



SMOOTH-BOR PLASTICS

SMOOTH INTERIOR

MEDICAL TUBING

# DISPOSABLE STYLES 103/105

- Smooth-Bor® Styles 103/105 are manufactured from a high performance EVA copolymer selected for its superior clarity and flex life.
- Inside diameters range from 10mm (.394) to 51mm (2.000).
- Integral end fittings, patented by Smooth-Bor®, are available for Styles 103/105 and provide a clean tube termination. The tube and end fittings share the same inside diameter.
- The smooth interior promotes laminar flow.
- Smooth-Bor® tubing is clear and has no odor.
- Smooth-Bor® tubing is light weight yet strong.
- Smooth-Bor® tubing has very low compliance.



- The tubing is available in cut lengths from 4"/100mm to 120"/3000mm depending on the diameter.
- These inexpensive styles create a truly disposable tube without sacrificing quality.
- Smooth-Bor® tubing is designed so that even a very sharp bend will not close off flow.
- The maximum working temperature is 130° F (55° C).
- Smooth-Bor® Styles 103/105 can be sterilized by radiation or ethylene oxide (E.O.).
- The smooth bore is excellent for noiseless smoke evacuation.
- Smooth-Bor® Styles 103/105 comply with FDA regulation 21 CFR 177.1350 subject to the extraction conditions.

**Smooth-Bor® Style 103** is designed to fit a 22mm male fitting on both ends. Overall length includes the integral end fittings. Indicate Style 103-(length).

**Example:**

**Style 103 - 48"**

**1** indicates style    **2** overall length of 4" to 120"

This specifies a Smooth-Bor® tube Style 103 with an overall length of 48 inches.

**Smooth-Bor® Style 105** identifies an inside diameter other than 22mm. Indicate Style 105-(inside diameter)-(length). Both ends must be same inside diameter.

**Example:**

**Style 105 - 10mm - 750mm**

**1** indicates style    **2** inside diameter    **3** overall length

This specifies a Smooth-Bor® tube Style 105 with an inside diameter of 10mm and an overall length of 750mm, designed to fit 10mm male fittings.

Different end fitting lengths are available.

# REUSEABLE STYLES 303/305

- Smooth-Bor® Styles 303/305 are manufactured from a polyester elastomer selected for its clarity, light weight, temperature range, and strength.
- Inside diameters range from 10mm (.394) to 38mm (1.500).
- Integral end fittings, patented by Smooth-Bor®, are available for Styles 303/305 and provide a clean tube termination. The tube and end fittings share the same inside diameter.
- The smooth interior promotes laminar flow.
- Smooth-Bor® Styles 303/305 are clear with cream colored helix and integral fittings.
- Smooth-Bor® Styles 303/305 are much lighter than silicone rubber tubing yet are extremely strong.
- Smooth-Bor® tubing has very low compliance.



- The tubing is available in cut lengths from 4"/100mm to 120"/3000mm depending on diameter.
- Smooth-Bor® tubing is designed so that even a very sharp bend will not close off flow.
- The smooth interior allows for easy cleaning.
- Smooth-Bor® Styles 303/305 can be autoclaved in steam at 270° F (132° C) or pasteurized at 170° F (75° C). The tubing can also be sterilized by radiation or ethylene oxide (E.O.).
- The smooth bore is excellent for noiseless smoke evacuation.
- Smooth-Bor® Styles 303/305 are made from a polyester elastomer which meets specifications 21 CFR 177.1590 and 21 CFR 177.2600 and therefore are considered to be FDA compliant.

**Smooth-Bor® Style 303** is designed to fit a 22mm male fitting on both ends. Overall length includes the integral end fittings. Indicate Style 303 – (length).

**Example:**

**Style 303 – 72"**

**1** indicates style    **2** overall length of 4" to 120"

This specifies a Smooth-Bor® tube Style 303 with an overall length of 72 inches.

**Smooth-Bor® Style 305** identifies an inside diameter other than 22mm. Indicate Style 305-(Inside diameter)-(length). Both ends must be same inside diameter.

