

# 33 mm Medical Millex® Filter Units

## With Millipore Express™ membrane

- ▶ Millipore Express membrane provides low protein binding with fast flow
- ▶ 33 mm housing has almost 20% more surface area than 25 mm filters
- ▶ Listed medical device

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

Medical Millex-GP filters remove microorganisms, particles, precipitates, and undissolved powders larger than 0.22 µm from aqueous solutions.

### Medical Device

Medical Millex-GP filters are listed medical devices in the U.S. and CE 0459-marked in Europe.

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.

### 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 by reducing the pressure required to empty the syringe.

### Higher Operating Pressure

New Millex filters have a maximum housing pressure of 150 psig (10.5 bar), which means that 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 Millipore Express membrane have a green band.

### Low Protein Binding

Millipore Express membrane provides a unique combination of speed and low protein binding. It binds six times less protein than competitive polyether-sulfone (PES) membranes, which minimizes the loss of antibiotics, preservatives, and other key proteins. (For lowest protein binding, use Medical Millex filter units with Durapore® membrane.)

### Validation Guide Available

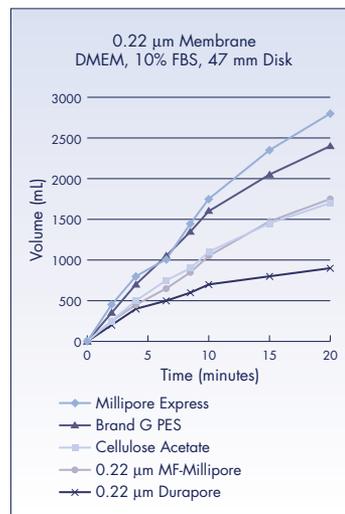
Contact the nearest Millipore office for more information. Or visit [www.millipore.com/millex](http://www.millipore.com/millex).

## Cautions

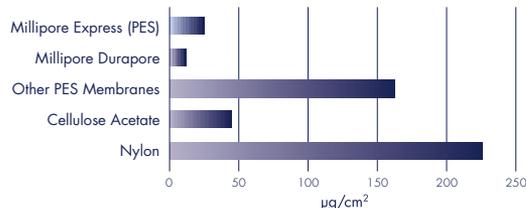
Federal (U.S.) law restricts this device to sale by, or on the order of, a physician or pharmacist. For complete restrictions, and chemical compatibility information, contact the nearest Millipore office or view document P36441A using the "Search" function on the Millipore web site.

## Performance of Millipore Express Membrane

### Fast Flow



### Low protein binding



## 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, 0.22 µm, polyethersulfone (PES)

**Filtration area** 4.52 cm<sup>2</sup> (0.70 in<sup>2</sup>)

**Maximum housing pressure (at 25 °C)** 150 psig (10 bar)

**Filtration volume** 10 to 200 mL

**Hold-up volume** ≤ 0.1 mL after air purge

**Sterilization method** Gamma irradiation

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