One-Way Kegs: The Real and Innovative Alternative to Steel Keg Ownership & Rental

Thursday, July 29 at 11 AM MT

Sponsored by Petainer
One-Way Kegs
What is a One way keg?

A One-way keg is a keg that once filled and sent into the market is not returned for re-use.
**What is PET?**

Polyethylene terephthalate commonly abbreviated PET, is the most common thermoplastic polymer resin of the polyester family and is used in fibres for clothing, containers for liquids and foods.

**Why PET for beer packing?**

It is a very strong and inert material that doesn’t react with foods or beverages. Is resistant to attack by micro-organisms and will not biologically degrade.

**PET has the following useful qualities:**
- Very Strong
- Flexible and allows some expansion
- Shatterproof
- Lightweight
- Is very Recyclable
- Can be Blown on site
Beer packing available:

PETAINER ONE WAY:

<table>
<thead>
<tr>
<th>S – Well type</th>
<th>D – Well type</th>
<th>A – Flat type</th>
<th>G – Flat type</th>
</tr>
</thead>
</table>

Hybrid Kegs

Classic Kegs
Can be used as a Home keg:

With our 10 liter mini keg, consumers can take their draft beverages anywhere!
One-Way Kegs Advantages
Reduce your Logistic costs

- No returns of empty kegs, so not need to charge deposits.
- Steel kegs can cost more than $100 and for every tap handle you may need at least 3 units to maintain availability.
- No keg losses, it is estimated up to 5% of inventory lost per year.
- Lighter and easier to stack than steel kegs.
- For Exporting Draft, One-way kegs are a “No Brainer”
A clean fill every time

- Keats arrive at the Brewery clean, pre-purged and ready to be filled.
- Forget about the washing or sanitizing process of kegs.
- Reduces Utility usage.
- No need for expensive keg washers and more space in your brewery.
The safest one-way keg

- Same shelf life as steel kegs (9 months).
- Barriers to stop CO2 loss or O2 pickup.
- UV light protection.
- Puncture Resistant Wall, the Hybrid Keg will fail safely if punctured during use.
One-way Kegs VS Steel Kegs General Performance

- **Smell**
- **Drink**
- **Fullness**
- **Carbonation**
- **Bitterness**
- **Average Note**

5 = No mistake recognizable
4 = OK quality
3 = Mistakes recognizable
2 = Significant mistakes recognizable
1 = Awful
Export to new markets

- One-way shipping, easy to dispose of after use.
- Compatible with most filling systems.

One-way Kegs Advantages
**CO₂ Sustainable solution**

- Eliminate wastewater by eliminating keg washing.
- Up to 60% recycled material used in each Hybrid Keg.
- Significant reductions in CO₂ emissions compared to steel barrels by not having to return the kegs to their origin.
Easy to handle

• **Weight**: An empty Petainer one-way keg is 10% of a steel keg, making easier to handle and reducing shipping costs.

• **Stackability**: Easier to store and ship.
The Best Solution for Beer on Tap

**READY-TO-USE:**
- Pre-purged with N2.
- Compatible with any filling system.

**SAFE:**
- Puncture-resistant wall.
- PRT (Pressure Relief Tool) supplied with every keg.
- Pressure-resistant: used in high pressure pasteurization (HPP).

**FAST FILL:**
- Upright or inverted filling.
- With inside spear for optimal dispense.
- Foam reduction.

**DESIGN**
- Optimal palletization of the filled kegs.
- Patented chime: a unique base grip design.

**PRODUCT INTEGRITY:**
- UV and Light Protection (no bag needed) CO2 (9 months) and O2 (12 months) protection.
- Temperature protection: Tested >50°C without damage. Recommended temperature < 30°C.

**SAFETY INSTRUCTIONS:**
- Instruction label with QR code on every keg.
- Online resources and support tools.

Available for 10, 20, y 30 Liters
Disposing of an empty Keg

1. When the keg is empty, release the pressure inside the keg by using the pressure release tool next to the neck of the keg.

2. If a Hybrid keg, remove the two locking rings and then remove the chimes.

3. Flatten the keg with your foot.

4. Collect the parts, and the keg will be ready to be disposed of.
FILLING ALTERNATIVES
One way keg filling

Petainer kegs can be filled upright or neck down.
One way keg filling

MANUALLY: Petainer One-way kegs can be manually filled through a simple modified coupler making it possible to get into the kegging business for as little as $50.
One way keg filling

AUTOMATIC-SEMI / AUTOMATIC filling machines are also available from several equipment suppliers, including suppliers in North America.

This equipment ranges in price from $13,500 to $70,000 dollars depending on throughput etc. All of this equipment offers volumetric filling with fill accuracies on some equipment of +/- 0.01L and losses of around 100ml per keg.

With programming and some small mechanical changes.
One way keg filling

With programming and some small mechanical changes One-way kegs can be filled on existing keg lines.
QUESTIONS?

ANDY BREWER
DIRECTOR TECHNICAL SERVICES
andrew.brewer@petainer.com
www.petainer.com

@petainer
@petainerglobal