

# BIO BARB® ADAPTER

## TRUE BORE MONO BARB SANITARY FITTING

### Features and Benefits

**True bore design** through entire adapter. Provides consistent flow between tube and adapter.

**Reduced flow turbulence** due to smooth transition from tubing to adapter.

Oversized mono barb allows tubing to grab onto barb. **Ties may not be required.**

**Reduced entrapment** due to the extremely tight fit of tubing over the mono barb.

Slight raise at the port on the TC face **ensuring proper capture of gasket.**

Adapters are permanently identified with lot # and size. **Ensures tracability**, aids in validating.

Produced from a Polypropylene resin that **complies with FDA and USP Class VI** requirements. DMF listed polypropylene.

**Sterilizable** by irradiation and autoclave.

To be used with tubing 65 durometer or softer.

Recommended that the **Bio Barb® Adapter** be used in conjunction with the **Bio Clamp®**. (see below)



**True bore design** allows for full flow and no restriction of product transfer. Where flow needs to be calculated, there are no corrections that need to be made. The true bore design through the entire **Bio Barb® Adapter** does not promote a venturi in the cavity at the Tri-Clamp® where other adapters may. Eliminating turbulence caused by the adapter reduces possible damage to the medium being transferred.

**Reduced entrapment** at the tube to barb connection ensures a purer, cleaner transfer of product. Because the monobarb on the **Bio Barb® Adapter** is oversized due to the true bore design, the tube/barb interface is a tight fit, thus reducing the risk of entrapment between barbs found on many other styles of adapters. It may also be possible to eliminate the use of ties.

The Tri Clamp® on the **Bio Barb® Adapter** has been designed with a slight (in the 1/1000"s) rise at the port. This ensures that there is proper capture of the gasket. A properly engaged gasket aids in the reduction of entrapment, turbulence and leaks.

The **Bio Barb® Adapter** has one other feature that will assist you greatly in the validation of the system where it is used, permanently molded in lot # and size identification. **Traceability** of the material the **Bio Barb® Adapter** is manufactured from will complete your validation package, ensuring full compliance. The molded on size will reduce the uncertainties of not knowing whether the proper adapter and tubing are being used together correctly.

The material the **Bio Barb® Adapter** is manufactured from meets USP Class VI requirements and FDA regulations. Material also has a listed DMF (Drug Master File)

### Uses for the **Bio Barb® Adapter** include:

Bioprocess containers

Bioreactors

Fermentors

Flexible packaging systems

Filling machines

Filtration and purification systems

Mixing containers and vessels

Sampling ports

### **Bio Clamp®**

Light weight and easily manipulated.

Will not distort non-metallic ferrules as may stainless steel clamps during temperature changes.

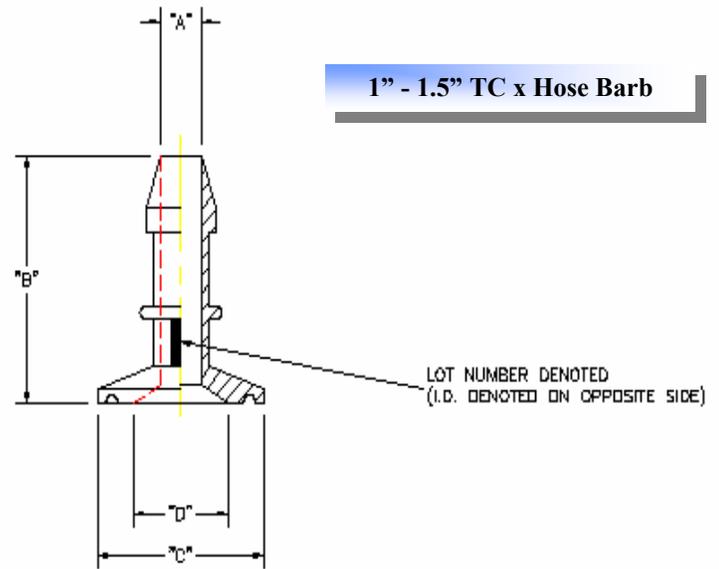
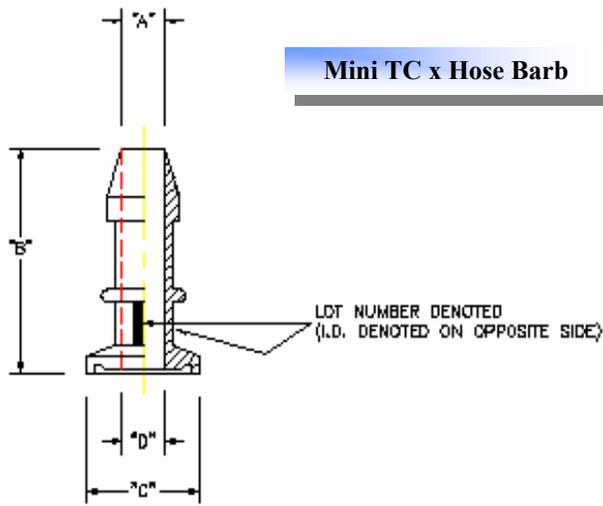
Accepts ferrules according to BS 4825, ISO 2852 and Tri-Clover® standards.

