Injectech

Trusted Biomedical Components

Plastic Fluid Control Components | v.010

About Injectech

Injectech, LLC was founded as a custom molder and assembly enterprise. Since then we have become a trusted partner for medical device OEMs, biomedical/pharmaceutical manufacturers, veterinary suppliers, and industrial businesses worldwide.

Our Team

Injectech, LLC's management team created Injectech in 1998, after multiple years of experience working with custom molding shops and suppliers to medical OEMs.

Injectech specializes in the development and manufacture of medical, pharmaceutical, and biomedical components and assemblies. In addition to our standard line of catalog fittings, Injectech offers specialty and custom manufacturing based upon our customers' specifications.

Injectech has collaborated with many large medical device OEMs in fulfilling their engineering, design, and assembly requirements. Give us a call, they did - and they are satisfied!

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Company History

Injectech, LLC was founded in 1998 as a custom molder and assembly enterprise in Fort Collins, Colorado.

In the beginning, Injectech was a "part-time" venture as we all worked for another component manufacturer during the daytime. Our primary focus was performing manual assemblies and molding.

Injectech had two machines in a rented garage unit and three very motivated owners. Our main projects were molding a line of regulator components as well as assembling a flu-vaccine introducer for the veterinary market. We did not have a clean room at that time. We were not ISO certified either. If we needed additional help, we would bring in contract labor/friends. We were in our infancy!

Our next steps involved creating our initial business strategy which included:

- Build a clean room
- Get ISO certification
- Implement a sales/marketing/promotion plan

Over the next year, we would have the clean room built. We became ISO certified. We also were very creative regarding our sales and marketing plan strategy.

During this time, we also welcomed our first employees. It was a very challenging financial period. At some point, each one of the owners did not take salaries for a while.

The investment in time and salary deferrals finally paid off as we closed our first "Large Customer". We had left a sales call with only a promise that orders would come if we invested in the molds first. There was an element of risk, however, we had trust in this customer. The molds were built and the first orders came in. By this time, we had moved to our Loveland facility and had four machines operational.

The only machine large enough to run the molds had an error code one day and would not run. Panic mode! Unfortunately, the machine was an older model. The machine

manufacturer had stopped making replacement circuit boards for it. We found ourselves in a serious situation.

We looked at our financial leverage and found that the scenario was even more dire. The three of us contacted our parents for a bridge loan to cover the down payment on another machine. Luckily, the replacement machine was ready by the time the next customer shipment was due. And yes, our parents were paid back in the next two months.

We displayed at MD&M East in 2005 and closed an additional three projects with customers that are still with us today. In fact, they have become close friends. We also met new colleagues in the medical device industry. This led us into our relationship with Elcam Medical.

In 2009, Elcam Medical acquired shares of Injectech. Injectech proceeded to build our product offering during this time. We also had an influx of international business through Elcam. We are proud to say that we now service the medical device and bioprocess industries globally. These were exciting times as the sales/marketing plan was in full force and returning the results we had expected.

In 2016, Elcam decided to focus more on their core markets and sold their shares in Injectech as part of a strategy change. During this time, Injectech was experiencing significant growth numbers during our relationship.

Since 2003, Our core team had been managing the day-to-day operations of the company. This news had little change on the company. We simply continued what we feel Injectech does best – listening to our customers and providing quality products the medical device and bioprocess industries require.

We have learned a lot on this journey! We instill the hunger, drive, and urgency our customers expect to every employee on staff. We look forward to continued success in the future through our service mind-set.

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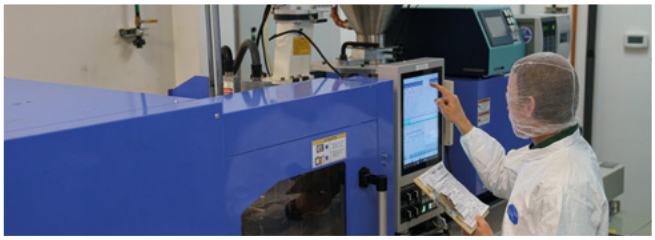
Company History

Larry and Dave celebrate Injectech's 20th anniversary in December 2018.



What we have learned and are grateful for:

- A special “Thank You!” to each one of our employees that have believed in our vision. We appreciate all that you do!
- Injectech is saving/enhancing people’s lives. We are proud of this! We have had family members that had Injectech products used in their surgeries. We are very proud of this.
- Injectech always provides open, honest communication with each of our customers. We know that manufacturing is imperfect. Things will go wrong. Dates will be missed. Many companies add us to their ASL/AVL list as they appreciate the relationships we build. We have been told that our communication and honesty are unmatched.
- Persistence in our core values and a service mindset will continue to be the building blocks for our future.
- We have invested in a management team that we are truly proud of. We will continue to invest in molds and machines to provide our unique style of service to as many customers that we can.
- We are very grateful for our customers. We are grateful for the relationships we have built. We are seriously committed to building relationships. We give thanks to our past and present customers. Thank you for believing in several guys that wanted to provide a better service. Thank you for believing in us!

Dave Splett
VP, Business Development

Larry Knipple
VP, Research and Development

Mission, Vision and Values

Commitment to our Customers

Our flexibility and attention to our customers' success allows us to assist with projects of all sizes. We will maintain transparency, honesty and open lines of communication throughout the entire process.

Injectech, LLC is committed to and abides by the following values:

Integrity | We strive to do the right thing always, act truthfully and honorably, and always be true to ourselves.

Quality & Service | We provide outstanding products and unsurpassed service that, together, deliver premium value to our customers.

Respect | We value our employees, encourage their development, communicate positively, and reward their performance.

Accountability | We are all personally accountable for delivering on our commitments.

Equity | We provide a supportive environment, free from discrimination, and with mutual respect and dignity.

Collaboration | We value team effort over individual effort; how we get things done is as important as what we achieve.

Continuous Improvement | We maintain a culture of ongoing assessment to improve our products and customer experience.

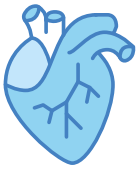
Citizenship | We are good citizens in the communities in which we live and work.

A Will to Succeed | We exhibit a strong will to succeed in the marketplace and every aspect of our business.

Key Markets

We are proud to serve our key markets with quality, fluid-control components in a wide range of materials and sizes.

Our plastic luer locks, tube to tube connectors, check valves, bond-in luers, spikes and more can be found on a variety of machines or tube sets within these industries. Injectech is committed to providing reliable plastic fittings that will contribute to the strong connections needed to keep patients safe.

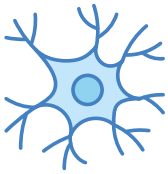


Cardiac

Our fittings are found in heart/lung tubing packs and a variety of catheters; cardioplegia, thrombectomy, atherectomy, ablation and intra-aortic balloon. Our components provide easy, secure and strong connections from tube to tube or machine.

Diagnostic

We serve the diagnostic market with a large selection of male/female luers, straight, tee, elbow, and Y tube to tube connectors, and threaded fittings. We offer these fittings in a variety of sizes and materials including Nylon, Kynar and animal free Polypropylene.



Nuclear

We manufacture male/female luers, spikes, and caps that aid in the connections made between the cassette manifold and tubing in PET tracer machines. Our quality plastic fittings allow for easy operation and efficiency in the production of PET tracers.

Ophthalmic

Our fluid control components are used in devices for surgeries and procedures in the ophthalmic industry such as vitrectomy and phacoemulsification. Our luers, tube to tube connectors and filters are designed to create a secure and reliable leak-tight fit.

Orthopedic

We supply the negative pressure wound therapy, cuff and surgical markets with various plastic fittings to assist with a patient's healing process. In addition to our established line of components, we also offer custom fittings which can be tailored to your project's needs.

Respiratory

Our fittings are found in ventilators, CPAP, and anesthesia machines. Standard connectors are manufactured in a variety of sizes from 1/16" to 1/4". Our reducing connectors come in multiple configurations to fit simple or unique requirements.

At a Glance

Injectech's flexibility, short lead times and high-quality components offer a competitive advantage to our customers and partners.

From design to delivery, we are here to provide you with the high-quality fittings you need - when you need them. Injectech maintains an ISO 13485 certified quality management system. All products are molded, assembled and packaged within an ISO Class 8 (100,000) clean room.

20+
years in business

2,500
off-the-shelf components

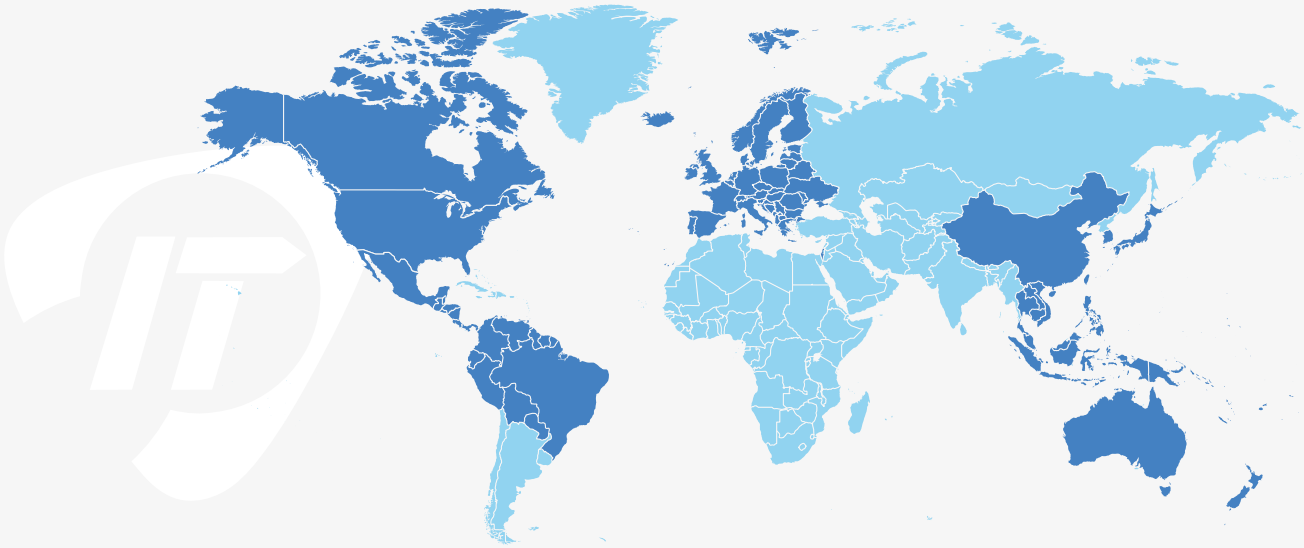
30,000
sq. ft

Global business of skilled professionals

We ship our components to more than 2,000 customers across 30+ countries serving 6 key markets.

30+ countries

2,000 customers



Key Distributors

MedNet
medneteurope.com

Promepla
promepla.com

Qosina
qosina.com

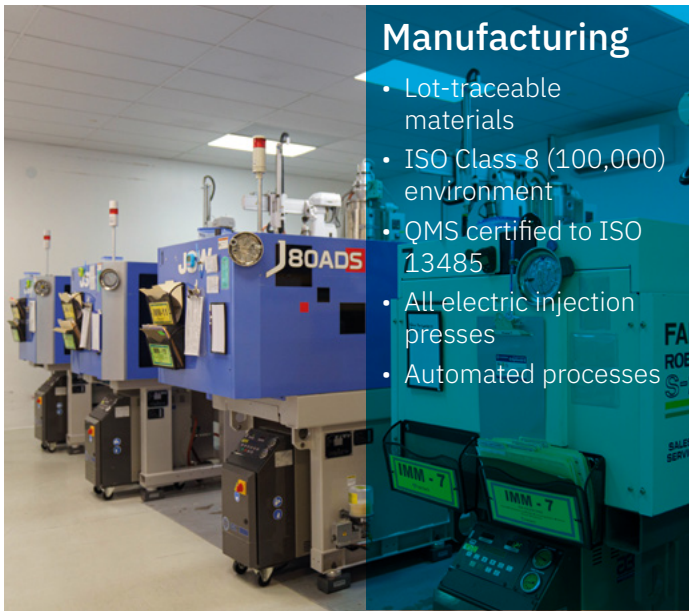
Tune Right Technology
en.tunerighttech.com

The West Group
westgroup.co.uk

Services

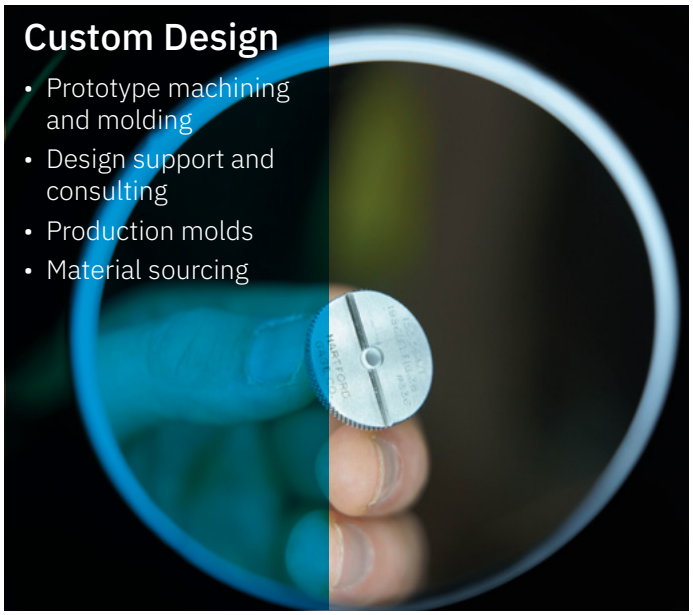
Injectech has an established reputation for flexible manufacturing; to that end, we offer our customers a number of specialized services. We are equipped to manage all stages of product development from design and engineering to verification and validation.

Our plastic components are manufactured, inspected, assembled, and bagged in our Class 8 (100,000) clean room. This same facility is where we design and ship our custom fittings. You can always trust where your components are coming from. Injectech can answer all of your questions quickly because we are with your project from start to finish.



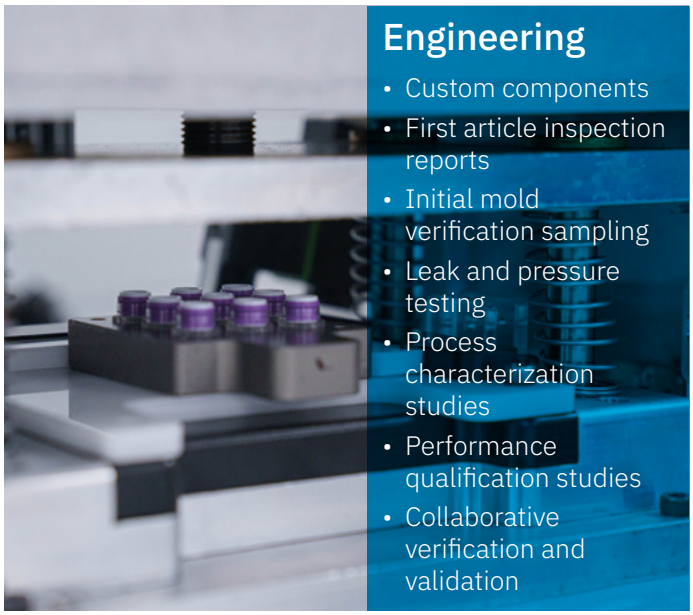
Manufacturing

- Lot-traceable materials
- ISO Class 8 (100,000) environment
- QMS certified to ISO 13485
- All electric injection presses
- Automated processes



Custom Design

- Prototype machining and molding
- Design support and consulting
- Production molds
- Material sourcing



Engineering

- Custom components
- First article inspection reports
- Initial mold verification sampling
- Leak and pressure testing
- Process characterization studies
- Performance qualification studies
- Collaborative verification and validation

Assembly

- Solvent and adhesive bonding
- Clean room assembly
- Component sourcing
- Tool management
- Molding analysis

To order, and for information incl. price, delivery, and material guide:
E: **sales@injectech.us** | T: **+1 970 482 0273** | **www.injectech.net**

Custom Design

Do you have an idea for a product, but our established line of components doesn't fit your needs? Injectech offers custom design and assembly services while maintaining trustworthy customer service to meet your project requirements and timelines.

Our custom services go beyond the manufacture of custom molded components. We provide complete project management services from design to delivery. Injectech's Product Development Team will collaborate with you to help answer any questions and address any obstacles in the process to ensure the success of your project.

Have an idea?
We'll work with you to bring it to life!

- Custom component design
- Cost-reduction initiatives
- Tool management
- Molding analysis

Your customers depend on your products, **you can depend on ours.**

Sample Kits

Our component sample kits are available to assist customers during the component selection and flow control system specification process.

We have a range of component kits available according to their application:

- Fluid Component Connectors Kit
- Negative Pressure Wound Therapy Kit
- Ophthalmic Kit

Our component sample kits provide manufacturers with a selection of components for the specification, design and testing processes. We work to support the design and production process of a variety of markets within the medical device and within bioprocess industries.

Are you in need of an Injectech sample kit? Request yours today!

Why Choose Injectech?

We pride ourselves on developing successful partnerships with our customers.

Focused

Committed to our customers' success. We focus on flexibility, honesty and integrity. We continue to be a reliable resource for medical device OEMs.

Trusted

We work to create trust and lasting relationships with our entire supply chain and customers. This ensures our products arrive promptly and are of superior quality.

Professional

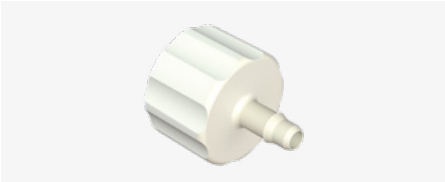
We provide quality plastic fittings at competitive prices with trusted materials. We understand medical applications and will utilize our knowledge to serve our customers.

Understanding

We understand that our fittings are used in life-saving surgeries and medical procedures. This is a driving force in the high standard of our product offering.

What's New

Take a look below at what we've added to our fitting offering this year.



04R332-N01-006
Male Luer Lock to 3/32" Rigid Barb (2.25mm) ID Tubing
Find this fitting on page 25

CP029-N01-006
Male Luer Lock to Modified Luer Taper
Find this fitting on page 56

CP120-PP00-004
Double Ended Cap
Find this fitting on page 56

L03R18-RSPC01-001
Male Slip Luer Elbow to 1/8" Barb (3mm) ID Tubing
Find this fitting on page 59

We offer precision design, injection molding and assembly services while focusing on quality, flexibility and superior customer service.

Quality
Our company conforms to ISO 13485 requirements. We continually improve our work processes to adapt to ever evolving changes.

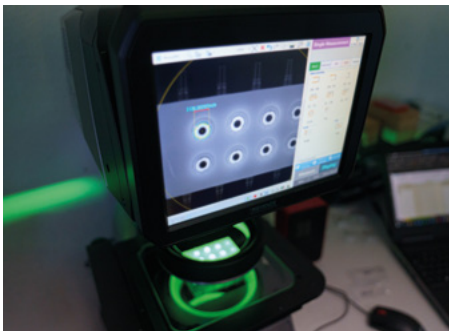
Customization
Not every project can utilize off-the-shelf solutions. We started our business by specializing in custom projects and welcome discussions to make unique ideas a reality.

Knowledge
Our team's extensive experience and knowledge means we can confidently guide our customers in the right direction.

Flexible
We collaborate with our customers. We understand that changes occur during a project's lifecycle so we are always prepared to find solutions that will keep a project on track.

Quality Standards

Injectech's ISO 13485 certification is an extension of our commitment to quality, our customers and our philosophy. All medical products manufactured by Injectech, LLC are molded and/or assembled in our certified Class 8 (100,000) clean room. Our products are double bagged and labeled prior to leaving our clean room.



Injectech, LLC uses virgin material in our manufacturing processes. Absolutely no regrind is allowed in our system. All materials are traceable to the material manufacturer's lot identification number.

We use high quality, medical grade materials to mold all of our fittings to ensure our parts will work for your intended application without issue. We can provide material certifications and more information by request.

