

drum closure catalogue

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Rieke Packaging Systems™
A TriMas Company

the **global leader** in **packaging solutions**



Rieke Packaging Systems is committed to being an innovative, world class manufacturer of closures and dispensing systems for the global market. Our success is measured by customer appraisal of our continuous improvement, service and value manifested in the products we provide.

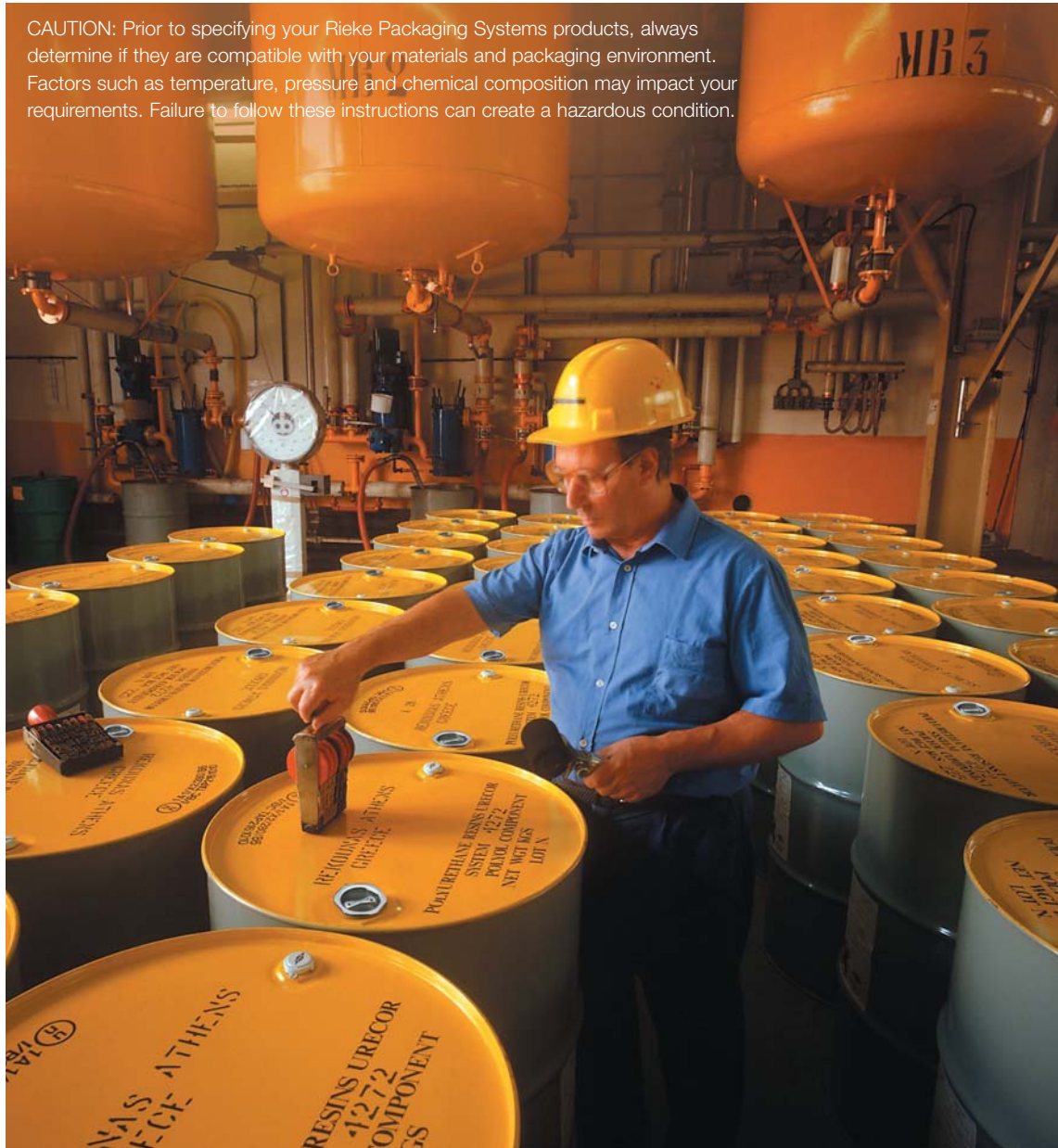
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The Rieke Drum Closure System

CAUTION: Prior to specifying your Rieke Packaging Systems products, always determine if they are compatible with your materials and packaging environment. Factors such as temperature, pressure and chemical composition may impact your requirements. Failure to follow these instructions can create a hazardous condition.



Innovators of the first mechanically inserted plug and flange assembly for drums, Rieke Packaging Systems is now the world leader in closures for industrial drums and open head containers. From the fundamental VISEGRIP® plug and flange to the custom designed LEVER-LOC™ ring, Rieke Packaging Systems drum closures allow for easy, efficient application and reliable sealing.

Closures for Standard 15-, 30- and 55-Gallon Drums

The VISEGRIP II® Plug, Flange and Cap Seal Closure System

Fundamental to the Rieke drum closure line is the design of the VISEGRIP II—the strongest, most dependable closure to seal a drum.

The flange has a series of serrations that lock into the drum material upon insertion.

When **the plug** is torqued into the flange, it seals at the most critical point—the flat surface of the drum head—in effect tightening the plug and gasket in a vise-like grip.

A **cap seal** can then be added for additional protection against tampering.



Closures for Steel Drums

Steel Plugs - VISEGRIP II®

Plugs

Made from premium deep-drawing quality steel, VISEGRIP plugs are noted for perfect balance, uniform dimensions and a high-quality finish.

VISEGRIP II® PLUGS

- ▶ Rounded bottoms make thread engagement easier.
- ▶ Hexagonal shoulder makes them easy to open without wrenches.
- ▶ Wide shoulders and concentric sealing beads lock gaskets securely in place.
- ▶ Yellow chromate finish. Also available in unplated steel or lined with commercial coatings.

S-200 Visegrip II



Size 3/4" (20mm)

S-250 Visegrip II



Size 2" (50mm)

VISEGRIP II®

Specialty Steel Plugs - VISEGRIP

Plugs

Rieke Packaging Systems offers an assortment of specialty steel plugs for unique drum applications. Just like the standard VISEGRIP variety, each of these plugs is made from premium deep-drawing quality steel and serves as an extremely tight closure. They're typically electro-zinc plated, but they're also available in unplated steel or lined with commercial coatings.

