

Series 2000™ Sanitary Small Area Cartridge Housings

■ Accommodates Millipore clarification filters for pilot-scale volumes

Certificate of Quality for this product provided in every box. See inside for details.



Series 2000 housings are designed to handle the most critical clarification and sterile filtration applications for pharmaceutical, biotechnology, food and beverage, and industrial processing applications. Typical applications include the sterile filtration of aqueous and solvent-based solutions, sterile tank venting, and sterile gas filtration.

Wide Range of Standard Products Available

The Series 2000 line of sanitary 316L stainless steel housings features T-line and in-line versions. Both come standard with sanitary vents and drains. In addition to the Milligard version, the small volume Series 2000 line offers Optiseal™ and Millidisk™ housings. For higher-volume applications, a wide range of single- and multi-tube housings is available in both standard and ASME code-stamped versions.

Sanitary Design Features

All fluid surfaces are 316L stainless steel electropolished to a high-quality, sanitary finish of < 20 Ra. The entire housing is passivated to enhance corrosion resistance. All process connections are sanitary TC-type, and all sealing materials are Title 21 CFR-compliant to meet FDA requirements for food and beverage processing. Vent and drain valve assemblies are designed without exposed NPT threads and feature EPDM insulation for both safety and ease of use.

Certification to Quality Standards

Each housing is tested to ensure that it meets specifications for quality standards. To demonstrate Millipore's commitment to quality, each Series 2000 housing includes a Certificate of Quality certifying that the housing conforms to specifications for materials, surface finish, pressure rating and dimensions. Each certificate is lot and catalogue-number specific.

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Specifications

Materials of Construction

<i>Housing</i>	316L stainless steel
<i>Clamp</i>	304 stainless steel
<i>Seal Materials</i>	Silicone O-rings; Vent sealing tip made of Teflon®
<i>Vent Insulators</i>	EPDM

Maximum Operating Conditions

<i>Housing</i>	150 psig (10.5 kg/cm ²) at 300 °F (149 °C)
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Surface Finish

<i>Wetted Surfaces</i>	Electropolished < 20 Ra. All welds are ground smooth.
<i>Exterior Surfaces</i>	Electropolished to a sanitary finish. The entire housing is passivated for maximum corrosion resistance.