We actively pursue providing you with exceptional quality products and ever-improving customer satisfaction through compliance and continual improvements. We consistently ensure that our quality management system is effective and that you receive the highest quality of service from the time you place the order to the time you receive our products.

Injectech production is certified to meet ISO 13485 requirements and is performed in an ISO Class 8 (100,000) clean room environment. We welcome both prototype and production runs.

Product Change Notification

As part of our commitment to customers, it is our policy to post updates on any changes that may affect a product's fit, form or function. In addition to posting on the website, we make every effort to contact customers who have purchased a part within the previous year.

We encourage you to sign up to automatically receive alerts regarding such product changes by scanning the QR code. Our Quality Department is happy to address any concerns you may have about a change.

Where possible, you will also be informed if we plan to make a product obsolete. You will have the opportunity to purchase any remaining stock and we will assist in finding an alternative product. Additionally, we can send drawings or samples of alternative products for evaluation. Please note that any changes to our custom product range are managed directly with the customer concerned.

The International Organization for Standardization (ISO) is in development of the new ISO 80369 standards to reduce the risk of misconnections between small-bore medical connectors.

These connectors are used in respiratory, enteral, urinary, blood pressure, neuraxial and intravenous systems which historically used an identical luer lock design. This increases the likelihood of a misconnection between the delivery systems used in the medical device industry. We have seen the impact of these new standards which has led to new designs, new parts, new molds, and the replacement of millions of components. The FDA is reviewing the deadline for ISO 80369 enforcement.

Injectech is proud to manufacture panel mounts, barbed luers, bond-in luers, filters and check valves that meet the ISO 80369-7 standard.

Are you interested in learning more?

Call us at Injectech and we will discuss how this could affect your project and how we can help!

- **ISO 80369-1**
  General requirements for small bore connectors - Published
- **ISO 80369-2**
  Respiratory (Breathing Systems)
- **ISO 80369-3**
  Enteral Feeding - Published
- **ISO 80369-4**
  Urinary and Urethral
- **ISO 80369-5**
  Blood Pressure (Limb Cuff Inflation) - Published
- **ISO 80369-6**
  Neuraxial Devices - Published
- **ISO 80369-7**
  Intravascular (IV) or Hypodermic - Published

Luers

Injectech luer designs are tested for compliance to relevant international standards ISO 594-1, 594-2 and 80369-7 to ensure compatibility and a leak-tight fit.

Lot-traceable

- Manufactured with 100% virgin materials. Material and product certifications are available on request
- Manufactured and packaged in an ISO Class 8 (100,000) clean room environment
- Manufactured to ISO 13485 quality system standards

Single Barb Design

- **No mold parting line on the sealing surface minimizing potential leaks**
- **Single barbs allow for maximum relaxation of the tubing behind the barb resulting in a remarkable non-slip grip**
- **Geometry of the barb is designed for easy assembly without compromising the fitting's strength or pressure capability**

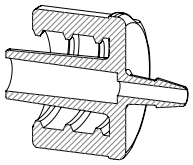
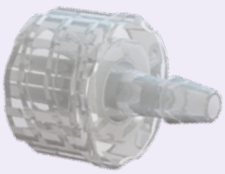
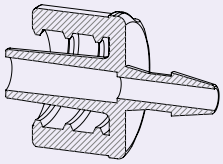
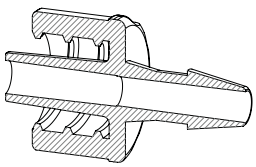
ISO 80369-7 Design

The ISO 80369 series of standards aims to minimize misconnections between small bore connectors of different functional categories. ISO 80369-7 specifically addresses intervascular and hypodermic applications.

Injectech has conducted extensive research to determine the best manufacturing methods and proper protocol to evaluate and meet compliance to the ISO 80369-7 standard.

All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Male Luer Locks

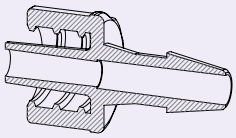
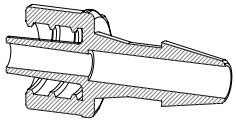
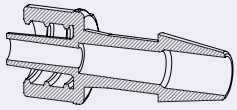
Component	Cross Section	Part Number	Description
		**704116** 704116-N01-006 704116-PP00-004 704116-ABS00-003 704116-PC01-000	80369-7 Male Luer Lock to 1/16" Barb (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**704332** 704332-N01-006 704332-PP00-004 704332-ABS00-003 704332-PC01-000	80369-7 Male Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**70418** 70418-N01-006 70418-PP00-004 70418-ABS00-003 70418-PC01-000	80369-7 Male Luer Lock to 1/8" Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

Barb Design

Technical information regarding barb dimensions can be found on p126 at the back of this catalog.

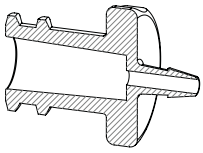
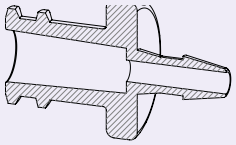
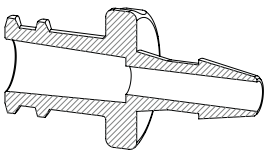
All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Male Luer Locks

Component	Cross Section	Part Number	Description
		**704532** 704532-N01-006 704532-PP00-004 704532-ABS00-003 704532-PC01-000	80369-7 Male Luer Lock to 5/32" Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**704316** 704316-N01-006 704316-PP00-004 704316-ABS00-003 704316-PC01-000	80369-7 Male Luer Lock to 3/16" Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**70414** 70414-N01-006 70414-PP00-004 70414-ABS00-003 70414-PC01-000	80369-7 Male Luer Lock to 1/4" Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Female Luer Locks

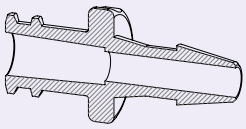
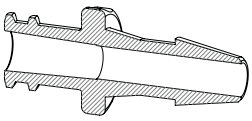
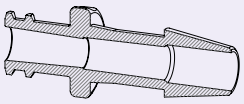
Component	Cross Section	Part Number	Description
		**702116** 702116-N01-006 702116-PP00-004 702116-ABS00-003 702116-PC01-000	80369-7 Female Luer Lock to 1/16" Barb (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**702332** 702332-N01-006 702332-PP00-004 702332-ABS00-003 702332-PC01-000	80369-7 Female Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**70218** 70218-N01-006 70218-PP00-004 70218-ABS00-003 70218-PC01-000	80369-7 Female Luer Lock to 1/8" Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

ISO Standards

Information regarding the ISO 80369 standards can be found on p15.

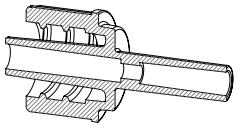
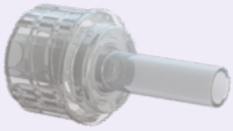
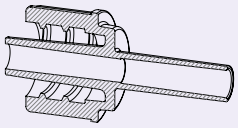
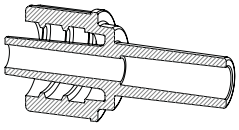
All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Female Luer Locks

Component	Cross Section	Part Number	Description
		**702532** 702532-N01-006 702532-PP00-004 702532-ABS00-003 702532-PC01-000	80369-7 Female Luer Lock to 5/32" Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**702316** 702316-N01-006 702316-PP00-004 702316-ABS00-003 702316-PC01-000	80369-7 Female Luer Lock to 3/16" Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**70214** 70214-N01-006 70214-PP00-004 70214-ABS00-003 70214-PC01-000	80369-7 Female Luer Lock to 1/4" Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

All fittings in this section are compliant to the ISO 80369-7 standard.

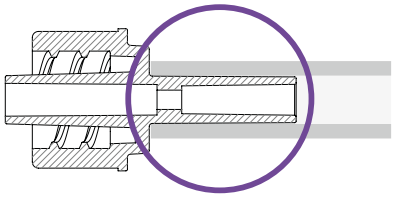
ISO 80369-7 Compliant | Male Bond-In Ports

Component	Cross Section	Part Number	Description
		**04B095** 04B095-ACRL00-004	Male Luer Lock Bond-in Port .100/.090 (2.54mm/2.28mm) Clear Acrylic
		**04B110** 04B110-ACRL00-004	Male Luer Lock Bond-in Port .115/.105 (2.92mm/2.66mm) Clear Acrylic
		**04B130** 04B130-ACRL00-004	Male Luer Lock Bond-in Port .134/.123 (3.4mm/3.12mm) Clear Acrylic

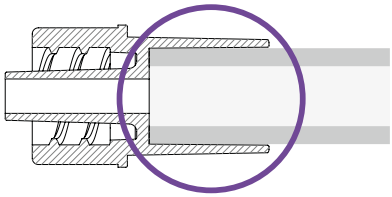
Bond-In Ports

Our bond-in luers allow tubing to be assembled to either the inside or the outside of the fitting. Examples below:

Bond-In Port 04B095

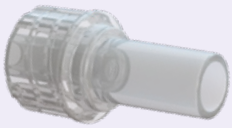
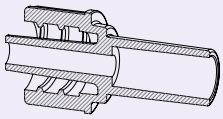
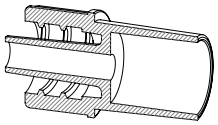
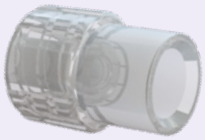
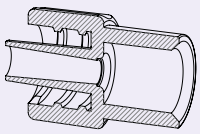


Bond-In Port 04B312



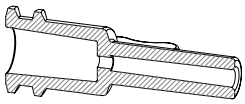
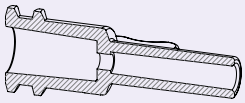
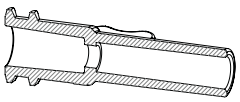
All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Male Bond-In Ports

Component	Cross Section	Part Number	Description
		**04B187** 04B187-ACRL00-004	Male Luer Lock Bond-in Port .192/.182 (4.87mm/4.62mm) Clear Acrylic
		**04B312** 04B312-ACRL00-004	Male Luer Lock Bond-in Port .310/.320 (7.87mm/8.13mm) Clear Acrylic
		**CP023** CP023-ABS00-002	Male Luer Lock Bond-in Port 1/4" (6mm) Clear ABS

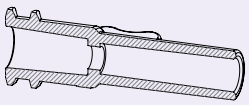
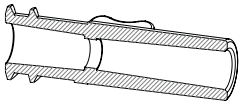
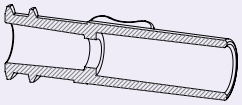
All fittings in this section are compliant to the ISO 80369-7 standard.

ISO 80369-7 Compliant | Female Bond-In Ports

Component	Cross Section	Part Number	Description
		**02B062** 02B062-ACRL00-004 02B062-COPE00-000	Female Luer Lock Bond-in Port .065/.056 (1.65mm/1.42mm) Clear Acrylic Tritan™ Copolyester
		**02B085** 02B085-ACRL00-004 02B085-COPE00-000	Female Luer Lock Bond-in Port .088/.079 (2.23mm/2mm) Clear Acrylic Tritan™ Copolyester
		**02B104** 02B104-ACRL00-004 02B104-COPE00-000	Female Luer Lock Bond-in Port .114/.100 (2.89mm/2.54mm) Clear Acrylic Tritan™ Copolyester

All fittings in this section are compliant to the ISO 80369-7 standard.

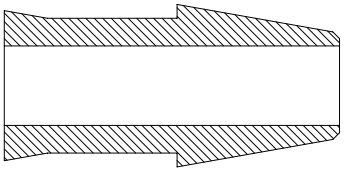
ISO 80369-7 Compliant | Female Bond-In Ports

Component	Cross Section	Part Number	Description
		**02B130** 02B130-ACRL00-004 02B130-COPE00-000	Female Luer Lock Bond-in Port .134/.124 (3.4mm/3.14mm) Clear Acrylic Tritan™ Copolyester
		**02B156** 02B156-ACRL00-004 02B156-COPE00-000	Female Luer Lock Bond-in Port .163/.134 (4.14mm/3.4mm) Clear Acrylic Tritan™ Copolyester
		**02B187** 02B187-ACRL00-004 02B187-COPE00-000	Female Luer Lock Bond-in Port .192/.183 (4.87mm/4.64mm) Clear Acrylic Tritan™ Copolyester

Rigid Barb Design

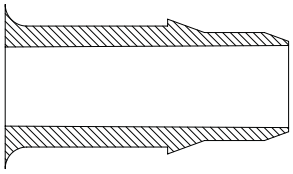
The rigid barb design offers a smaller barb outside diameter. This results in easier tube assembly when working with rigid tubing. Barb comparisons below:

Standard Barb



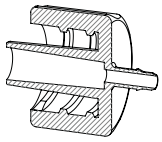
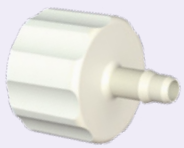
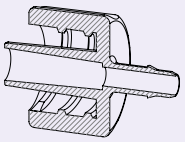
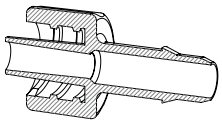
OD for 1/8" standard barb is 0.188"

Rigid Barb



OD for 1/8" rigid barb is 0.156"

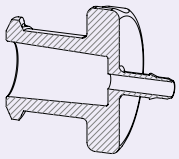
Rigid Barb | Male Luer Locks

Component	Cross Section	Part Number	Description
		**04R116** 04R116-N01-006 04R116-PP00-004 04R116-PC01-000 04R116-RSPC01-005 04R116-KY01-000	Male Luer Lock to 1/16" Rigid Barb (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**04R332** 04R332-N01-006 04R332-PP00-004	Male Luer Lock to 3/32" Rigid Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene
		**04R316** 04R316-N01-006 04R316-PP00-004 04R316-PC01-000 04R316-RSPC01-005 04R316-KY01-000	Male Luer Lock to 3/16" Rigid Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar

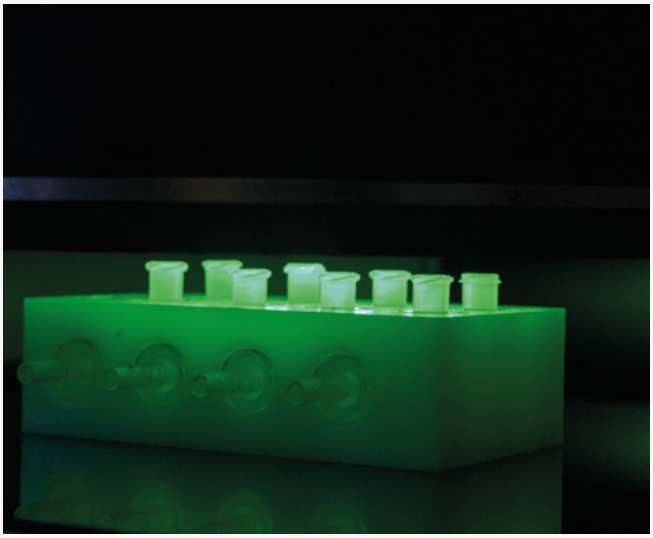
Rigid Barb Design

Our rigid barbs are intended for use with higher durometer tubing such as polyethylene.

Rigid Barb | Female Luer Locks

Component	Cross Section	Part Number	Description
		**02R116** 02R116-N01-006 02R116-PP00-004 02R116-PC01-000 02R116-RSPC01-005 02R116-KY01-000	Female Luer Lock to 1/16" Rigid Barb (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar

Injectech's ISO 13485 certification is an extension of our commitment to quality, our customers and our philosophy.



All medical products manufactured by Injectech, LLC are molded, inspected and/or assembled in our certified Class 8 (100,000) clean room. Our products are double-bagged and labeled prior to leaving our clean room.

High Flow Barb Design

The high flow barb design incorporates two important features:

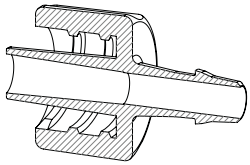
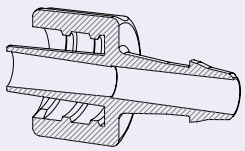
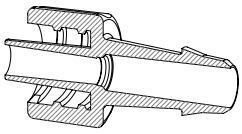
- A smaller barb outside diameter for easier insertion into tubing
- A larger through hole to allow increased flow and vacuum rates

Male luers with barb sizes 1/8" (3mm) and below are limited in flow rate by the core pin that makes the internal feature of the barb. Our 5/32" (4mm) up to 1/4" (6.25mm) barb sizes incorporate a larger luer through hole. This is designated by a "CP" in the part number to indicate a larger total through hole diameter when compared to our other male luer products.

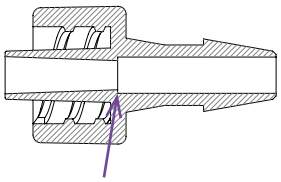
Part number designations

- HF designates our high flow barb design
- CP designates a larger luer core pin

High Flow Luers

Component	Cross Section	Part Number	Description
		**04HF18** 04HF18-N01-006 04HF18-PP00-004 04HF18-PC01-000 04HF18-RSPC01-005 04HF18-KY01-000	Male Luer Lock to 1/8" High Flow Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar
		**04HF532CP** 04HF532CP-N01-006 04HF532CP-PP00-004 04HF532CP-PC01-000 04HF532CP-RSPC01-005 04HF532CP-KY01-000	Male Luer Lock to 5/32" High Flow Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**04HF316CP** 04HF316CP-N01-006 04HF316CP-PP00-004 04HF316CP-PC01-000 04HF316CP-RSPC01-005 04HF316CP-KY01-000	Male Luer Lock to 3/16" High Flow Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar

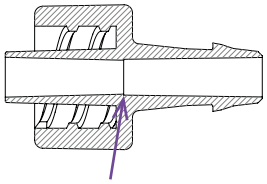
5/32" Standard Barb



Internal step

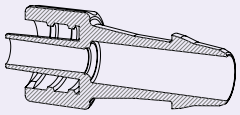
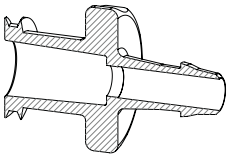
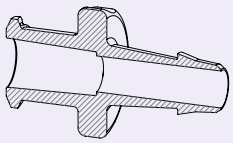
VS.

5/32" High Flow Barb

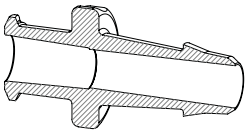
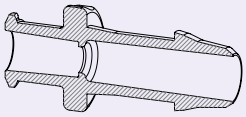


No internal step

High Flow Luers

Component	Cross Section	Part Number	Description
		**04HF14CP** 04HF14CP-N01-006 04HF14CP-PP00-004 04HF14CP-PC01-000 04HF14CP-RSPC01-005 04HF14CP-KY01-000	Male Luer Lock to 1/4" High Flow Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF18** 02HF18-N01-006 02HF18-PP00-004 02HF18-PC01-000 02HF18-RSPC01-005 02HF18-KY01-000	Female Luer Lock to 1/8" High Flow Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF532** 02HF532-N01-006 02HF532-PP00-004 02HF532-PC01-000 02HF532-RSPC01-005 02HF532-KY01-000	Female Luer Lock to 5/32" High Flow Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar

High Flow Luers

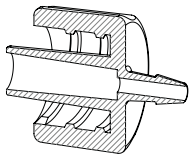
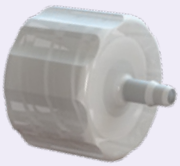
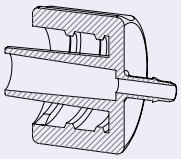
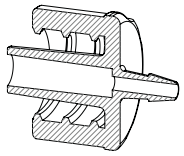
Component	Cross Section	Part Number	Description
		**02HF316** 02HF316-N01-006 02HF316-PP00-004 02HF316-PC01-000 02HF316-RSPC01-005 02HF316-KY01-000	Female Luer Lock to 3/16" High Flow Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF14** 02HF14-N01-006 02HF14-PP00-004 02HF14-PC01-000 02HF14-RSPC01-005 02HF14-KY01-000	Female Luer Lock to 1/4" High Flow Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

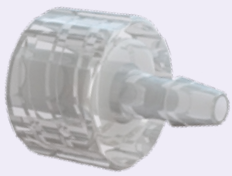
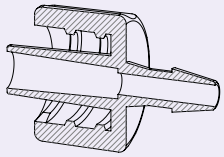
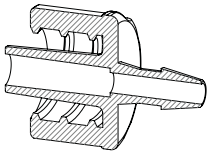
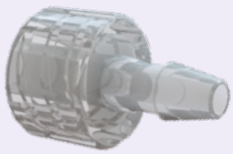
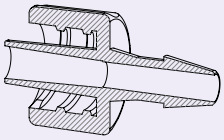
Multiple color options available for Nylon components. Subject to minimum order quantities.

