



BioPure fluid path components, connect with confidence



**WATSON
MARLOW**

Watson-Marlow Pumps Group

A Spirax-Sarco Engineering Company



BioPure, specialists in the design, manufacture and supply of single-use bioprocessing components

BioPure fluid path components allow you to connect with confidence

BioPure are specialists in the design and manufacture of single-use fluid path components. Manufactured and packed in an ISO Class 7 clean room, BioPure components have lot numbers moulded in for full traceability.

- **BioBarb™** - Hose tail to Tri-Clamp adaptors
- **BioClamp®** - Plastic Tri-Clamps
- **FlatBioEndCap™** - End caps for connectors
- **BioEndCap™** - End caps with pull tab
- **Bio Y™** - Equal barbed Y connectors
- **BioValve™** - Variable flow control valves

BioPure Technology aims to simplify your production operations, lower cGMP biopharmaceutical manufacturing costs and reduce process validation.

BioPure connections emulate over moulded products

Maximise your process

- Full through bore diameter
- Designed to reduce dead spots

Reduce risk

- Lot numbers moulded in for full traceability
- Manufactured in an ISO Class 7 clean room

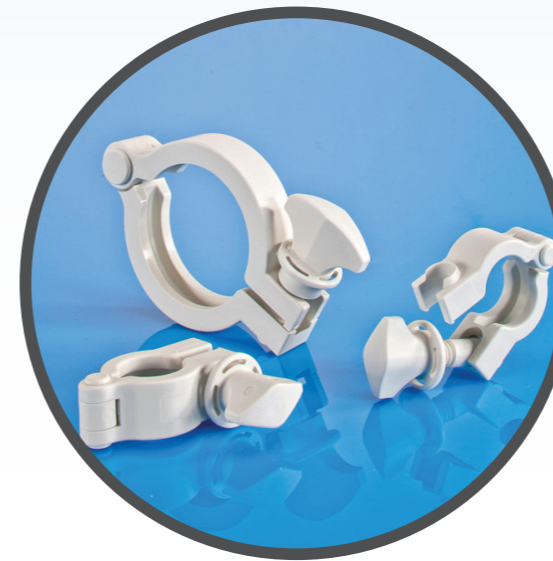


BioBarb™ Hose tail to Tri-Clamp adaptors

BioBarb™ hose tail to Tri-Clamp adaptors are produced from DMF listed polypropylene compliant with FDA and USP Class VI and European Pharmacopeia.

- Every BioBarb is permanently moulded with production lot number and size identification
- The full through bore diameter ensures a smooth transition from tube to adaptor reducing turbulence
- The identical ID of barb and tubing allows complete drainage along an unimpeded flow path
- Enhanced Tri-Clamp design reduces the risk of a seal failure
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy
- Precision compression between tube and fitting eliminates flow by-pass and possible media entrapment

Part number	Description	TC size	Bore size	To suit tubing ID
PPSTC0125BB	1 1/2" TC to 1/8" Bore	1" - 1 1/2"	1/8"	1/8" - 1/4"
PPSTC0250BB	1 1/2" TC to 1/4" Bore	1" - 1 1/2"	1/4"	1/4" - 3/8"
PPSTC0375BB	1 1/2" TC to 3/8" Bore	1" - 1 1/2"	3/8"	3/8" - 1/2"
PPSTC0500BB	1 1/2" TC to 1/2" Bore	1" - 1 1/2"	1/2"	1/2" - 5/8"
PPSTC0625BB	1 1/2" TC to 5/8" Bore	1" - 1 1/2"	5/8"	5/8" - 3/4"
PPSTC0750BB	1 1/2" TC to 3/4" Bore	1" - 1 1/2"	3/4"	3/4" - 7/8"
PPSTC0875BB	1 1/2" TC to 7/8" Bore	1" - 1 1/2"	7/8"	7/8" - 1"
PPSTC1000BB	1 1/2" TC to 1" Bore	1" - 1 1/2"	1"	1"
PPMTC0125BB	1/2" - 3/4" TC to 1/8" Bore	1/2" - 3/4"	1/8"	1/8" - 1/4"
PPMTC0250BB	1/2" - 3/4" TC to 1/4" Bore	1/2" - 3/4"	1/4"	1/4" - 3/8"
PPMTC0375BB	1/2" - 3/4" TC to 3/8" Bore	1/2" - 3/4"	3/8"	3/8" - 1/2"
PPMTC0500BB	1/2" - 3/4" TC to 1/2" Bore	1/2" - 3/4"	1/2"	1/2" - 5/8"
PPMTC0625BB	1/2" - 3/4" TC to 5/8" Bore	1/2" - 3/4"	5/8"	5/8" - 3/4"



BioClamp® Plastic Tri-Clamp

BioClamp® is a patented plastic union clamp, specifically designed to meet the needs of busy pharmaceutical and bioprocessing laboratories.

- Every BioClamp is permanently moulded with production lot number and size identification
- Moulded from reinforced Nylon 66 USP Class VI, FDA
- Preferred over stainless steel clamps to reduce the distortion on polymeric fittings when subjected to heat
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy
- Tamper evident feature available on the 1/2" to 4" BioClamp®

Part number	Size	Maximum operating pressure	
NG075WHT	1/2" - 3/4"	150 psiG	10 bar
NG150WHT	1" - 1 1/2"	150 psiG	10 bar
NG200WHT	2"	150 psiG	10 bar
NG250WHT	2 1/2"	150 psiG	10 bar
NG300WHT	3"	150 psiG	10 bar
NG400WHT	4"	150 psiG	10 bar
NG600WH	6"	90 psiG	6 bar
NG800WH	8"	90 psiG	6 bar



BioBarb™, BioEndCap™, FlatBioEndCap™, Bio Y™ are produced from polypropylene that fulfils the requirements on materials used for articles or components of articles intended for medical use as described in European Pharmacopoeia, 8th Edition (2014), and supplement 8.1 (04/2014) Monograph 3.2.2 Plastic containers and closures for pharmaceutical use and has passed the United States Pharmacopeia testing including Class VI tests and has been assigned the FDA Drug Master File No.: DMF9040



FlatBioEndCap™

End caps for connectors

FlatBioEndCap™ is produced from DMF listed polypropylene compliant with FDA and USP Class VI and European Pharmacopeia.

