

FAMILY OWNED · SINCE 1997



MINIBREW

STAINLESS STEEL WELDLESS BULKHEAD FITTINGS

NPT THREADS INSIDE AND OUT / LEFT-HANDED LOCKING NUT
DOUBLE RIBBED SEALING GASKETS

A weldless bulkhead fitting lets you put a port through the wall of a tank, vessel, or container without welding. Drill one hole, seat the fitting, tighten. No welder, no special tooling, and you can move or replace it later.

Materials

PART	MATERIAL
Body	SS304 — ASTM A351 CF8/CF8M
Cap	SS304 — ASTM A351 CF8/CF8M
Gasket	Buna-N or EPDM

VMQ and FKM gaskets available on request.

Specification

- A usable NPT thread on **each side** of the tank wall
- Thread ends conform to ANSI B1.20.1 (NPT)
- PN16 pressure rating
- Investment cast
- Left-handed locking nut, as standard
- Two raised sealing ribs per gasket

Sizes

SIZE	INTERNAL THREAD (NPT)	WEIGHT (OZ)	L (MM)	M (MM)	BODY HEX (MM)	CAP HEX (MM)
1/2"	1/2"	4.5	32	27	42	30
3/4"	3/4"	6.9	35	33	50	36
1"	1"	12	45	40	60	44
1" Heavy Duty	1"	13.1	Thicker shaft and heavier casting — dimensions on request			
1.5"	1.5"	19.2	48	55	80	60
2"	2"	26	52	68	93	75

Bulk and custom orders are manufactured to order.



The three most popular sizes, with the hole each one needs.

Left-handed threads, as standard

The locking nut uses a left-handed thread. Under internal pressure and vibration a conventional right-hand nut can gradually back off. A reversed thread resists that, so the seal that was right on install is still right months later.

It is a small detail. It is also why the fitting stays put in equipment that runs.

Drill sizes

1/2" NPT needs a 1-1/8" hole · 3/4" needs 1-3/8" · 1" needs 1-5/8"

NPT threads inside and out

Most bulkhead fittings give you one useful side. This one gives you two.

Once the fitting is secured you have a usable NPT thread on **both** sides of the tank wall.

Inside the tank — for anything that needs to sit in the contents. A threaded filter, so liquid is filtered before it leaves the tank.

Outside the tank — for the connection itself. Hex nipples, full-port ball valves, or a thermowell for a temperature probe. In brewing, this is the racking port and the dump port.

These are the working threads. The left-handed thread on the locking nut is separate — that is what holds the fitting in the wall.



Cap, body, and the two ribbed Buna-N sealing gaskets.

Choosing a gasket

Two ribbed sealing gaskets compress against the tank wall, one on each face.

Buna-N — food grade

For food and beverage service, and for oil, fuel and water.

EPDM — industrial

Strong chemical resistance across acids, alkalis and water-based solutions. The choice for chemical-duty environments.

Where it is used

- Original equipment manufacturing — built into tanks, cold plates and chambers
- Laboratory, cleanroom and scientific equipment
- Food and beverage production vessels

- Distilleries, wineries and breweries
- Gas, oil and fluid handling
- Aquaculture, ponds and water systems

Custom and bulk

Our largest customers are equipment manufacturers and labs who build the EZ Seal into products they sell, and reorder in volume. If you are designing a bulkhead into a tank, a cold plate, a chamber or a production vessel, we quote by quantity and cut custom configurations — including threaded cap plugs, round flanges and machined flat shafts.

Tell us the size, the wall material and thickness, the quantity, and what you are building.

MiniBrew was started in 1997, by a man named John, as a way of passing time after his wife died of cancer.

Someone asked him along to a local home brewing event. He had a good time and met some new people. Then the expensive equipment he bought leaked, and he thought he could build something better. He did — MiniBrew made the world's first HDPE conical fermenter.

The bulkhead came later, and for a practical reason. John wanted the fittings on his own tanks to be stainless instead of plastic, and to do that he needed a bulkhead fitting. That became the first EZ Seal.

The current owner joined in 2018, just as the first production run arrived. John was 84. What he said was: don't forget about the bulkheads. He could already see demand for them in industries that had nothing to do with brewing.

He was right. The EZ Seal is now sold worldwide to equipment manufacturers, labs, distilleries and industrial suppliers who design it into their own products.

We still make our own gear rather than reselling someone else's.

Our HDPE tanks are molded in Southern California. Our stainless carries a lifetime guarantee. And if the fitting is not right for what you are building, we would rather tell you than sell it to you.

Call or Contact

For pricing or custom engineered orders

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