Male Luer Locks

Component	Cross Section	Part Number	Description
		**04116**	Male Luer Lock to 1/16" Barb (1.5mm) ID Tubing
		04116-N01-006	White Nylon
		04116-PP00-004	Animal Free Polypropylene
		04116-ABS00-002	Clear ABS
		04116-PC01-000	Polycarbonate
		04116-RSPC01-005	Radiation Stable Polycarbonate
		04116-KY01-000	Kynar
		**04R116**	Male Luer Lock to 1/16" Rigid Barb (1.5mm) ID Tubing
		04R116-N01-006	White Nylon
		04R116-PP00-004	Animal Free Polypropylene
		04R116-PC01-000	Clear Polycarbonate
		04R116-RSPC01-005	Radiation Stable Polycarbonate
		04R116-KY01-000	Kynar
		**704116**	80369-7 Male Luer Lock to 1/16" Barb (1.5mm) ID Tubing
		704116-N01-006	White Nylon
		704116-PP00-004	Animal Free Polypropylene
		704116-ABS00-003	Clear ABS
		704116-PC01-000	Polycarbonate

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Male Luer Locks

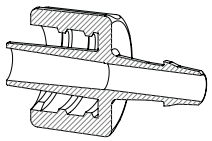
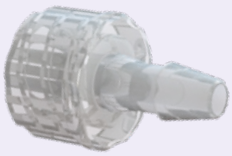
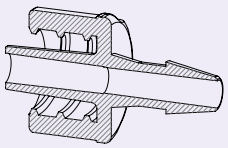
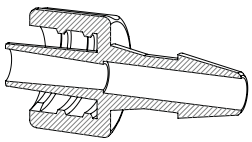
Component	Cross Section	Part Number	Description
		**04332** 04332-N01-006 04332-PP00-004 04332-ABS00-002 04332-PC01-000 04332-RSPC01-005 04332-KY01-000	Male Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar
		**704332** 704332-N01-006 704332-PP00-004 704332-ABS00-003 704332-PC01-000	80369-7 Male Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**0418** 0418-N01-006 0418-PP00-004 0418-ABS00-002 0418-PC01-000 0418-RSPC01-005 0418-KY01-000	Male Luer Lock to 1/8" Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

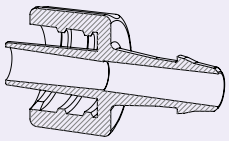
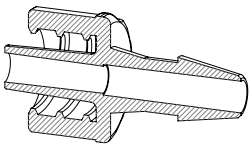
Multiple color options available for Nylon components. Subject to minimum order quantities.

Male Luer Locks

Component	Cross Section	Part Number	Description
		**04HF18** 04HF18-N01-006 04HF18-PP00-004 04HF18-PC01-000 04HF18-RSPC01-005 04HF18-KY01-000	Male Luer Lock to 1/8" High Flow Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar
		**70418** 70418-N01-006 70418-PP00-004 70418-ABS00-003 70418-PC01-000	80369-7 Male Luer Lock to 1/8" Barb (3mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**04532** 04532-N01-006 04532-PP00-004 04532-ABS00-002 04532-PC01-000 04532-RSPC01-005 04532-KY01-000	Male Luer Lock to 5/32" Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Male Luer Locks

Component	Cross Section	Part Number	Description
		**04HF532CP** 04HF532CP-N01-006 04HF532CP-PP00-004 04HF532CP-PC01-000 04HF532CP-RSPC01-005 04HF532CP-KY01-000	Male Luer Lock to 5/32" High Flow Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**704532** 704532-N01-006 704532-PP00-004 704532-ABS00-003 704532-PC01-000	80369-7 Male Luer Lock to 5/32" Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

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SAMPLE KITS

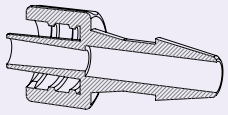
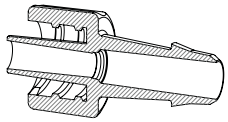
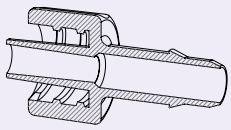
CUSTOM FITTINGS

ASSEMBLIES

Barb Design

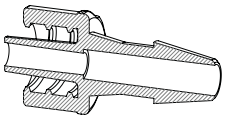
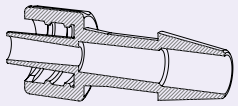
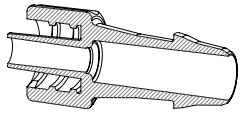
Technical information regarding barb dimensions can be found on p126 at the back of this catalog.

Male Luer Locks

Component	Cross Section	Part Number	Description
		**04316** 04316-N01-006 04316-PP00-004 04316-ABS00-002 04316-PC01-000 04316-RSPC01-005 04316-KY01-000	Male Luer Lock to 3/16" Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar
		**04HF316CP** 04HF316CP-N01-006 04HF316CP-PP00-004 04HF316CP-PC01-000 04HF316CP-RSPC01-005 04HF316CP-KY01-000	Male Luer Lock to 3/16" High Flow Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**04R316** 04R316-N01-006 04R316-PP00-004 04R316-PC01-000 04R316-RSPC01-005 04R316-KY01-000	Male Luer Lock to 3/16" Rigid Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Male Luer Locks

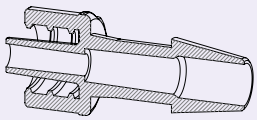
Component	Cross Section	Part Number	Description
		**704316**	80369-7 Male Luer Lock to 3/16" Barb (4.75mm) ID Tubing
		704316-N01-006	White Nylon
		704316-PP00-004	Animal Free Polypropylene
		704316-ABS00-003	Clear ABS
		704316-PC01-000	Polycarbonate
		**0414**	Male Luer Lock to 1/4" Barb (6.25mm) ID Tubing
		0414-N01-006	White Nylon
		0414-PP00-004	Animal Free Polypropylene
		0414-ABS00-002	Clear ABS
		0414-PC01-000	Polycarbonate
		0414-RSPC01-005	Radiation Stable Polycarbonate
		0414-KY01-000	Kynar
		**04HF14CP**	Male Luer Lock to 1/4" High Flow Barb (6.25mm) ID Tubing
		04HF14CP-N01-006	White Nylon
		04HF14CP-PP00-004	Animal Free Polypropylene
		04HF14CP-PC01-000	Clear Polycarbonate
		04HF14CP-RSPC01-005	Radiation Stable Polycarbonate
		04HF14CP-KY01-000	Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Male Luer Locks

Component	Cross Section	Part Number	Description
		**70414** 70414-N01-006 70414-PP00-004 70414-ABS00-003 70414-PC01-000	80369-7 Male Luer Lock to 1/4" Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

Sample Kits are Available

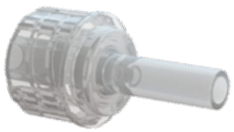
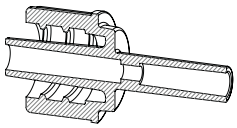
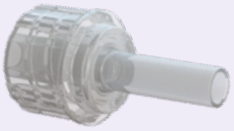
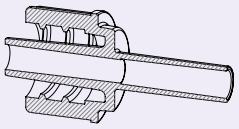
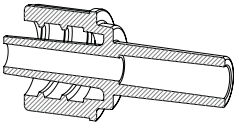
Our sample kits include a variety of both male and female luer sizes as well as tube to tube connectors, spikes, plugs, and couplers. The fittings also come in many differing materials; polypropylene, polycarbonate, nylon, radiation stable polycarbonate, and more!

These kits are an invaluable development tool to assist with small quantity testing without having to purchase a multitude of different samples. At Injectech, we want to make the design process as simple as possible for your team and you.

Are you in need of an Injectech sample kit? Request yours today!

This icon designates a fitting is compliant to the ISO 80369-7 standard.

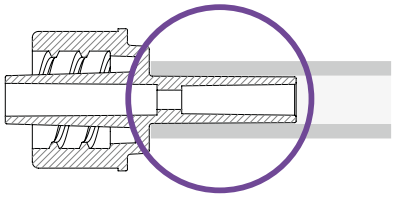
Male Luer Locks | Bond-in Ports

Component	Cross Section	Part Number	Description
		**04B095**	Male Luer Lock Bond-in Port .100/.090 (2.54mm/2.28mm)
		04B095-ACRL00-004	Clear Acrylic
		**04B110**	Male Luer Lock Bond-in Port .115/.105 (2.92mm/2.66mm)
		04B110-ACRL00-004	Clear Acrylic
		**04B130**	Male Luer Lock Bond-in Port .134/.123 (3.4mm/3.12mm)
		04B130-ACRL00-004	Clear Acrylic

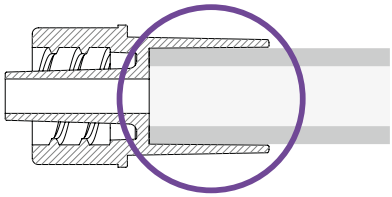
Bond-In Ports

Our bond-in luers allow tubing to be assembled to either the inside or the outside of the fitting. Examples below:

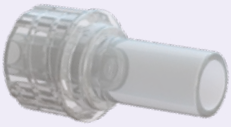
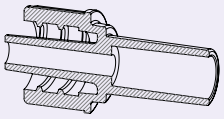
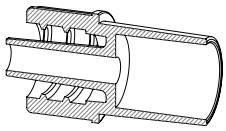
Bond-In Port 04B095



Bond-In Port 04B312



Male Luer Locks | Bond-in Ports

Component	Cross Section	Part Number	Description
		**04B187** 04B187-ACRL00-004	Male Luer Lock Bond-in Port .192/.182 (4.87mm/4.62mm) Clear Acrylic
		**04B312** 04B312-ACRL00-004	Male Luer Lock Bond-in Port .310/.320 (7.87mm/8.13mm) Clear Acrylic

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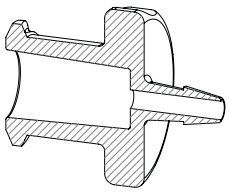
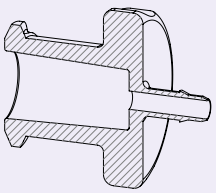
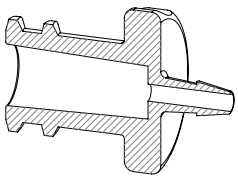
When quality counts, you can trust the reliable products Injectech supplies.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Female Luer Locks

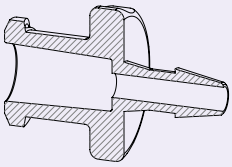
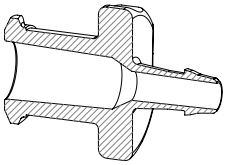
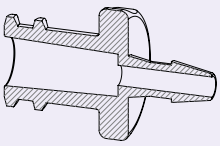
Component	Cross Section	Part Number	Description
		**02116**	Female Luer Lock to 1/16" Barb (1.5mm) ID Tubing
		02116-N01-006	White Nylon
		02116-PP00-004	Animal Free Polypropylene
		02116-ABS00-002	Clear ABS
		02116-PC01-000	Polycarbonate
		02116-RSPC01-005	Radiation Stable Polycarbonate
		02116-KY01-000	Kynar
		**02R116**	Female Luer Lock to 1/16" Rigid Barb (1.5mm) ID Tubing
		02R116-N01-006	White Nylon
		02R116-PP00-004	Animal Free Polypropylene
		02R116-PC01-000	Polycarbonate
		02R116-RSPC01-005	Radiation Stable Polycarbonate
		02R116-KY01-000	Kynar
		**702116**	80369-7 Female Luer Lock to 1/16" Barb (1.5mm) ID Tubing
		702116-N01-006	White Nylon
		702116-PP00-004	Animal Free Polypropylene
		702116-ABS00-003	Clear ABS
		702116-PC01-000	Polycarbonate

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

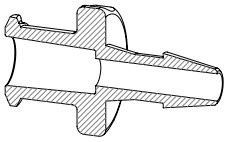
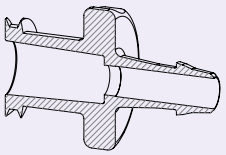
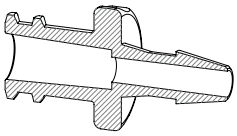
Multiple color options available for Nylon components. Subject to minimum order quantities.

Female Luer Locks

Component	Cross Section	Part Number	Description
		**02332** 02332-N01-006 02332-PP00-004 02332-ABS00-002 02332-PC01-000 02332-RSPC01-005 02332-KY01-000	Female Luer Lock to 1/16" Barb (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF332SB** 02HF332SB-N01-006	Female Luer Lock to 3/32" Barb (2.25mm) Smooth Bore White Nylon
		**702332** 702332-N01-006 702332-PP00-004 702332-ABS00-003 702332-PC01-000	80369-7 Female Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate

This icon designates a fitting is compliant to the ISO 80369-7 standard.

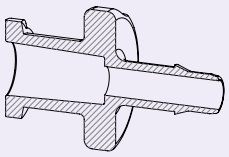
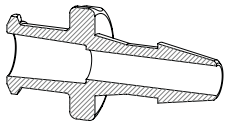
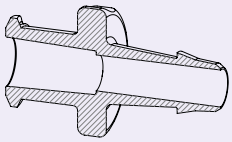
Female Luer Locks

Component	Cross Section	Part Number	Description
		**0218**	Female Luer Lock to 1/8" Barb (3mm) ID Tubing
		0218-N01-006	White Nylon
		0218-PP00-004	Animal Free Polypropylene
		0218-ABS00-002	Clear ABS
		0218-PC01-000	Polycarbonate
		0218-RSPC01-005	Radiation Stable Polycarbonate
		0218-KY00-001	Kynar
		**02HF18**	Female Luer Lock to 1/8" High Flow Barb (3mm) ID Tubing
		02HF18-N01-006	White Nylon
		02HF18-PP00-004	Animal Free Polypropylene
		02HF18-PC01-000	Polycarbonate
		02HF18-RSPC01-005	Radiation Stable Polycarbonate
		02HF18-KY01-000	Kynar
		**70218**	80369-7 Female Luer Lock to 1/8" Barb (3mm) ID Tubing
		70218-N01-006	White Nylon
		70218-PP00-004	Animal Free Polypropylene
		70218-ABS00-003	Clear ABS
		70218-PC01-000	Polycarbonate

CUSTOM OPTIONS

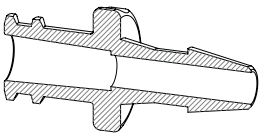
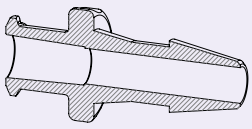
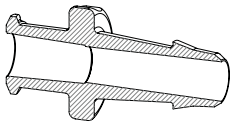
Custom options are available.
Contact **sales@injectech.us**
for more information.

Female Luer Locks

Component	Cross Section	Part Number	Description
		**CP033** CP033-ABS05-000	Female Luer Lock to 1/8" Rigid Barb (3mm) ID Tubing Blue ABS
		**02532** 02532-N01-006 02532-PP00-004 02532-ABS00-002 02532-PC01-000 02532-RSPC01-005 02532-KY01-000	Female Luer Lock to 5/32" Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF532** 02HF532-N01-006 02HF532-PP00-004 02HF532-PC01-000 02HF532-RSPC01-005 02HF532-KY01-000	Female Luer Lock to 5/32" High Flow Barb (4mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Female Luer Locks

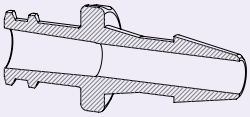
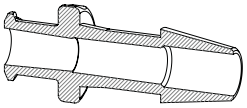
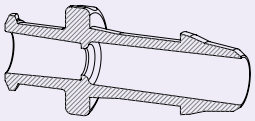
Component	Cross Section	Part Number	Description
		**702532**	80369-7 Female Luer Lock to 5/32" Barb (4mm) ID Tubing
		702532-N01-006	White Nylon
		702532-PP00-004	Animal Free Polypropylene
		702532-ABS00-003	Clear ABS
		702532-PC01-000	Polycarbonate
		**02316**	Female Luer Lock to 3/16" Barb (4.75mm) ID Tubing
		02316-N01-006	White Nylon
		02316-PP00-004	Animal Free Polypropylene
		02316-ABS00-002	Clear ABS
		02316-PC01-000	Polycarbonate
		02316-RSPC01-005	Radiation Stable Polycarbonate
		02316-KY01-000	Kynar
		**02HF316**	Female Luer Lock to 3/16" High Flow Barb (4.75mm) ID Tubing
		02HF316-N01-006	White Nylon
		02HF316-PP00-004	Animal Free Polypropylene
		02HF316-PC01-000	Polycarbonate
		02HF316-RSPC01-005	Radiation Stable Polycarbonate
		02HF316-KY01-000	Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

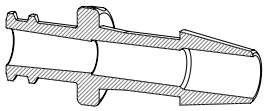
Multiple color options available for Nylon components. Subject to minimum order quantities.

Female Luer Locks

Component	Cross Section	Part Number	Description
		**702316** 702316-N01-006 702316-PP00-004 702316-ABS00-003 702316-PC01-000	80369-7 Female Luer Lock to 3/16" Barb (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate
		**0214** 0214-N01-006 0214-PP00-004 0214-ABS00-002 0214-PC01-000 0214-RSPC01-005 0214-KY01-000	Female Luer Lock to 1/4" Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Clear ABS Polycarbonate Radiation Stable Polycarbonate Kynar
		**02HF14** 02HF14-N01-006 02HF14-PP00-004 02HF14-PC01-000 02HF14-RSPC01-005 02HF14-KY01-000	Female Luer Lock to 1/4" High Flow Barb (6.25mm) ID Tubing White Nylon Animal Free Polypropylene Polycarbonate Radiation Stable Polycarbonate Kynar

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Female Luer Locks

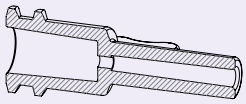
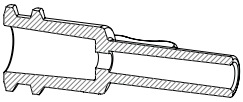
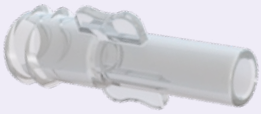
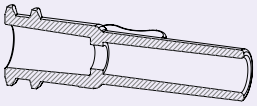
Component	Cross Section	Part Number	Description
		**70214**	80369-7 Female Luer Lock to 1/4" Barb (6.25mm) ID Tubing
		70214-N01-006	White Nylon
		70214-PP00-004	Animal Free Polypropylene
		70214-ABS00-003	Clear ABS
		70214-PC01-000	Polycarbonate

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Female Luer Locks | Bond-in Ports

Component	Cross Section	Part Number	Description
		**02B062** 02B062-ACRL00-004 02B062-COPE00-000	Female Luer Lock Bond-in Port .065/.056 (1.65mm/1.42mm) Clear Acrylic Tritan™ Copolyester
		**02B085** 02B085-ACRL00-004 02B085-COPE00-000	Female Luer Lock Bond-in Port .088/.079 (2.23mm/2mm) Clear Acrylic Tritan™ Copolyester
		**02B104** 02B104-ACRL00-004 02B104-COPE00-000	Female Luer Lock Bond-in Port .114/.100 (2.89mm/2.54mm) Clear Acrylic Tritan™ Copolyester

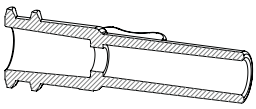
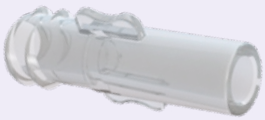
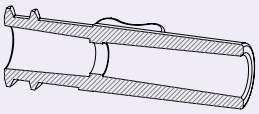
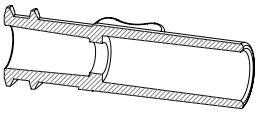
ISO 80369-7 Design

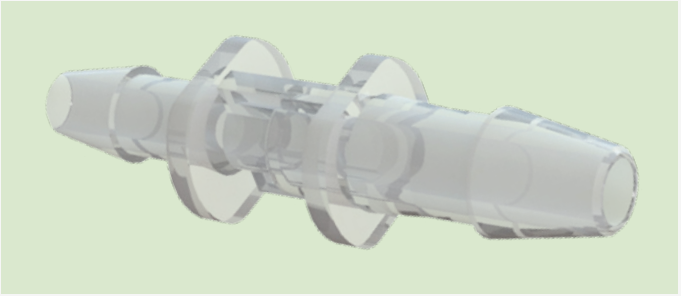
Injectech has conducted extensive research to determine the best manufacturing methods and proper protocol to evaluate and meet compliance to the ISO 80369-7 standard.

