

PAY AS YOU GO - FOOD GRADE DISPENSENSE GAS CYLINDERS

HOBBYBREW
• BEVERAGE GASES •



THE 5TH INGREDIENT

Beer is fantastic (when consumed responsibly) and is brewed using 4 main ingredients; Water, Grain, Hops & Yeast. It's fascinating to see the variety of beers being produced by breweries and whether it's a tropical hop heavy IPA or a rich caramel stout, the 4 fundamental ingredients remain the same.

There is however, one other ingredient which is added to your favourite beers that you might not have thought about – Gas!

Altering the mixture of gas can have a significant effect on the mouthfeel of the end product, carbon dioxide adds that refreshing fizz you enjoy on a summer's day, where a higher nitrogen content produces a higher quantity of smaller bubbles, producing a smooth and creamy mouthfeel.

Gas has a significant effect on the end product and enhances the overall experience you have when consuming a nice beer from your favourite brewers.

That's why we consider Hobbybrew to be the "5th ingredient", because... no one wants a poor pint!



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Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Safety is your responsibility.

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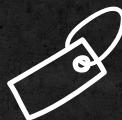
Premium Quality

Hobbybrew supplies professional food grade gas products, filled and blended in a Quality Assured gas production site.



Reputable Supplier

Established in 1978 supplying the North East, Borders, Central and Southern Scotland with quality food grade packaging and drinks dispense gases.



Great Value

One full cylinder of Hobbybrew has the capacity to dispense up to 1100 pints (just over 12 x 11 gallon kegs) costing as little as 3p per pint



Pay As You Go

With no monthly rental charges, a one-off refundable deposit and pay as you go gas refills.

Hobbybrew is ideal for craft brewers and low volume users.



No Account Required

Simply fill in a deposit form at your local Hobbybrew agent, pay for the cylinder and a fill of gas, then take it with you to start brewing or dispensing.



Convenient Supply

Our cylinders are available for Nationwide collection from an ever growing stockist network, ideal for trade events, mobile bars or if you're moving home.

CARBON DIOXIDE



Carbon Dioxide 100%

Nitrogen 0%



Bubble Size

Large



Flow

Lively



Mouthfeel

Crisp



Typical Pairings

Lagers, IPA's, pilsners, American sours and soft drinks.

30 70



Carbon Dioxide 30%

Nitrogen 70%



Bubble Size

Small



Flow

Cascading



Mouthfeel

Velvet



Typical Pairings

Rich and creamy stouts, bitters and traditional ales.

60 40



Carbon Dioxide 60%

Nitrogen 40%



Bubble Size

Medium



Flow

Dynamic



Mouthfeel

Balanced



Typical Pairings

Easy drinking lagers, ambers, sessions and ciders.

HOBBYBREW FOR YOUR BUSINESS

Whether you're a brewery, café or a small restaurant, quality products and services are the key to success. Using low quality dispense gas can spoil the taste of your drinks, which could result in losing customers through poor beer quality.

As a business which uses food grade gas products, it is your responsibility to ensure the cylinders are sourced from a gas supplier which is registered with their local authority and therefore approved as a food manufacturing site. Using non-food grade products and/or a supplier who is not registered may result in a breach of the health & safety at work act as well as food safety regulations. Why risk it?

Our cylinders are manufactured and filled to meet national and EU requirements for food quality and hygiene. Turn to **page 8** to read more about some of the measures we have in place to provide you with peace of mind.



HOBBYBREW FOR YOUR HOME

The demand for professional food grade dispense gas is at an all time high - home bars, pubs in sheds and home brewing is becoming more accessible and increasingly affordable.

Hobbybrew provides a cost effective solution for low volume home users without jeopardising the quality.

When it comes to premium products and first class service, you can count on Hobbybrew for the perfect pour!

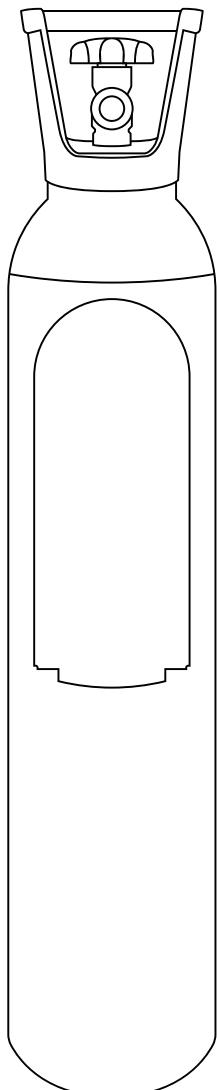


#5THINGREDIENT

Show us how you use Hobbybrew on Instagram

Beer Deserves Better!