S-210 VISEGRIP



Description

Distinctive for its flathead surface; no crossbar or dome feature.

Size

1-1/2" (38mm)

S-210-3 VISEGRIP



Description

Agitator plug with hexagonal perimeter— When sealed, the dome secures the drum's agitator rod.

Size

1-1/2" (38mm)

S-210-4 VISEGRIP



Description

Agitator plug with rounded perimeter—In addition to a dome that secures a drum's agitator rod, it features external ears for ease in open/ close operations.

Size

1-1/2" (38mm)

S-220 VISEGRIP



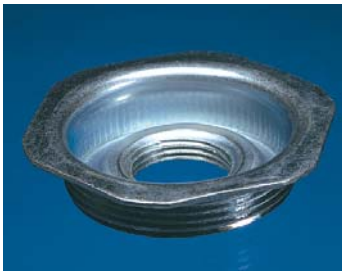
Description

Plug for tote tanks—Features a flathead surface; no crossbar.

Size

2" (50mm)

S-220-C VISEGRIP



Description

Combination plug—Within its 2" frame is a 3/4" center opening.

Size

2" (50mm)

Specialty Steel Plugs - VISEGRIP II

S-250-TFC Visegrip II



Description

Incorporates a threaded faucet carrier feature that accepts a RIEKE 3/4" FLO-RITE faucet (see Rieke/Englass catalog).

Size

2" (50mm)

Agitator Bracket Assembly

Rieke Packaging Systems offers this unique bracket assembly to simplify the permanent installation of an agitator in a drum. With this unit in place, high speed drum manufacturing processes do not have to slow down for welding operations. The assembly is a fixed part of a 1-1/2" (38mm) VISEGRIP flange, making it an inseparable part of the drum head upon insertion.

Visegrip D-200 AGITATOR BRACKET ASSEMBLY



Description

Supplied plated unless otherwise specified.

Closures for Steel Drums

Synthetic Plugs - VISEGRIP II®

PPN Fusible Closures

The unique design of Rieke Packaging Systems' PPN series makes it the ideal closure for drums containing combustible materials. Its reinforced nylon material provides a reliable seal, but when exposed to extreme heat, melts away in the center of the closure to allow volatile gases to vent, thus reducing the risk of explosion.

VISEGRIP FUSIBLE CLOSURES SERIES:

- ▶ Meets UN Packing Group I, II, and III performance requirements with elastomeric gaskets.
- ▶ Meets UN Packing Group II and III performance requirements with polyirradiated gaskets.
- ▶ Features a nylon material
- ▶ Is Factory Mutual approved to meet protection guidelines in NFPA 30, chapter 4, sections 4-8.

PPN-81



Size
2" (50mm)

Thread
NPS

Torque Requirements
20 ft.-lbs

PPN-41



Size
3/4" (20mm)

Thread
NPS

Torque Requirements
9 ft.-lbs

Note: The PFA-62-3 is a 2" (50mm) fusible closure for IBC and tote tanks.

DANGER:
The end user is strongly advised to store drums in an upright position at all times. The end user is warned to keep a safe distance from a drum that is in a fire or subject to very high heat.

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

VISEGRIP II®

VISEGRIP II®

Closures for Steel Drums

Steel Flanges - VISEGRIP II®

Flanges

The VISEGRIP steel flange features a unique design which permits it to become an inseparable part of the drum head. A key to the effectiveness of the VISEGRIP flange is a series of serrations that lock it into the drum metal when inserted. The VISEGRIP II is designed with the drumstock having a circular emboss around the 2" flange for easy identification. A radial seal of the drum stock to the plug gasket sets the VISEGRIP II apart from other closures.

STANDARD VISEGRIP II FLANGES:

- ▶ Are constructed of a heavy-gauge steel.
- ▶ Feature NPS pipe threading.
- ▶ Yellow chromate finish, but are also available in unplated steel, or lined with commercial coatings.

R-4 VISEGRIP II



Size
3/4" (20mm)

R-5 VISEGRIP



Size
1-1/2" (38mm)
Electro-zinc plated

R-6 VISEGRIP II



Size
2" - (50mm)
Has three holes for better drainability

Closures for Steel Drums

Tamper-Evident Cap Seals - VISEGRIP II®

Cap seals

For added protection against tampering, Rieke Packaging Systems offers a choice of cap seals as a final drum closure component. All cap seal designs are suitable for virtually any packaged product.

VISEGRIP METAL CAP SEALS

- ▶ Feature a scored breakaway seal in the surface of the cap
- ▶ Require only a standard VISEGRIP G-10/G-30 crimping tool to be applied
- ▶ Can pass 15 psi pressure

X-3 METAL CAP SEAL VISEGRIP



Size
2" (50mm)

Also available:
X-1 METAL CAP SEAL

Size
3/4" (20mm)

SAFESEAL PLASTIC CAP SEALS

- ▶ Feature a scored tin plate or aluminum breakaway seal around the rim
- ▶ Have a low density polyethylene cap
- ▶ Require only a standard VISEGRIP crimping tool to be applied
- ▶ Can pass 15psi pressure

PX-3 PLASTIC CAP SEAL VISEGRIP



Size
2" (50mm)

Also available:
PX-1 PLASTIC CAP SEAL

Size
3/4" (20mm)

ALL PLASTIC CAP SEALS

- ▶ Feature a scored breakaway plastic seal ring made of high density polyethylene
- ▶ Can be applied without tools
- ▶ Are 100% recyclable

AP-5 ALL PLASTIC CAP SEAL - VISEGRIP II



Size
2" (50mm)

Also available:
AP-6 ALL PLASTIC CAP SEAL - VISEGRIP II

Size
3/4" (20mm)

VISEGRIP II METAL CAP SEALS

- ▶ Feature a scored breakaway seal in the surface of the cap
- ▶ Require only a standard VISEGRIP II GV-10/GV-30 crimping tool to be applied
- ▶ Can pass 15 psi pressure

X-5 METAL CAP SEAL VISEGRIP II



Size
2" (50mm)

Also available:
X-6 METAL CAP SEAL

Size
3/4" (20mm)

Closures for Steel Drums

POLY-VERSEGRIP® Plugs - VISEGRIP II®

The POLY-VERSEGRIP trio of closures are specially designed for use in lined containers. With a high degree of chemical resistance and a capacity to withstand extremely cold temperatures, these plugs perform under a wide array of storage and transport conditions.