Our female bond-in luers meet the requirements for the ISO 80369-7 standard.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Female Luer Locks | Bond-in Ports

Component	Cross Section	Part Number	Description
		**02B130** 02B130-ACRL00-004 02B130-COPE00-000	Female Luer Lock Bond-in Port .134/.124 (3.4mm/3.14mm) Clear Acrylic Tritan™ Copolyester
		**02B156** 02B156-ACRL00-004 02B156-COPE00-000	Female Luer Lock Bond-in Port .163/.134 (4.14mm/3.4mm) Clear Acrylic Tritan™ Copolyester
		**02B187** 02B187-ACRL00-004 02B187-COPE00-000	Female Luer Lock Bond-in Port .192/.183 (4.87mm/4.64mm) Clear Acrylic Tritan™ Copolyester



In need of a material that holds up against oncology drug carrier solvents such as Dimethylsulfoxide (DMSO)?

Eastman Tritan™ copolyester, manufactured by Eastman, outperformed polycarbonate when testing the impact resistance of materials against DMSO.

Products we offer in Tritan™ copolyester:

- Female bond-ins
- Tube to tube connectors
- Reducing tube to tube connectors

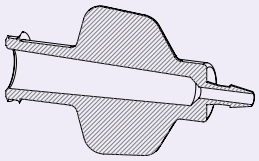
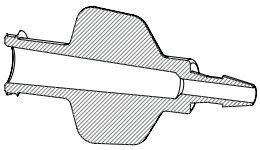
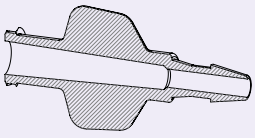
Materials	Dimethylsulfoxide (DMSO) % Retention of impact energy to break
Tritan™ MX731	60 ± 7
Polycarbonate	All broke on jig
Lipid Resistant Polycarbonate	All broke on jig

*Source - Eastman Chemical Company | Results were achieved through Eastman's well developed Four-Step Test for testing how polymers will perform when frequently exposed to drugs and disinfectants. For a full explanation of these results and the testing protocol, please contact us.

Wing Grip Luers allow easy connections - even when wearing gloves.

Wing features offer a flat, comfortable, non-slip gripping surface that provides the extra leverage needed to ensure a secure connection.

Female Wing Grip Luers

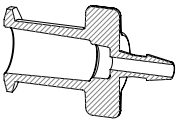
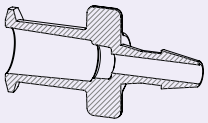
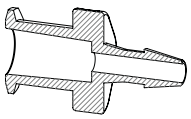
Component	Cross Section	Part Number	Description
		**02G116** 02G116-PP00-004 02G116-ABS00-002 02G116-PC01-000	Female Wing Grip Luer to 1/16" Barb (1.5mm) ID Tubing Animal Free Polypropylene Clear ABS Polycarbonate
		**02G332** 02G332-PP00-004 02G332-ABS00-002 02G332-PC01-000	Female Wing Grip Luer to 3/32" Barb (2.25mm) ID Tubing Animal Free Polypropylene Clear ABS Polycarbonate
		**02G18** 02G18-PP00-004 02G18-ABS00-002 02G18-PC01-000	Female Wing Grip Luer to 1/8" Barb (3mm) ID Tubing Animal Free Polypropylene Clear ABS Polycarbonate

Animal Derivative Free Materials:

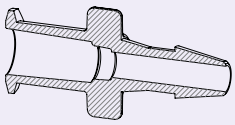
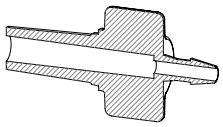
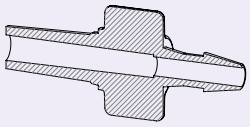
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Slip Luers

Component	Cross Section	Part Number	Description
		**01116** 01116-ABS00-002 01116-RSPC01-001	Female Slip Luer to 1/16" Barb (1.5mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**01332** 01332-ABS00-002 01332-RSPC01-001	Female Slip Luer to 3/32" Barb (2.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**S01332** S01332-ABS01-001	Female Slip Luer to 3/32" Barb (2.25mm) ID Tubing White ABS

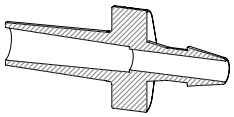
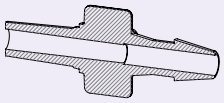
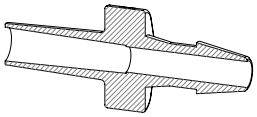
Slip Luers

Component	Cross Section	Part Number	Description
		**0118** 0118-ABS00-002 0118-RSPC01-001	Female Slip Luer to 1/8" Barb (3mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03116** 03116-ABS00-002 03116-RSPC01-001	Male Slip Luer to 1/16" Barb (1.5mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03332** 03332-ABS00-002 03332-RSPC01-001	Male Slip Luer to 3/32" Barb (2.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Slip Luers

Slip luers do not incorporate the ISO threads, allowing for quick assembly.

Slip Luers

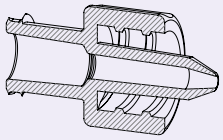
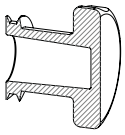
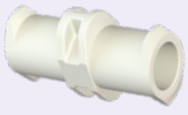
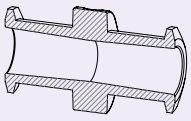
Component	Cross Section	Part Number	Description
		**S03332** S03332-N01-006	Male Slip Luer to 3/32" Barb (2.25mm) ID Tubing White Nylon
		**0318** 0318-ABS00-002 0318-RSPC01-001	Male Slip Luer to 1/8" Barb (3mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**CP030** CP030-ABS01-001	Male Slip Luer to 1/8" Barb (3mm) ID Tubing White ABS

Lot Traceability

Injectech products are molded from 100% virgin - lot-traceable raw materials.

Material certifications can be supplied with each order at your request.

Luer Plugs & Couplers

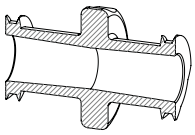
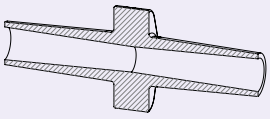
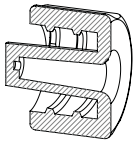
Component	Cross Section	Part Number	Description
		**02STY** 02STY-PP00-004	Female Luer Lock to Stylet Animal Free Polypropylene
		**02P** 02P-N01-006 02P-PP00-004 02P-PC01-000 02P-RSPC01-005 02P-KY01-000	Female Luer Lock Plug White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**C0101** C0101-N01-006	Female Slip Luer Coupler White Nylon

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Luer Plugs & Couplers

Component	Cross Section	Part Number	Description
		**C0202**	Female Luer Lock Coupler
		C0202-N01-006	White Nylon
		C0202-PP00-004	Animal Free Polypropylene
		C0202-PC01-000	Clear Polycarbonate
		C0202-RSPC01-005	Radiation Stable Polycarbonate
		C0202-KY01-000	Kynar
		**C0303**	Male Slip Luer Coupler
		C0303-N01-006	White Nylon
		**04PCL**	Male Luer Lock Plug, Closed Luer
		04PCL-N01-006	White Nylon
		04PCL-PP00-004	Animal Free Polypropylene
		04PCL-PC01-000	Clear Polycarbonate

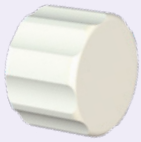
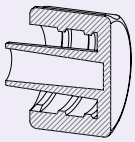
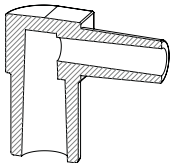
All products subject to minimum order quantities. To order, and for information incl. price, delivery, and material guide:
E: **sales@injectech.us** | T: **+1 970 482 0273** | **www.injectech.net**

Lot Traceability

Injectech products are molded from 100% virgin - lot-traceable raw materials.

Material certifications can be supplied with each order at your request.

Luer Plugs & Couplers

Component	Cross Section	Part Number	Description
		**04P**	Male Luer Lock Plug
		04P-N01-006 04P-PP00-004 04P-PC01-000 04P-RSPC01-005 04P-KY01-000	White Nylon Animal Free Polypropylene Clear Polycarbonate Radiation Stable Polycarbonate Kynar
		**L0103**	Female/Male Luer Slip Elbow
		L0103-RSPC01-001	Lipid Resistant Radiation Stable Polycarbonate

Don't see what you're looking for?

We can also provide

SAMPLE KITS

CUSTOM FITTINGS

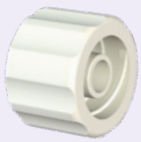
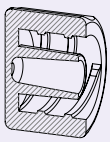
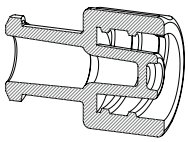
ASSEMBLIES

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Luer Plugs & Couplers

Component	Cross Section	Part Number	Description
		**CP029** CP029-N01-006	Male Luer Lock to Modified Luer Taper White Nylon
		**CP120** CP120-PP00-004	Double Ended Cap Animal Free Polypropylene

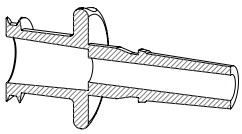
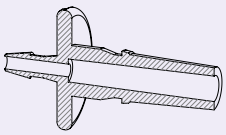
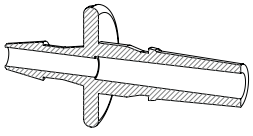
Order online | injectech.net/Products

When quality counts, you can trust the reliable products Injectech supplies.

Rotating Luers

Rotating luers allow you to color code your conections. They are also a useful interface when connecting luers in spaces with limited axial movement.

Rotating Luers

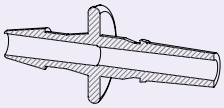
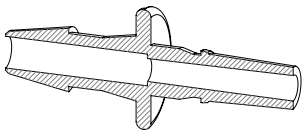
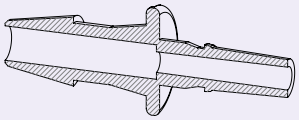
Component	Cross Section	Part Number	Description
		**03R02C** 03R02C-ABS00-002 03R02C-RSPC01-001	Rotating Male Luer to Female Luer Lock Coupler Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03R116** 03R116-ABS00-002 03R116-RSPC01-001	Rotating Male Luer to 1/16" Barb (1.5mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03R332** 03R332-ABS00-002 03R332-RSPC01-001	Rotating Male Luer to 3/32" Barb (2.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Animal Derivative Free Materials:

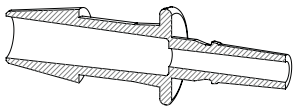
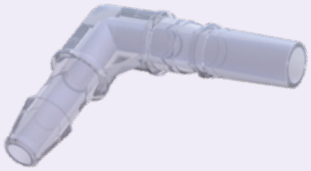
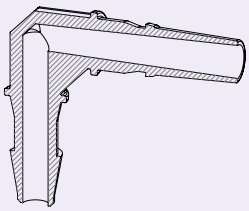
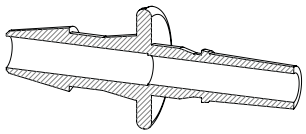
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Rotating Luers

Component	Cross Section	Part Number	Description
		**03R18** 03R18-ABS00-002 03R18-RSPC01-001	Rotating Male Luer to 1/8" Barb (3mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03R532** 03R532-ABS00-002 03R532-RSPC01-001	Rotating Male Luer to 5/32" Barb (4mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03R316** 03R316-ABS00-002 03R316-RSPC01-001	Rotating Male Luer to 3/16" Barb (4.75mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Rotating Luers

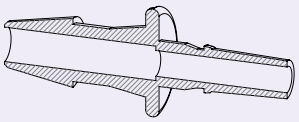
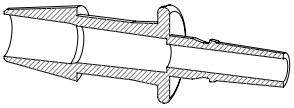
Component	Cross Section	Part Number	Description
		**03R14** 03R14-ABS00-002 03R14-RSPC01-001	Rotating Male Luer to 1/4" Barb (6.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**L03R18** L03R18-RSPC01-001	Rotating Male Slip Luer Elbow to 1/8" Barb (3mm) ID Tubing Lipid Resistant Radiation Stable Polycarbonate
		**03R532CP** 03R532CP-ABS00-002 03R532CP-RSPC01-001	Rotating Male Luer to 5/32" Barb; High Flow (4mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Rotating Luers

Component	Cross Section	Part Number	Description
		**03R316CP** 03R316CP-ABS00-002 03R316CP-RSPC01-001	Rotating Male Luer to 3/16" Barb; High Flow (4.75mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**03R14CP** 03R14CP-ABS00-002 03R14CP-RSPC01-001	Rotating Male Luer to 1/4" Barb; High Flow (6.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Don’t see what you’re looking for?

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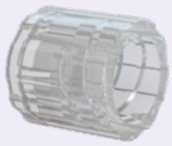
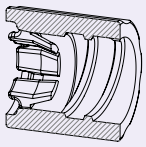
SAMPLE KITS

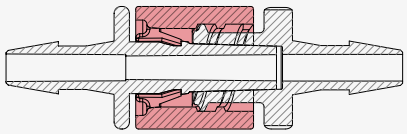
CUSTOM FITTINGS

ASSEMBLIES

Rotating Luers with Snap Ring

Component	Cross Section	Part Number	Description
		**RSR** RSR-ABS00-002 RSR-N01-006 RSR-N02-002 RSR-N03-006 RSR-N05-002 RSR-PC01-000 RSR-RSPC01-001	Rotating Snap Ring Clear ABS White nylon Black nylon Red Nylon Blue Nylon Clear Polycarbonate Lipid Resistant Radiation Stable Polycarbonate

ABS



Male Rotating Luer - Snap Ring Assembly

The threaded snap ring rotates independently, allowing luers to connect without twisting the tubing.

Polycarbonate | RSPC | Red Nylon | Blue Nylon | White Nylon | Yellow Nylon | Green Nylon | Black Nylon

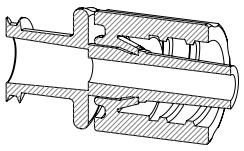
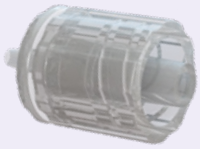
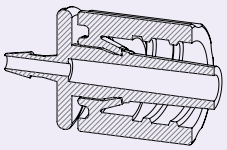
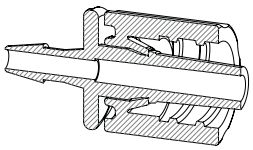
Color/Material Options for Rotating Male Luer Snap Rings

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

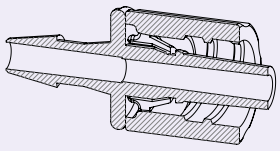
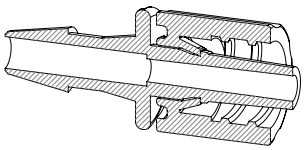
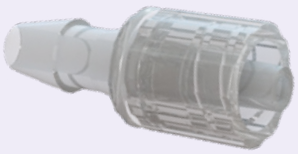
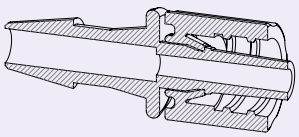
Rotating Luers with Snap Ring

Component	Cross Section	Part Number	Description
		**A03R02C** A03R02C-ABS00-002 A03R02C-RSPC01-001	Rotating Male Luer to Female Luer Lock Coupler with Snap Ring Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R116** A03R116-ABS00-002 A03R116-RSPC01-001	Rotating Male Luer with Snap Ring to 1/16" Barb (1.5mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R332** A03R332-ABS00-002 A03R332-RSPC01-001	Rotating Male Luer with Snap Ring to 3/32" Barb (2.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Rotating Luers with Snap Ring

Products are shipped pre-assembled and are available with snap rings in multiple colored options.

Rotating Luers with Snap Ring

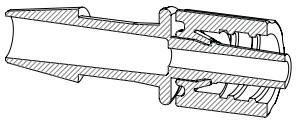
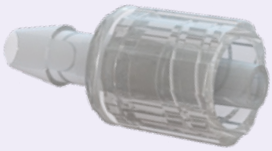
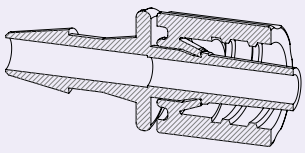
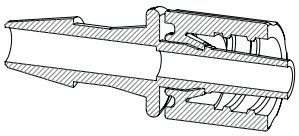
Component	Cross Section	Part Number	Description
		**A03R18** A03R18-ABS00-002 A03R18-RSPC01-001	Rotating Male Luer with Snap Ring to 1/8" Barb (3mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R532** A03R532-ABS00-002 A03R532-RSPC01-001	Rotating Male Luer with Snap Ring to 5/32" Barb (4mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R316** A03R316-ABS00-002 A03R316-RSPC01-001	Rotating Male Luer with Snap Ring to 3/16" Barb (4.75mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Rotating Luers with Snap Ring

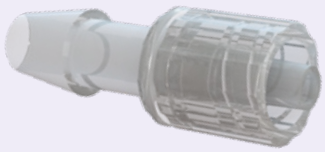
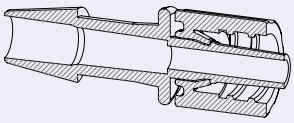
Component	Cross Section	Part Number	Description
		**A03R14** A03R14-ABS00-002 A03R14-RSPC01-001	Rotating Male Luer with Snap Ring to 1/4" Barb (6.25mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R532CP** A03R532CP-ABS00-002 A03R532CP-RSPC01-001	Rotating Male Luer with Snap Ring to 5/32" High Flow Barb (4mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate
		**A03R316CP** A03R316CP-ABS00-002 A03R316CP-RSPC01-001	Rotating Male Luer with Snap Ring to 3/16" High Flow Barb 4.75mm) ID Tubing Clear ABS Lipid Resistant Radiation Stable Polycarbonate

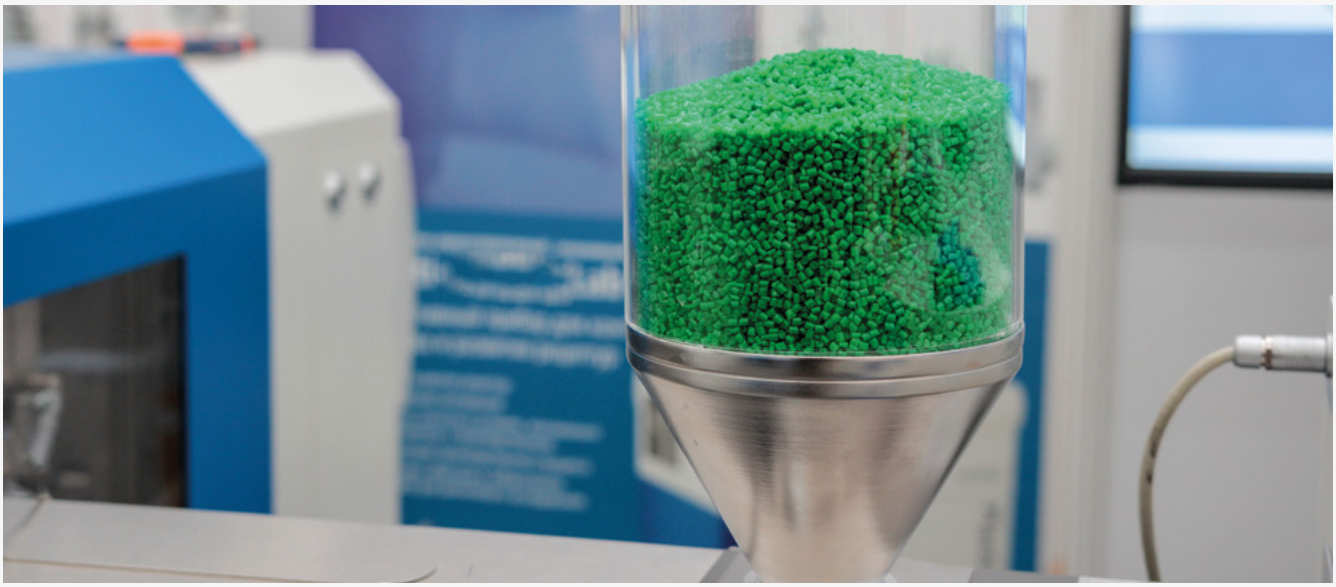
Rotating Luers with Snap Ring

Products are shipped pre-assembled and are available with snap rings in multiple colored options.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Rotating Luers with Snap Ring

Component	Cross Section	Part Number	Description
		**A03R14CP** A03R14CP-ABS00-002 A03R14CP-PC01-000 A03R14CP-RSPC01-001	Rotating Male Luer with Snap Ring to 1/4" High Flow Barb (6.25mm) ID Tubing Clear ABS Clear Polycarbonate Lipid Resistant Radiation Stable Polycarbonate



Injectech's lot traceability

All our products are molded from 100% virgin, lot-traceable raw materials.
Material certifications can be supplied with each order at your request.

