

GENERAL DESCRIPTION

Masterflex® Sanitary Tees and Elbows are sanitary flanged fittings essential for creating sterile fluid paths in bioprocessing applications. They allow for branching, direction changes, and flow control within a bioprocess system. These fittings are designed to meet strict hygienic standards and are manufactured from high-purity materials like polypropylene and polyvinylidene fluoride (PVDF) to ensure product integrity and minimize contamination risks.

Sanitary tees and elbows are vital components for constructing bioprocess piping systems. Selecting the right material depends on factors like temperature, pressure, and cost requirements. These fittings, with their smooth finishes, secure connections, and sterilizability, facilitate efficient and aseptic bioprocessing workflows.



APPLICATION

Sanitary tees and elbows are used extensively in biopharmaceutical production processes, including upstream processing (cell culture broth transfer, harvest lines, buffer and media preparation) as well as downstream processing (purification chromatography, filtration, product formulation).

FEATURES & BENEFITS

- Smooth Surface Finish: Minimizes product hold-up and bacterial adhesion, promoting aseptic conditions and ensures optimal flow rates and reduces pressure drops
- High quality material provides assurance of product purity and regulatory compliance in highly regulated environments
- Constructed from USP Class VI materials, our sanitary tees prioritize biocompatibility and safety, guaranteeing their suitability for sensitive bioprocess applications
- Designed for easy integration, our single-use tees and elbows are engineered to allow for reliable connections and consistent performance
- ISO Class 7 Cleanroom Manufactured

SPECIFICATION TABLE

Resin Properties	Polypropylene	PVDF
Transparency	Translucent	Translucent
Max Use Temp (°C)	135	135
Brittleness Temp (°C)	0	-62
Autoclave	Yes	Yes
Gamma Irradiation	Yes	Yes
X-Ray	Not Tested	Yes
ETO	Yes	Yes
USP Class VI	Yes	Yes
ADCF	Yes	Yes
FDA	Yes	Yes
REACH	Yes	Yes
RoHS	Yes	Yes

ORDERING INFORMATION

Item number	Quantity	Material	Clamp Size	Flow Pattern
MFLX40618-76	1	Polypropylene	¾"	Tee
MFLX40618-78	1	Polypropylene	1"	Tee
MFLX40618-80	1	Polypropylene	1-1/2"	Tee
MFLX40618-82	1	PVDF	¾"	Tee
MFLX40618-84	1	PVDF	1"	Tee
MFLX40618-86	1	PVDF	1-1/2"	Tee
MFLX40618-88	1	Polypropylene	¾"	90° Elbow
MFLX40618-90	1	Polypropylene	1"	90° Elbow
MFLX40618-92	1	Polypropylene	1-1/2"	90° Elbow
MFLX40618-94	1	PVDF	¾"	90° Elbow
MFLX40618-96	1	PVDF	1"	90° Elbow
MFLX40618-98	1	PVDF	1-1/2"	90° Elbow