POLY-VERSEGRIP CLOSURES:

- Require no gasket.
- Fit NPS threads.
- Can be cap sealed with a plastic SAFESEAL® or metal VISEGRIP II cap seal using standard crimping equipment.
- Meet UN Packaging Standards.
- Are available in High-Impact Polypropylene, or High-Density Polyethylene (HDPE) with a UV inhibitor.

PPA-41 VISEGRIP II



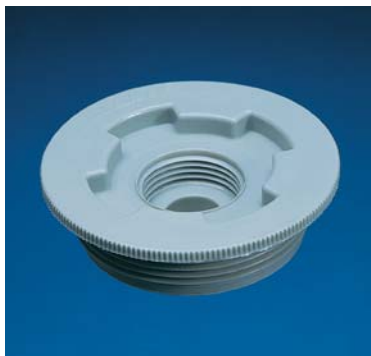
Size
3/4" (20mm)

PPA-81 VISEGRIP II



Size
2" (50mm)

PPA-53 VISEGRIP TOP VIEW



PPA-53 VISEGRIP BOTTOM VIEW



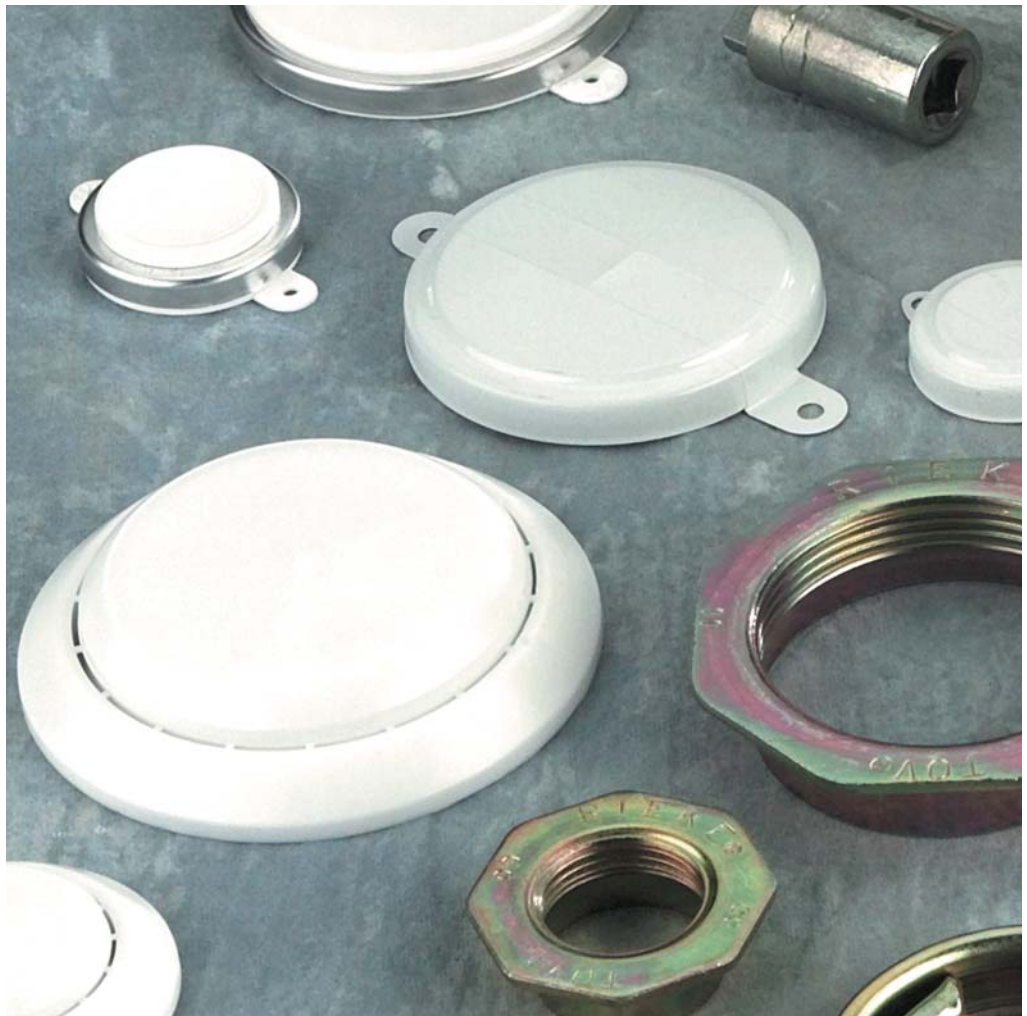
Size
Combination 2" (50mm) plug with removable diaphragm and 3/4" (20mm) opening for FLO-RITE faucets. (See Rieke/Englass catalog.)

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

Closures for Standard 15-, 30- and 55-Gallon Drums

The TITEGRIP Plug, Flange and Cap Seal Closure System

Features rolled threads, not cut, which facilitates a smooth thread connection and greatly reduces the chance of contaminating the drum contents with burrs or shavings.



Closures for Steel Drums

Steel Plugs - TITEGRIP™

Plugs

Made from premium deep-drawing quality steel, TITEGRIP™ plugs are noted for perfect balance, uniform dimensions and a high-quality finish.

TITEGRIP™ PLUGS

- ▶ Threads are rolled instead of cut—creates a smoother thread connection and reduces the chance of contaminating drum contents with metal burrs or shavings.
- ▶ Yellow chromatic finish. Also available in unplated steel or lined with commercial coatings.
- ▶ Utilizes standard insertion tools, wrenches and seals.

T-200



Size
3/4" (20mm)

T-250



Size
2" (50mm)

Closures for Steel Drums

Synthetic Plugs - TITEGRIP™

PPN Fusible Closures

The unique design of Rieke Packaging Systems' PPN series makes it the ideal closure for drums containing combustible materials. Its reinforced nylon material provides a reliable seal, but when exposed to extreme heat, melts away in the center of the closure to allow volatile gases to vent, thus reducing the risk of explosion.