Panel Mounts

Injectech panel mounts are tested for compliance to international standard ISO 80369-7 to ensure compatibility and a leak-tight fit.

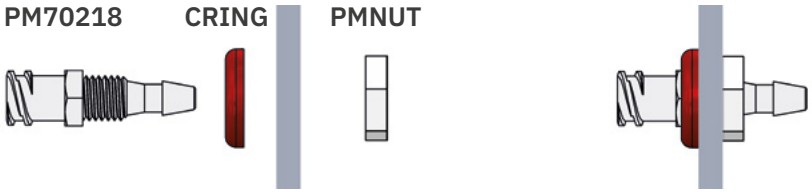
Lot-traceable

- Manufactured with 100% virgin materials. Material and product certifications are available on request
- Manufactured and packaged in an ISO Class 8 (100,000) clean room environment
- Manufactured to ISO 13485 quality system standards

Range of Available Materials

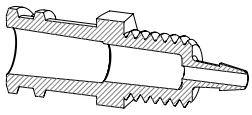
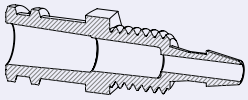
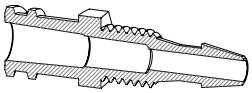
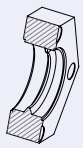
- Nylon
- Animal Free Polypropylene
- Kynar

Injectech manufactures the only ISO 80369-7 certified panel mounts in plastic components. Panel mount threads are 1/4-28 UNF.



This icon designates a fitting is compliant to the ISO 80369-7 standard.

Panel Mounts

Component	Cross Section	Part Number	Description
		**PM702116** PM702116-N01-006 PM702116-PP00-004 Contact us	Panel Mount Female Luer Lock to 1/16" Barb (1.5mm) ID Tubing White Nylon Polypropylene Kynar
		**PM702332** PM702332-N01-000 PM702332-PP00-004 Contact us	Panel Mount Female Luer Lock to 3/32" Barb (2.25mm) ID Tubing White Nylon Polypropylene Kynar
		**PM70218** PM70218-N01-000 PM70218-PP00-004 Contact us	Panel Mount Female Luer Lock to 1/8" Barb (3mm) ID Tubing White Nylon Polypropylene Kynar
		**PMNUT** PMNUT-N00-006	Panel Mount Lock Nut 1/4-28 UNF with 7/16" Hex Natural Nylon
		**CRING** CRING1 CRING2 CRING3 CRING4 CRING5 CRING7	Panel Mount Color Code Ring Color Options Available White Nylon Black Nylon Red Nylon Green Nylon Blue Nylon Yellow Nylon

Spikes

Injectech spikes are tested for compliance to international standard ISO 594-1 to ensure compatibility and a leak-tight fit.

Lot-traceable

- Manufactured with 100% virgin materials. Material and product certifications are available on request
- Manufactured and packaged in an ISO Class 8 (100,000) clean room environment
- Manufactured to ISO 13485 quality system standards

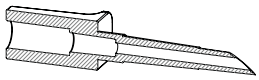
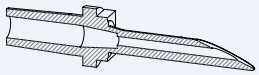
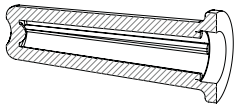
Range of Available Materials

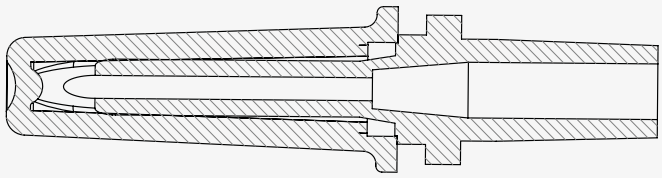
- ABS
- Nylon
- Animal Free Polypropylene

Spikes

Typically for dialysis, IV and nuclear medicine applications. CP026 Spike with CP027 Cap may be ordered pre-assembled.

Spikes

Component	Cross Section	Part Number	Description
		**CP024** CP024-ABS01-001	Spike to 1/4" OD Bond-In Port (non-vented) White ABS
		**CP026** CP026-N01-000	Spike to Male Slip Luer (non-vented) White Nylon
		**CP027** CP027-N01-000 CP027-PP00-004	Cap for CP026 Spike White Nylon Animal Free Polypropylene



CP026 / CP027 - Spike + Cap Assembly

Check Valves / Filters

Injectech's line of check valves and filters are ISO 594-1, 594-2 and 80369-7 certified.

Lot-traceable

- Manufactured with 100% virgin materials. Material and product certifications are available on request
- Manufactured and packaged in an ISO Class 8 (100,000) clean room environment
- Manufactured to ISO 13485 quality system standards

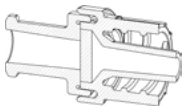
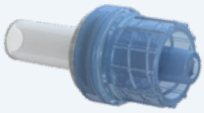
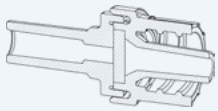
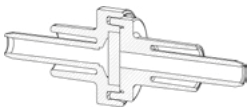
Range of Available Materials

- ABS
- SAN Blue/MABS
- Radiation Stable Polycarbonate
- Polystyrene
- Silicone

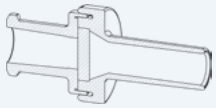
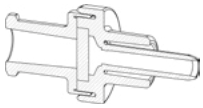
Check Valves / Filters

Injectech offers a wide range of check valves and filters. This product line was created with the intent of offering customized solutions, whether it be different configurations or reverse flow features.

Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**CV0001** CV0001	Female Luer to Male Luer Cracking Pressure ≤ 1 psi Back Pressure 8 bar (116psi) Silicone Disk Molded-in Flow Direction Indicator Radiation Stable Polycarbonate
	 FLOW DIRECTION → → →	**CV0004** CV0004	Male Luer to 3.1mm Port Cracking Pressure 2.9 psi Back Pressure 21 bar (116psi) Silicone Disk SAN Blue-Transparent/MABS -Transparent
	 FLOW DIRECTION → → →	**CV0005** CV0005	3.1 mm Port to 4.2mm Port Cracking Pressure ≤ 1 psi Back Pressure 8 bar (116psi) Silicone Disk Molded-in Flow Direction Indicator SAN Blue-Transparent/Radiation Stable Polycarbonate

Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	CV0006	Female Luer to 4.1mm Port Cracking Pressure 2.9 psi Back Pressure 21 bar (116psi) Silicone Disk Molded-in Flow Direction Indicator SAN Blue-Transparent/MABS -Transparent
	 FLOW DIRECTION → → →	CV0007	Female Luer to Port for 3mm x 4.1mm Cracking Pressure ≤ 1 psi Back Pressure 8 bar (116psi) Silicone Disk Molded-in Flow Direction Indicator Radiation Stable Polycarbonate

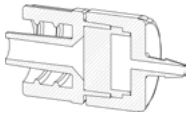
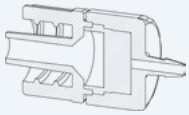
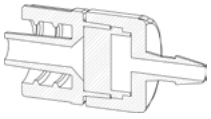
CHECK VALVES FILTERS

Order online | injectech.net/Products

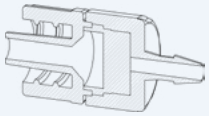
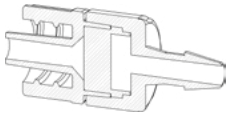
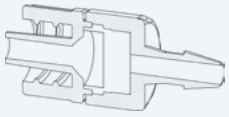
When quality counts, you can trust the reliable products Injectech supplies.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Check Valves

Component	Cross Section	Part Number	Description
	 ← ← ← FLOW DIRECTION	CV704116 CV704116	Check Valve | Male Luer Lock to 1/16" Barb (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	RCV704116 RCV704116	Reverse Check Valve | Male Luer Lock to 1/16" Barb (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 ← ← ← FLOW DIRECTION	CV704332 CV704332	Check Valve | Male Luer Lock to 3/32" Barb (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

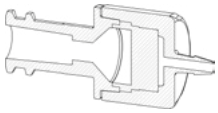
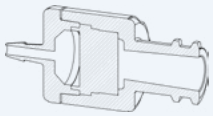
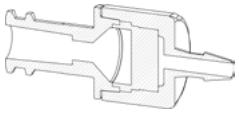
Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	RCV704332 RCV704332	Reverse Check Valve | Male Luer Lock to 3/32" Barb (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 ← ← ← FLOW DIRECTION	CV70418 CV70418	Check Valve | Male Luer Lock to 1/8" Barb (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	RCV70418 RCV70418	Reverse Check Valve | Male Luer Lock to 1/8" Barb (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

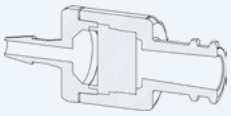
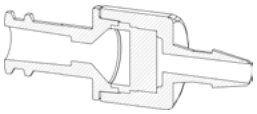
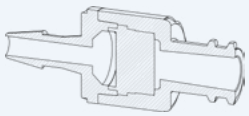
CHECK VALVES FILTERS

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Check Valves

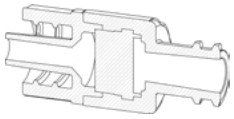
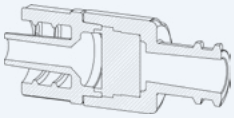
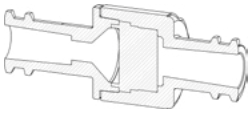
Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	CV702116 CV702116	Check Valve | Female Luer Lock to 1/16" Barb (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	RCV702116 RCV702116	Reverse Check Valve | Female Luer Lock to 1/16" Barb (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	CV702332 CV702332	Check Valve | Female Luer Lock to 3/32" Barb (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Check Valves

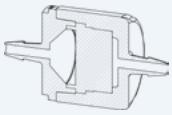
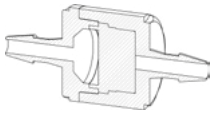
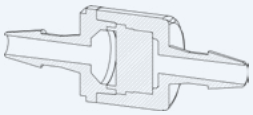
Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**RCV702332** RCV702332	Reverse Check Valve | Female Luer Lock to 3/32" Barb (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**CV70218** CV70218	Check Valve | Female Luer Lock to 1/8" Barb (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**RCV70218** RCV70218	Reverse Check Valve | Female Luer Lock to 1/8" Barb (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

This icon designates a fitting is compliant to the ISO 80369-7 standard.

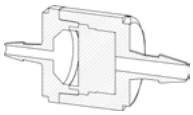
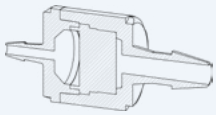
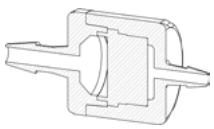
Check Valves

Component	Cross Section	Part Number	Description
	 ← ← ← FLOW DIRECTION	CV70402 CV70402	Check Valve | Male Luer Lock to Female Luer Lock Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	RCV70402 RCV70402	Reverse Check Valve | Male Luer Lock to Female Luer Lock Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	CV70202 CV70202	Check Valve | Female Luer Lock to Female Luer Lock Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

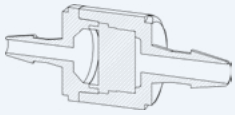
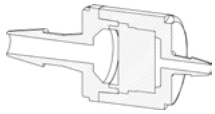
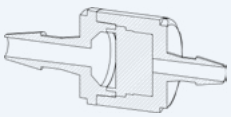
Tube to Tube Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**CV116** CV116	Check Valve 1/16" Barbs (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**CV332** CV332	Check Valve 3/32" Barbs (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**CV18** CV18	Check Valve 1/8" Barbs (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Tube to Tube Reducing Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	CV116R332 CV116R332	Check Valve Flow 1/16" to 3/32" Barbs (1.5mm to 2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	CV116R18 CV116R18	Check Valve Flow 1/16" to 1/8" Barbs (1.5mm to 3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	CV332R116 CV332R116	Check Valve Flow 3/32" to 1/16" Barbs (2.25mm to 1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Tube to Tube Reducing Check Valves

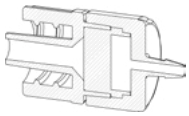
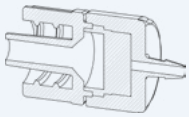
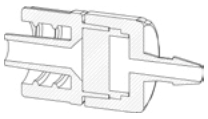
Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**CV332R18** CV332R18	Check Valve Flow 3/32" to 1/8" Barbs (2.25mm to 3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**CV18R116** CV18R116	Check Valve Flow 1/8" to 1/16" Barbs (3mm to 1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**CV18R332** CV18R332	Check Valve Flow 1/8" to 3/32" Barbs (3mm to 2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Filtered Check Valves

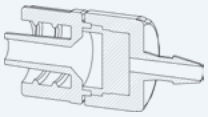
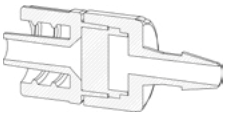
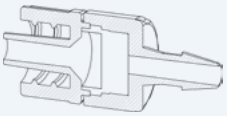
The following components incorporate a 0.2 micron filter with a check valve. This allows users to filter and control flow with one fitting instead of two.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Filtered Check Valves

Component	Cross Section	Part Number	Description
	 ← ← ← FLOW DIRECTION	**FCV704116** FCV704116	Male Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**RFCV704116** RFCV704116	Reverse Male Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 ← ← ← FLOW DIRECTION	**FCV704332** FCV704332	Male Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

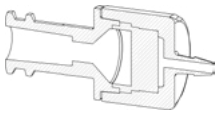
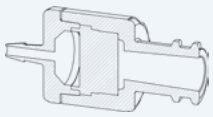
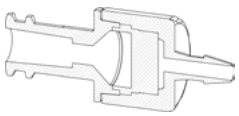
Filtered Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**RFCV704332** RFCV704332	Reverse Male Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 ← ← ← FLOW DIRECTION	**FCV70418** FCV70418	Male Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**RFCV70418** RFCV70418	Reverse Male Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

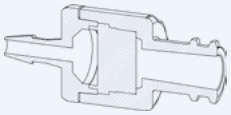
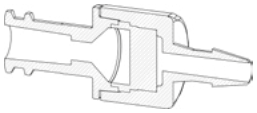
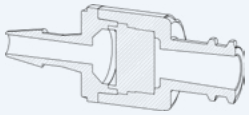
CHECK VALVES FILTERS

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Filtered Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**FCV702116** FCV702116	Female Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**RFCV702116** RFCV702116	Reverse Female Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV702332** FCV702332	Female Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Filtered Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**RFCV702332** RFCV702332	Reverse Female Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV70218** FCV70218	Female Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**RFCV70218** RFCV70218	Reverse Female Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

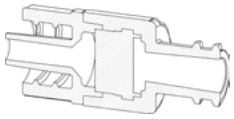
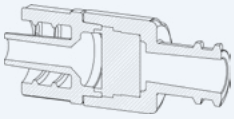
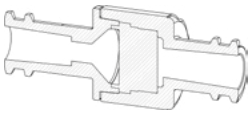
CHECK VALVES FILTERS

Custom Check Valves, Filters and Filtered Check Valves

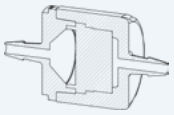
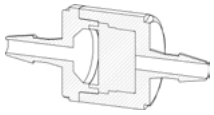
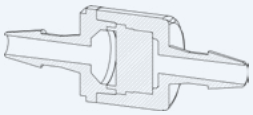
The options offered for our check valves, filters and filtered check valves are completely customizable to your project needs. The following fittings are available in ABS, Polystyrene and Silicone and the filter is 0.2 microns.

This icon designates a fitting is compliant to the ISO 80369-7 standard.

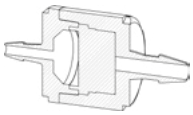
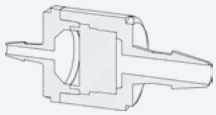
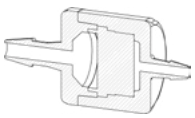
Filtered Check Valves

Component	Cross Section	Part Number	Description
	 ← ← ← FLOW DIRECTION	FCV70402 FCV70402	Filtered Check Valve Male Luer Lock to Female Luer Lock | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	RFCV70402 RFCV70402	Reverse Filtered Check Valve Male Luer Lock to Female Luer Lock | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	FCV70202 FCV70202	Filtered Check Valve Female Luer Lock to Female Luer Lock | Hydrophobic Bacterial Filter (0.2 microns) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

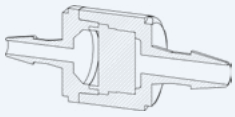
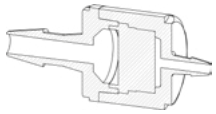
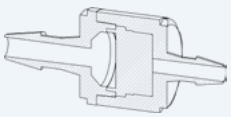
Tube to Tube Filtered Check Valves

Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**FCV116** FCV116	Filtered Check Valve 1/16" Barbs (1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV332** FCV332	Filtered Check Valve 3/32" Barbs (2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV18** FCV18	Filtered Check Valve 1/8" Barbs (3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Tube to Tube Reducing Filtered Check Valves

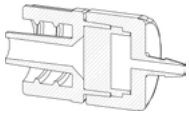
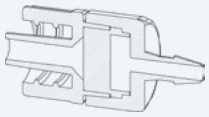
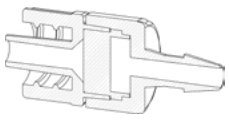
Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**FCV116R332** FCV116R332	Filtered Check Valve Flow 1/16" to 3/32" Barbs (1.5mm to 2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV116R18** FCV116R18	Filtered Check Valve Flow 1/16" to 1/8" Barbs (2.25mm to 3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV332R116** FCV332R116	Filtered Check Valve Flow 3/32" to 1/16" Barbs (1.5mm to 1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

Tube to Tube Reducing Filtered Check Valves

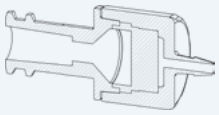
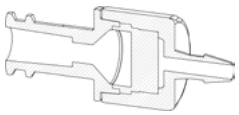
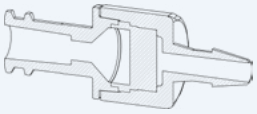
Component	Cross Section	Part Number	Description
	 FLOW DIRECTION → → →	**FCV332R18** FCV332R18	Filtered Check Valve Flow 3/32" to 1/8" Barbs (2.25mm to 3mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV18R116** FCV18R116	Filtered Check Valve Flow 1/8" to 1/16" Barbs (3mm to 1.5mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone
	 FLOW DIRECTION → → →	**FCV18R332** FCV18R332	Filtered Check Valve Flow 1/8" to 3/32" Barbs (3mm to 2.25mm) Cracking Pressure ≤ 8 mbar Back Pressure 2 bar (29psi) Silicone Disk ABS, Polystyrene, Silicone

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Filters

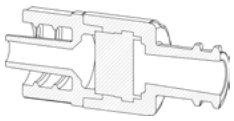
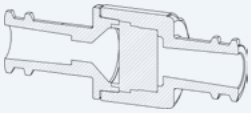
Component	Cross Section	Part Number	Description
		**F704116** F704116	Male Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS
		**F704332** F704332	Male Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS
		**F70418** F70418	Male Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS

Filters

Component	Cross Section	Part Number	Description
		**F702116** F702116	Female Luer Lock to 1/16" Barb (1.5mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS
		**F702332** F702332	Female Luer Lock to 3/32" Barb (2.25mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS
		**F70218** F70218	Female Luer Lock to 1/8" Barb (3mm) | Hydrophobic Bacterial Filter (0.2 microns) ABS

This icon designates a fitting is compliant to the ISO 80369-7 standard.

