

EJ Automotive an Eldon James company, is an innovative, world class manufacturer and has been a global supplier of proprietary and customized tubing and connection solutions for over 32 years. We specialize in PVC-free tubing, connectors and quick disconnect fittings designed for fluid routing and vacuum systems for automotive, transportation, and industrial applications.

The company offers engineering/design PPAP capabilities, and partners in developing special connection and tubing applications and private-labeled products.

We offer contract manufacturing opportunities with a portfolio of capabilities that include: extrusion, injection molding, formed tubing and assembly. Our quality certifications include ISO 9001 and ISO 13485. Eldon James is a women owned company and all manufactured products are made in the USA.

- Serving the automotive and transportation industries since 1987.
- Established automotive industry quality supplier
- State-of-the-art production equipment and automation
- Modular molding systems allow competitive pricing
- S7 heat treated steel tooling components
- Eldon James 'Single Barb' fittings and tubing are manufactured in the USA
- 6000+ hose fitting, material/design combinations
- 350+ tubing type and size combinations
- WBEC certified (Woman Owned Enterprise)





Our commitment to quality and innovation has allowed us to grow with leading edge products for the automotive and transportation market:

- Biofuel compatible tubing and fittings which meet automotive standard approvals
- Black nylon and glass filled black nylon fittings for heater and fuel lines
- Fittings that are high impact and chemical resistant
- Stainless Steel MIM Fittings
- Various fitting kits to assure that you have the right part on hand
- A proven history of use in industrial and transportation markets





Connectors

EJ Automotive offers an extensive range of fittings including: couplers, bulkhead adapters, reducer, threaded adapters, elbows, tees, cross, and Y fittings. Most part families available from 1/16 inch to 1 inch hose barb sizes. EJ Automotive manufactures true metric barb sizes in couplers from 4mm to 25mm.

Eldon James 'Single Barb' fittings allow tubing to be compressed behind the barb. This creates a seal that is far more secure than what can be achieved using fittings with multiple barb configurations (sawtooth design).



Threaded Marine Fittings:

Marine fittings are made from the same grade of impact resistant glass-filled black nylon as our automotive connectors; however, special thread molds are used to compensate for nylon threads' tendency to swell in wet conditions.



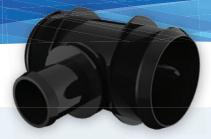
Tubing and Clamps

We manufacture 24 proprietary lines of plastic tubing for a variety of applications and sizes ranging from microbore to 1" OD.

KFlex PVDF - Kynar® lined flexible tubing is biofuel compatible and a wide range of complementary connectors are available.

Tube Thermoforming enables clean, compact designs without fittings by allowing tighter bends that reduces space requirements.

EJ Automotive carries stainless steel Oetiker stepless ear, worm-drive clamps and Ideal hex screw clamps. A wide range of nylon plastic handy clamps are also available.



Automotive Materials:

Black Nylon (BN) Material & Approvals:

- Made from 6/6 nylon
- Working Temperature Range -50 °F to 275 °F
- Pressure 150 psi @ 70 °F
- High impact resistance and tensile strength resistant to fuels and lubricants
- Commonly used in fuel line, vacuum system and general purpose applications

Glass-Filled Black Nylon (GFBN) Material & Approvals:

- Working Temperature Range -50 °F to 275 °F
- Pressure 150 psi @ 70 °F
- Heat Deflection Temperature ASTM D64:
 475 °F (246 °C) @ 264 psi
- GFBN exhibits enhanced impact resistance resulting from the inclusion of glass fibers
- Commonly used in under-the-hood, heater and coolant applications.



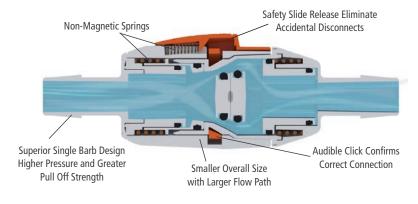
Thermorformed Tubing

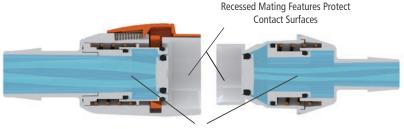
- Reduced space requirements
- Less assembly time
- Fewer fittings

SeriesLock*

CHANGING THE WAY YOU CONNECT

SeriesLock is a new, innovative, quick-connect coupler that allows a larger volume of fluid or air to pass through at lower line pressures. Male valve assemblies include a vented spring chamber that helps eliminate fluid cross over. Recessed mating features protect contact surfaces and prolong the life of the O-rings helping to ensure a better seal for longer. The audible click upon connection and the safety slide release are both features to help minimize accidental disconnects.





Spring-Free Flow Path

Four different body sizes are available to accommodate tubing sizes ranging from 1/16" ID to 3/4" ID Tubing. Fittings are available in a variety of materials and with multiple configurable options: UNEF Threaded Panel Mount, NPT Threaded Adapter, Barb Coupler, and Sanitary Flange.





CONNECTIONS:

1/16" to 3/4" Tubing

MATERIALS:

Main Body Components:

Acetal (AC)
Glass Filled Black Nylon (GFBN) Option
Polypropylene (PP)
Polyvinylidene fluoride (PVDF) Option
Polysulfone (PS)

Slide Button / Main Latch:

Co-Polyester

Slide Button / Main Latch Color:

Orange - Default Red - Option Natural - Option Blue - Option

Springs:

Stainless Non-Magnetic Option

Seals:

Buna-N EPDM, Silicone and Viton Options

LUBRICANTS:

PFPE (biocompatible, inert)

PRESSURF:

Vacuum to 90psi, 6.2 bar

TEMPERATURE (continuous):

AC: 32°F to 180°F (0°C to 82°C) GFBN: 32°F to 450°F (0°C to 232°C) PP: 32°F to 160°F (0°C to 71°C) PVDF: 32°F to 250°F (0°C to 121°C) PS: -40°F to 282°F (-40°C to 139°C)

SPILLAGE (at rated pressures):

Small Housing (1/8" to 3/16" Tubing) <0.05cc per disconnect

Medium Housing (1/4" to 3/8" Tubing) <0.05cc per disconnect

Large Housing (1/2" to 3/4" Tubing) <0.1cc per disconnect

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Modern design combined with state-of-the-art metallurgy has enabled EJ Automotive to offer MIM (Metal Injection Molded) fittings in seamless configurations impossible to produce with welded fabrication. In addition, our molybdenum bearing, austenitic 316L stainless steel products are far more resistant to pitting and corrosion than those built using welded 304 stainless steel construction.

All 316L Stainless Steel range of products are manufactured to meet the chemical and mechanical property specifications of ASTM A240 and ASME SA-240 and are sintered to material specifications of ASTM B 883-97.





Connector Kits

EJ Automotive connector kits offer a convenient parts source for product designers, technicians, and laboratories. Available in biofuel compatible and standard automotive approved materials. Kits save time by providing a visual reference for part selection and ready access to a variety of fittings sizes.

Biofuels kit fittings are made from PVDF (Polyvinylidene Fluoride) Kynar®, which is resistant to the organic acids present in most biofuels. The fittings are compatible with E-85 ethanol and other flex-fuels, as well as, biodiesel and algae produced fuels.

Specification: The working temperature range of Kynar is -80 °F to 226 °F and rated pressure is 260 psi @ 70 °F.

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