TITEGRIP SERIES:

- ▶ Meets UN Packing Group I, II, and III performance requirements with polyirradiated and elastomeric gaskets.
- ▶ Features a nylon material
- ▶ Is Factory Mutual approved to meet protection guidelines in NFPA 30, chapter 4, sections 4-8.

PPN-71



Size
2" (50mm)

Thread
NPS and BSP

Torque Requirements
20 ft.-lbs.

PPN-31



Size
3/4" (20mm)

Thread
NPS and BSP

Torque Requirements
9 ft.-lbs

DANGER:
The end user is strongly advised to store drums in an upright position at all times. The end user is warned to keep a safe distance from a drum that is in a fire or subject to very high heat.

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

TITEGRIP™

TITEGRIP™

Closures for Steel Drums

Steel Flanges - TITEGRIP™

Flanges

Like its counterpart, the TITEGRIP plug, these flanges feature threads that are rolled rather than cut. This facilitates a smoother thread connection and greatly reduces the chance of contaminating the drum contents with burrs or shavings.

TITEGRIP FLANGES:

- ▶ Standard yellow chromatic finish. Also available in unplated steel, or lined with commercial coatings.
- ▶ Non-machined, cold-formed neck for improved strength.

GH4



Size

3/4" (20mm)

GH6



Size

2" (50mm)

Closures for Steel Drums

Tamper-Evident Cap Seals - TITEGRIP™

Cap seals

For added protection against tampering and leakage, Rieke Packaging Systems offers a choice of cap seals as a final drum closure component. All cap seal designs are suitable for virtually any packaged product.

TITEGRIP METAL CAP SEALS

- ▶ Feature a scored breakaway seal in the surface of the cap
- ▶ Require only a standard TITEGRIP crimping tool to be applied

XT-3 METAL CAP SEAL



Size
2" (50mm)

Also available:
X-1 METAL CAP SEAL

Size
3/4" (20mm)

TITEGRIP PLASTIC CAP SEALS

- ▶ Feature a scored tinplate or aluminum breakaway seal around the rim
- ▶ Have a low density polyethylene cap
- ▶ Require only a standard TITEGRIP crimping tool to be applied

PXT-3 PLASTIC CAP SEAL



Size
2" (50mm)

Also available:
PXT-1 CAP SEAL

Size
3/4" (20mm)

TITEGRIP ALL PLASTIC CAP SEALS

- ▶ Feature a scored breakaway plastic seal ring made of high density polyethylene
- ▶ Can be applied without tools
- ▶ Are 100% recyclable

APT-3-5000 ALL PLASTIC CAP SEAL



Size
2" (50mm)

Also available:
APT-1-5000 ALL PLASTIC CAP SEAL

Size
3/4" (20mm)

SPECIAL ALL PLASTIC CAP SEAL

TE56B4 PLASTIC CAP SEAL



Size
56mm

Threads
Fits 6N 56 B4 Buttress threaded plugs

Rieke Packaging Systems has the capabilities to imprint its cap seals with a graphic image. The flat surface is perfect for a trademark or logotype to help build brand identity. Or, it can serve to deliver an important "caution" or instructional message.

Closures for Steel Drums

Closures and Vents - POLYGRIP®

Closures

Ideal for packaged products compatible with polyethylene, the secure POLYGRIP closure assembly features a unique tamper-evident design. The flange features a molded, prescored diaphragm that forms a hermetic seal between the closure and the container. The diaphragm features a convenient pull ring for easy removal. Once the diaphragm is torn away, the plug can be replaced to reseal the container. Incorporated in the plug is a 3/4" (20mm) opening for a FLO-RITE faucet (see Rieke/Englass catalog).

PFA-61



Description

Flange and plug assembly for lined containers

Size

2" (50mm)

Colour

Natural color

PFA-71

Description

flange and crimping ring only for coated containers

Size

2" (50mm)

Colour

Natural color

Also available:

PFA-62

Description

Flange and plug assembly for unlined containers and containers with a bag liner or sealing disc

Size

2" (50mm)

Colour

Grey color

PFA-72

Description

Flange and crimping ring only for unlined containers and containers with a bag liner or sealing disc

Size

2" (50mm)

PFA-62-3

Description

Fusible closure for IBC and tote tanks

Size

2" (50mm)

Vents

Perfect for lined containers, POLYGRIP vents provide a unique dispensing and resealing feature when used in combination with the POLYGRIP closure. Like their POLYGRIP counterparts, these vents are tamper-evident due to a molded, prescored diaphragm. Once the diaphragm is removed using the convenient pull ring, the venting capability allows for easy dispensing without surging.



PV-20-52

Description

For lined and unlined containers. Attached cap for resealing

Available assembled or unassembled

Colour

Natural color

Closures for Steel Drums

Nylon Flanges - VISEGRIP

Ideal for lined steel drums

Molded of engineered nylon base plastic, these flanges combine with RIEKE nylon plugs to create a reliable seal completely safeguarded against corrosion. With a patented preload on the interior outer edge, they also protect customer product from potential lining fracture at the closure area. Just like VISEGRIP steel flanges, these nylon models also lock into the surface of the drum with a series of serrations that practically fuse the flange and the drum together.

PRN-4J (USED WITH PPN-61)



Size
3/4" (20mm)

PRN-6J (USED WITH PPN-21)



Size
2" (50mm)

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

Closures for plastic drums



Closures for Plastic Drums

POLY-VERSEGRIP Plugs for Poly Drums

Plugs

Rieke Packaging Systems offers a comprehensive line of plastic plugs specifically designed for plastic containers. Maintaining the same functional characteristics of the original steel VISEGRIP plugs, these closures apply an equally reliable seal for a wide range of applications.

POLY-VERSEGRIP PLUGS FOR POLY DRUMS

- Constructed of either a high-density polyethylene (HDPE) with a UV inhibitor or a polypropylene copolymer.
- Meets UN Packaging Standards
- Can be cap sealed with a plastic SAFESEAL or metal VISEGRIP cap seal (page 9) using standard crimping equipment.