Filters

Component	Cross Section	Part Number	Description
		**F70402** F70402	Filter Male Luer Lock to Female Luer Lock | Hydrophobic Bacterial Filter (0.2 microns) ABS
		**F70202** F70202	Filter Female Luer Lock to Female Luer Lock | Hydrophobic Bacterial Filter (0.2 microns) ABS

Don't see what you're looking for?

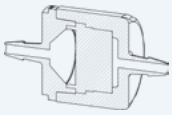
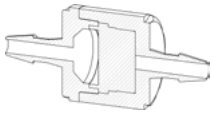
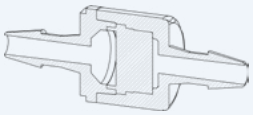
We can also provide

SAMPLE KITS

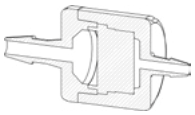
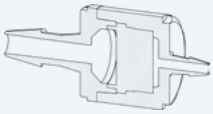
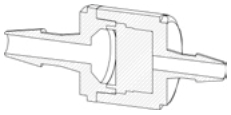
CUSTOM FITTINGS

ASSEMBLIES

Tube to Tube Filters

Component	Cross Section	Part Number	Description
		**F116** F116	Filter 1/16" Barbs (1.5mm) ABS
		**F332** F332	Filter 3/32" Barbs (2.25mm) ABS
		**F18** F18	Filter 1/8" Barbs (3mm) ABS

Tube to Tube Reducing Filters

Component	Cross Section	Part Number	Description
		**F332R116** F332R116	Filter 3/32" to 1/16" Barbs (2.25mm to 1.5mm) ABS
		**F18R116** F18R116	Filter 1/8" to 1/16" Barbs (3mm to 1.5mm) ABS
		**F18R332** F18R332	Filter 1/8" to 3/32" Barbs (3mm to 2.25mm) ABS

Tube to Tube

Injectech tube to tube connectors are available in several different styles for the most precise fit into tubing.

Lot-traceable

- Manufactured with 100% virgin materials. Material and product certifications are available on request
- Manufactured and packaged in an ISO Class 8 (100,000) clean room environment
- Manufactured to ISO 13485 quality system standards

Range of Available Materials

- Nylon
- Animal Free Polypropylene
- Polycarbonate
- Kynar
- Tritan™ Copolyester

Tube to Tube Barbed Connectors

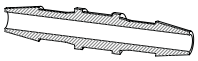
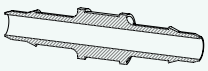
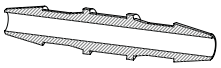
Fluid Control:

A key component of leading-edge biomedical technologies.

Single barb design advantages:

- Leak potential is minimized because there is no parting line on the barb's sealing surface.
- Single barbs allow for maximum relaxation of the tubing behind the barb, resulting in a remarkable non-slip grip.
- The geometry of the barb is designed for ease of assembly, without compromising the fitting's strength or pressure capability.

Straight Connectors

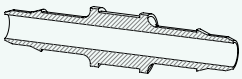
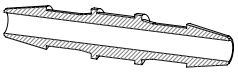
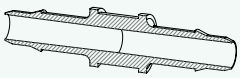
Component	Cross Section	Part Number	Description
		**IC116** IC116-N01-006 IC116-PP00-004 IC116-PC01-000 IC116-KY01-000	Straight Connector with 1/16" Barbs (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Clear Polycarbonate Kynar
		**CR116** CR116-N01-006 CR116-PP00-004 CR116-KY01-000	Straight Connector with 1/16" Rigid Barbs (1.5mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**IC332** IC332-N01-006 IC332-PP00-004 IC332-KY01-000	Straight Connector with 3/32" Barbs (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

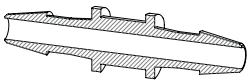
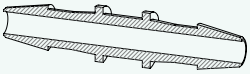
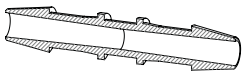
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Straight Connectors

Component	Cross Section	Part Number	Description
		**CR332** CR332-N01-006 CR332-PP00-004 CR332-KY01-000	Straight Connector with 3/32" Rigid Barbs (2.25mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**IC18** IC18-N01-006 IC18-PP00-004 IC18-RSPC01-005 IC18-KY01-000	Straight Connector with 1/8" Barbs (3mm) ID Tubing White Nylon Animal Free Polypropylene Radiation Stable Polycarbonate Kynar
		**CR18** CR18-N01-006 CR18-PP00-004 CR18-KY01-000	Straight Connector with 1/8" Rigid Barbs (3mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar

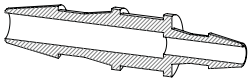
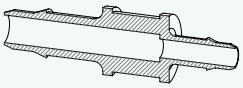
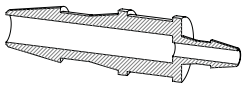
Straight Connectors

Component	Cross Section	Part Number	Description
		**IC532** IC532-N00-006 IC532-PP00-004 IC532-KY01-000 IC532-COPE00-000	Straight Connector with 5/32" Barbs (4mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester
		**IC316** IC316-N00-006 IC316-PP00-004 IC316-KY01-000 IC316-COPE00-000	Straight Connector with 3/16" Barbs (4.75mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester
		**IC14** IC14-N00-006 IC14-PP00-004 IC14-KY01-000 IC14-COPE00-000	Straight Connector with 1/4" Barbs (6.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester

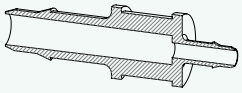
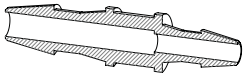
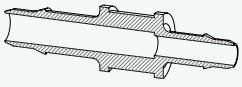
Single Barb Design

- No mold parting line on the sealing surface minimizing potential leaks
- Single barbs allow for maximum relaxation of the tubing behind the barb resulting in a remarkable non-slip grip
- Geometry of the barb is designed for easy assembly without compromising the fitting's strength or pressure capability

Straight Reducing Connectors

Component	Cross Section	Part Number	Description
		**C332R116** C332R116-N01-006 C332R116-PP00-004 C332R116-KY01-000	Straight Reducing Connector 3/32" to 1/16" Barbs (2.25mm to 1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**CR332R116** CR332R116-N01-006 CR332R116-PP00-004 CR332R116-KY01-000	Straight Reducing Connector 3/32" to 1/16" Rigid Barbs (2.25mm to 1.5mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**C18R116** C18R116-N01-006 C18R116-PP00-004 C18R116-KY01-000	Straight Reducing Connector 1/8" to 1/16" Barbs (3mm to 1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Straight Reducing Connectors

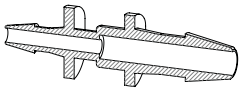
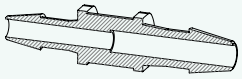
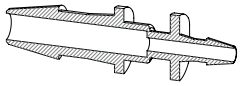
Component	Cross Section	Part Number	Description
		**CR18R116** CR18R116-N01-006 CR18R116-PP00-004 CR18R116-KY01-000	Straight Reducing Connector 1/8" to 1/16" Rigid Barbs (3mm to 1.5mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**C18R332** C18R332-N01-006 C18R332-PP00-004 C18R332-KY01-000	Straight Reducing Connector 1/8" to 3/32" Barbs (3mm to 2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**CR18R332** CR18R332-N01-006 CR18R332-PP00-004 CR18R332-KY01-000	Straight Reducing Connector 1/8" to 3/32" Rigid Barbs (3mm to 2.25mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

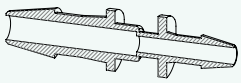
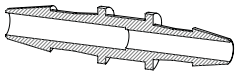
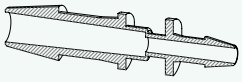
Straight Reducing Connectors

Component	Cross Section	Part Number	Description
		**C532R332** C532R332-N00-006 C532R332-PP00-004 C532R332-KY01-000	Straight Reducing Connector 5/32" to 3/32" Barbs (4mm to 2.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C532R18** C532R18-N00-006 C532R18-PP00-004 C532R18-KY01-000	Straight Reducing Connector 5/32" to 1/8" Barbs (4mm to 3mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C316R332** C316R332-N00-006 C316R332-PP00-004 C316R332-KY01-000	Straight Reducing Connector 3/16" to 3/32" Barbs (4.75mm to 2.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar

Samples are available

Please contact us for samples to test in your application.

Straight Reducing Connectors

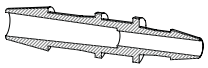
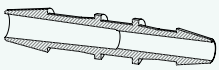
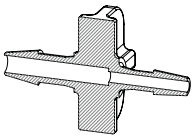
Component	Cross Section	Part Number	Description
		**C316R18** C316R18-N00-006 C316R18-PP00-004 C316R18-KY01-000	Straight Reducing Connector 3/16" to 1/8" Barbs (4.75mm to 3mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C316R532** C316R532-N00-006 C316R532-PP00-004 C316R532-KY01-000	Straight Reducing Connector 3/16" to 5/32" Barbs (4.75mm to 4mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C14R18** C14R18-N00-006 C14R18-PP00-004 C14R18-KY01-000	Straight Reducing Connector 1/4" to 1/8" Barbs (6.25mm to 3mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

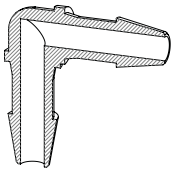
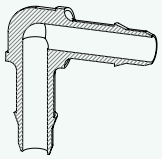
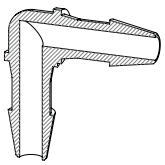
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Straight Reducing Connectors

Component	Cross Section	Part Number	Description
		**C14R532** C14R532-N00-006 C14R532-PP00-004 C14R532-KY01-000	Straight Reducing Connector 1/4" to 5/32" Barbs (6.25mm to 4mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C14R316** C14R316-N00-006 C14R316-PP00-004 C14R316-KY01-000	Straight Reducing Connector 1/4" to 3/16" Barbs (6.25mm to 4.75mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**C116R132** C116R132-KY01-000	Straight Reducing Connector 1/16" Barbs to 1/32" Barbs (3mm to 0.8mm) ID Tubing Kynar

Elbow Connectors

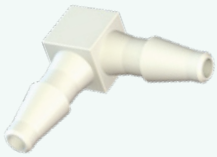
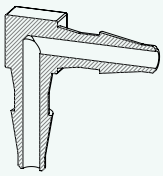
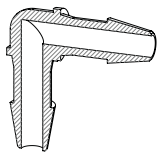
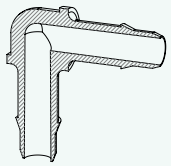
Component	Cross Section	Part Number	Description
		**IL116** IL116-N01-006 IL116-PP00-004 IL116-KY00-001	Elbow Connector with 1/16" Barbs (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**LR116** LR116-N01-006 LR116-PP00-004 LR116-KY01-000	Elbow Connector with 1/16" Rigid Barbs (1.5mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**IL332** IL332-N01-006 IL332-PP00-004 IL332-KY01-000	Elbow Connector with 3/32" Barbs (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

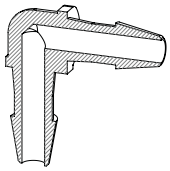
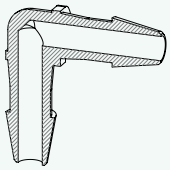
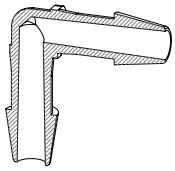
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Elbow Connectors

Component	Cross Section	Part Number	Description
		**L332** L332-N01-006 L332-PP00-004 L332-KY01-000	Square Grip Elbow Connector with 3/32" Barbs (2.25mm) ID Tubing Agressive barb facilitates connection to softer low durometer tubing White Nylon Animal Free Polypropylene Kynar
		**IL18** IL18-N01-006 IL18-PP00-004 IL18-KY01-000	Elbow Connector with 1/8" Barbs (3mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**LR18** LR18-N01-006 LR18-PP00-004 LR18-KY01-000	Elbow Connector with 1/8" Rigid Barbs (3mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar

Elbow Connectors

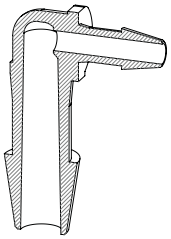
Component	Cross Section	Part Number	Description
		**IL532** IL532-N00-006 IL532-PP00-004 IL532-KY01-000 IL532-COPE00-000	Elbow Connector with 5/32" Barbs (4mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester
		**IL316** IL316-N00-006 IL316-PP00-004 IL316-KY01-000 IL316-COPE00-000	Elbow Connector with 3/16" Barbs (4.75mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester
		**IL14** IL14-N00-006 IL14-PP00-004 IL14-KY01-000 IL14-COPE00-000	Elbow Connector with 1/4" Barbs (6.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

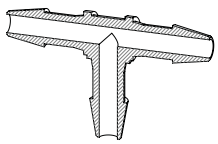
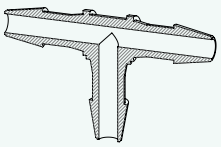
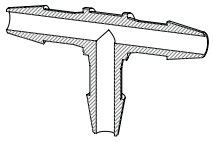
Reducing Elbow Connectors

Component	Cross Section	Part Number	Description
		**IL14R18**	Elbow Reducing Connector with 1/4" to 1/8" Barbs (6.25mm to 3mm) ID Tubing
		IL14R18-N00-006	Natural Nylon
		IL14R18-PP00-004	Animal Free Polypropylene
		IL14R18-KY01-000	Kynar

Barb Design

Technical information regarding barb dimensions can be found on p126 at the back of this catalog.

Tee Connectors

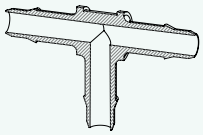
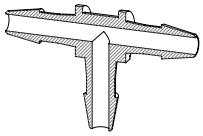
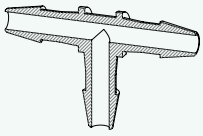
Component	Cross Section	Part Number	Description
		**IT116** IT116-N01-006 IT116-PP00-004 IT116-KY01-000	Tee Connector with 1/16" Barbs (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**IT332** IT332-N01-006 IT332-PP00-004 IT332-KY01-000	Tee Connector with 3/32" Barbs (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**IT18** IT18-N01-006 IT18-PP00-004 IT18-KY01-000 IT18-COPE00-000	Tee Connector with 1/8" Barbs (3mm) ID Tubing White Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester

Animal Derivative Free Materials:

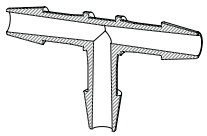
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

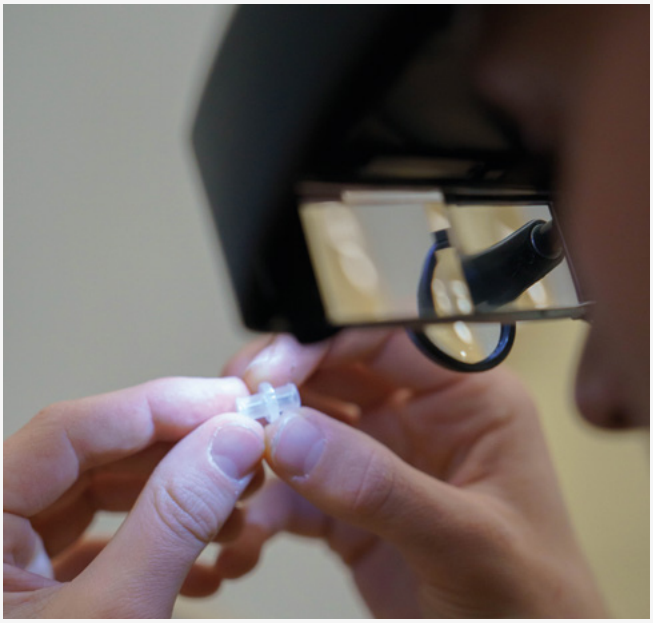
Tee Connectors

Component	Cross Section	Part Number	Description
		**TR18** TR18-N01-006 TR18-PP00-004 TR18-KY01-000	Tee Connector with Rigid 1/8" Barbs (3mm) ID Tubing Rigid barb facilitates connection to high durometer tubing White Nylon Animal Free Polypropylene Kynar
		**IT532** IT532-N00-006 IT532-PP00-004 IT532-KY01-000 IT532-COPE00-000	Tee Connector with 5/32" Barbs (4mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester
		**IT316** IT316-N00-006 IT316-PP00-004 IT316-KY01-000 IT316-COPE00-000	Tee Connector with 3/16" Barbs (4.75mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester

Tee Connectors

Component	Cross Section	Part Number	Description
		**IT14** IT14-N00-006 IT14-PP00-004 IT14-KY01-000 IT14-COPE00-000	Tee Connector with 1/4" Barbs (6.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar Tritan™ Copolyester

Injectech's engineering team is built around quality and performance.



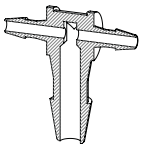
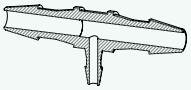
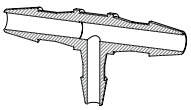
As a custom injection molding manufacturer, we can work with you to bring an initial concept of a part through design, development and process validation. Our extensive mold qualification process gives customers the satisfaction that each part produced will meet their requirements.