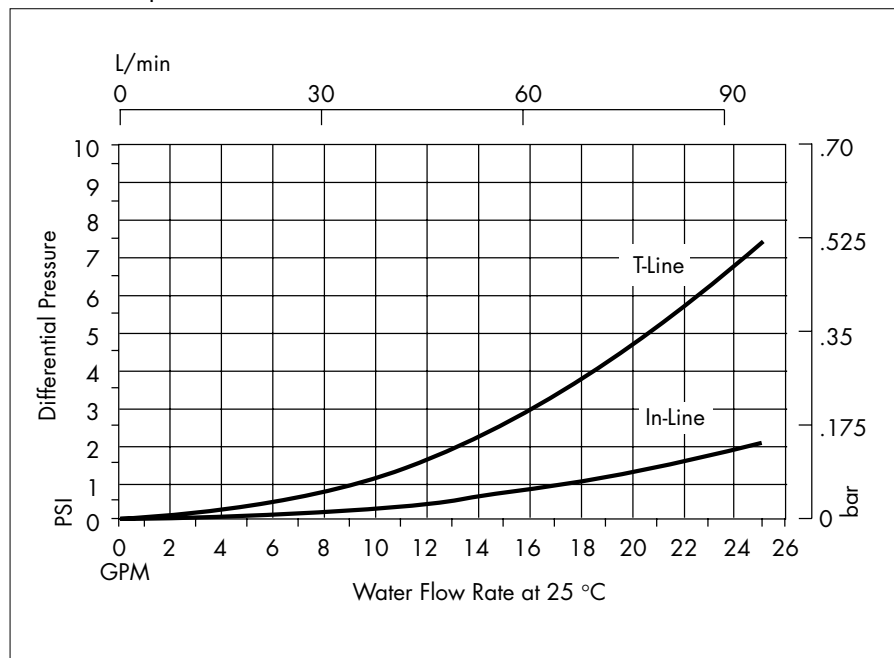
Connections

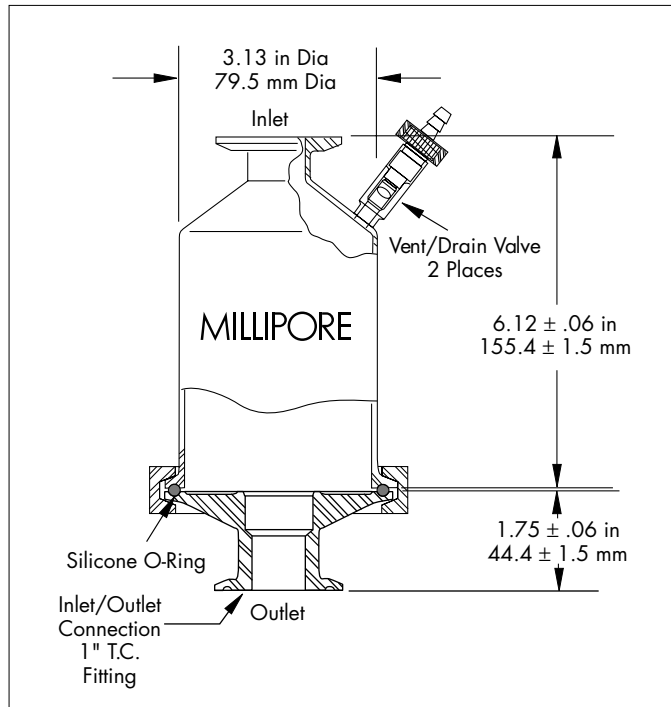
<i>Inlet/Outlet</i>	1" TC sanitary flange
<i>Gauge Port</i>	1" TC sanitary flange
<i>Cartridge</i>	Code M (2-118 double O-ring)
<i>Dome to Base</i>	3" sanitary O-ring (2-337)

Sterilization Recommendations

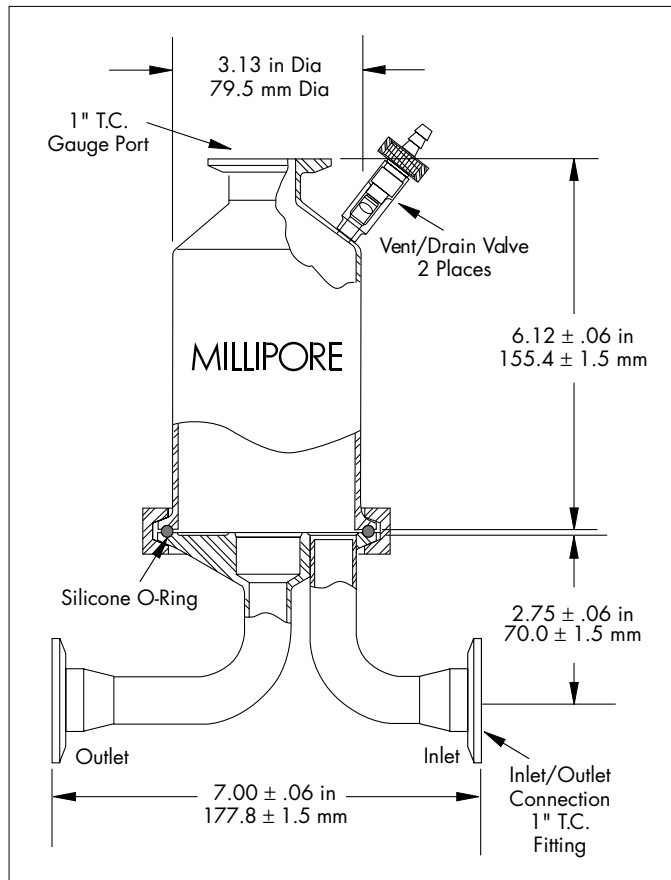
Series 2000 Housings may be in-line steam sterilized, autoclaved, or hot water sanitized. To ensure sterility, Series 2000 small area cartridge housings are qualified for an autoclave cycle of 126 °C for 30 minutes.

Pressure Drop vs. Water Flow Rate @ 25 °C





Small Area Housing



Small Area Housing

Ordering Information

Description	Catalogue No.	
Housings		
Small area T-line	HOGM MUS TC	
Small area In-line	HOGM MUS AC	
Accessories		
3" TC clamp	P30799	
1 1/2" TC clamp	YY20 040 45	
Vent/Drain valve assembly	17402	
Sanitary pressure gauge 0 – 7 bar (0 – 100 psi)	YY18 010 20	
O-rings (size 2-337)		
Silicone	10/pk	17390X4
Viton®	2/pk	17390X1
EPDM	10/pk	17390X2
Viton encapsulated with Teflon	2/pk	17390X3
1 1/2" TC gaskets		
Silicone	10/pk	HGTC 150 SP
Viton	10/pk	HGTC 150 VP
EPDM	10/pk	HGTC 150 EP
Teflon	10/pk	HGTC 150 TO
Vent/Drain valve seal kits		
Silicone	10/pk	17403X1
Viton	10/pk	17403X2
EPDM	10/pk	17403X3
Vent tips		
Teflon	10/pk	H4VV T10 00

To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office.

In the U.S. and Canada, call toll-free **1-800-MILLIPORE (1-800-645-5476)**

In the U.S., Canada and Puerto Rico, fax orders to **1-800-MILLIFX (1-800-645-5439)**

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E-mail: tech_service@millipore.com

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