**Example:**

**Style 305 – 26mm – 40"**

**1** indicates style    **2** inside diameter    **3** overall length

This specifies a Smooth-Bor® tube Style 305 with an inside diameter of 26mm and an overall length of 40 inches, designed to fit 26mm male fittings.

Different end fitting lengths are available.

# REUSEABLE STYLES 403/405



- Smooth-Bor® Styles 403/405 are manufactured from a polyester elastomer selected for its strength, light weight, and temperature range. Silicone rubber cuffs are used for high temperature resistance and ease of connection.
- Inside diameters are designed to fit 10, 15, 19, 22, and 26mm fittings.
- Smooth-Bor® Styles 403/405 feature latex-free silicone rubber fittings for male connections or hard polyester elastomer fittings (H) for female connections.
- The smooth interior promotes laminar flow.
- Smooth-Bor® Styles 403/405 are clear with cream colored helix and fittings. The tubing is also available in gray tint with gray fittings.
- Smooth-Bor® Styles 403/405 are much lighter than silicone rubber tubing yet are extremely strong.

- Smooth-Bor® tubing has very low compliance.
- The tubing is available in cut lengths from 4"/100mm to 120"/3000mm depending on diameter.
- Smooth-Bor® tubing is designed so that even a very sharp bend will not close off flow.
- The smooth interior allows for easy cleaning.
- Smooth-Bor® Styles 403/405 can be autoclaved in steam at 270° F (132° C) or pasteurized at 170° F (75° C). The tubing can also be sterilized by radiation or ethylene oxide (E.O.).
- Different combinations of cuffs can be assembled to fit different size fittings at each end.
- Smooth-Bor® Styles 403/405 are made from a polyester elastomer which meets specifications 21 CFR177.1590 and 21 CFR177.2600 and therefore are considered to be FDA compliant.

**Smooth-Bor® Style 403** is designed to fit a 22mm male fitting on both ends. Overall length includes the fittings. Indicate Style 403 - (length).

**Example:**

**Style 403 - 40"**

**1** indicates style    **2** overall length of 4" to 120"

This specifies a Smooth-Bor® tube Style 403 with an overall length of 40 inches.

**Smooth-Bor® Style 405** has end fittings of silicone rubber or hard polyester which are added after the tubing is made. See chart below for available combinations.

**Example:**

**Style 405 - .750 - 40" - .750 - .920**

**1** indicates style    **2** inside diameter    **3** overall length    **4** inside diameter of one end fitting    **5** inside diameter of other end fitting

This specifies a Smooth-Bor® tube Style 405 with a tube I.D. of .750, an overall length of 40", to fit 22mm and 26mm male fittings.

### Style 403/405 tube and fitting combinations

Smooth-Bor® number	Tube inside dia.	Fittings it fits	Smooth-Bor® number	Tube inside dia.	Fittings it fits
405-10mm-length-.355-.355	10mm	10mm male both ends	403-length	.750	22mm male both ends
405-10mm-length-.355-.530	10mm	10mm male one end, 15mm male other end			
405-10mm-length-.530-.530	10mm	15mm male both ends	405-.750-length-.530R-.530R	.750	19mm male both ends (cuffs are red)
405-12mm-length-.530-.530	12mm	15mm male both ends	405-.750-length-.750-.530R	.750	22mm male one end, 19mm male other end
405-15mm-length-.530-.530	15mm	15mm male both ends	405-.750-length-.920-.920	.750	26mm male both ends
405-15mm-length-.530-.750	15mm	15mm male one end, 22mm male other end	405-.750-length-.750-.920	.750	22mm male one end, 26mm male other end
405-15mm-length-.750-.750	15mm	22mm male both ends	405-.750-length-.530R-.920	.750	19mm male one end, 26mm male other end
405-15mm-length-.438H-.438H	15mm	15mm female both ends	405-.750-length-.750 90°-.750	.750	22mm male both ends (one cuff 90°)
405-15mm-length-.438H-.530	15mm	15mm female one end, 15mm male other end	405-.750-length-.750 90°-.530R	.750	22mm male (90° cuff), 19mm male other end
405-15mm-length-.438H-.750	15mm	15mm female one end, 22mm male other end	405-.750-length-.750 90°-.920	.750	22mm male (90° cuff), 26mm male other end
			405-.750-length-.750 90°-.750 90°	.750	22mm male (90° cuff), both ends