Animal Derivative Free Materials:

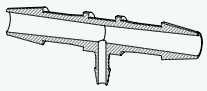
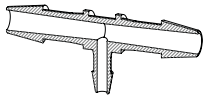
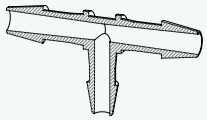
PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Tee Reducing Connectors

Component	Cross Section	Part Number	Description
		**T1169018** T1169018-N01-006 T1169018-PP00-004 T1169018-KY01-000	Tee Reducing Connector with 1/16" Barbs to 1/8" Barbed Leg (1.5mm to 3mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**T18L116** T18L116-N01-006 T18L116-PP00-004 T18L116-KY01-000	Tee Reducing Connector with 1/8" Barbs to 1/16" Barbed Leg (3mm to 1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**T18L332** T18L332-N01-006 T18L332-PP00-004 T18L332-KY01-000	Tee Reducing Connector with 1/8" Barbs to 3/32" Barbed Leg (3mm to 2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Tee Reducing Connectors

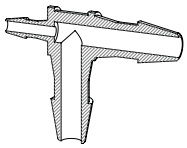
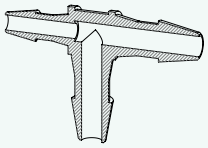
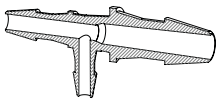
Component	Cross Section	Part Number	Description
		**T14L332** T14L332-N00-006 T14L332-PP00-004 T14L332-KY01-000	Tee Reducing Connector with 1/4"Barbs to 3/32" Barbed Leg (6.25mm to 2.25mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**T14L18** T14L18-N00-006 T14L18-PP00-004 T14L18-KY01-000	Tee Reducing Connector with 1/4" Barbs to 1/8" Barbed Leg (6.25mm to 3mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar
		**T14L316** T14L316-N00-006 T14L316-PP00-004 T14L316-KY01-000	Tee Reducing Connector with 1/4" Barbs to 3/16" Barbed Leg (6.25mm to 4.75mm) ID Tubing Natural Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Tee Reducing Connectors

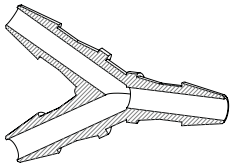
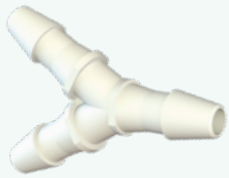
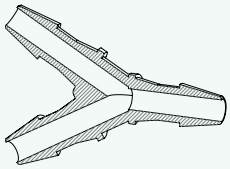
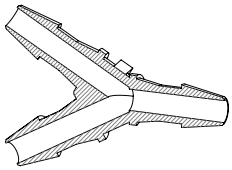
Component	Cross Section	Part Number	Description
		**T18R116** T18R116-N01-006 T18R116-PP00-004 T18R116-KY01-000	Asymmetric Tee Reducing Connector with 1/8" Barbs to 1/16" Barb (3mm to 1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**T18R332** T18R332-N01-006 T18R332-PP00-004 T18R332-KY01-000	Asymmetric Tee Reducing Connector with 1/8" Barbs to 3/32" Barb (3mm to 2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**CP031** CP031-ABS01-001	Barbed Tee Reducing Connector for 3/32", 1/8" and 3/16" (2.25mm, 3mm and 4.75mm) ID Tubing White ABS

TUBE TO TUBE

Samples are available

Please contact us for samples to test in your application.

Y Connectors

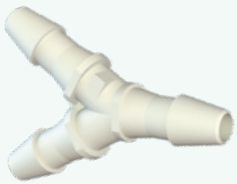
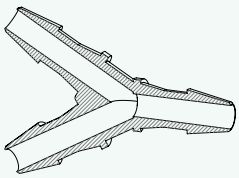
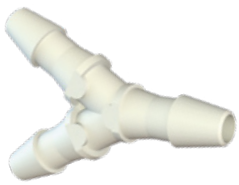
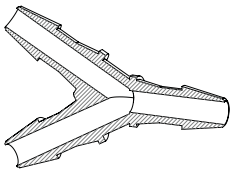
Component	Cross Section	Part Number	Description
		**Y116** Y116-N01-006 Y116-PP00-004 Y116-KY01-000	Y Connector with 1/16" Barbs (1.5mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**Y332** Y332-N01-006 Y332-PP00-004 Y332-KY01-000	Y Connector with 3/32" Barbs (2.25mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**Y18** Y18-N01-006 Y18-PP00-004 Y18-KY01-000	Y Connector with 1/8" Barbs (3mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Animal Derivative Free Materials:

PP00-004 | Animal Free Polypropylene
KY01-000 | Kynar
ABS00-002 | Clear ABS

Multiple color options available for Nylon components. Subject to minimum order quantities.

Y Connectors

Component	Cross Section	Part Number	Description
		**Y532** Y532-N01-006 Y532-PP00-004 Y532-KY01-000	Y Connector with 5/32" Barbs (4mm) ID Tubing White Nylon Animal Free Polypropylene Kynar
		**Y316** Y316-N01-006 Y316-PP00-004 Y316-KY01-000	Y Connector with 3/16" Barbs (4.75mm) ID Tubing White Nylon Animal Free Polypropylene Kynar

Technical Information

Useful guides to help our customers make informed choices.

Guides, Specifications and Charts

- Chemical Resistance Chart
- Material Properties
- Conversion Charts
- Barb Dimensions
- Index
- Terms & Conditions

Resistance Chart

Key:

EX | Excellent SA | Satisfactory UN | Unsatisfactory

Chemical Resistance of Resin

Chemical	%	Temp °C	Temp °F	ABS	PVDF	Nylon	Polycarbonate	Polypropylene
Acetic Acid	5	23	73	EX	EX	SA	SA	EX
Acetone	100	50	122	UN	UN	SA	UN	EX
Acetophenone	100	24	75	SA	UN	EX	—	SA
Acetylene	100	24	75	-	EX	EX	—	—
Air	100	82	180	EX	EX	EX	—	—
Ammonia, Liquid	100	24	75	SA	UN	SA	UN	EX
Ammonium Hydroxide	10	23	73	SA	EX	EX	UN	EX
Ammonium Hydroxide	10	70	158	UN	EX	UN	UN	EX
Barium Sulfide	100	24	75	EX	EX	SA	—	EX
Benzene	100	23	73	SA	EX	EX	UN	SA
Bleach	100	23	73	-	EX	SA	UN	SA
Boric Acid	7	35	95	EX	EX	UN	EX	EX
Calcium Carbonate	Sat sol.	24	75	EX	EX	—	—	EX
Carbon Dioxide	100	50	122	SA	EX	EX	—	EX
Carbon Monoxide	100	50	122	SA	EX	EX	—	EX
Carbon Tetrachloride	100	50	122	UN	EX	EX	UN	UN
Chlorine Water Dilute	Dilute	23	73	UN	EX	SA	UN	UN
Chlorine Water Concen.	Concen.	23	73	UN	EX	UN	UN	UN
Chlorobenzene	100	23	73	SA	EX	EX	UN	UN
Chlorofluorocarbon 11	100	24	75	-	EX	EX	SA	—
Chloroform	100	23	73	UN	EX	SA	UN	UN
Cyclohexanone	100	24	75	UN	EX	EX	UN	SA
Dichlorethylene	100	23	73	-	EX	SA	—	EX
Ethanol	95	50	122	SA	EX	EX	SA	EX
Ethyl Acetate	95	50	122	SA	UN	EX	UN	SA
Ethylene Glycol	100	23	73	EX	EX	EX	SA	EX
Ethylene Oxide	100	24	75	UN	EX	SA	SA	SA
Ethylene Oxide	100	79	175	UN	EX	UN	SA	UN
Fatty Acids	-	-	-	-	EX	—	SA	EX
Fluorine	100	23	73	UN	EX	UN	—	—

For reference only | Please test in your applcation.

To order, and for information incl. price, delivery, and material guide:
E: **sales@injectech.us** | T: **+1 970 482 0273** | **www.injectech.net**

Key:

EX | Excellent SA | Satisfactory UN | Unsatisfactory

Chemical Resistance of Resin

Chemical	%	Temp °C	Temp °F	ABS	PVDF	Nylon	Polycarbonate	Polypropylene
Formaldehyde	37	24	75	UN	EX	—	UN	EX
Gasoline	100	85	185	EX	EX	EX	UN	SA
Glucose	Concen.	24	75	EX	EX	—	—	EX
Glycerin	100	24	75	EX	EX	—	EX	EX
Hydrochloric Acid	2	23	73	EX	EX	EX	EX	EX
Hydrochloric Acid	10	25	77	EX	EX	UN	EX	EX
Hydrofluoric Acid	10	23	73	SA	EX	UN	—	EX
Hydrogen Peroxide	1	24	75	EX	EX	SA	EX	EX
Hydrogen Peroxide	5	43	110	SA	EX	UN	EX	SA
Isopropanol	70	23	73	—	EX	EX	—	EX
Kerosene	100	85	185	SA	EX	EX	SA	SA
Methyl Ethyl Ketone	100	50	122	UN	UN	EX	UN	SA
Methylene Chloride	100	23	73	UN	EX	SA	UN	EX
Methanol	100	23	73	UN	EX	EX	SA	EX
Nitric Acid	10	23	73	SA	EX	UN	UN	EX
Oxygen	100	24	75	—	EX	SA	—	—
Ozone	100	43	110	SA	SA	UN	UN	—
Phenol	90	23	73	UN	EX	UN	—	EX
Phosphoric Acid	5	98	208	SA	EX	UN	UN	EX
Propane	100	23	73	SA	EX	EX	—	—
Sodium Bicarbonate	Concen.	24	75	EX	EX	EX	—	EX
Sodium Chloride	10	23	73	EX	EX	EX	—	EX
Sodium Chloride	Sat sol.	24	75	EX	EX	EX	—	EX
Sodium Hydroxide	10	70	158	SA	EX	SA	—	EX
Steam	-	120	248	UN	EX	UN	UN	SA
Sulfuric Acid	30	23	73	SA	EX	UN	EX	EX
Tetrahydrofuran	100	23	73	SA	UN	EX	—	UN
Toluene	100	50	122	SA	EX	EX	UN	UN
Trichloroethylene	100	23	73	SA	EX	SA	UN	UN
Water	100	79	175	EX	EX	EX	UN	EX

For reference only | Please test in your applcation.

Material Properties

Polycarbonate | PC01-000

Polycarbonate is a clear material, which makes it desirable for many clinical and diagnostic applications. It has a higher impact strength than nylon, acrylic or ABS. It is a commonly used material for sunglass lenses due to its abrasion resistance and superior optical qualities. Polycarbonate is chemical resistant, but some oils and solvents will cause it to stress crack. It has excellent bonding characteristics; however, when solvents are used for assembly, it may be necessary to anneal the components prior to solvent bonding. Polycarbonate is used in: IV components, cardiac surgery and general medical applications.

Sterilization

Polycarbonate has sufficient temperature resistance to allow autoclave sterilization, but is not suited to repeated cycles. It is also compatible with gamma and EtO (Ethylene Oxide) sterilization methods.

Classifications

- Meets Requirements for USP Class VI, ISO 10993-1, and FDA 21 CFR 177.1500
- RoHS Compliant
- DEHP Free
- Phthalate Free
- Conflict Mineral Compliant
- Human Derivative Free

Radiation Stable Polycarbonate | RSPC01-005

Radiation Stable Polycarbonate has the same properties as standard polycarbonate, but is formulated with stabilizing additives that increase its resistance to gamma radiation. The formulation includes an indicator pigment that changes from light purple to clear when the parts have undergone gamma sterilization.

Sterilization

RSPC can withstand radiation doses in the range of 100 kGy (see Polycarbonate).

Classifications

- Meets Requirements for USP Class VI
- Meets Requirements for ISO 10993
- RoHS Compliant
- DEHP Free
- REACH Compliant
- Phthalate Free
- Latex Free
- Conflict Mineral Compliant
- Ozone Depleting Substances Compliant
- California Prop. 65 Compliant

Lipid Resistant Radiation Stable Polycarbonate | RSPC01-001

In addition to radiation tolerance, Lipid Resistant Radiation Stable Polycarbonate is less affected by oils and fats, which can occasionally cause crazing in other polycarbonate formulations.

Sterilization

Lipid Resistant Radiation Polycarbonate can withstand radiation doses in the range of 100kGy (see Polycarbonate).

Classifications

- Meets Requirements for USP Class VI
- Meets Requirements for ISO 10993
- RoHS Compliant
- DEHP Free
- Animal Derivative Free
- REACH Compliant
- Phthalate Free
- Human Derivative Free

Acrylonitrile Butadiene Styrene (ABS) | ABS01-001

ABS is a low cost, impact resistant material that typically produces a glossy, impervious surface. ABS polymers are resistant to aqueous acids, alkalis, concentrated hydrochloric and phosphoric acids, and animal, vegetable and mineral oils. ABS is an ideal material for structural applications where impact resistance, strength, and stiffness are required. Athletic helmets and Legos blocks are common examples of products manufactured from ABS.

Sterilization

ABS is compatible with EtO (Ethylene Oxide) sterilization, but is not compatible with autoclave or gamma sterilization.

Classifications

- Meets Requirements for USP Class VI, ISO 10993-1, and FDA 21 CFR 181.32
- Conflict Mineral Compliant
- RoHS Compliant

Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS) | ABS00-002

With similar characteristics to ABS01-001 White, ABS00-002 Clear is used to produce many of our male and female luers.

Classifications

- Meets Requirements for USP Class VI, FDA 21 CFR 181.32
- Conflict Mineral Compliant
- DEHP Free
- RoHS Compliant
- Animal Derivative Free
- Human Derivative Free
- REACH Compliant
- California Prop. 65 Compliant
- BPA Free
- Phthalate Free
- Latex Free

Material Properties

Nylon | N01-006

Nylon is a widely used medical polymer due to its strength / impact resistance, relatively low cost and wide temperature resistance range (-50 °C - 135 °C). Nylon is resistant to a wide range of chemicals, but is vulnerable to attack by strong acids and oxidizers.

Sterilization

Nylon is compatible with EtO (Ethylene Oxide) sterilization and can withstand gamma sterilization (to 50 kGy). It does have a tendency to discolor with increased doses of gamma radiation. Nylon may also be autoclaved; however, it is a hygroscopic material and may swell when exposed to moist environments.

Classifications

- Meets Requirements for FDA 21 CFR 177.1500
- RoHS Compliant
- REACH Compliant
- Phthalate Free
- BPA Free
- Ozone Depleting Substances Compliant
- California Prop. 65 Compliant

Natural Nylon | N00-006

With similar characteristics to N01-000, N00-006 is used to produce many of our larger sized tube to tube connectors.

Classifications

- Meets Requirements for FDA 21 CFR 177.1500
- RoHS Compliant
- REACH Compliant
- Phthalate Free
- BPA Free
- Ozone Depleting Substances Compliant
- California Prop. 65 Compliant

Acrylic | ACRL00-004

Acrylic is used for molding and extrusion of medical applications. It has excellent chemical resistance to fats and oils, bonding and welding capabilities, bonding to PVC tubing, excellent impact strength, and light transmission. Acrylic also has good melt flow rate and heat resistance.

Sterilization

Acrylic is compatible with EtO (Ethylene Oxide), gamma, and E-beam sterilization.

Classifications

- Meets Requirements for USP Class VI and ISO 10993
- RoHS Compliant
- REACH Compliant
- Phthalate Free
- BPA Free
- Conflict Mineral Compliant
- Latex Free
- DEHP Free

Kynar (PDVF - Polyvinylidene Flouride) | KY01-000

Kynar is a high-strength, high-purity resin that is resistant to solvents, acids, bases and deionized water. It exhibits a high tolerance for heat and is animal derivative free. Due to its chemical resistance and adaptability to multiple sterilization techniques, it is highly suited to many bioprocess, pharmaceutical and medical applications.

Sterilization

Kynar is compatible with sterilization by autoclave, high doses of gamma radiation and EtO (Ethylene Oxide).

Classifications

- Meets Requirements for USP Class VI
- Animal Derivative Free
- RoHS Compliant
- REACH Compliant
- BPA Free
- DEHP Free
- Phthalate Free
- Latex Free
- Ozone Depleting Substances Compliant
- Conflict Mineral Compliant

Polypropylene (Animal Free) | PP00-004

Injectech uses an animal derivative free grade of propylene for all of its stock polypropylene products. This grade of polypropylene is formulated for use in medical, biomedical and bioprocess applications and is resistant to a broad spectrum of solvents and chemicals.

Sterilization

Polypropylene is highly compatible with EtO (Ethylene Oxide) sterilization and is compatible with gamma sterilization in the range of 35-40 kGy (higher doses may produce a slight color shift). It may be autoclaved for up to 20 minutes @ 121 °C; however, since the material softens at this temperature, caution must be exercised when loading the autoclave to avoid any stresses that could deform the connector.

Classifications

- Meets Requirements for USP Class VI, ISO 10993-5, and FDA 21 CFR 177.1500
- Animal Derivative Free
- RoHS Compliant
- REACH Compliant
- Ozone Depleting Substances Compliant
- Phthalate Free
- Conflict Mineral Compliant
- California Prop. 65 Compliant
- BPA Free
- Latex Free
- DEHP Free

Eastman Tritan™ Copolyester | COPE00-000

The clear copolyester used by Injectech is proudly supplied by Eastman Chemical Company. Eastman's Tritan™ Copolyester is a tough, clear polymer that delivers best-in-class chemical resistance. It helps manufacturers of intravenous (IV) components differentiate their products in the marketplace while improving user satisfaction and confidence. It has excellent solvent bonding, adhesive bonding, and welding as well as low extractables. Tritan™ Copolyester also has great chemical resistance to oncology drugs, drug carrier solvents, enteral feeding solutions, and lipids.

Sterilization

Tritan™ Copolyester is compatible with EtO (Ethylene Oxide) sterilization, gamma sterilization, and e-beam irridation. Unlike many other polymers, Tritan™ does not suffer color shifting or loss of properties following nonautoclave sterilization methods such as gamma or electron beam (e-beam) radiation.

Classifications

- Meets Requirements for - USP Class VI - ISO 10993-5
- Animal Derivative Free
- Antioxidant Free
- RoHS Compliant
- BPA Free
- DEHP Free

Conversion Charts

Flow Rate Conversions				
cc/min	x 1 =	ml/min	/ 1 =	cc/min
cf/min (ft^3/min)	x 28.31 =	l/min	/ 28.31 =	cf/min (ft^3/min)
cf/min (ft^3 /min)	x 1.699 =	m^3/hr	/ 1.699 =	cf/min (ft^3/min)
cf/hr (ft^3/hr)	x 472 =	ml/min	/ 472 =	cf/hr (ft^3/hr)
cf/hr (ft^3/hr)	x 0.125 =	g/min	/ 0.125 =	cf/hr (ft^3/hr)
gal/hr	x 63.1 =	ml/min	/ 63.1 =	gal/hr
gal/hr	x 0.134 =	cf/hr	/ 0.134 =	gal/hr
gal/min	x 0.227 =	m^3/hr	/ 0.227 =	gal/min
gal/min	x 3.785 =	l/min	/ 3.785 =	gal/min
oz/min	x 29.57 =	ml/min	/ 29.57 =	oz/min

Length Conversions				
inch	x 2.54 =	cm	/ 2.54 =	inch
foot	x 12 =	inch	/ 12 =	inch
foot	x 0.305 =	m	/ 0.305 =	foot
yard	x 1.094 =	m	/ 1.094 =	yard
angstrom	x 1010 =	m	/ 1010 =	angstrom

Pressure/Vacuum Conversions				
atm	x 33.9 =	ft H_2O	/ 33.9 =	atm
atm	x 760 =	mm Hg	/ 760 =	atm
atm	x 1033.2 =	g/cm^2	/ 1033.2 =	atm
atm	x 14.70 =	psi	/ 14.70 =	atm
atm	x 1.013 =	bar	/ 1.013 =	atm
atm	x 101.3 =	kPa	/ 101.3 =	atm
bar	x 14.5 =	psi	/ 14.5 =	bar
bar	x 0.9869 =	atm	/ 0.9869 =	bar
bar	x 100 =	kPa	/ 100 =	bar
ft H_2O	x 0.4335 =	psi	/ 0.4335 =	ft H_2O
kPa	x 10000 =	dyne/cm^2	/10000 =	kPa
kPa	x 0.1450 =	psi	/ 0.1450 =	psi
kPa	x 7.5 =	mm Hg	/ 7.5 =	kPa
psi	x 0.0703 =	kg/cm^2	/ 0.0703 =	psi

Metric Conversions	
1 centimeter	.3937 inches
1 inch	2.54 centimeters
1 foot	30.48 centimeters
1 square centimeter	.1550 sq. inches
1 square inch	6.452 sq. centimeters
1 cubic centimeter	.061 cubic inches
1 cubic inch	16.39 cubic centimeters
1 liter	61.02 cubic inches
1 liter	1.057 quarts
1 quart	.946 liters
1 ounce	28.35 grams
1 gram	.0352 ounces
1 gram	.0022 lbs.
1 pound per square inch	.0703 kilograms per sq. centimeter
1 kilogram per square centimeter	14.22 lbs. per sq. in.
1 millimeter	.0393 inches

