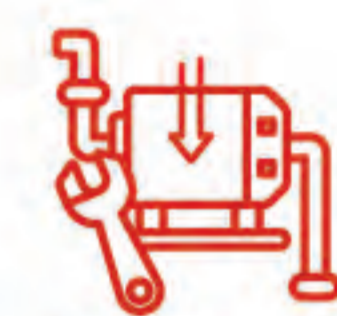
UV Tested



Indoor and Outdoor Installation



Clear Shield Option



Easy Installation



PE ECONO-GARD

Six-layer protection; 3-ply lamination with an inner core of non-woven spun cloth interfaced between two sheets of PE External leak detection.

TEMPERATURE UP TO : 140F° (60°C)
PRESSURE UP TO:300 PSI (21 BAR)



PVC ECONO-GARD

Multilayer protection in red heat-sealed polyvinyl chloride. External leak detection Available in white and yellow.

TEMPERATURE UP TO : 140F° (60°C)
PRESSURE UP TO:300 PSI (21 BAR)



PVC CLEAR ECONO-GARD

Same high quality characteristics of the Econo-Gard® Safety Shields with the added benefit of a see-through feature, permitting easy visual inspection

TEMPERATURE UP TO : 140F° (60°C)
PRESSURE UP TO:300 PSI (21 BAR)

PPL SPRA-GARD | PPL VUE-GARD

The PPL (polypropylene) shield was developed by RAMCO to protect against hydrofluoric acid, a highly virulent chemical that is used to etch glass and is also employed in petroleum cracking operations.). PPL Vue-Gard Safety Shields are innovative see-through shields that permit easy identification and inspection of all pipe joints including flanges, valves, threaded connections and expansion joints.

Recommended Industries

- ❑ Semiconductor
- ❑ Electronics
- ❑ Refineries
- ❑ Food & Beverage



PPL SPRA-GARD

Enhanced leak protection with double-layer PPL fabric and a reinforced central band for high pressure applications. Equipped with a visual leak detection system, the indication patch turns red in contact with acids and green with alkalis.

Temperature up to : 225F° (107°C)
Pressure up to: 1100 psi (76 bar)



PPL VUE-GARD

PPL VUE-GARD offers superior visibility with a central transparent ETFE center. The ETFE material is resistant to chemicals, temperature and UV degradation, ensuring long-lasting clarity and mechanical strength, even in outdoor environments.

TEMPERATURE UP TO : 225F° (107°C)
PRESSURE UP TO: 1000 PSI (69 BAR)

Only material recommended for HF applications

TFE SPRA-GARD

The TFE-coated fiberglass safety shields are engineered to withstand harsh environments, including exposure to highly corrosive and high-temperature chemicals and oils.

This safety shield uses a woven cloth that has been designed using impenetrable fabrics, Spra-Gard® Safety Shields are made of slightly porous textiles - too slight to permit a spray out, but sufficient to allow fluid to seep through to the indicating patch in the event of a leak.

Spra-Gard Safety Shields have a sensitive pH patch or indicator that is incorporated in each safety shield and changes color should the slightest amount of hazardous/harmful/dangerous fluid come in contact with the patch, signaling trouble in the line. Yellow/orange in color, the indicator turns brilliant red with an acid leak and bright green with an alkali leak. While the affected patch can no longer be used, it can be removed and replaced with another patch after the shield has been neutralized.

Spra-Gard Safety Shields feature an overlap design. The flange guards wrap around the pipe connections completely to prevent a lateral sprayout. During installation, they are held in place by means of a velcro fastener and drawcords. No tools are required, and a single installer can secure a shield over a flange or valve in less than a minute. All Spra-Gard® Safety Shields have been subjected to ultraviolet (uv) testing and have performed without degradation for approximately 500 hours.



Temperature up to : 450F° (232°C)
Pressure up to:1650 psi (114 bar)



TFE Spr-Gard® – Flanges



TFE Spr-Gard® – Valves



TFE Spr-Gard® – Fittings



TFE Spr-Gard® – Expansion Joints

Applications for the Marine Industry

The RAMCO TFE Spr-Gard® safety shields comply with SOLAS 15.2.11 regulations required by the IMO (International Maritime Organization) and have ABS certification for use on fuel oils, lubricating oils and other flammable products.



