

BUBBLE TRAP



When it counts,
count on Unibloc®.

- Available in multiple sizes and port configurations for maximum customization
- Designed for easy assembly, and disassembly and easy operation
- Bottom angle/slope specifically designed to deliver the best drainability on the market
- Unmatched quality control and traceability with comprehensive documentation
- Ideal for the chromatography, pharmaceutical and biotech industries



ELIMINATE BUBBLES FROM YOUR SANITARY HYDRAULIC SYSTEM

WHAT IS A BUBBLE TRAP?

Air bubbles in the flowing fluids can cause significant problems for applications because the bubbles unexpectedly change the intrinsic physical properties of the microfluidic environment. This can abruptly increase the internal pressure in a fluidic/microfluidic system and cause sudden shear force variations, compromising the system or even blocking small channels.

A bubble trap removes these air bubbles from aqueous solutions inline or downstream in a fluidic system. Hygenitec bubble traps are critical for safe performance in any sanitary hydraulic system.

THE HYGENITEC SOLUTION

Hygenitec bubble trap design offers a number of benefits. Manufactured from electropolished 316L stainless steel or Hastelloy, Hygenitec bubble traps are available in multiple sizes and port configurations for maximum customization, providing the choices needed for any application. Hygenitec bubble traps come with comprehensive documentation, including material test reports and surface finish certification, providing assurances of rigorous quality control and traceability.

**Double-nut
tensioning**
for easy
assembly/
disassembly

O-ring elastomers
are USP Class VI in
EPDM, Kelrez, Markez,
silicone or Viton



EASY MAINTENANCE



Electropolished
316L stainless steel

Self Draining
with smooth
angle into
discharge port

BEST DRAINABILITY ON THE MARKET

Hygenitec bubble traps are designed with the greatest bottom angle/slope to provide the best drainability in the chromatography, pharmaceutical and biotech industries.

ULTRA-CLEAN DESIGN AND EASY INSTALLATION

The simple and ultra-clean design of the Hygenitec bubble trap provides easy installation and maintenance. The design of the trap consists of a glass tube compressed between flanges. The double nut tensioning arrangement allows for easy assembly/disassembly and the tie rods can be used for side mounted leveling sensors. A wide array of sizes and port configurations allows for maximum customization for specific applications. Sanitary Tri-Clamp port connections, electropolished stainless surface finish, USP Class VI elastomers and the most comprehensive documentation package (including material test reports and surface finish certification) available will ensure that the Hygenitec bubble trap will meet today's pharmaceutical needs.

MATERIALS

- All wetted surfaces are electropolished
- 316L stainless steel. Wetted "glass" material is Borosilicate or Acrylic.
- O-ring elastomers are USP Class VI in EPDM, Silicone, Kelrez, Markez or Viton.

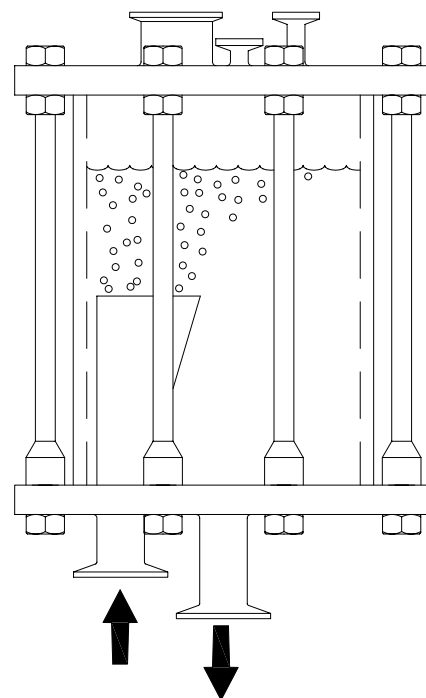
OPTIONS

- Mechanical polish of 15-25 Ra (0.4 - 0.6 micron) with electropolish ID Finish
- Hastelloy-C wetted metal material
- Acrylic "glass" available for high pressure applications
- Acrylic guard over wetted glass" cylinder material for extra protection
- Novaseptic Connectors

HYGENITEC BUBBLE TRAPS

SIZE	RECOMMENDED FILL VOLUME (L)	MAX. PRESS., psig (bar) ¹	
		BOROSILICATE GLASS TUBE	ACRYLIC TUBE
53B-3	0.4	150 (10.3)	415 (28.6)
53B-3L	0.7		
53B-3XL	1.1		
53B-4	0.7	145 (10.0)	355 (23.1)
53B-4L	1.3		
53B-4XL	2.0		
53B-4XXL	2.5		
53B-6	2.8	100 (6.9)	235 (16.2)
53B-6L	4.4		
53B-6XL	5.8		
53B-6XXL	6.5		
53B-10	16.0	90 (6.2)	235 (16.2)
53B-10L	22.8		
53B-10XL	34.2		
53B-15	51.3	75 (5.2)	150 (10.3)
53B-15L	77.0		

¹At 20°C



Standard configuration shown.
Standard 316L, 20 Ra and electropolished. Other
finishes and port configurations are available.

HYGENITEC BUBBLE TRAPS

SIZE	INLET / OUTLET PORT SIZES						TOP PORT SIZES					
	1/4"	1/2"	3/4"	1"	1.5"	2"	1/4"	1/2"	3/4"	1"	1.5"	2"
53B-3, 3L, 3XL	X	X					X	X	X			
53B-4, 4L, 4XL, 4XXL		X	X				X	X	X	X	X	
53B-6, 6L, 6XL, 6XXL			X	X	X	X	X	X	X	X	X	X
53B-10, 10L, 10XL			X	X	X	X	X	X	X	X	X	X
53B-15, 15L				X	X	X	X	X	X	X	X	X

Unibloc Hygienic Technologies provides a broad portfolio of powerful solutions for companies around the world.