

# Millex<sup>®</sup> Filter Units with MF-Millipore<sup>™</sup> Membrane

■ For reliable sterilization of small volumes



*The latest generation of Millex filters sets a new standard for small volume filtration, with greater performance, convenience, and quality than ever before.*

Millex-MF filters can be used in the research laboratory to sterile filter protein solutions, tissue culture media, additives, buffers, or water. Outside of the U.S. and Japan, Millex-MF filters can also be used for direct patient care and pharmacy admixture applications (see "Medical Applications").

### 33 mm for Faster Flow Rate

New Millex filters are 33 mm in diameter and have almost 20% more filter surface area than our 25 mm filters. The larger filter surface area increases flow rate and throughput. It also makes it easier to filter solutions because it reduces the pressure required to empty the syringe.

### Higher Operating Pressure

New Millex filters have a maximum housing pressure of 150 psig (10 bar), which means you can filter solutions faster than before.

### Color-Coded

Millex filters are available with three different membrane polymers, each with different performance characteristics. The color-coded band on the Millex housing clearly indicates which membrane is inside. Millex filters with MF-Millipore membrane have a blue band.

### Manufactured for Reliable Performance

Millex filters are manufactured in a controlled environment using an automated process. Human hands never touch the filter during assembly. A Certificate of Quality included in each box describes Millipore's quality standards in detail.

### Medical Applications

New 33 mm Millex filters are CE 0459-marked for medical use outside the U.S. and Japan. Hospital pharmacy applications include filtering small volumes of protein pharmaceuticals, diagnostic imaging agents, chemotherapeutics, aqueous solutions, or water during admixture preparation.

Direct patient care applications include sterilization and particulate removal from epidural and other liquid anesthetics, as well as from irrigation solutions used in ophthalmic, otic and other surgical procedures.

Within the U.S. and Japan, contact Millipore for information about medical products listed with the appropriate regulatory authorities.

### Validation Guide Available

Contact the nearest Millipore office listed on the back cover for more information. Or visit [www.millipore.com/millex](http://www.millipore.com/millex).

MILLIPORE

## Specifications

### Dimensions

Length (inlet to outlet): 26 mm (1.02 in)  
Diameter: 33 mm (1.30 in)

### Connections

Inlet: Female Luer-Lok™

Outlet: Male Luer slip

### Materials

Top, Base, and Outer Ring:

Modified Acrylic (with colorant in outer ring)

Membrane: Hydrophilic, mixed cellulose esters (MCE)

Filtration Area:

4.52 cm<sup>2</sup> (0.70 in<sup>2</sup>)

Maximum Housing Pressure

(at 25 °C): 150 psig (10.5 bar)

Filtration Volume: 10 to 200 mL

Hold-up Volume: < 0.1 mL after air purge

### Sterilization Method

Ethylene oxide

### Toxicity

All component parts meet USP Class VI Biological tests for plastics.

## Ordering Information

Description	Qty/Pk	Catalogue No.
33 mm Millex Filter Units with MF-Millipore Membrane		
Type-GS, 0.22 µm	50	SLGS 033 SS
	250	SLGS 033 SB
Type-HA, 0.45 µm	50	SLHA 033 SS
	250	SLHA 033 SB
Type-AA, 0.8 µm	50	SLAA 033 SS
	250	SLAA 033 SB

Millex filter units are also available with low-protein binding/fast flow Millipore Express™ membrane and ultra-low protein binding Durapore® membrane. The filters are part of a family of vacuum- and pressure-driven devices. Contact Millipore for more information, or visit [www.millipore.com/sterile](http://www.millipore.com/sterile).

## 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)**

Internet: [www.millipore.com](http://www.millipore.com)

Tech Service:

[www.millipore.com/techservice](http://www.millipore.com/techservice)

**pure e-commerce**

Now you can buy Millipore products online @ [www.millipore.com/pureecommerce](http://www.millipore.com/pureecommerce)

Millipore, Durapore, MF-Millipore, Millex, and Millipore Express are trademarks of Millipore Corporation.

Luer-Lok is a trademark of Becton Dickinson and Company.

Lit. No. PF1213EN00 Rev. - 05/02 02-103  
Printed in U.S.A.