TFE VUE-GARD

TFE (Tetrafluoroethylene-coated fiberglass) is a woven cloth developed exclusively for RAMCO with a carefully engineered porosity concept. Burnt orange in color with a wide center band of clear film, the Vue-Gard® Safety Shield permits visual inspection of pipe joints by personnel so leaks can be detected rapidly

**CHEMICAL USE: IDEAL FOR CORROSIVE CHEMICALS AND ORGANIC SOLVENTS
AVAILABLE WITH QUARTER INCH THREADED DRAIN FOR SECONDARY CONTAINMENT**

Recommended Uses/Industries



Chemical



Refining



Marine



Oil & Gas



Aerospace



Applications where it is necessary to visually inspect the joint such as hoses or expansion joints



Temperature up to : 300F° (150°C)
Pressure up to:1000 psi (69 bar)



Vue-Gard® – Flanges



Vue-Gard® – Valves



Vue-Gard® – Fittings



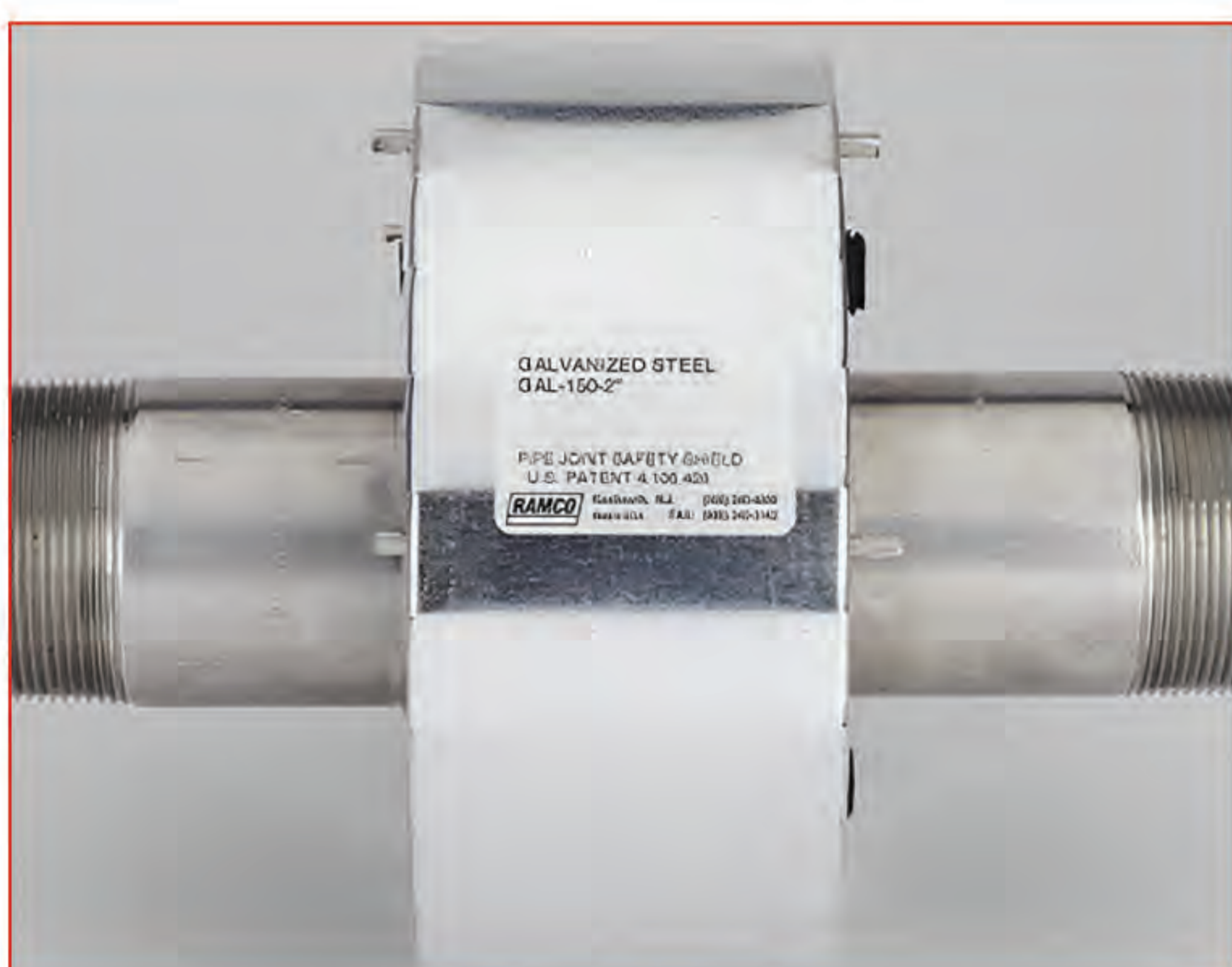
Vue-Gard® – Expansion Joints

METAL | NAVY SHIELD

RAMCO Metal Safety Shields are suitable for flanges and valves in all size systems carrying steam, solvents, chemicals and corrosive agents. The shields slip over existing pipe installations and are put in place easily and quickly with the use of common hand tools. In the event of a leak, the fluid collects at the bottom of the shield where the overlapping slotted edge prevents a lateral blowout and allows the leaking condition to be highly visible without causing injury to plant personnel and equipment.

Available in : Galvanized steel, SS304, SS316

- ❑ Suitable for temperature up to 1454°C
- ❑ Suitable for pressure up to 207 Bar
- ❑ Available with a drain for secondary containment, inner stainless mesh, PTFE and Buna liners.



Galvanized Metal Safety Shield



Metal Safety Shields – 316



RAMCO Spray Control



304FM Metal Safety Shields

304FM

RAMCO 304FM metal safety shields are certified and approved by FM Global for use on flammable fluids in plants that are insured by Factory Mutual. In industries where flammable liquids are present such as Power Generation, Food and Beverage and Pulp and Paper These shields have been vigorously tested to ensure fluids are contained within a small radius of the flange when exposed to a leak. In addition to pressure testing, the shields have been fire tested for 45 minutes and confirmed to still control the spray out.

NAVY SHIELD