REUSEABLE STYLES  
**503/505**



- Smooth-Bor® Styles 503/505 are manufactured from a new metallocene plastomer technology chosen for its superior clarity, flexibility, and strength.
- Inside diameters range from 10mm (.394) to 51mm (2.000).
- Integral end fittings, patented by Smooth-Bor®, are available for Styles 503/505 and provide a clean tube termination. The tube and end fittings share the same inside diameter.
- The smooth interior promotes laminar flow.
- Smooth-Bor® tubing is clear and has no odor.
- Smooth-Bor® tubing is light weight yet strong.
- Smooth-Bor® tubing has very low compliance.
- The tubing is available in cut lengths from 4"/100mm to 120"/3000mm depending on diameter.

- These tubes produced from a polyolefin plastomer (POP) are three times stronger than EVA copolymers.
- Smooth-Bor® tubing is designed so that even a very sharp bend will not close off flow.
- The smooth interior allows for easy cleaning.
- Smooth-Bor® Styles 503/505 can be pasteurized at 170° F (75° C), or sterilized by radiation or ethylene oxide (E.O.)
- The smooth bore is excellent for noiseless smoke evacuation.
- Smooth-Bor® Styles 503/505 comply with FDA regulation 21 CFR 177.1520, and therefore are considered FDA compliant.

**Smooth-Bor® Style 503** is designed to fit a 22mm male fitting on both ends. Overall length includes the integral end fittings. Indicate Style 503-(length).

**Example:**

**Style 503 - 48"**

**1** indicates style    **2** overall length of 4" to 120"

This specifies a Smooth-Bor® tube Style 503 with an overall length of 48 inches.

**Smooth-Bor® Style 505** identifies an inside diameter other than 22mm. Indicate Style 505- (inside diameter)-(length). Both ends must be same inside diameter.

**Example:**

**Style 505 - 10mm - 750mm**

**1** indicates style    **2** inside diameter    **3** overall length

This specifies a Smooth-Bor® tube Style 505 with an inside diameter of 10mm and an overall length of 750mm, designed to fit 10mm male fittings.

Different end fitting lengths are available.



- Smooth-Bor® Style 603 is manufactured from a new metal-locene plastomer technology chosen for its superior clarity, flexibility, and strength.
- This latest addition to our product line features a polyolefin plastomer tube with thermoplastic elastomer fittings. It fits a 22mm male connection on both ends.
- The smooth interior promotes laminar flow.
- Smooth-Bor® Style 603 is gray/clear with a light gray cuff. Also available clear with a light gray cuff.
- Smooth-Bor® Style 603 is a light weight alternative to tubing made from silicone rubber or polyester elastomer.

- Smooth-Bor® tubing has very low compliance.
- The tubing is available in cut lengths from 6"/150mm to 120"/3000mm.
- Smooth-Bor® tubing is designed so that even a very sharp bend will not close off flow.
- The smooth interior allows for easy cleaning.
- Smooth-Bor® Style 603 can be pasteurized at 170°F (75°C), or sterilized by radiation or ethylene oxide (E.O.)
- Smooth-Bor® Style 603 complies with FDA regulation 21 CFR 177.1520, and therefore is considered FDA compliant.

**Smooth-Bor® Style 603** is designed to fit a 22mm male fitting on both ends. Overall length includes the fittings. Indicate Style 603-(length).

**Example:**

**Style 603 - 40"**

**1** indicates style    **2** overall length of 6" to 120"

This specifies a Smooth-Bor® tube Style 603 with an overall length of 40 inches.

**TEST DATA AVAILABLE FOR BIOCOMPATIBILITY, CYTOTOXICITY, AND ISO 5367:2000**

**ALL PRODUCTS ARE LATEX FREE**



**SMOOTH-BOR®**

**QUALITY AND INNOVATION SINCE 1971**