Sterilizable by steam and irradiation.

Maximum pressure rating; 150 psi @ 70° F.

Available for 3/4" ferrules (P/N: NG075WH) and 1 1/2" ferrules.(P/N: NG150WH).





Part Number	Size TC x HB	Tubing ID (in)	Max Working Pres. (psi)	Dim "A" (in)	Dim "B" (in)	Dim "C" (in)	Dim "D" (in)
PPMINITC0125BB	Mini x 1/8"	1/8"	150	.187"	1.698"	.985"	.187"
PPMINITC0250BB	Mini x 1/4"	1/4"	150	.250"	1.661"	.985"	.250"
PPMINITC0375BB	Mini x 3/8"	3/8"	150	.375"	1.880"	.985"	.375"
PPMINITC0500BB	Mini x 1/2"	1/2"	150	.500"	1.847"	.985"	.500"
PPMINITC0625BB	Mini x 5/8"	5/8"	150	.625"		.985"	.625"
PP100/150TC0125BB	1" / 1 1/2" x 1/8"	1/8"	150	.187"	1.843"	1.989"	.187"
PP100/150TC0250BB	1" / 1 1/2" x 1/4"	1/4"	150	.250"	1.806"	1.989"	.250"
PP100/150TC0375BB	1" / 1 1/2" x 3/8"	3/8"	150	.375"	2.026"	1.989"	.375"
PP100/150TC0500BB	1" / 1 1/2" x 1/2"	1/2"	150	.500"	1.992"	1.989"	.500"
PP100/150TC0625BB	1" / 1 1/2" x 5/8"	5/8"	150	.625"	2.147"	1.989"	.625"
PP100/150TC0750BB	1" / 1 1/2" x 3/4"	3/4"	150	.750"	2.147"	1.989"	.750"
PP100/150TC0875BB	1" / 1 1/2" x 7/8"	7/8"	150	.875"	2.147"	1.989"	.875"
PP100/150TC1000BB	1" / 1 1/2" x 1"	1"	150	1.000"	2.147"	1.989"	1.000"

### Bio Barb® Adapter resin physical properties

#### Polypropylene

Tensile Strength psi (MPa)	Flexural Modulus psi (MPa)	Hardness (Shore D)	Heat Deflection °F (°C) @ 261 psi	Water Absorption (%)	Maximum Recommended Working Temperature °F (°C)
ASTM D638-91	ASTM D790-92	ASTM D2240-91	ASTM D648-82	ASTM D570-81	
3626 (25)	130534 (900)	Shore D 65	122 (50)	.02	200 (93)

The **Bio Barb® Adapter** is produced from material meeting the following:

- 21 CFR 177.1520 (a) (b) (3) (I) and (c).
- 21 CFR 177.170 (c) Table 1 and Table 2.
- USP Class VI
- European Pharmacopeia 3.1.3 - 3<sup>rd</sup> Ed.
- Drug Master File (DMF) listed

It is the end-users responsibility to ensure that the above mentioned products are compatible with the intended application and that the products are in compliance with all applicable regulatory requirements for use. User assumes all risk of usage.

**Bio Barb® Adapter** and **Bio Clamp®**, Registered Trade Marks of Bio Pure Technology Ltd.

Pressure ratings shall be determined by end-user in accordance with their specific application and tubing being used.



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