PPA-57-B-5 TOP VIEW



PPA-57-B-5 BOTTOM VIEW



Buttress Thread Plugs requiring a Gasket:

Description

Incorporates a 3/4" (20mm) threaded opening with a knockout diaphragm and an optional snap-fit faucet carrier for the FLO-RITE faucet (see Rieke/Englass catalog). Satisfies 178.605 PKG group hydrostatic testing requirements.

Size

2" (50mm)

Colour

Natural

Material

HDPE or polypropylene copolymer

Recommended Gasket

GK-96W

PPA-56



National Pipe Thread (NPS) Plugs Requiring a Gasket:

To achieve accurate sealing at 20 ft.-lbs. torque, a Rieke 20/9 preset torque wrench is recommended.

Description

Incorporates a 3/4" (20mm) threaded opening with a faucet carrier.

Size

2" (50mm)

Colour

Natural

Material

HDP (engineered reinforced)

Recommended Gasket

GK-93 or GK-93W

PPA-57



Incorporates "easy start" threads for quicker engagement. Satisfies 178.605 PKG group hydrostatic testing requirements. Promotes reconditioning and reuse of the container.

Size

2" (50mm)

Colour

Natural

Material

HDP (engineered reinforced)

Recommended Gasket

GK-97W

PPA-11



National Pipe Thread (NPS) Plugs—Gasket Recommended:

Can be used without a gasket.

Size

3/4" (20mm)

Colour

Natural

Material

HDPE or copolymer

Recommended Gasket

GK-91 or GK-91W

PPA-10-2 SPECIALTY PLUG



No gasket required.

Size

3/4" (20 mm)

Colour

Natural

Material

HDPE

Also available:

PPA-51

Can be used without a gasket.

Size

2" (50mm)

Colour

Natural

Material

HDPE

Recommended Gasket

GK-93 or GK-93W

PPA-53

Same as PPA-51, but has a 3/4" (20mm) threaded opening with a faucet carrier.

Closures for Plastic Drums

POLY-TITEGRIP Plugs for Poly Drums

Plugs

Rieke Packaging Systems offers a comprehensive line of plastic plugs specifically designed for plastic containers. Maintaining the same functional characteristics of the original steel VISEGRIP plugs, these closures apply an equally reliable seal for a wide range of applications.

POLY-TITEGRIP PLUGS FOR POLY DRUMS

- ▶ Constructed of either a high-density polyethylene (HDPE) with a UV inhibitor or a polypropylene copolymer.
- ▶ Meets UN Packaging Standards
- ▶ Can be cap sealed with the All Plastic TITEGRIP TE56B4 capseal
- ▶ Standard European 56mm plug meets CEN requirements.
- ▶ Standard 6N lug configuration

6N56B4



Buttress Thread Plugs requiring a Gasket:

Description

Available with a 3/4" (20mm) threaded opening with a knockout diaphragm. Satisfies 178.605 PKG group hydrostatic testing requirements.

Size

56mm (56x4 standard European size)

Colour

White

Material

HDPE or polypropylene copolymer

Recommended Gasket

GK-956

Closures for Plastic Drums

TAMPER-LOC® Closure System

As a closure system, the TAMPER-LOC incorporates a plug and an external, sonic-welded tamper-evident ring with ratchets. Together, these components provide the most reliable protection for plastic drums without the need for a separate tamper-evident cap seal.

The external ring features a series of ratchets that correspond and lock up with another series of ratchets in the drum opening, effectively preventing plug backoff. When the drum is opened for the first time, using a standard bung wrench, the external ring is broken and removed from the plug.

Designed for ease of inspection of proper torque before shipment, as well as immediate evidence of any tampering before opening. As an added feature, the ring can be colored and/or embossed with your company logotype.

NOTE:

- ▶ Proper torque is 25 ft.-lbs. To ensure accurate sealing, the W-126PT-04-25 preset torque wrench (page 30) is recommended.
- ▶ Optional PX-4 dust caps are recommended to protect drums from foreign matter prior to filling. Ask your Rieke Packaging Systems representative.

PPA-57-T



Top View

Size

2" (50mm)**Thread**

NPS**Colour**

Natural

PPA-57-B-5-T



Bottom View

Also available:

Size

Size—2" (50mm)**Thread**

Buttress**Colour**

Natural

Closures for Plastic Drums

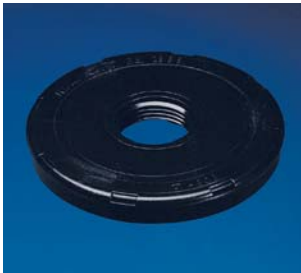
(Replaceable) Flanges - VISEGRIP

These flanges are specially designed for use with plastic, reusable drums. They are molded of high density polyethylene (HDPE) and reinforced with fiberglass and UV stabilizers, for exceptional durability.

EACH OF THE THREE FLANGES:

- ▶ Can be removed and replaced when needed, extending the life and usability of the drum.
- ▶ Reduces ovalization on new and reconditioned drums.
- ▶ When used with a POLY-VISEGRIP plug, can be cap sealed for tamper-evident protection.

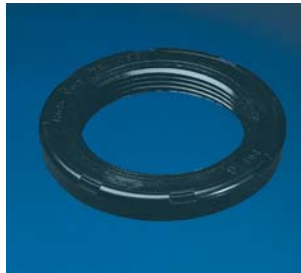
PDF-4



Size
3/4" (20mm)

Thread
NPS

PDF-6



Size
2" (50mm)

Thread
NPS

PDF-7



Size
2" (50mm)

Thread
Buttress

GASKETS

Same as those used with steel drums.

SEALS

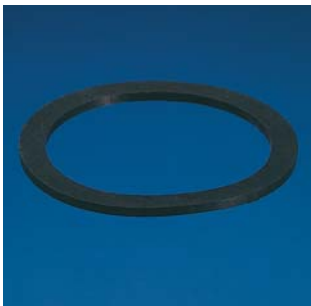
Plastic drums use SAFESEAL plastic and VISEGRIP metal cap seals.

