



# FLOWLINX® SANITARY COMPONENTS

When a single drop of fluid can make the difference in someone's health, you need smart fluid handling solutions that get the job done safely. Manufacturers worldwide rely on connector products that improve yield, cut costs and reduce time to market.

**FlowLinX® sanitary components are designed for single-use fluid transfer applications where sanitary processing is critical.**

Our FlowLinX® sanitary components are precision engineered, ensuring consistent and reliable performance. Manufactured with high quality materials, all sanitary components are compatible with other TC flanges made to ASME-BPE specifications.

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# Sanitary Fittings

## DESCRIPTION:

FlowLinX® Sanitary Fittings are designed for single use fluid transfer applications where sanitary processing is critical. They are available in 3/4" and 1-1/2" flange sizes and can be easily assembled with silicone and TPE tubing. FlowLinX® Sanitary Fittings are available in polypropylene material and are compatible with other TC flanges made to ASME-BPE specifications. End caps are also available.

## SPECIFICATIONS:

- Manufactured in an ISO 8 Cleanroom

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- ISO 9001:2015 Certified Facility

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- Tested to 94 PSI (6.5 bar) for Leak Resistance

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- Smooth Inner Surface for Superior Flow

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- Sterilizable by Gamma Irradiation, ETO or Autoclave

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- USP Class VI & Animal Free

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- Lot Traceability on each Fitting

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- Validation Package with BPOG Extractables Testing Available

\*5-year shelf life from date of manufacture

BARB SIZE (in.)	FLANGE SIZE in. (mm)	BORE I.D. (in.)	FLANGE DIAMETER (in.)	OVERALL LENGTH (in.)
1/4" (0.250)	3/4" (19.0 mm)	0.185	0.984	1.500
1/4" (0.250)	1-1/2" (38.1 mm)	0.185	1.984	1.650
3/8" (0.375)	3/4" (19.0 mm)	0.300	0.984	1.640
3/8" (0.375)	1-1/2" (38.1 mm)	0.300	1.984	1.640
1/2" (0.500)	3/4" (19.0 mm)	0.400	0.984	1.870
1/2" (0.500)	1-1/2" (38.1 mm)	0.400	1.984	1.870
1/2" (0.500)	1" Ladish	0.400	1.984	1.760
3/4" (0.750)	3/4" (19.0 mm)	0.593	0.984	1.870
3/4" (0.750)	1-1/2" (38.1 mm)	0.615	1.984	2.207



PART NUMBER	DESCRIPTION	PACK QTY.
F-TC-0250M	3/4" (Mini) Sanitary Flange x 1/4" Barb	25
F-TC-0250X	1-1/2" (Maxi) Sanitary Flange x 1/4" Barb	25
F-TC-0375M	3/4" (Mini) Sanitary Flange x 3/8" Barb	25
F-TC-0375X	1-1/2" (Maxi) Sanitary Flange x 3/8" Barb	25
F-TC-0500M	3/4" (Mini) Sanitary Flange x 1/2" Barb	25
F-TC-0500X	1-1/2" (Maxi) Sanitary Flange x 1/2" Barb	25
F-TC-0750M	3/4" (Mini) Sanitary Flange x 3/4" Barb	25
F-TC-0750X	1-1/2" (Maxi) Sanitary Flange x 3/4" Barb	25
F-TC-1000X	1-1/2" (Maxi) Sanitary Flange x 1" Barb	25
F-TC-0500L-PF	1" (Ladish) Sanitary Flange x 1/2" Barb	5

PART NUMBER	DESCRIPTION	PACK QTY.
F-EC-1500	1-1/2" (Maxi) TC End Cap	50
F-EC-0750	3/4" (Mini) TC End Cap	50



# SANITARY CLAMPS

## DESCRIPTION:


FlowLinX® Sanitary Clamps are designed for quick and efficient installation. The innovative clamp design retains the sanitary fittings in the clamp body for effortless one-handed operation. The audible click of the clamp ensures the connection is secure without over compression of the gasket. FlowLinX® Sanitary Clamps are available in 1/2" to 3/4" (Mini) flange and 1" to 1-1/2" (Maxi) flange sizes and are ASME-BPE compliant.