CYLINDER SPECIFICATIONS



Dimensions

Water Capacity: 9 litre

Tare Weight: 13.7 kg (approximately)

Cylinder Height: 840 mm

Cylinder Diameter: 160 mm

EFSA "E" Numbers

Nitrogen: E941

Carbon Dioxide: E290

Carbon Dioxide

Gas Weight: 6 kg (filled by weight)

Gas Volume: 3.21 m³

Cylinder Outlet: 0.860" x 14 TPI RH Male

30/70

Gas Pressure: 200 bar @ 15°C

Gas Volume: 2.06 m³

Cylinder Outlet: 5/8" BSP RH Female

60/40

Gas Pressure: 180 bar @ 15°C

Gas Volume: 2.71 m³

Cylinder Outlet: 5/8" BSP RH Female

QUALITY AND CARE

We know that a “rogue” gas cylinder can prove dangerous and that a poor quality product will result in a poor quality pint. It is for these reasons that quality and safety are at the heart of everything we produce.



British Compressed Gases Association

The BCGA promote safety in the use, storage, transportation and handling of food grade gas. A condition of BCGA membership, is to comply with and uphold the standards and practices approved within BCGA publications. We are a member of the BCGA Trade Association as a manufacturer and supplier of cylinder gases and produce our products in accordance with BCGA best practice guidelines.



Brewing, Food & Beverage Industry Suppliers Association

Hobbybrew are an approved gas supplier and filler on the BFBI register. The Gas Suppliers Accreditation Scheme has been put in place to ensure that end users who buy beer dispense gas, know they're dealing with a reputable supplier. Each year we are independently inspected against best practice guidelines to ensure you are receiving high quality beer dispense gas that is fit for purpose.



ISO 9001: 2015 Quality Management Systems

Following an assessment by the Lloyds Register, we are pleased to share that we have been successful in achieving ISO 9001 certification. The award is applicable to the blending and supply of beverage gas cylinders. This internationally recognised award for quality management systems is the benchmark across the world.

KEEPING SAFE WITH HOBBYBREW

Dispense gas can be hazardous if stored or used in the wrong way. Gas released from faulty or leaking cylinders or equipment can create a hazardous atmosphere. In an enclosed space even a small increase in carbon dioxide (CO_2) levels can lead to impaired judgement, but larger leaks of carbon dioxide and/or nitrogen (N_2) may reduce the amount of oxygen available, which can be fatal. Always carry out a risk assessment to determine if where you store your gas cylinder is a confined space. Ensure safe systems are in place to protect yourself and others who might enter that space.



DO Store and use cylinders in a well ventilated area wherever possible.

DO Install gas detection in areas where gas cylinders are stored and used.

DO Prepare a plan of action if the alarm activates and ask yourself "what should I do if the alarm sounds?", post signs informing people what it means and the action to take.

DO Ventilate the space following a gas release.

**IN CASE OF
EMERGENCY**

999

OR 112

DO NOT Enter the area if the gas detection alarm is sounding.

DO NOT Enter the area to rescue someone who has collapsed. Call the emergency services.

DO NOT Tamper with the alarm(s).

KEEPING SAFE WITH HOBBYBREW

Ensure that all of your gas equipment is correctly installed and regularly check for leaks, especially after changing a cylinder. Know what gases you have and how to work with them safely. Understand the correct way to changeover a gas cylinder.



DO

Tell somebody that you're entering the location of a gas cylinder.

DO

Understand the correct cylinder changeover procedure.

DO

Leak test all connections with leak test solution when you change drinks dispense cylinders.

DO

Inspect connections for damage, undertake regular maintenance on all drink dispense systems and regularly change the 'O' ring seals where fitted.

DO NOT

Use damaged or faulty equipment. Replace with a new unit.

DO NOT

Try to repair a leaking cylinder.

DO NOT

Enter the area without telling another person.

'O' rings, gas detection equipment and maintenance services should be available from your local beer gas/drinks dispense system suppliers.

The BFBi trade directory is an excellent source for accredited companies who can offer these products and services; Visit bfb.org.uk

DANGERS OF ROGUE TRADERS

There is evidence that “rogue traders” are frequently stealing cylinders from approved suppliers and filling them with non-food grade gases. These cylinders may be “cheaper” than those provided by reputable suppliers, but these cylinders will not be correctly checked and tested and could explode if they’re heavily corroded inside.