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

Gaskets

Regardless of packaging conditions, Rieke Packaging Systems offers a gasket capable of forming the tight seal required at the most critical juncture of the closure.

WISECAR® GASKETS



Compounded of VISECAR Buna synthetic rubber, these gaskets serve as the Rieke standard.

Will withstand an oven temperature of 450°F (232°C) for up to 20 minutes

GK-43

Size _____
2" (50mm)

Colour _____
Black

Also available:

GK-41

Size _____
3/4" (20mm)

Colour _____
Black

GK-41W

Size _____
3/4" (20mm)

Colour _____
White

GK-42

Size _____
1-1/2" (38mm)

Colour _____
Black

GK-43W

Size _____
2" (50mm)

Colour _____
White

POLYSEAL® GASKETS



This heavy-duty gasket made of polyethylene for extreme durability.

Will withstand a maximum oven temperature of 120°F (49° C)

Also available:

GK-72

Size _____
1-1/2" (38mm)

Colour _____
Natural

Irradiated heat resistant POLYSEAL gaskets— Will withstand an oven temperature of 350°F (176°C) for up to 15 minutes

GK-71-3

Size _____
3/4" (20mm)

Colour _____
Natural

GK-73-3

Size _____
2" (50mm)

Colour _____
Natural

EPDM GASKETS



These gaskets are specially designed with an ethylene propylene terpolymer material, making them compatible with a wide range of chemical products.

Will withstand an oven temperature of 450°F (232°C) for 20 minutes

GK-93

Size
2" (50mm)

Colour
Black

Also available:

GK-91W

Size
3/4" (20mm)

Colour
White

GK-92

Size
1-1/2" (38mm)

Colour
Black

GK-92W

Size
1-1/2" (38mm)

Colour
White



GK-93W

Size
2" (50mm)

Colour
White

GK-97W

for 2" PPA-57 NPS threaded plugs

Size
2" (50mm)

Colour
White

GK-96W

2" PPA-57-B-5 buttress threaded plugs)

Size
2" (50mm)

Colour
White

Vented Closures

Specialty Steel Electro-Zinc Plated/Yellow Chromate Finish

Rieke Packaging Systems offers several pressure relief plugs forged out of heavy gauge steel for exceptional material strength.

S-220-2 PRESSURE RELIEVING PLUG

While applying the distinctive sealing qualities of the fundamental VISEGRIP, Rieke's S-220-2 also serves as the drum's relief valve for packaged hazardous materials.

- ▶ Prevents buildup of internal pressures by venting volatile gases.
- ▶ Vents at internal pressures of 13 to 15 psi.
- ▶ Reseals at approximately 8 psi.
- ▶ Plugs with different venting pressures are available.

Note: To ensure proper operation, this plug must be chemically compatible with—and located above the liquid level of—the drum contents.

S-220-2 VISEGRIP II TOP VIEW



S-220-2 VISEGRIP II BOTTOM VIEW



Size

2" (50mm)

S-200-1814 REVERSIBLE STEEL VENT

A reversible ball valve at the base of this closure allows for venting. It's adaptable for both pressure and vacuum relief depending on packaging requirements.



S-200-1814P PRESSURE RELIEF

Size

3/4" (20mm)

S-200-1814V VACUUM RELIEF

Size

3/4" (20mm)

Micro-Porous Vents

Many of Rieke Packaging Systems' plastic closures can be equipped with a Micro-Porous Gauze Vent that allows two-way venting for either pressure or vacuum relief.

WHEN USING THESE VENTS:

- ▶ Be sure to allow for adequate head space in the container. Failure to do so can plug the vent or cause leakage.
- ▶ The container should be transported and stored in an upright position.

PPA-51-TFE TOP VIEW



Size
2" (50mm)

PPA-51-TFE BOTTOM VIEW



A micro-porous vent can be incorporated into any of the following plugs (including that which is shown):

PPA-10-2
PPA-11
PPA-57
PPA-57-B-5

WISEGRIP Series
PPN 61 and PPN 21

TITEGRIP Series
PPN 71 and PPN 31

TITEGRIP PPN-32
Nylon closure

Note: Add the "TFE" suffix to the part number when specifying a micro-porous vent.

Note: All models incorporate a chemically resistant polypropylene and/or polyethylene material unless otherwise indicated.

Cutaway of S-200PV-21P showing the pressure relief vent



Micro-Porous Vents

Chemical manufacturers appreciate the design capabilities of Rieke Packaging Systems' reversible vents. Formulated with two special synthetic materials (Buna and EPDM), these vents meet compatibility requirements while accommodating pressure and/or vacuum relief.

PPA-11-PV-21V*



Size
3/4" (20mm)

PPA-51-PV-21V



Size
2" (50mm)

A reversible vent, pressure and/or vacuum, can be incorporated into any of the following plugs, unless otherwise specified (including those which are shown).

PPA-53*

VISEGRIP Series PPN-61 and PPN-21

Reversible vents in VISEGRIP steel plugs:
S-200

Reversible vents in TITEGRIP nylon closures:

PPN-32



Size
3/4" (20mm)

This nylon plug is specially designed to accommodate our PV-21 vent.

Note: Add the "PV-21P" (pressure) or "PV-21V" (vacuum) suffix to the part number when specifying a reversible vent.

Tools

Manual Crimping Tools

Rieke Packaging Systems' manual crimping tools are easy to use and versatile. They apply both plastic and metal cap seals in one easy motion, and—due to a built-in, automatic compensator - can be used with drum stock ranging from 24 to 16 gauge, regardless of thickness.

G-10



Description

For use with 2" (50mm) VISEGRIP metal and SAFESEAL plastic cap seals.

Note: The G-10 and G-30 can be used on pails using VISEGRIP drum closures.

PF-40



Size

For use with 3/4" (20mm) VISEGRIP metal and SAFESEAL plastic cap seals.

Note: The G-10 and G-30 can be used on pails using VISEGRIP drum closures.

G-30



Size

2" (50mm)

Power Crimping Tools

Airmatic

This air-operated power tool can be suspended by counterbalance to accommodate closure insertion on moving filling lines.

IA-G-10



Size

For use with 2" (50mm) cap seals.

IA-G-30

Size

For use with 3/4" (20mm) cap seals.