## SPECIFICATIONS:

- Manufactured in an ISO 8 Cleanroom

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-  ISO 9001:2015 Certified Facility

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-  Zip Tie Compatible for Process ID and Tamper Evident


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-  Tested to 94 PSI (6.5 bar) for Leak Resistance

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-  Sterilizable by Gamma Irradiation or Autoclave


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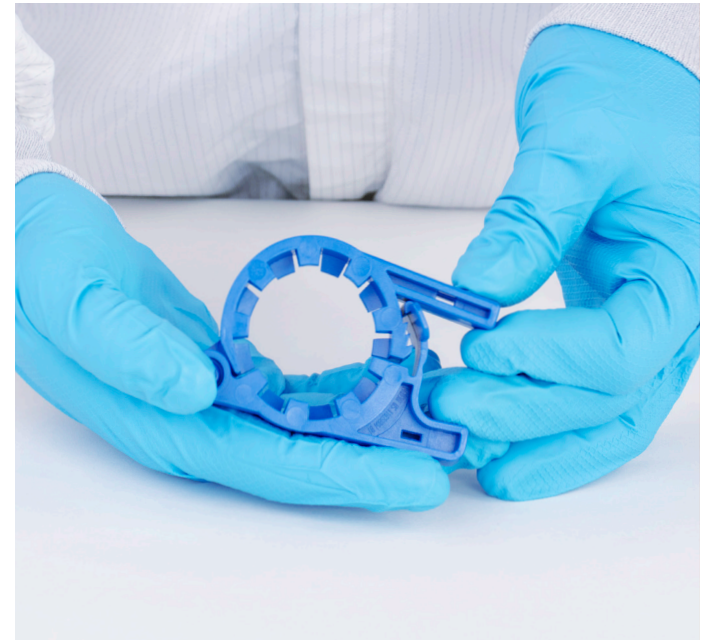
-  Made from Polyketone

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-  USP Class VI & ISO 10993-5

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-  5-Year Shelf Life



PART NUMBER	DESCRIPTION	PACK SIZE
F-CL-0750	F-CL-0750 - Mini TC Clamp	25
F-CL-1500	F-CL-1500 - Maxi TC Clamp	25

FlowLinX® molded sanitary assemblies are the optimal choice for aseptic fluid transfer, sampling, sterile filling, and other critical bioprocess applications. Made from platinum cured silicone, molded sanitary assemblies are available in mini (0.75"), maxi (1.5") and 2" sanitary versions with a variety of tubing sizes and lengths. The one-piece leak proof design features a gasket molded into the face of the sanitary which ensures proper connection alignment, reduces operator contact with the fluid path and eliminates entrapment.



*Choose from standard configurations or customize to your requirements.*



#### SPECIFICATIONS:

- Manufactured in an ISO 8 Cleanroom

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- ISO 9001:2015 Certified Facility

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- Animal Component Free

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- Mini (0.75"), maxi (1-1/2"), and 2" sanitary sizes

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- Polysulfone or stainless-steel backup cups

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- Sterility assurance level  $10^{-6}$  per ISO 11137

## SILICONE REGULATORY OVERVIEW:

<p><b>Material of Construction</b></p> <p>Platinum Cured Silicone</p>	<p><b>Physiochemical</b></p> <p>USP &lt;661&gt;, Plastic Packaging Systems</p> <p>EP 3.1.9, Plastic Packaging Systems and Materials of Construction</p> <p>FDA 21 CFR 177.2600, Rubber Articles Intended for Repeated Use</p>
<p><b>Biocompatibility</b></p> <p>USP &lt;85&gt;, Bacterial Endotoxin</p> <p>USP &lt;88&gt;, Biological Reactivity Tests, Class VI, In Vivo</p> <p>ISO 10993-3, Mutagenicity</p> <p>ISO 10993-4, Hemolysis</p> <p>ISO 10993-5, Cytotoxicity</p> <p>ISO 10993-10, Irritation and Sensitization</p> <p>ISO 10993-11, Systemic Toxicity</p>	<p><b>Extractables</b></p> <p>Per BPOG Protocol</p> <p><b>Legislation</b></p> <p>REACH</p> <p>RoHS</p> <p>Conflict Mineral</p>

## TUBING SELECTOR

EXAMPLE PRODUCT ID:

