



# MASTERFLEX<sup>®</sup>

## SOLVE-FLEX<sup>™</sup> PUMP TUBING

### THE FLEXIBLE FLUOROPOLYMER-LINED PUMP TUBING SOLUTION FOR SOLVENTS AND OTHER HARSH CHEMICALS

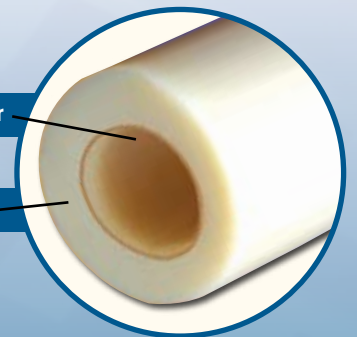
**New**

- Smooth-bore fluoropolymer liner is plasticizer-free, hydrophobic, and resists the absorption/adsorption of aqueous fluids
- Fluoropolymer liner for low spallation and assured purity of fluid
- Flexible outer jacket extends the pumping life of the tubing
- One formulation for all chemicals—reduces the number of tubings you keep on hand
- Available in long continuous lengths, allowing for an unobstructed fluid path
- Meets FDA 21 CFR 177.2600 regulations (Solve-Flex Bio also meets USP Class VI requirements)
- Ideal for use in Masterflex<sup>®</sup> L/S<sup>®</sup> Easy-Load<sup>®</sup> and Easy-Load II pump heads



Plasticizer-free fluoropolymer inner layer

Thermoplastic-elastomer outer layer



**Cole-Parmer<sup>®</sup>**  
Delivering Solutions You Trust

## In the U.S.

625 E. Bunker Court  
Vernon Hills, IL 60061  
Call toll-free 800-323-4340  
Phone: 847-549-7600  
Fax: 847-247-2929  
[www.coleparmer.com](http://www.coleparmer.com)

## In Canada

Call toll-free 800-363-5900  
Phone: 514-355-6100  
Fax: 514-355-7119  
[www.coleparmer.ca](http://www.coleparmer.ca)

## In India

Phone: 91-22-6716-2222  
Fax: 91-22-6716-2211  
[www.coleparmer.in](http://www.coleparmer.in)

## In the United Kingdom

Free phone: 0500-345-300  
Phone: 020-8574-7556  
Fax: 020-8574-7543  
[www.coleparmer.co.uk](http://www.coleparmer.co.uk)

## International customers

Call 847-549-7600 to reach our  
International Sales Department  
or contact your local dealer.



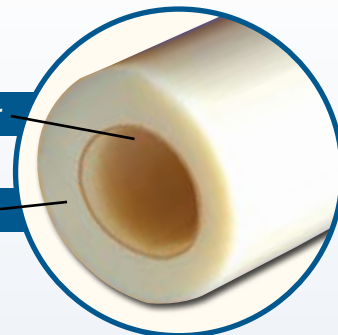
**FREE TECHNICAL  
APPLICATIONS ASSISTANCE!**

Solve-Flex is a Masterflex Exclusive tubing formulation with outstanding chemical resistance. This tubing is an excellent choice for hard-to-match peristaltic pumping applications, especially when pumping solvents. Solve-Flex has one of the lowest levels of gas permeability of any Masterflex tubing formulation.

Solve-Flex Bio combines an inert high-purity fluoropolymer liner with a pharmaceutical-grade jacket. Choose Solve-Flex Bio for any critical biopharmaceutical application where tubing that meets USP Class VI and FDA requirements is a necessity.

Plasticizer-free fluoropolymer inner layer

Thermoplastic-elastomer outer layer



## SPECIFICATIONS

**Outer jacket:** thermoplastic elastomer

**Liner:** plasticizer-free fluoropolymer

**Jacket durometer:** 65(A)

**Liner durometer:** 58(D)

**Temperature range:** -60 to 270°F (-51 to 132°C)

**Max operating pressure:** 20 psi for sizes 16/24;  
10 psi for size 17

**Sterilize:** autoclave or SIP (steam-in-place)



## APPLICATIONS

- Transfer of corrosive fluids
- Organic solvent lines (ammonia, THF, chloroform, etc.)
- Ink and solvent production
- Diagnostic testing
- Specialty chemical production/processing
- Ink and toner feed lines

## BETTER CHEMICAL COMPATIBILITY THAN ANY OTHER FLEXIBLE TUBING FORMULATION

| Chemical                   | Solve-Flex and Solve-Flex Bio tubing | CHEM-SURE® tubing | Viton® tubing   |
|----------------------------|--------------------------------------|-------------------|-----------------|
| Amines                     | Excellent                            | Not recommended   | Not recommended |
| Hydrofluoric acid, 75%     | Excellent                            | Not recommended   | Not recommended |
| MEK                        | Excellent                            | Good              | Not recommended |
| Potassium hydroxide (conc) | Excellent                            | Good              | Not recommended |
| Sulfurous acid             | Excellent                            | No data           | Good            |
| Tetrahydrofuran (THF)      | Excellent                            | Not recommended   | Not recommended |

## ORDERING INFORMATION

| Pump Tubing Formulation  | L/S® Pump Head Compatibility |               | L/S 16                                 | L/S 17                                 | L/S 24                                 |
|--|------------------------------|---------------|--|--|--|
|  | Easy-Load®                   | Easy-Load® II |  |  |  |
| <b>Solve-Flex</b><br>     | ✓                            | ✓             | <b>MK-96431-16</b><br>10 ft (3.0 m)/pk | <b>MK-96431-17</b><br>10 ft (3.0 m)/pk | <b>MK-96431-24</b><br>10 ft (3.0 m)/pk |
| <b>Solve-Flex Bio</b><br> | ✓                            | ✓             | <b>MK-96438-16</b><br>10 ft (3.0 m)/pk | <b>MK-96438-17</b><br>10 ft (3.0 m)/pk | <b>MK-96438-24</b><br>10 ft (3.0 m)/pk |