Weight and Measure Conversions	
1 foot	12 inches
1 foot of water	.434 lbs. per sq. inch
1 inch of mercury	1.133 feet of water
1 atmosphere	29.92 inches of mercury
1 atmosphere	14.7 lbs. per sq. inch
1 pound per square inch	2.036 inches of mercury
1 pound (advp)	16 ounces
1 gallon	4 quarts
1 quart	2 pints
1 pint	20 ounces
1 gallon	277 cubic inches
1 square foot	144 sq. inches
1 cubic foot	1,728 cubic inches

Conversion Charts

Temperature Conversions

°C	Temp	°F	°C	Temp	°F	°C	Temp	°F	°C	Temp	°F	°C	Temp	°F	°C	Temp	°F
-17.8	0	32.0	-1.1	30	86.0	15.6	60	140.0	32.2	90	194.0	143	290	554	310	590	1094
-17.2	1	33.8	-0.6	31	87.8	16.1	61	141.8	32.8	91	195.8	149	300	572	316	600	1112
-16.7	2	35.6	0	32	89.6	16.7	62	143.6	33.3	92	197.6	154	310	590	321	610	1130
-16.1	3	37.4	0.6	33	91.4	17.2	63	145.4	33.9	93	199.4	160	320	608	327	620	1148
-15.6	4	39.2	1.1	34	93.2	17.8	64	147.2	34.4	94	201.2	166	330	626	332	630	1166
-15.0	5	41.0	1.7	35	95.0	18.3	65	149.0	35.0	95	203.0	171	340	644	338	640	1184
-14.4	6	42.8	2.2	36	96.8	18.9	66	150.8	35.6	96	204.8	177	350	662	343	650	1202
-13.9	7	44.6	2.8	37	98.6	19.4	67	152.6	36.1	97	206.6	182	360	680	349	660	1220
-13.3	8	46.4	3.3	38	100.4	20.0	68	154.4	36.7	98	208.4	188	370	698	354	670	1238
-12.8	9	48.2	3.9	39	102.2	20.6	69	156.2	37.2	99	210.2	193	380	716	360	680	1256
-12.2	10	50.0	4.4	40	104.0	21.1	70	158.0	38	100	212	199	390	734	366	690	1274
-11.7	11	51.8	5.0	41	105.8	21.7	71	159.8	43	110	230	204	400	752	371	700	1292
-11.1	12	53.6	5.6	42	107.6	22.2	72	161.6	49	120	248	210	410	770	377	710	1310
-10.6	13	55.4	6.1	43	109.4	22.8	73	163.4	54	130	266	216	420	788	382	720	1328
-10.0	14	57.2	6.7	44	111.2	23.3	74	165.2	60	140	284	221	430	806	388	730	1346
-9.4	15	59.0	7.2	45	113.0	23.9	75	167.0	66	150	302	227	440	824	393	740	1364
-8.9	16	60.8	7.7	46	114.8	24.4	76	168.8	71	160	320	232	450	842	399	750	1382
-8.3	17	62.6	8.3	47	116.6	25.0	77	170.6	77	170	338	238	460	860	404	760	1400
-7.8	18	64.4	8.9	48	118.4	25.6	78	172.4	82	180	356	243	470	878	410	770	1418
-7.2	19	66.2	9.4	49	120.2	26.1	79	174.2	88	190	374	249	480	896	416	780	1436
-6.7	20	68.0	10.0	50	122.0	26.7	80	176.0	93	200	392	254	490	914	421	790	1454
-6.1	21	69.8	10.6	51	123.8	27.2	81	177.8	99	210	410	260	500	932	427	800	1472
-5.6	22	71.6	11.1	52	125.6	27.8	82	179.6	100	212	413	266	510	950	432	810	1490
-5.0	23	73.4	11.7	53	127.4	28.3	83	181.4	104	220	428	271	520	968	438	820	1508
-4.4	24	75.2	12.2	54	129.2	28.9	84	183.2	110	230	446	277	530	986	443	830	1526
-3.9	25	77.0	12.8	55	131.0	29.4	85	185.0	116	240	464	282	540	1004	449	840	1544
-3.3	26	78.8	13.3	56	132.8	30.0	86	186.8	121	250	482	288	550	1022	454	850	1562
-2.8	27	80.6	13.9	57	134.6	30.6	87	188.6	127	260	500	293	560	1040	460	860	1580
-2.2	28	82.4	14.4	58	136.4	31.1	88	190.4	132	270	518	299	570	1058	466	870	1598
-1.7	29	84.2	15.0	59	138.2	31.7	89	192.2	138	280	536	304	580	1076	471	880	1616

To use | Begin in the column labeled '**Temp**' with the temperature that you need to convert (either Farenheit or Celcius).

- To convert from Farenheit to Celcius: read the equivalent value in the column to the left.
- To convert from Celcius to Farenheit: read the equivalent value in the column to the right.

Volume Conversions				
cubic cm (cc)	x 1 =	ml	/ 1 =	cubic cm (cc)
oz (fluid)	x 29.57 =	ml	/ 29.57 =	oz (fluid)
cubic ft (ft^3)	x 7.48 =	gal	/ 7.48 =	cubic ft (ft^3)
cubic ft (ft^3)	x 0.0283 =	m^3	/ 0.0283 =	cubic ft (ft^3)
cubic meters	x 1000 =	liters	/ 1000 =	cubic meters
gal	x 128 =	oz (fl)	/ 128 =	gal
gal	x 3.785 =	liters	/ 3.785 =	gal
gal	x 0.8333 =	imp gal	/ 0.8333 =	gal
quart	x 0.25 =	gal	/ 0.25 =	quart
quart	x 0.9464 =	liters	/ 0.9464 =	quart
cup	x 236.59 =	mL	/ 236.59 =	cup
cup	x 8 =	oz (fl)	/ 8 =	cup
pint	x 0.125 =	gal	/ 0.125 =	pint
pint	x 0.4732 =	liters	/ 0.4732 =	pint
bushel	x 9.3092 =	gal	/ 9.3092 =	bushel
bushel	x 35.239 =	liters	/ 35.239 =	bushel
bushel	x 64 =	pints (fl)	/ 64 =	bushel

Providing your Project with Support from Start to Finish

Injectech has an established reputation for flexible manufacturing. We offer our customers a number of specialized services. We are equipped to manage all stages of project development from design and engineering to verification and validation.

Don't see the fitting you need for your project? Contact us to find out how we can assist you. Along with our established line of plastic barbed fittings, Injectech can also produce custom components to meet your needs. We provide:

Assembly

Our assembly services include, solvent and adhesive bonding, clean room assembly, component sourcing, ultrasonic welding and rapid tube assembly.

Manufacturing

Our manufacturing services include, lot-traceable materials, ISO Class 8 (100,000) environment, QMS certified to ISO 13485, all electric injection presses, and automated processing capabilities.

Custom Design

Our custom design services include, prototype machining and molding, design support and consulting, production molds, and material sourcing.

Engineering

Our engineering services include, custom components, first article inspection reports, initial mold verification sampling, leak and pressure testing, process characterization studies, performance qualification studies, and collaborative verification and validation.

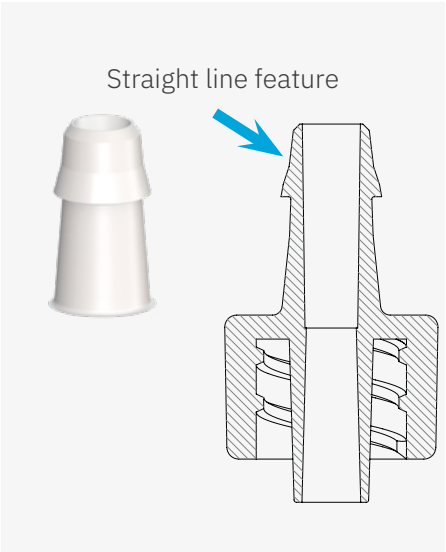
Barb Dimensions

Standard Barb

Barb Size	Barb OD
1/32"	0.066
1/16"	0.094
3/32"	0.141
1/8"	0.188
5/32"	0.234
3/16"	0.282
1/4"	0.388

Rigid Barb

Barb Size	Barb OD
1/16"	0.078
3/32"	0.117
1/8"	0.156
3/16"	0.234



High Flow Barb

Barb Size	Barb OD
1/8"	0.164
5/32"	0.208
3/16"	0.264
1/4"	0.335

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Terms and Conditions

These Terms and Conditions of Sale are subject to change without notice.

AGREEMENT. Buyer accepts these Terms and Conditions of Sale ("Terms and Conditions") by (a) executing a separate agreement with Injectech, LLC ("Injectech") which incorporates these terms and conditions, (b) delivering a purchase order for Injectech products or services ("Products") with specifications, quantities, delivery dates and other terms acceptable to Injectech, (c) accepting delivery of the Products, or (d) paying the price for the Products, whether prior to delivery or not, as agreed to by the parties and/or set forth in the quote or invoice, whichever comes first.

PAYMENT TERMS. Net 30 days from receipt on open account, subject to approval. Visa, MasterCard and American Express are also accepted. All prices quoted and monies due are in U.S. dollars. Buyer agrees to be solely liable for any and all taxes arising out of Buyer's purchase of Products and sale of such Products to its customers. Injectech will add sales, use and other taxes as required by law.

MINIMUM ORDER. Please contact us for minimum order quantity requirements.

DELIVERY AND SHIPMENT. All domestic shipments shall be F.O.B. Injectech's facility, Fort Collins, Colorado. All international shipments shall be EXW Injectech's facility, Fort Collins, Colorado (Incoterms 2000). Risk of loss shall transfer to Buyer upon delivery to the freight carrier. A Packaging/Handling fee will be applied as a percentage of the total invoice amount.

INSPECTION/ACCEPTANCE OF PRODUCTS. Buyer shall be responsible for inspecting all Products prior to acceptance. If the products are rejected, Injectech must receive written notice within 30 days of delivery. Otherwise, the Products shall be deemed to have been accepted by the Buyer. Injectech does not perform C=0 inspections unless specified by customers or agreed by both parties. Standard inspection criteria are based in the latest revision of WI 8.2.2 and/or AQL 0.65 sampling plan.

LIMITED WARRANTY. Injectech does not specify or warrant any product it sells for any particular purpose, use or application. It is solely up to the purchaser to determine whether the Injectech product will function in the purchaser's application. Injectech warrants to Buyer that all Products shall be free from material defects in materials and workmanship. Injectech must receive all warranty claims no later than 3 months from the date of shipment. Buyer's exclusive remedy, and Injectech's sole liability, for any breach of the foregoing warranty shall be for Injectech, at its sole option, to repair, replace or modify the defective Product or to refund to Buyer the purchase price paid by Buyer for the defective Product. The warranty service shall be performed at a location determined by Injectech. In order to receive the warranty service, Buyer must return the defective Product within 30 days of notification from Buyer hereunder. All defective Products returned under this warranty that are replaced, or for which a refund is given to Buyer, shall become Injectech's property. Notwithstanding the foregoing, this limited warranty shall not apply if:

(1) Product is altered or modified after delivery, including in Buyer's manufacturing or assembly process.

(2) Any repairs or alterations have been performed by Buyer without prior notification to and authorization by Injectech.

(3) Negligence, misuse, or abuse of the product by any party.

This limited warranty does not extend to products not manufactured by Injectech or to damages caused by purchased components, parts or supplies not manufactured by Injectech. **THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AND INJECTECH HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, NON-INFRINGEMENT AND IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR USE.**

FORCE MAJEURE. Injectech shall not be liable, directly or indirectly, for any delays or failures in performance resulting from causes beyond its reasonable control, including but not limited to, fire, acts of God or third parties, labor disputes or disturbances, shortage of raw materials, supplies or components, manufacturing issues, retooling, upgrading of technology, embargo, government regulation, order or directive, or communication or utility failures.

CANCELLED ORDERS. Cancellations of custom orders are subject to a cancellation fee based upon the amount of design, development and manufacturing at the time of cancellation.

RETURNED GOODS. A return authorization must be obtained from Injectech for Products that do not conform to our warranty statement. Injectech does not allow returns in regards to changes to specifications, customer errors, or shipping schedules once the Product has been shipped.

INDEMNIFICATION. Buyer shall indemnify and hold harmless Injectech and its affiliated companies and each of their respective officers, directors, employees, shareholders, agents and representatives from all losses, claims, damages, expenses or liabilities of any kind (including attorney's fees and court costs) resulting from or arising out of any use, modification, resale or transfer by Buyer of the Products. Buyer represents, warrants, and covenants that Buyer will not infringe or misappropriate, and neither the Products nor any element thereof will infringe or misappropriate, any intellectual property rights, including without limitation, any copyrights, trademarks, trade names, trade secrets and patent rights ("Intellectual Property Rights") of any other person as a result of any specifications provided by Buyer. Buyer will, at its own expense, indemnify, defend, hold harmless and pay any and all costs and damages awarded against Injectech based on any third-party claims that the Products infringe any Intellectual Property Rights. In the event of any third-party claim, demand, suit, or action (a "Claim") for which indemnification is required hereunder, the indemnified party may, at its option, require Buyer to defend such Claim at Buyer's sole expense. Buyer may not agree to settle any Claim without the express prior written consent of the indemnified party.

LIMITATIONS ON LIABILITY. INJECTECH SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED BY DELAY IN FURNISHING ANY PRODUCT. UNDER NO CIRCUMSTANCE SHALL INJECTECH BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, COLLATERAL, SPECIAL, PUNITIVE, TREBLE, EXEMPLARY OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS OR GOODWILL) WHETHER SUCH CLAIM IS BASED ON CONTRACT, NEGLIGENCE, TORT, WARRANTY OR ANY OTHER BASIS, IRRESPECTIVE OF WHETHER INJECTECH HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH LOSS OR DAMAGE. IN NO EVENT SHALL INJECTECH'S AGGREGATE LIABILITY EXCEED THE TOTAL AMOUNTS ACTUALLY PAID BY BUYER FOR THE PRODUCTS PURCHASED.

EXPORT REGULATIONS; PERMITS. Buyer is solely responsible for compliance with any and all applicable export control requirements, including the U.S. Export Administration Regulations, related documentation requirements and internal control procedures and regulations of the Office of Foreign Assets Control of the U.S. Department of the Treasury. Buyer shall be solely responsible for obtaining any necessary export control licenses and permits.

REGULATORY REQUIREMENTS. Injectech, LLC relies on the material suppliers, resin manufacturers, equipment, and chemical suppliers' regulatory information. We do not test or analyze these materials for any specified regulatory requirements; the information provided by the material suppliers, resin manufacturers, equipment, and chemical suppliers has been compiled in a readily retrievable format as a service to our customers. Ultimately customers and end-users must make their determinations ensuring the use of these products is safe, lawful, and suitable for their intended applications.

CHANGES. Injectech reserves the right to change, in whole or in part, at any time, prices, discounts, rebates, warranties, product specifications, products offered, policies and terms and conditions of sale, including these Terms and Conditions.

Product Change Notification Policy: Our policy is to notify customers for changes related to a product's form, fit or function. Injectech's products are our proprietary designs with which we serve many diverse customers and markets. Therefore, we will not withhold changes to standard parts pending customer approval. You may visit www.injectech.net to view details of our product change notification policy.

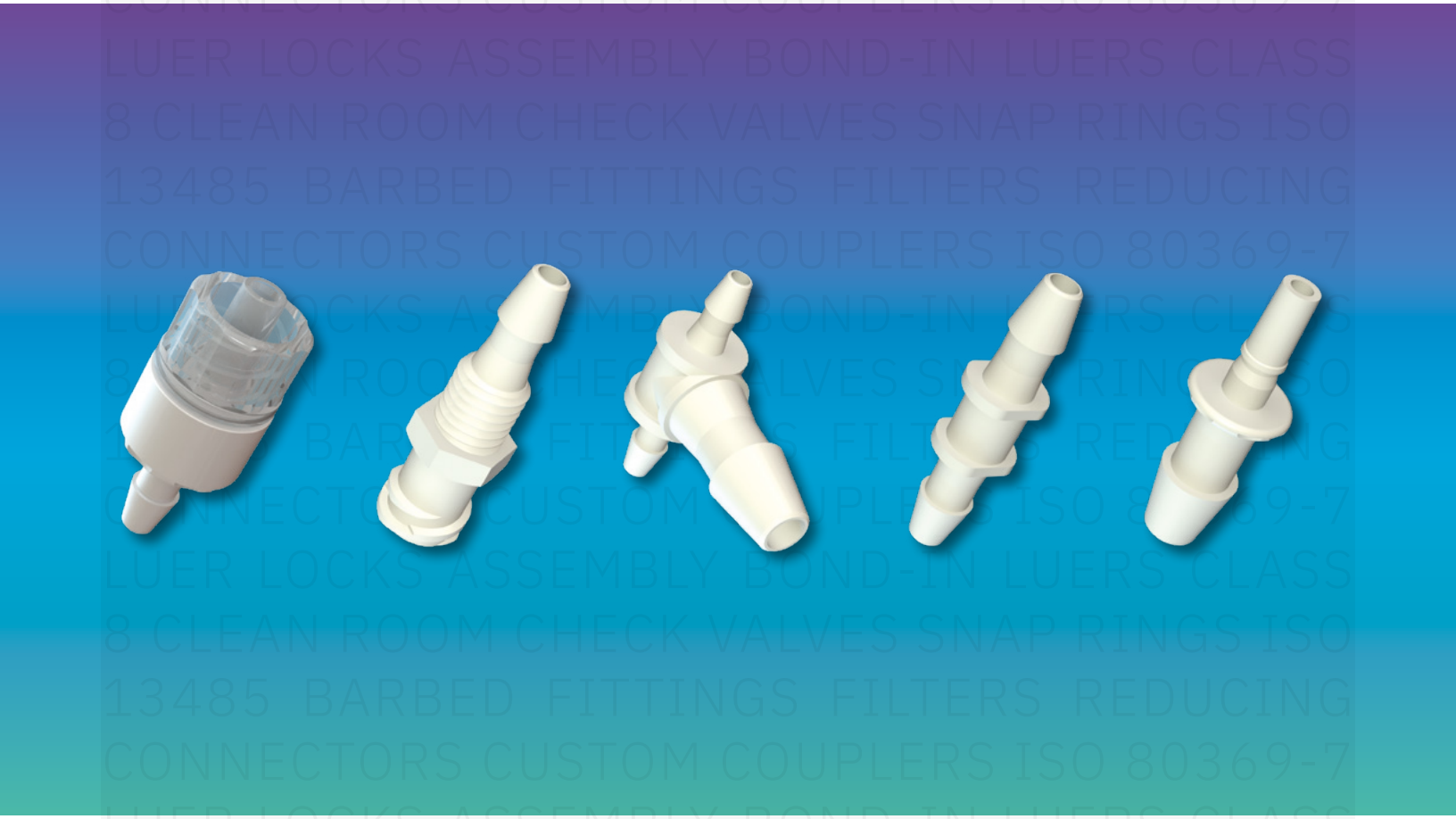
APPLICABLE LAW; VENUE. These Terms and Conditions shall be governed by and construed in accordance with the laws of the State of Colorado. Any action at law, suit in equity, or judicial proceeding of any kind arising directly, indirectly, or otherwise in connection with, out of, related to or from these Terms and Conditions shall be litigated only in the state or federal courts located in the City and County of Denver, Colorado, and the parties waive any right they may have to challenge the jurisdiction of this court or seek to bring any action in any other forum, whether originally or by transfer, removal or change of venue.

Injectech

Trusted Biomedical Components

Injectech proudly supplies fluid control components such as male luer locks, female luer locks, check valves, and tube to tube connectors to medical device OEMs, biomedical and pharmaceutical manufacturers, veterinary suppliers, and industrial businesses worldwide.

Our services not only include the manufacture of high quality plastic fittings, we also provide custom design and assembly. We maintain an ISO 13485 certified quality management system and all products are molded, assembled, and packaged within an ISO Class 8 (100,000) clean room.



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