FA S 188375 X X P 6 U

Assembly	Tubing Type	Tubing Size	First End Type	Second End Type	Backup Cup	Length	Treatment Type
FA: Flowlinx Assembly	S: Silicone Unreinforced	<p><b>Unreinforced:</b></p> <p>188375: 0.188" x 0.375"</p> <p>188438: 0.188" x 0.438"</p> <p>250375: 0.250" x 0.375"</p> <p>250438: 0.250" x 0.438"</p> <p>250500: 0.250" x 0.500"</p> <p>313438: 0.313" x 0.438"</p> <p>313563: 0.313" x 0.563"</p> <p>375500: 0.375" x 0.500"</p> <p>375563: 0.375" x 0.563"</p> <p>375625: 0.375" x 0.625"</p> <p>500750: 0.500" x 0.750"</p> <p>625875: 0.625" x 0.875"</p> <p>7501000: 0.750" x 1.000"</p> <p>10001375: 1.000" x 1.375"</p>	<p>X: Maxi Sanitary</p> <p>M: Mini Sanitary</p> <p>2: 2" Sanitary</p>	<p>X: Maxi Sanitary</p> <p>M: Mini Sanitary</p> <p>2: 2" Sanitary</p> <p>O: Open End</p>	<p>P: Polysulfone</p> <p>S: Stainless</p>	<p>6: 6"</p> <p>12: 12"</p> <p>24: 24"</p> <p>36: 36"</p> <p>48: 48"</p> <p>60: 60"</p> <p>72: 72"</p> <p>84: 84"</p> <p>96: 96"</p> <p>120: 120"</p>	<p>U: non-sterile</p> <p>S: sterile</p>
	B: Silicone Reinforced						
			<p><b>Braid Reinforced:</b></p> <p>250: 0.250" ID</p> <p>375: 0.375" ID</p> <p>500: 0.500" ID</p> <p>625: 0.625" ID</p> <p>1000: 1.000" ID</p>				



# Sanitary Elbows

## SPECIFICATIONS:

- ☑ Manufactured in an ISO 8 Cleanroom

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- ☑ ISO 9001:2015 Certified Facility

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- ♥ Meets USP Class VI and Animal Free

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- ⊘ Tested to 94 PSI (6.5 bar) for Leak Resistance

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- ↻ Smooth Inner Surface for Superior Flow

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- 🛡 Meets FDA 177.2600

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- 🛡 Meets ISO 10993-4, -5

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- 🌸 Sterilize by Gamma Irradiation, ETO or Autoclave

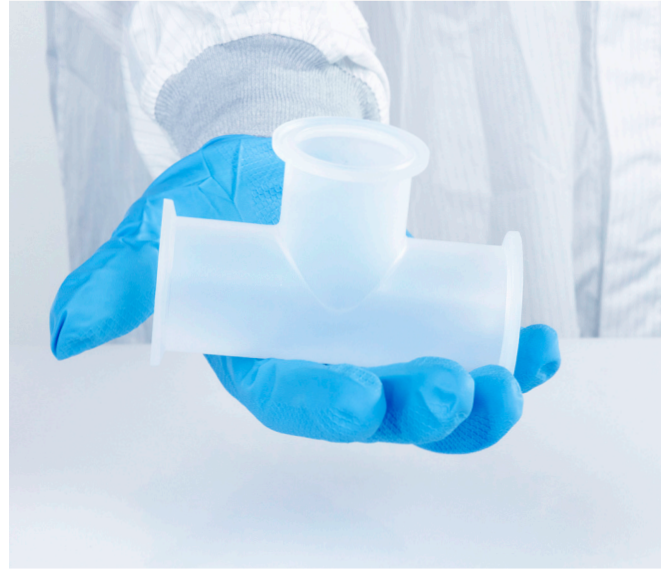


PART NUMBER	DESCRIPTION	PACK SIZE
F-TCE-0750-PF	FlowLinX® 0.750" Sanitary Elbow, 5/PK	5
F-TCE-1000-PF	FlowLinX® 1.000" (Ladish) Sanitary Elbow, 5/PK	5
F-TCE-1500-PF	FlowLinX® 1.500" Sanitary Elbow, 5/PK	5

# Sanitary Tees

## DESCRIPTION:

FlowLinX® Sanitary Tees are designed for single use fluid transfer applications and are available in polypropylene material. Sanitary Tees are compatible with other TC flanges made to ASME-BPE specifications and can be combined with FlowLinX® clamps and gaskets for a complete system.