Micro-Porous Vents

Each of these wrenches features a combination head for use with two different sizes of closures. Sparkless types are available for use on drums containing combustible materials.



W-167

Description

Socket type fits 3/4" (20mm) and 2" (50mm) steel plugs.



W-168

Description

Prong and socket type fits 3/4" (20mm) and 2" (50mm) steel and plastic plugs.

Also available:

W-164S

Description

1-1/2" and 3/4" socket type—sparkless



W-167S

Description

2" and 3/4" socket type—sparkless

W-169

Description

Universal drum opener

W-168S

Description

2" and 3/4" prong and socket type—sparkless

W-180S

Description

2", 1-1/2" and 3/4" prong and socket type—sparkless

Combination Wrenches for TITEGRIP plugs



W-268

Description

2" and 3/4" prong and socket type

Also available:

W-268S

Description

2" and 3/4" prong and socket type—sparkless

Preset Torque Wrenches for VISEGRIP plugs

These wrenches are set to automatically apply proper torque to the appropriate closure, taking the guesswork out of tightening.



W-168PT

Description

Prong and socket type fits 3/4" (20mm) and 2" (50mm) steel and plastic plugs. Color coded for the following ft./lbs. torque settings:

30/15—red (for use with VISECAR or DAPON gaskets)

40/20—blue (for use with POLYSEAL gaskets)

20/9—yellow (for use with POLY-VISEGRIP plugs)

Also available:

W-126PT-04

Description

TAMPER-LOC closure system 2" prong type with spinner Setting—25 lbs.

W-126PT

Description

2" prong type with spinner Setting—20, 30 or 40 lbs.

W-167PT

Description

2" and 3/4" combination socket type Setting—30/15 or 40/20 lbs.

W-167PT

Description

Sparkless version of W-168PT



W-167SPT

Description

Sparkless version of W-167PT

Preset Torque Wrenches for TITEGRIP plugs



W-268PT TITEGRIP

Description
2" (50mm) and 3/4" (20mm) combination prong and socket type

Setting—20/9, 30/15 or 40/20 lbs.

Also available:

W-268SPT TITEGRIP

Description
Sparkless version of W-268PT

SPINNER WRENCHES

These tools are specifically designed to quickly tighten and remove VISEGRIP plugs.



W-126

Description
For use with 2" plugs (prong type)

Also available:

W-126S

Description
Sparkless (2" prong type)

W-127

Description
For use with 3/4" plugs.

Wrench Heads

For Steel Plugs:



W-100

Description
2" (50mm) prong type with 3/4" (20mm) drive hole

Also available:

W-100-04

Description
2" (50mm) prong type with 3/4" (20mm) drive hole



W-179-1

Description
"Snap-on" 2" (50mm) and 3/4" (20mm) combination with 1/2" (12.7mm) drive. Specially made of tool steel

Also available:



W-99

Description
3/4" (20mm) socket type with 3/4" drive hole



W-170S

Description
2" (50mm) and 3/4" (20mm) combination with 3/4" drive hole—sparkless



For Plastic Plugs:

W-104

Description
3/4" (20mm) socket type



For Plastic and Nylon Plugs:

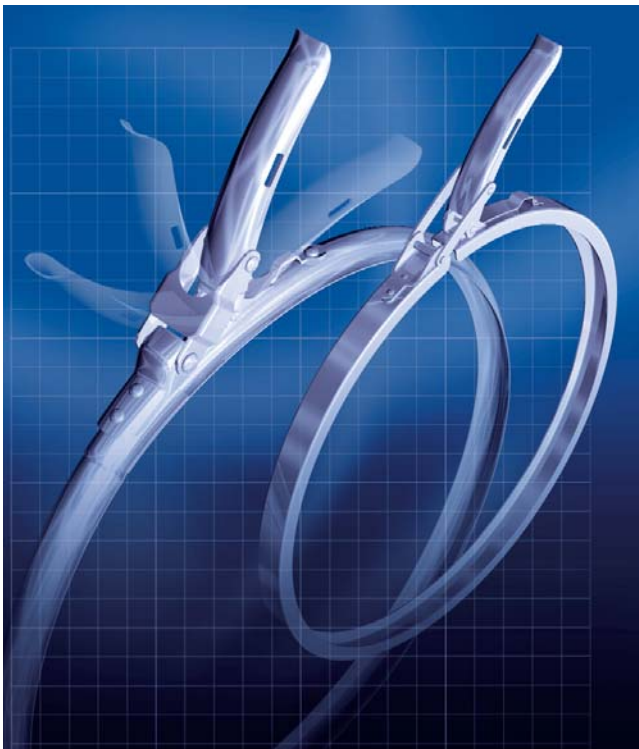
W-415

Description
For use with all Rieke and Titegrip 2" (50mm) and 3/4" (20mm) plastic and nylon plugs 1/2"(12.7mm) drive

LEVER-LOC™ Lever Rings for Industrial Open Head Containers

The LEVER-LOC Closure System

As steadfast as it is easy to use, LEVER-LOC is becoming the ring closure of choice for companies that package in open-head containers. Successful in the most trying hydrostatic and drop tests, LEVER-LOC consistently meets UN and DOT Packaging Standards for regulated materials.



When closed, the ring overlaps—eliminating gaps—to ensure its sealing power completely encircles the lid.

For exceptional strength, each ring is the product of welded steel construction, and can be galvanized or coated with epoxy powder.



The unique lever design is as dependable as a bolt ring, and yet much easier to apply and remove over and over again.

Custom sizing and profiling capabilities produce a LEVER-LOC ring that precisely fits any given container, from one gallon size up through IBC tanks.

Introducing AutoGrip® Lever Rings

AUTOMATIC LOCKING IN AN EASY-TO-USE RING CLOSURE



Description

Rieke's commitment to adding value for its customers led to the development of the patent-pending AutoGrip Lever Ring. Built-in features eliminate many steps involved in drum sealing, without compromising the seal. The AutoGrip automatically locks when closed and has no need for an extra safety latch.