Copyright 2002 Millipore Corporation, Bedford, MA 01730 U.S.A. All rights reserved.

## Millipore Worldwide

### AUSTRALIA

Tel. 1 800 222 111  
or (02) 9888 8999  
Fax (02) 9878 0788

### AUSTRIA

Tel. (01) 877 89 26  
Fax (01) 877 16 54

### BALTIC COUNTRIES

Tel. +358 9 804 5110  
Fax +358 9 256 5660

### BELGIUM AND LUXEMBOURG

Tel. +32 2 726 88 40  
Fax +32 2 726 98 84

### BRAZIL

Tel. (011) 5548-7011  
Fax (011) 5548-7923

### CANADA

Tel. 1-800-645-5476  
Fax 1-800-645-5439

### CHINA, PEOPLE'S REPUBLIC OF

Beijing:  
Tel. (8610) 8519 1250  
(8610) 6518 1058

Guangzhou:  
Tel. (8620) 8755 4049  
Fax (8620) 8752 0172

### Hong Kong:

Tel. (852) 2803 9111  
Fax (852) 2513 0313

### Shanghai:

Tel. (8621) 5306 9100  
Fax (8621) 5306 0838

### CZECH REPUBLIC

Tel. 02-2051 3841  
Fax 02-2051 4298

### DENMARK

Tel. 70 10 00 23  
Fax 70 10 13 14

### EASTERN EUROPE, C.I.S., AFRICA, MIDDLE EAST AND GULF

Life Sciences Division:  
Tel. +33 3 88 38 9536  
Fax +33 3 88 38 9539  
BioPharmaceutical Division:  
Tel. +43 1 877-8926  
Fax +43 1 877-1654  
Laboratory Water Division:  
Tel. +33 1 30 12 7000  
Fax +33 1 30 12 7180

### FINLAND

Tel. (09) 804 5110  
Fax (09) 256 5660

### FRANCE

Tel. 01 30 12 7000  
Fax 01 30 12 7180

### GERMANY

Tel. (06196) 494-0  
Fax (06196) 43901

### HUNGARY

Tel. 01 381 0433  
01 381 0434  
01 209 3232  
Fax 01 209 0295

### INDIA

Tel. (91) 80-839 46 57  
Fax (91) 80-839 63 45

### IRELAND

Life Sciences and Laboratory Water Divisions:  
Tel. +44 1923 816375  
Fax +44 1923 818297  
BioPharmaceutical Division:  
Tel. (021) 883 666  
Fax (021) 883 048

### ITALY

Vimodrone (Milano):  
Tel. (02) 25.07.81  
Fax (02) 26.50.324  
Roma:  
Tel. (06) 52.03.600  
Fax (06) 52.95.735

### JAPAN

Tel. (03) 5442-9711  
Fax (03) 5442-9736  
Life Sciences  
9737 BioPharm.  
9734 Lab Water

### KOREA

Tel. (822) 551-0230  
Fax (822) 551-0228

### MALAYSIA

Tel. 03-7957-1322  
Fax 03-7957-1711

### MEXICO

Tel. (525) 576-9688  
Fax (525) 576-8706

### THE NETHERLANDS

Tel. 076-5022000  
Fax 076-5022436

### NORWAY

Tel. 22 67 82 53  
Fax 22 66 04 60

### POLAND

Tel. 22-669 12 25  
22-663 70 31  
Fax 22-663 70 33

### PUERTO RICO

Tel. (787) 273-8495  
Fax (787) 747-6553

### SINGAPORE

Tel. 6842-1822  
Fax 6842-4988

### SPAIN AND PORTUGAL

Tel. +34 917 283 960  
Fax +34 917 292 909

### SWEDEN

Tel. 08-628 6960  
Fax 08-628 6457

### SWITZERLAND

Tel. (01) 908-30-60  
Fax (01) 908-30-80

### TAIWAN

Tel. 886-2-2792-9333  
Fax 886-2-2792-6555

### U.K.

Tel. 01923 816375  
Fax 01923 818297

### U.S.A.

Tel. (781) 533-6000  
Fax (781) 533-3110

### IN ALL OTHER COUNTRIES

Millipore Intertech (U.S.A.)  
Tel. +1 (781) 533-8622  
Fax +1 (781) 533-8630

**MILLIPORE**