DO Buy your drinks dispense gases from a reputable supplier.

DO NOT Buy drinks dispense cylinders that are incorrectly labelled.

DO Check cylinders to ensure they are correctly labelled.

DO NOT Buy cylinders with their identity markings ground off or missing.

DO Check that the cylinder is ‘in test’ as indicated by a complete coloured test date ring.

DO NOT Buy dispense gas in cylinders designed for other gases, e.g. fire extinguishers.

SAFE HANDLING OF CYLINDERS

Hobbybrew cylinders weigh around 20kg when full, so care should be taken when lifting and moving them to avoid risk of back injury. The ergonomic valve guard is designed for carrying the cylinder safely, but if you're moving the gas cylinder over a long distance it is recommended you use a cylinder trolley. Ensure that cylinders are upright and secured using restraints, straps or chains. Don't allow cylinders to be free-standing or try to "catch" a falling cylinder.



Protect your hands.

Protect your eyes.

Protect your feet.

TRANSPORTING CYLINDERS - SAFETY HAZARDS



Gas Can Leak In The Vehicle

- Leaks of gas in an enclosed vehicle are dangerous and can cause asphyxiation.
- Leaks can occur from cylinder valves leaking, or being knocked open.



Liquefied Gases Have Extra Hazards

- Liquefied gases (e.g. Carbon Dioxide) leaking from relief valves or toppled containers quickly evaporate creating a lot of gas.



Cylinders Can Be Heavy And Difficult To Handle

- Hobbybrew cylinders weigh around 20kg when full.
- During loading or unloading, injuries can occur from falling cylinders and from incorrect manual handling.
- Additional hazards from overloading the vehicle or unbalanced loading are poor handling and reduced vehicle braking.



Cylinders Can Move In The Vehicle

- Cylinders can cause injury and damage if they can move while the vehicle is cornering or braking.
- Any unrestrained cylinder is a hazard.
- Cylinders should be secured to prevent movement in your vehicle and not left to "roll around" in the boot, this could cause a valve to be knocked resulting in gas escaping the cylinder.



Gas Hazards

- Labels show the hazards from the gas and are the only way to positively identify the contents of a cylinder or container.

If you are transporting cylinders "at work" check how the Dangerous Goods Transport Regulations (ADR) apply to you. If you are transporting cylinders for domestic use only by a private individual the Dangerous Goods Transport Regulations (ADR) do not apply, however you have a "duty of care" to transport gases safely.

TRANSPORTING CYLINDERS - HOW TO STAY SAFE



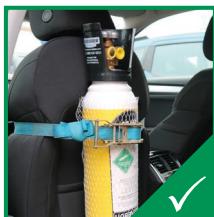
Prevent Gas Leaks

- When loading the vehicle ensure the valve is closed and there is no leak of gas.
- Do not rely on regulators or other equipment to shut off the gas - always use the cylinder valve.
- Ensure the valve protection guard is in place.



Provide Good Ventilation

- Use a well ventilated vehicle - ideally an open or flatbed truck, or a vehicle with an area sealed from the driver's compartment and vented to the outside. Never leave cylinders in an unventilated vehicle.
- If using a passenger car or van, turn on the fans and keep windows partly open to provide good ventilation.



Ensure All Cylinders Are Well Secured

- Ensure cylinders are evenly loaded and secured enough to prevent movement during cornering, acceleration and emergency braking.
- Ensure the vehicle is not overloaded.
- Cylinders should be secured in an upright vertical position where possible.



Loading And Unloading

- Use safety shoes, gloves and eye protection to help prevent injury.
- Unload the vehicle as soon as possible. Never store gases in an unventilated vehicle.
- Read the label to understand the hazards of the gases you are handling.



Emergency Actions For Leaking Gas

- Stop the vehicle as soon as possible, turn off the engine and get out.
- Leave your doors open as you exit the vehicle, to let the gas escape.
- Keep away from the vehicle & try to keep members of the public away.
- Leave the gas to safely vent into the atmosphere.
- If you suspect a leak in a parked vehicle, do not get in it.

For product specific information on transporting gases, see EIGA publication;

SL 01 - Dangers of Asphyxiation



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Visit our website;
www.hobbybrew.co.uk



DON'T SETTLE FOR LESS - YOUR BEER'S DESERVE THE BEST