LEVER-LOC Lever Models

The lever model you choose will depend on two primary application factors:

NOTE:

- ▶ Packaged Contents—Just as the contents will determine how robust the container needs to be, they will also determine the necessary gauge or performance strength of the lever.
- ▶ Regulated materials requiring a more reliable drum will likewise require a more reliable lever of a higher gauge and steel thickness.
- ▶ Dimensions of Container—Larger levers are designed for larger container diameters in order to apply the required pressure when closed. Other specifications, such as the radius and throw of the lever handle, vary with openings and lids to maintain the ease of applying and removing the ring.

The current selection of lever models is extensive and diverse due largely to the fact Rieke Packaging Systems will often alter the design of an existing model to serve a unique customer need. Please review the following pages to find the base models appropriate for the size of your container.



Standard Lever Models for Drums

Easy to use, yet virtually unbreakable in performance tests, each LEVER-LOC lever features:

NOTE:

- ▶ International design for a worldwide market
- ▶ All stamped steel construction—no wires
- ▶ Solid—not hollow—rivets
- ▶ A design intended for welding onto the ring
- ▶ A low profile that makes it easier to palletize and store drums close together

T85



Description

For 55-gallon (208 litre) plastic open head drums

T60



Description

For 30-gallon (113 litre) plastic open head drums

T85 W/SAFETY LATCH



Description

For 55-gallon (208 litre) plastic open head drums

BRG



Description

For 55-gallon (208 litre) steel open head drums
Replaces a 12-gauge bolt ring
An integral swivel seal is available if needed

T42



Description

For open head fiber drums (any size)

Seals

Every LEVER-LOC lever is designed with a slot that allows for the insertion of a tamperevident seal tab.



STEEL SEALS



Description

Made of a galvanized steel

PLASTIC SEALS

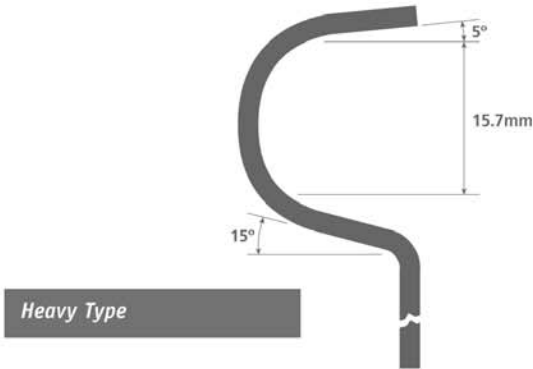
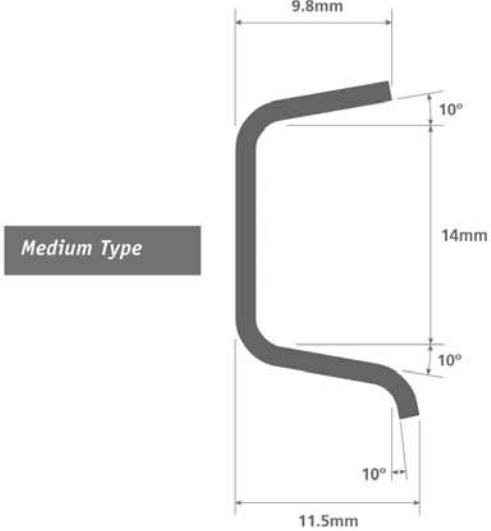
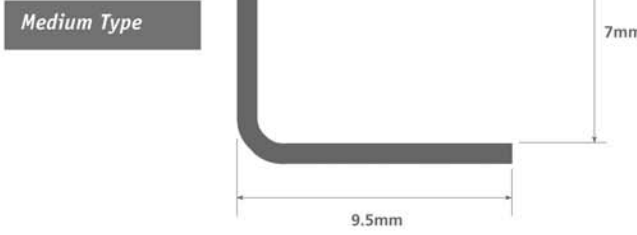
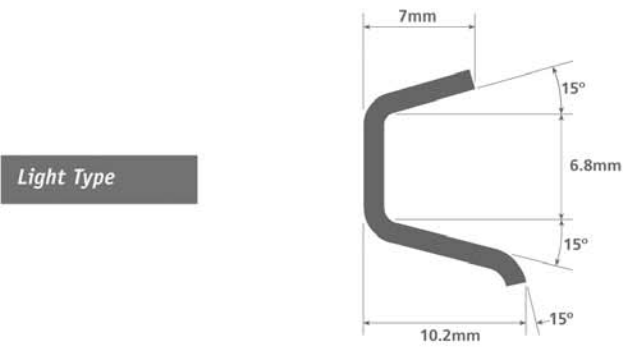
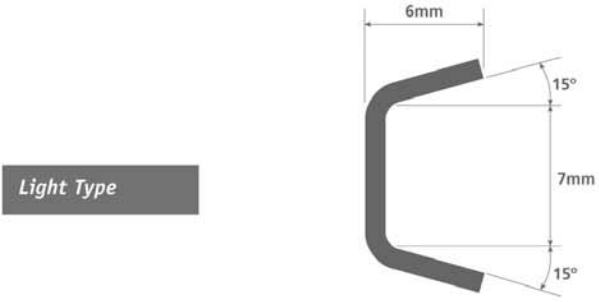
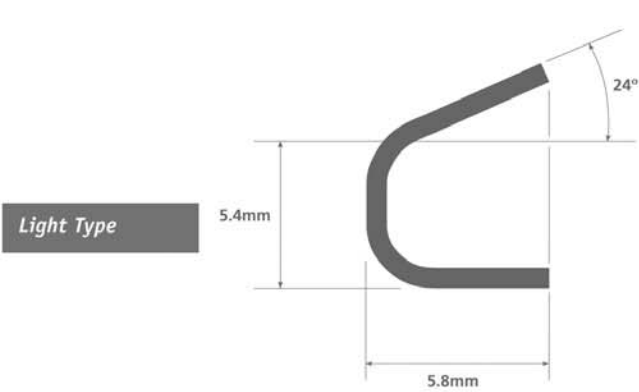


Plastic Seals

Offer a more economical but equally effective solution when compared to steel seals.
Not reusable—plastic is broken when container is opened.

Profiles

Below are diagrams of some of the industry's most common locking ring profiles for open head containers. If your container rim does not match one of these, Rieke Packaging Systems will custom fit a LEVER-LOC ring that does.





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