



DRAKE SPECIALTIES

PROTECTING PERSONNEL, EQUIPMENT,
AND THE ENVIRONMENT...
WORLDWIDE



SAFETY SPRAY SHIELDS

FOR CONTAINING AND DETECTING HAZARDOUS LEAKS AND SPRAYS



Safety
for Personnel, Equipment,
and the Environment

INTRODUCTION

- Safety Spray Shields are designed to prevent a catastrophe by temporarily containing hazardous leaks and sprays. Leaks can occur on piping systems conveying chemicals, high temperature fluids, and steam, which can harm workers, nearby equipment, and the environment. Leaks of flammables, such as fuel, oil, or hydrogen, can create fire and explosion hazards.
- Safety Spray Shields help meet regulatory standards set by agencies such as OSHA, EPA, BSEE, MSHA, SOLAS, ABS, DNV, and Lloyd's. Spray Shields are also required by some insurance companies and underwriters, such as FM Global.
- Constructed of metal or durable fabrics that are resistant to chemicals, UV, weather, & fire.
- Fabric Shields are available in PTFE, Polypropylene, PVC, and Polyethylene; solid cloth models contain a pH indicating patch which signals a leak by immediately changing color towards red if acidic or towards green if an alkali. The patch is replaceable which allows reuse of the shield.
- Fabric Shields are ready to install quickly and simply by one person with the equipped hook and loop fasteners and draw cord.
- Metal Shields are available in 2 different designs/models of stainless steel, and are equipped with quick latch or hose clamp style fasteners.
- Shields available for all sizes and ratings, including ANSI, SAE, API, DIN, PN, BS, JIS, AS, SANS, & KS.
- Drake Specialties' experience and capabilities in engineering, designing, and manufacturing of standard and non-standard sizes, are recognized worldwide.

EXPANSION JOINT SHIELDS

- Available in same fabrics and styles as Flange Shields.
- Clear PTFE is recommended for viewing of bellows.
- Allows for lateral movement, while maintaining fit and protection.
- Available for all styles and types of Rubber, Stainless, and PTFE bellowed expansion joints, regardless of manufacturer.
- Recommended by most manufacturers of expansion joints.



VALVE SHIELDS



- Available in same fabrics and styles as Flange Shields.
- Allows for operation of valve handle or hand-wheel.
- Bonnet Shields allow for travel and opening and closing of gate or globe valve.
- Manufactured to fit all styles and types of valves:

- Ball
- Check
- Butterfly
- Gate
- Globe
- Plug
- Diaphragm
- Control

FLANGE SHIELDS

Clear PTFE



- Clear FEP center strip allows for complete visual inspection.
- Sides constructed of Premium PTFE coated glass cloth.
- PTFE coated fiberglass or Nomex® thread and draw cord.
- Fire and tear resistant.
- PTFE drain nipple optional.
- Max operating temperature 400°F.

Premium PTFE



- Maximum PTFE content fabric for extreme service and long life.
- 3-ply multi-layered construction.
- PTFE coated fiberglass or Nomex® thread and draw cord.
- Fire and tear resistant.
- Max operating temperature of 450°F.

Standard PTFE



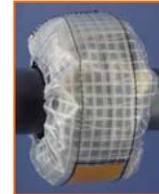
- *Most popular style.*
- PTFE coated glass cloth.
- Reinforced, 4-ply construction.
- PTFE coated fiberglass or Nomex® thread and draw cord.
- Fire resistant.
- Maximum operating temperature of 450°F.

Polypropylene



- Tough, multi-layered polypropylene fabric.
- Polypropylene thread and draw cord.
- New model with FEP Teflon center allows visual inspection. Indicating patch on non-clear model.
- Maximum operating temperature of 200°F.

Polyethylene



- Transparent, reinforced polyethylene fabric.
- 3-ply multi-layered construction.
- Tough poly thread and draw cord.
- Leak indicating patch bonus feature.
- Maximum operating temperature of 170°F.

PVC

- Reinforced, multi-layered, polyvinyl chloride fabric.
- Tough poly thread and draw cord.
- Standard color is safety orange. Yellow and other colors available upon request. Leak patch changes colors.
- New models - Clear center strip and all Clear PVC - provide visual inspection.
- Maximum operating temperatures from 140°F-170°F.



Stainless Steel

- Style I - New, simple, & effective, *patented design*.
- Layers of stainless netting absorb and dissipate pressurized spray.
- No tools required, installs quickly via locking, adjustable quick latch. Available in 2" & 2 3/4" widths, for flanges only.
- Style II for flanges are wider, incorporate overlapping edges on sides, & are more suitable for valves, fittings, and custom fit.
- Hose clamp style fastener assures securing on Style II.
- 316 stainless steel construction, 304ss available upon request.
- Excellent for high temperature, pressure, & long service life.
- Recommended for steam, flammables, and fire protection.
- Max temperature 2000°F, max pressure 3000 psi.



STYLE I

STYLE II

PIPE END COVERS



- Designed to cover the ends of pipe vent outlets on safety relief valves and rupture discs.
- Made from durable, weatherproof vinyl and PTFE fabrics.
- Keeps out rainwater, snow, birds, and insects.
- Contains a draw cord for securing and grommet for tying rope to prevent loss.
- Available for angled and straight cut pipe ends.
- Available for all pipe diameters.

HOW TO ORDER

- **Flanges:** specify size and rating.
- **Valves:** specify size, rating, type, model/manufacturer, and connection-flanged, socket weld, or threaded.
- **Expansions joints:** specify size, model/manufacturer, number of convolutions, or overall length.
- **Fittings:** specify size & type-elbow, tee, union, coupling
- **Material:** specify or provide service conditions (chemical, concentration, & max temperature).
- **All others:** email details/dimensions, or contact factory.

SPECIALTY SHIELDS & COVERS

- Designed to fit actuators, pumps, camlocks, electronics, gauges, piping, equipment, etc.
- Protects from corrosive environments.
- Guards personnel from sprays or leaks.
- Provides thermal insulation.
- Clear Styles allow viewing for maintenance & leak detection.
- Solid colors & fabrics offer variety.
- Variety of attachment configurations.
- Standard designs & custom designs



Actuator Cover

- Hose Shields
- Pipe Shields
- Fitting Shields
- Pump Shields
- Spill Containment Shields
- Flowmeter Shields
- Kamlock Covers
- Insulated Blankets
- Equipment Covers
- Curtains
- Tarps



Insulated Blankets

RESISTANT GUIDE for COMMON CHEMICALS

Chemical	Maximum Temperature °F					
	PE	V	PPL	CLEAR	PTFE	316 SS
Ammonia	170	170	200	200	450	500+
Ethylene Dichloride	n/r	n/r	75	75	450	500+
Hydrochloric Acid (to 35% conc.)	140	140	200	400	450	500+
Hydrofluoric Acid (to 85% conc.)	75	75	200	n/r *	n/r *	500+
Nitric Acid (to 30% conc.)	150	150	150	300	450	500+
Oleum	n/r	n/r	n/r	75	450	500+
Sodium Hydroxide (to 50% conc.)	170	170	200	300	450	500+
Sulfuric Acid (to 30% conc.)	170	170	200	300	450	500+

* Not recommended because Shield contains fiberglass.

Other Quality Products:

Flange Isolation Gasket Kits
Flange Band Protectors
Nut & Bolt Protectors

Marine Roll Shields
Solus Anti-Spray Tape
Centralizers

Certifications:

ISO 9001:2015
ABS(American Bureau of Shipping)

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