## SPECIFICATIONS:

- Manufactured in an ISO 8 Cleanroom

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- ISO 9001:2015 Certified Facility

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- Meets USP Class VI and Animal Free

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- Tested to 94 PSI (6.5 bar) for Leak Resistance

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- Smooth Inner Surface for Superior Flow

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- Meets FDA 177.2600

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- Meets ISO 10993-4, -5

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- Sterilize by Gamma Irradiation, ETO or Autoclave



PART NUMBER	DESCRIPTION	PACK SIZE
F-TCT-0750-PF	FlowLinX® 0.75" TC Sanitary Tee, 5/PK	5
F-TCT-1500-PF	FlowLinX® 1.500" Sanitary Tee, 5/PK	5

# Sanitary Reducers

## SPECIFICATIONS:

- ☑ Manufactured in an ISO 8 Cleanroom

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- ☑ ISO 9001:2015 Certified Facility

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- ♥ USP Class VI and Animal Free

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- ↻ Smooth Inner Surface for Superior Flow

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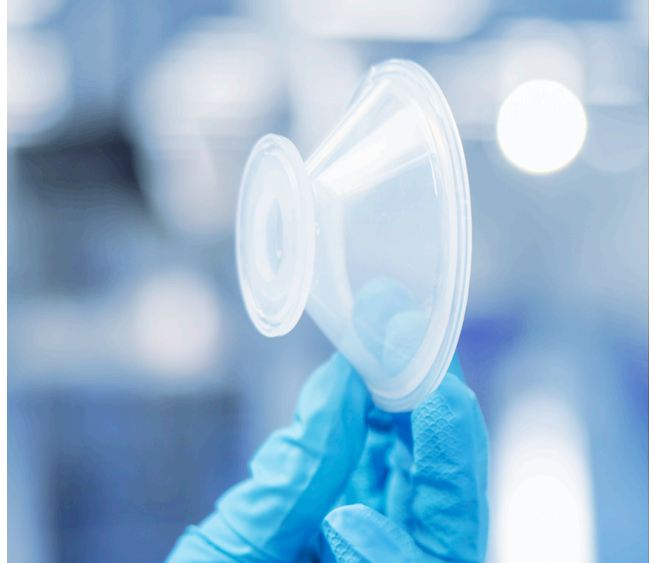
- 🛡 Meets FDA 177.2600

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- 🛡 Meets ISO 10993-4, -5

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- 🌀 Sterilize by Gamma Irradiation, ETO or Autoclave



PART NUMBER	DESCRIPTION	PACK SIZE
F-TC-315X-PF	FlowLinX® 3" to 1.5" Sanitary Reducer	1
F-TC-15075-PF	FlowLinX® 1.5" to 0.75" Sanitary Reducer	5



# Instrument Tee

## DESCRIPTION:

The FlowLinX® Instrument Tee (IT) is ideal for pharmaceutical and biotechnology applications where pressure monitoring and accuracy are important. The instrument tee is made of polypropylene material that is gamma compatible and animal component free. Hose barb connections are available from 3/8" to 1" for use with silicone and TPE tubing. Each FlowLinX® IT features a 1½" sanitary flange for connecting a pressure transducer and can be integrated into a fluid path assembly with a FlowLinX® gasket, sanitary clamp and end cap.



## SPECIFICATIONS:

- Manufactured in an ISO 7 Cleanroom

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- ISO 9001:2015 Certified Facility

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- Animal Component Free

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- Meets FDA 177.2600

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- Meets USP <88>, ISO 10993-4, -5

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- 3 Year Shelf Life



PART NUMBER	DESCRIPTION
F-IT-0375-PF	FlowLinX® Instrument Tee, 1.5" Sanitary x 3/8" Barb
F-IT-0500-PF	FlowLinX® Instrument Tee, 1.5" Sanitary x 1/2" Barb
F-IT-0750-PF	FlowLinX® Instrument Tee, 1.5" Sanitary x 3/4" Barb
F-IT-1000-PF	FlowLinX® Instrument Tee, 1.5" Sanitary x 1" Barb