- Every end cap is permanently moulded with the production lot number and size identification
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy

Part number	Size	Flange size (Inches)
PEC050075FC	1/2" - 3/4" TC	0.75"
PEC100150FC	1" - 1 1/2" TC	1.5"
PEC-200-FC	2.0" TC	2.0"
PEC-250-FC	2.5" TC	2.5"



BioValve™

Variable Flow Control Valve

BioValve™ is a precision restriction flow controller and shut-off valve for use in bioprocessing and pharmaceutical manufacturing applications.

- Every BioValve is permanently moulded with the production lot number and size identification
- Profiled to minimise flow path turbulence
- Thread pitch is calibrated to 2mm per turn, permitting controlled flow restriction
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy
- Can be used single handed
- Moulded from reinforced Nylon USP Class VI

Part number	Size	Maximum operating pressure	
BV0500NW	1/8" - 3/4" - OD Tubing	150 psiG	10 bar
BV1000NW	1/2" - 1 1/4" - OD Tubing	150 psiG	10 bar



Bio Y™

Equal barbed Y

Bio Y™ connectors are designed to meet the same high performance standards of our BioBarb adaptors. Produced from DMF listed polypropylene compliant with FDA and USP Class VI and European Pharmacopeia.

- Every Bio Y connector is permanently moulded with the production lot number and size identification
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy
- Full through bore diameter ensures a smooth transition from tube to adaptor, reducing turbulence
- The Y junction splits the flow with minimum turbulence to optimise flow rate and back pressure
- Identical ID of barb and tubing allows complete drainage along an unimpeded flow path
- Precision compression between tube and fitting eliminates flow by-pass and possible media entrapment

Part number	Bore size	To suit tubing ID	
PP0250BY	1/4"	1/4" - 3/8"	3.2mm - 6.4 mm
PP0375BY	3/8"	3/8" - 1/2"	6.4mm - 9.6mm
PP0500BY	1/2"	1/2" - 5/8"	9.6mm - 12.7mm
PP0625BY	5/8"	5/8" - 3/4"	12.7mm - 15.9mm
PP0750BY	3/4"	3/4" - 7/8"	15.9mm - 19mm
PP0875BY	7/8"	7/8" - 1"	19mm - 22.2mm
PP1000BY	1"	1"	22.2mm - 25.4mm



BioEndCap™

End Caps with pull tab

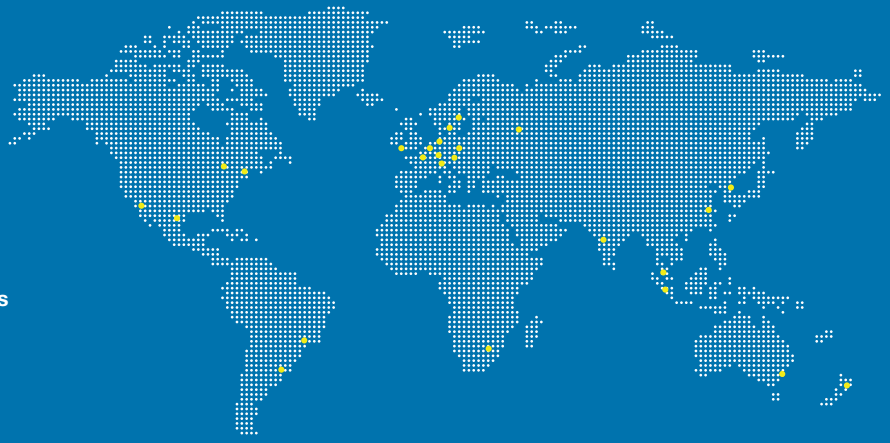
BioEndCap™ is designed to terminate a disposable manifold until an in-process new sterile connection is to be made. Produced from DMF listed polypropylene compliant with FDA and USP Class VI and European Pharmacopeia.

- Every end cap is permanently moulded with the production lot number and size identification
- Uniquely constructed pull-tab ensures easy removal of the cap
- Suitable for sterilisation by autoclave and gamma irradiation, gamma stable, up to 40 kGy

Part number	Size	Flange size (inches)
PEC-500-750	1/2" - 3/4" TC	3/4"
PEC-100-150	1" - 1 1/2" TC	1 1/2"

Watson-Marlow Pumps Group has seven world-class factories supported by direct sales operations in 25 countries and distributors in more than 50 countries. For contact details visit our website:

www.wmpg.com



Watson-Marlow

Bredel

Flexicon

MasoSine

BioPure



Watson-Marlow online

Our engineers around the world can help you choose the perfect pump and tubing for your needs.

More information? Our brochures are on our website:
www.wmpg.com

For more information on BioPure products please visit www.biopuretech.com



Watson-Marlow... Innovation in Full Flow

Tel: +44 (0) 2392 499000
sales@biopuretech.com

BioPure Technology Limited
Unit M1, Hazleton Interchange
Lakesmere Road, Horndean
Hampshire, PO8 9JU, UK
www.biopuretech.com

Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the users responsibility to ensure product suitability for use within their application. Watson-Marlow, Pumpsii and BioClamp are trademarks of Watson-Marlow Limited. Tri-Clamp® is a registered trademark of Ladish Company