RAMCO Navy Spray Shields are fabricated in 20- and 30-foot rolls according to the strict standards outlined in the American Society for Testing and Materials Standard F1138, as well as various military specifications throughout the world. RAMCO® ensures that all shields are designed and manufactured in conformance to required specifications. RAMCO Navy Spray Shields are manufactured with a inner layer of aluminized fiberglass to resist heat. The outer layer is a high temperature resistant, flame-retardant silicone rubber. These two layers are sewn together by TFE coated fiberglass thread that is unaffected by fungi, is resistant to most chemicals, and will not burn or support combustion in normal atmospheres.



RAMCO Navy Spray Shields

RAMCO Navy Spray Shields are designed to provide greater life and improved resistance to abrasion, flexing, tear and puncture. The Navy Roll shield is installed easily by wrapping it around the fitting or valve and securing it using wire. A snug fit is essential.

RAMCO MANUFACTURING COMPANY, INC.

In 1958, RAMCO® Manufacturing Company, Inc. was approached by a New Jersey chemical manufacturer to develop a cost-effective safety device for the control of spray-outs from pipe flanges. While using a make-shift wrap-around steel guard that attached to pipe joints with wire, this company wanted a standardized product that could be manufactured in quantity. RAMCO considered this challenge and the RAMCO Metal Safety Shield was developed.


In 1961, the new shield found another application. The U.S.S. Constellation, while docked at the Brooklyn Navy Yard, experienced severe pressure leakage in lines in its engine room. Because of the injuries and fatalities suffered by the crew; the Navy ordered piping throughout its fleet to be safe guarded against possible recurrence. The Metal Safety Shield made by RAMCO was tested and specified for this application.


Thus, the first generation of RAMCO Safety Shields, made of galvanized steel, used for steam and oil lines were put into service. A similar model in stainless steel was fabricated, shortly thereafter, for highly corrosive chemicals, high temperature, and cryogenic applications. Not only is RAMCO the leading producer of steel shields, but we also manufacture Safety Shields in thermoplastic materials, with each material chosen to provide the best protection in applications.


Since the development of the first commercial safety shield by RAMCO, there has been worldwide acceptance of the capability of a safety shield to prevent injury and damage in the event of a chemical spray-out. Accordingly, their effectiveness has been demonstrated in thousands of installations in industrial plants, governmental services, naval and commercial vessels worldwide.




RAMCO® MANUFACTURING

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Family owned 

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 **TEKNOMA**